



Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAU 3562-Joliet Rd at 55th Street Office Phone Number, if available: _____

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

55th St (West) STA 294+18.3 to 300+00; Joliet Rd (South) STA 550+00 to 552+20, 553+20 to 555+20 (ISGS Site 2815V-1)

City: McCook State: IL Zip Code: 60525

County: Cook Township: Lyons

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

Latitude: 41.79102 Longitude: - 87.84208

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

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

Estimated Volume of debris (cu. Yd.): 597

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West 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 Department of Transportation

Street Address: 201 West 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)]:

Soil from borings B01 to B07, B09, B10 were sampled adjacent to ISGS Site No 2815V-1. See Exhibit 2 and Table 1 of the Preliminary Site Investigation Report prepared by Terracon.

- 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]:

TestAmerica Lab Report No J167743-2, J167744-2, J167784-1. Also see Preliminary Site Investigation Report prepared by Terracon. CCDD/USFO facility in MSA County.

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

I, Matt Weiss (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: Terracon Consultants, Inc.
Street Address: 192 Exchange Boulevard
City: Glendale Heights State: IL Zip Code: 60139
Phone: 630-717-4263

Matt Weiss
Printed Name:

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

9/25/19
Date:



[Empty box for P.E or L.P.G. Seal]

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

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2815V-1-B01 (0-3.5)	2815V-1-B02 (0-4)	2815V-1-B03 (0-3.5)	2815V-1-B04 (0-3.5)	2815V-1-B05 (0-5)	2815V-1-B05 (0-5) Dup	2815V-1-B05 (5-7)	2815V-1-B06 (0-5)
				CCDD	Sample Depth (feet)	(0-3.5)	(0-4)	(0-3.5)	(0-3.5)	(0-5)	(0-5)	(5-7)	(0-5)
		mg/kg	Date Collected	08/02/2019	08/02/2019	08/02/2019	08/02/2019	08/05/2019	08/05/2019	08/05/2019	08/05/2019	08/05/2019	
		Chicago	MSAs	pH 6.25-9.0									
Volatile Organic Analytical Parameters													
Acetone	mg/kg	---	---	25		0.052	<0.0081	<0.0071	<0.0081	<0.0084	<0.0077	0.01	<0.0079
2-Butanone	mg/kg	---	---	17		0.007	<0.0021	<0.0018	<0.0021	<0.0021	<0.0020	<0.0019	<0.0020
Methylene Chloride	mg/kg	---	---	0.02		0.0038	0.003	<0.0016	0.0046	<0.0019	<0.0018	<0.0017	0.0018
Semivolatile Organic Analytical Parameters													
Acenaphthene	mg/kg	0.09	0.13	570		0.013	<0.0069	<0.0062	<0.0067	<0.0064	<0.0063	<0.0062	0.0097
Acenaphthylene	mg/kg	0.03	0.07	85		0.013	<0.0050	<0.0045	0.008	0.0078	0.0059	<0.0046	0.0089
Anthracene	mg/kg	0.25	0.4	12000		0.014	<0.0064	<0.0058	0.011	0.0082	0.013	0.0059	0.03
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.069	0.023	<0.0046	0.077	0.061	0.084	0.048	0.17
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.092	0.031	<0.0067	0.087	0.088	0.12	0.065	0.22
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.15	0.035	<0.0074	0.11	0.13	0.17	0.09	0.32
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.054	0.021	<0.011	0.073	0.043	0.059	0.041	0.12
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.056	<0.011	<0.010	0.053	0.038	0.057	0.025	0.13
Chrysene	mg/kg	1.2	2.7	88		0.1	0.027	<0.0094	0.1	0.073	0.12	0.064	0.2
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		0.017	<0.0074	<0.0067	0.015	<0.0069	0.016	0.01	0.027
Fluoranthene	mg/kg	2.7	4.1	3100		0.11	0.033	<0.0064	0.14	0.09	0.18	0.07	0.34
Fluorene	mg/kg	0.1	0.18	560		0.013	<0.0054	<0.0048	<0.0052	<0.0050	<0.0049	<0.0049	0.008
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.04	0.021	<0.0089	0.061	0.046	0.046	0.035	0.1
Naphthalene	mg/kg	0.04	0.2	1.8		0.01	<0.0059	<0.0053	<0.0057	<0.0055	<0.0054	<0.0053	0.0059
Phenanthrene	mg/kg	1.3	2.5	210		0.091	0.016	<0.0048	0.056	0.04	0.062	0.026	0.16
Pyrene	mg/kg	1.9	3.0	2300		0.25	0.033	<0.0069	0.12	0.14	0.17	0.073	0.35
bis(2-Ethylhexyl)phthalate	mg/kg	---	---	46		<0.063	<0.070	<0.063	<0.068	<0.065	<0.064	<0.063	<0.064
2-Methylnaphthalene	mg/kg	---	0.14	---		0.031	<0.0070	<0.0063	<0.0068	<0.0065	<0.0064	<0.0064	<0.0064
Inorganic Analytical Parameters													
Arsenic	mg/kg	---	13	11.3		2	12	5	8.6	3.7	4	2.3	3.9
Barium	mg/kg	---	110	1500		24	74	6.6	79	33	30	16	38
Cadmium	mg/kg	---	0.6	5.2		0.18	0.2	0.14	0.37	0.29	0.3	0.21	0.31
Chromium, total	mg/kg	---	16.2	21		3.7	18	2.2	13	6.7	6.5	4.2	7.5
Lead	mg/kg	---	36	107		8.1	29	3.6	48	60	56	28	35
Mercury	mg/kg	---	0.06	0.1		<0.0056	0.017	<0.0052	0.023	0.01	0.011	<0.0054	0.0084
Selenium	mg/kg	---	0.48	1.3		<0.30	0.82	<0.31	0.8	0.34	<0.29	<0.29	0.3
Silver	mg/kg	---	0.55	4.4		0.45	3.1	0.5	2.8	1	1	0.68	0.81
Antimony	mg/kg	---	4.0	5		0.32	<0.22	0.41	<0.21	0.62	0.44	0.5	0.54
Beryllium	mg/kg	---	0.59	22		0.15	0.65	0.078	0.54	0.28	0.25	0.2	0.25
Calcium	mg/kg	---	9,300	---		180000	4300	190000	9100	130000	130000	190000	140000
Cobalt	mg/kg	---	8.9	20		2	9.8	1.9	11	4.3	4.6	2.7	4.6
Copper	mg/kg	---	19.6	2900		4.4	9.1	1.1	20	19	12	5.2	13
Cyanide	mg/kg	---	0.51	---		<0.23	<0.24	<0.22	<0.28	<0.25	<0.23	<0.25	<0.26
Iron	mg/kg	---	15,900	15000		2800	24000	2700	16000	6900	7500	3800	6500
Magnesium	mg/kg	---	4,820	325000		120000	3700	120000	5900	89000	91000	110000	94000
Manganese	mg/kg	---	636	630		140	220	100	540	260	240	160	290
Nickel	mg/kg	---	18	100		3.8	15	2.9	22	9.2	9.1	4.8	8
Potassium	mg/kg	---	1,268	---		610	1100	440	1400	970	910	840	830
Sodium	mg/kg	---	130	---		760	130	150	68	150	150	160	270
Thallium	mg/kg	---	0.32	2.6		<0.25	0.95	<0.26	0.74	<0.25	<0.25	<0.24	<0.25
Vanadium	mg/kg	---	25.2	550		6.1	30	2.9	22	9.9	9.2	5.6	9.5
Zinc	mg/kg	---	95	5100		15	71	5	72	50	51	25	58
pH			6.25	9		8.9	8.2	8.8	8	8.9	8.8	8.8	8.6

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2815V-1-B01 (0-3.5)	2815V-1-B02 (0-4)	2815V-1-B03 (0-3.5)	2815V-1-B04 (0-3.5)	2815V-1-B05 (0-5)	2815V-1-B05 (0-5) Dup	2815V-1-B05 (5-7)	2815V-1-B06 (0-5)
				CCDD	Sample Depth (feet)	(0-3.5)	(0-4)	(0-3.5)	(0-3.5)	(0-5)	(0-5)	(5-7)	(0-5)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	08/02/2019	08/02/2019	08/02/2019	08/02/2019	08/05/2019	08/05/2019	08/05/2019	08/05/2019
Inorganic Analytical Parameters (SPLP)													
Antimony,SPLP	mg/L	---	---	---		--	--	--	--	--	--	--	--
Arsenic,SPLP	mg/L	---	---	---		--	--	--	--	--	--	--	--
Barium,SPLP	mg/L	---	---	---		--	--	--	--	--	--	--	--
Beryllium,SPLP	mg/L	---	---	---		--	--	--	--	--	--	--	--
Cadmium,SPLP	mg/L	---	---	---		--	--	--	--	--	--	--	--
Calcium,SPLP	mg/L	---	---	---		--	--	--	--	--	--	--	--
Chromium,SPLP	mg/L	---	---	---		--	--	--	--	--	--	--	--
Cobalt,SPLP	mg/L	---	---	---		--	--	--	--	--	--	--	--
Copper,SPLP	mg/L	---	---	---		--	--	--	--	--	--	--	--
Iron,SPLP	mg/L	---	---	---		--	--	--	--	--	--	--	--
Lead,SPLP	mg/L	---	---	---		--	--	--	--	--	--	--	--
Magnesium,SPLP	mg/L	---	---	---		--	--	--	--	--	--	--	--
Manganese,SPLP	mg/L	---	---	---		<0.010	--	--	--	--	--	<0.010	--
Mercury,SPLP	mg/L	---	---	---		--	--	--	--	--	--	--	--
Nickel,SPLP	mg/L	---	---	---		--	--	--	--	--	--	--	--
Potassium,SPLP	mg/L	---	---	---		--	--	--	--	--	--	--	--
Selenium,SPLP	mg/L	---	---	---		--	--	--	--	--	--	--	--
Silver,SPLP	mg/L	---	---	---		--	--	--	--	--	--	--	--
Sodium,SPLP	mg/L	---	---	---		--	--	--	--	--	--	--	--
Thallium,SPLP	mg/L	---	---	---		--	--	--	--	--	--	--	--
Vanadium,SPLP	mg/L	---	---	---		--	--	--	--	--	--	--	--
Zinc,SPLP	mg/L	---	---	---		--	--	--	--	--	--	--	--
Cyanide,SPLP	mg/L	---	---	---		--	--	--	--	--	--	--	--
Inorganic Analytical Parameters (TCLP)													
Arsenic,TCLP	mg/L	---	---	---		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Barium,TCLP	mg/L	---	---	---		0.38	0.35	0.081	0.42	0.23	0.24	0.15	0.26
Cadmium,TCLP	mg/L	---	---	---		<0.0020	<0.0020	<0.0020	<0.0020	0.0026	0.002	<0.0020	0.0024
Chromium,TCLP	mg/L	---	---	---		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Lead,TCLP	mg/L	---	---	---		<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Silver,TCLP	mg/L	---	---	---		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Antimony,TCLP	mg/L	---	---	---		<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Calcium,TCLP	mg/L	---	---	---		440	120	340	260	200	200	190	200
Cobalt,TCLP	mg/L	---	---	---		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Copper,TCLP	mg/L	---	---	---		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Cyanide,TCLP	mg/L	---	---	---		---	---	---	---	---	---	---	---
Iron,TCLP	mg/L	---	---	---		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Magnesium,TCLP	mg/L	---	---	---		110	59	200	120	92	97	100	100
Manganese,TCLP	mg/L	---	---	---		0.87	0.053	0.09	0.12	0.053	0.029	0.34	0.019
Nickel,TCLP	mg/L	---	---	---		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Potassium,TCLP	mg/L	---	---	---		7	0.88	1.5	1.1	1.3	1.6	1.3	3.5
Sodium,TCLP	mg/L	---	---	---		---	---	---	---	---	---	---	---
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Zinc,TCLP	mg/L	---	---	---		0.082	0.21	0.022	0.3	0.042	0.4	<0.020	0.33

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2815V-1-B06 (5-10)	2815V-1-B06 (10-13.5)	2815V-1-B07 (0-5)	2815V-1-B07 (5-10)	2815V-1-B07 (10-13.5)	2815V-1-B09 (0-5)	2815V-1-B09 (0-5) Dup	2815V-1-B09 (5-7)	2815V-1-B10 (0-4)
				CCDD	Sample Depth (feet)	(5-10)	(10-13.5)	(0-5)	(5-10)	(10-13.5)	(0-5)	(0-5)	(5-7)	(0-4)
		mg/kg	Date Collected	08/05/2019	08/05/2019	08/05/2019	08/05/2019	08/05/2019	08/05/2019	08/05/2019	08/05/2019	08/05/2019	08/05/2019	08/05/2019
		Chicago	MSAs	pH 6.25-9.0										
Volatile Organic Analytical Parameters														
Acetone	mg/kg	---	---	25		<0.0074	<0.0074	<0.012	0.0081	0.0099	<0.0085	0.011	0.014	0.04
2-Butanone	mg/kg	---	---	17		<0.0019	<0.0019	<0.0031	<0.0020	<0.0019	<0.0022	<0.0026	<0.0019	<0.0028
Methylene Chloride	mg/kg	---	---	0.02		0.0017	0.0018	<0.0028	0.003	<0.0017	<0.0019	0.0026	0.0037	<0.0025
Semivolatile Organic Analytical Parameters														
Acenaphthene	mg/kg	0.09	0.13	570		<0.0062	<0.0067	0.0098	<0.0066	0.025	0.012	0.022	0.026	0.074
Acenaphthylene	mg/kg	0.03	0.07	85		0.0067	<0.0049	0.013	<0.0048	0.007	0.017	0.022	0.015	0.02
Anthracene	mg/kg	0.25	0.4	12000		0.0082	<0.0062	0.038	0.0062	0.048	0.045	0.058	0.075	0.13
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.061	0.034	0.18	0.025	0.13	0.27	0.46	0.25	0.61
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.075	0.041	0.21	0.034	0.14	0.33	0.58	0.28	0.56
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.098	0.048	0.31	0.036	0.17	0.53	0.88	0.38	0.8
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.052	0.027	0.1	0.021	0.1	0.15	0.27	0.14	0.22
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.034	0.013	0.09	0.011	0.042	0.16	0.25	0.13	0.31
Chrysene	mg/kg	1.2	2.7	88		0.072	0.04	0.19	0.028	0.13	0.35	0.61	0.25	0.57
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		0.0098	<0.0072	0.017	<0.0071	0.021	0.044	0.065	0.032	0.058
Fluoranthene	mg/kg	2.7	4.1	3100		0.099	0.05	0.31	0.038	0.25	0.62	0.92	0.46	1.3
Fluorene	mg/kg	0.1	0.18	560		<0.0048	<0.0052	0.0093	<0.0052	0.017	0.012	0.017	0.026	0.071
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.05	0.03	0.091	0.023	0.085	0.13	0.17	0.1	0.2
Naphthalene	mg/kg	0.04	0.2	1.8		<0.0053	<0.0057	0.0075	<0.0056	<0.0059	0.016	0.013	0.007	0.0094
Phenanthrene	mg/kg	1.3	2.5	210		0.048	0.028	0.15	0.02	0.19	0.22	0.25	0.33	0.53
Pyrene	mg/kg	1.9	3.0	2300		0.1	0.058	0.33	0.042	0.26	0.6	1	0.54	1.5
bis(2-Ethylhexyl)phthalate	mg/kg	---	---	46		<0.063	<0.068	<0.072	<0.067	<0.070	<0.065	<0.061	<0.063	0.074
2-Methylnaphthalene	mg/kg	---	0.14	---		<0.0063	<0.0068	0.0076	<0.0068	<0.0070	0.016	0.016	0.0097	0.013
Inorganic Analytical Parameters														
Arsenic	mg/kg	---	13	11.3		2.9	4	4	5.3	4.2	6.2	4.8	4.1	4.5
Barium	mg/kg	---	110	1500		17	56	47	66	60	73	57	23	39
Cadmium	mg/kg	---	0.6	5.2		0.24	0.2	0.42	0.23	0.21	0.49	0.51	0.37	0.4
Chromium, total	mg/kg	---	16.2	21		3.6	8.8	8.5	12	11	14	14	5.1	8.9
Lead	mg/kg	---	36	107		30	29	94	24	26	95	98	53	68
Mercury	mg/kg	---	0.06	0.1		<0.0054	0.013	0.033	0.026	0.01	0.045	0.031	0.012	0.029
Selenium	mg/kg	---	0.48	1.3		<0.28	<0.34	<0.34	<0.33	<0.33	0.59	0.29	<0.31	0.37
Silver	mg/kg	---	0.55	4.4		0.48	1.7	1.1	1.9	1.6	1.9	1.5	0.73	1.1
Antimony	mg/kg	---	4.0	5		0.37	0.53	0.69	0.42	0.56	0.37	<0.19	0.51	0.5
Beryllium	mg/kg	---	0.59	22		0.14	0.43	0.33	0.52	0.49	0.59	0.48	0.22	0.3
Calcium	mg/kg	---	9,300	---		190000	84000	120000	89000	100000	73000	110000	180000	150000
Cobalt	mg/kg	---	8.9	20		2.5	6.5	4.2	13	5.1	10	6.2	3.5	4.9
Copper	mg/kg	---	19.6	2900		7.5	10	19	13	10	28	330	11	21
Cyanide	mg/kg	---	0.51	---		<0.23	<0.29	<0.21	<0.25	<0.24	<0.19	<0.25	<0.26	<0.25
Iron	mg/kg	---	15,900	15000		4000	9300	8400	12000	9100	15000	12000	7100	8300
Magnesium	mg/kg	---	4,820	325000		110000	57000	83000	60000	71000	42000	62000	100000	84000
Manganese	mg/kg	---	636	630		150	340	210	360	170	420	300	150	230
Nickel	mg/kg	---	18	100		4.7	12	9.7	14	10	19	17	7.4	11
Potassium	mg/kg	---	1,268	---		530	1200	1100	1500	1100	1600	1500	640	1200
Sodium	mg/kg	---	130	---		220	490	240	310	360	530	450	290	220
Thallium	mg/kg	---	0.32	2.6		<0.24	0.3	0.36	0.46	<0.28	0.55	0.35	<0.26	<0.25
Vanadium	mg/kg	---	25.2	550		5.5	15	12	18	19	20	15	8.2	11
Zinc	mg/kg	---	95	5100		28	45	68	49	41	110	170	47	85
pH			6.25	9		8.8	8.8	8.7	8.6	8.8	9	8.4	8.9	8.5

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2815V-1-B06 (5-10)	2815V-1-B06 (10-13.5)	2815V-1-B07 (0-5)	2815V-1-B07 (5-10)	2815V-1-B07 (10-13.5)	2815V-1-B09 (0-5)	2815V-1-B09 (0-5) Dup	2815V-1-B09 (5-7)	2815V-1-B10 (0-4)
				CCDD	Sample Depth (feet)	(5-10)	(10-13.5)	(0-5)	(5-10)	(10-13.5)	(0-5)	(0-5)	(5-7)	(0-4)
				mg/kg	Date Collected	08/05/2019	08/05/2019	08/05/2019	08/05/2019	08/05/2019	08/05/2019	08/05/2019	08/05/2019	08/05/2019
		Chicago	MSAs	pH 6.25-9.0										
Inorganic Analytical Parameters (SPLP)														
Antimony,SPLP	mg/L	---	---	---		--	--	--	--	--	--	--	--	--
Arsenic,SPLP	mg/L	---	---	---		--	--	--	--	--	--	--	--	--
Barium,SPLP	mg/L	---	---	---		--	--	--	--	--	--	--	--	--
Beryllium,SPLP	mg/L	---	---	---		--	--	--	--	--	--	--	--	--
Cadmium,SPLP	mg/L	---	---	---		--	--	--	--	--	--	--	--	--
Calcium,SPLP	mg/L	---	---	---		--	--	--	--	--	--	--	--	--
Chromium,SPLP	mg/L	---	---	---		--	--	--	--	--	--	--	--	--
Cobalt,SPLP	mg/L	---	---	---		--	--	--	--	--	--	--	--	--
Copper,SPLP	mg/L	---	---	---		--	--	--	--	--	--	--	--	--
Iron,SPLP	mg/L	---	---	---		--	--	--	--	--	--	--	--	--
Lead,SPLP	mg/L	---	---	---		--	--	--	--	--	--	0.031	--	--
Magnesium,SPLP	mg/L	---	---	---		--	--	--	--	--	--	--	--	--
Manganese,SPLP	mg/L	---	---	---		<0.010	--	--	--	--	0.5	0.33	0.051	0.2
Mercury,SPLP	mg/L	---	---	---		--	--	--	--	--	--	--	--	--
Nickel,SPLP	mg/L	---	---	---		--	--	--	--	--	--	--	--	--
Potassium,SPLP	mg/L	---	---	---		--	--	--	--	--	--	--	--	--
Selenium,SPLP	mg/L	---	---	---		--	--	--	--	--	--	--	--	--
Silver,SPLP	mg/L	---	---	---		--	--	--	--	--	--	--	--	--
Sodium,SPLP	mg/L	---	---	---		--	--	--	--	--	--	--	--	--
Thallium,SPLP	mg/L	---	---	---		--	--	--	--	--	--	--	--	--
Vanadium,SPLP	mg/L	---	---	---		--	--	--	--	--	--	--	--	--
Zinc,SPLP	mg/L	---	---	---		--	--	--	--	--	--	--	--	--
Cyanide,SPLP	mg/L	---	---	---		--	--	--	--	--	--	--	--	--
Inorganic Analytical Parameters (TCLP)														
Arsenic,TCLP	mg/L	---	---	---		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Barium,TCLP	mg/L	---	---	---		0.17	0.24	0.3	0.28	0.28	0.39	0.41	0.27	0.4
Cadmium,TCLP	mg/L	---	---	---		0.0023	<0.0020	0.0021	<0.0020	<0.0020	0.0035	0.004	0.003	0.0037
Chromium,TCLP	mg/L	---	---	---		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Lead,TCLP	mg/L	---	---	---		<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	0.009	<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Silver,TCLP	mg/L	---	---	---		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Antimony,TCLP	mg/L	---	---	---		<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Calcium,TCLP	mg/L	---	---	---		200	190	200	190	190	270	300	260	280
Cobalt,TCLP	mg/L	---	---	---		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Copper,TCLP	mg/L	---	---	---		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Cyanide,TCLP	mg/L	---	---	---		---	---	---	---	---	---	---	---	---
Iron,TCLP	mg/L	---	---	---		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Magnesium,TCLP	mg/L	---	---	---		110	100	85	100	110	100	100	130	110
Manganese,TCLP	mg/L	---	---	---		0.17	<0.010	0.016	<0.010	0.037	0.16	0.35	0.33	0.31
Nickel,TCLP	mg/L	---	---	---		<0.010	<0.010	<0.010	<0.010	0.061	<0.010	0.012	0.013	0.011
Potassium,TCLP	mg/L	---	---	---		0.98	1.7	2.8	1.7	0.67	1.8	2.7	0.87	3.2
Sodium,TCLP	mg/L	---	---	---		---	---	---	---	---	---	---	---	---
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Zinc,TCLP	mg/L	---	---	---		<0.020	<0.020	0.064	0.67	0.17	0.4	0.21	0.32	0.083

ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-167743-2
Client Project/Site: IDOT - McCook - WO 061

For:

Terracon Consulting Eng & Scientists
192 Exchange Blvd
Glendale Heights, Illinois 60139

Attn: Mr. Matthew Weiss



Authorized for release by:
8/15/2019 9:17:57 AM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

LINKS

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - McCook - WO 061

Job ID: 500-167743-2

Job ID: 500-167743-2

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-167743-2

Receipt

The samples were received on 8/2/2019 4:15 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 6.1° C, 6.3° C and 8.4° C.

GC/MS VOA

One Surrogate (Dibromofluoromethane) recovery for the following sample was outside control limits: 2815V-1-B01 (0-3.5) (500-167743-9). Evidence of matrix interference is present due to the basic pH 11 of the sample; therefore, no re-analysis was not performed.

The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for 498117 recovered outside control limits for the following analytes: Vinyl chloride and Methylene chloride. Vinyl chloride was biased high in the LCS/ LCSD while Methylene chloride was biased high in the LCSD. Vinyl chloride was not detected while Methylene chloride was detected below the reporting limit in the associated samples; therefore, the data have been reported.

The laboratory control sample (LCS) for 498284 recovered outside control limits for the following analyte: Chloroethane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method(s) 8270D: The following sample contained one base surrogate outside acceptance limits: The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

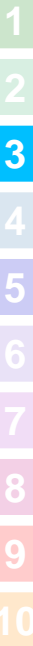
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.



Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167743-2

Client Sample ID: 2815V-1-B01 (0-3.5)

Lab Sample ID: 500-167743-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.052		0.020	0.0086	mg/Kg	1	☼	8260B	Total/NA
2-Butanone (MEK)	0.0070		0.0050	0.0022	mg/Kg	1	☼	8260B	Total/NA
Methylene Chloride	0.0038	J	0.0050	0.0020	mg/Kg	1	☼	8260B	Total/NA
Acenaphthene	0.013	J	0.034	0.0062	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.013	J	0.034	0.0045	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.014	J	0.034	0.0057	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.069		0.034	0.0046	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.092		0.034	0.0067	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.15		0.034	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.054		0.034	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.056		0.034	0.010	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.10		0.034	0.0094	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.017	J	0.034	0.0066	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.11		0.034	0.0064	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.013	J	0.034	0.0048	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.040		0.034	0.0089	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.031	J	0.069	0.0063	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.010	J	0.034	0.0053	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.091		0.034	0.0048	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.25		0.034	0.0068	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.32	J	1.0	0.20	mg/Kg	1	☼	6010B	Total/NA
Arsenic	2.0		0.50	0.17	mg/Kg	1	☼	6010B	Total/NA
Barium	24		0.50	0.057	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.15	J	0.20	0.047	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.18	B	0.10	0.018	mg/Kg	1	☼	6010B	Total/NA
Chromium	3.7		0.50	0.25	mg/Kg	1	☼	6010B	Total/NA
Cobalt	2.0		0.25	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	4.4		0.50	0.14	mg/Kg	1	☼	6010B	Total/NA
Iron	2800		10	5.2	mg/Kg	1	☼	6010B	Total/NA
Lead	8.1		0.25	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	120000		25	12	mg/Kg	5	☼	6010B	Total/NA
Calcium	180000	B	100	17	mg/Kg	10	☼	6010B	Total/NA
Manganese	140		0.50	0.073	mg/Kg	1	☼	6010B	Total/NA
Nickel	3.8		0.50	0.15	mg/Kg	1	☼	6010B	Total/NA
Silver	0.45		0.25	0.065	mg/Kg	1	☼	6010B	Total/NA
Vanadium	6.1		0.25	0.059	mg/Kg	1	☼	6010B	Total/NA
Zinc	15		1.0	0.44	mg/Kg	1	☼	6010B	Total/NA
Potassium	610		25	8.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	760	B	50	7.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.38	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	440		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	110		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.87		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	7.0		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.082	J	0.50	0.020	mg/L	1		6010B	TCLP
pH	8.9		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2815V-1-B04 (0-3.5)

Lab Sample ID: 500-167743-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.0046	J*	0.0047	0.0018	mg/Kg	1	☼	8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167743-2

Client Sample ID: 2815V-1-B04 (0-3.5) (Continued)

Lab Sample ID: 500-167743-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.0080	J	0.037	0.0049	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.011	J	0.037	0.0062	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.077		0.037	0.0050	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.087		0.037	0.0072	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.11		0.037	0.0080	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.073		0.037	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.053		0.037	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.10		0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.015	J	0.037	0.0072	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.14		0.037	0.0069	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.061		0.037	0.0096	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.056		0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.12		0.037	0.0074	mg/Kg	1	☼	8270D	Total/NA
Arsenic	8.6		0.54	0.18	mg/Kg	1	☼	6010B	Total/NA
Barium	79		0.54	0.061	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.54		0.21	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.37	B	0.11	0.019	mg/Kg	1	☼	6010B	Total/NA
Chromium	13		0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.27	0.070	mg/Kg	1	☼	6010B	Total/NA
Copper	20		0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	16000		11	5.6	mg/Kg	1	☼	6010B	Total/NA
Lead	48		0.27	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	5900		5.4	2.7	mg/Kg	1	☼	6010B	Total/NA
Calcium	9100	B	11	1.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	540		0.54	0.078	mg/Kg	1	☼	6010B	Total/NA
Nickel	22		0.54	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.80		0.54	0.32	mg/Kg	1	☼	6010B	Total/NA
Silver	2.8		0.27	0.069	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.74		0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.27	0.063	mg/Kg	1	☼	6010B	Total/NA
Zinc	72		1.1	0.47	mg/Kg	1	☼	6010B	Total/NA
Potassium	1400		27	9.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	68	B	54	7.9	mg/Kg	1	☼	6010B	Total/NA
Barium	0.42	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	260		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	120		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.12		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.1	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.30	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.023		0.017	0.0057	mg/Kg	1	☼	7471B	Total/NA
pH	8.0		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - McCook - WO 061

Job ID: 500-167743-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-167743-9	2815V-1-B01 (0-3.5)	Solid	08/02/19 14:05	08/02/19 16:15	
500-167743-10	2815V-1-B04 (0-3.5)	Solid	08/02/19 13:20	08/02/19 16:15	

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167743-2

Client Sample ID: 2815V-1-B01 (0-3.5)

Lab Sample ID: 500-167743-9

Date Collected: 08/02/19 14:05

Matrix: Solid

Date Received: 08/02/19 16:15

Percent Solids: 93.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.052		0.020	0.0086	mg/Kg	☼	08/02/19 17:22	08/06/19 12:22	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg	☼	08/02/19 17:22	08/06/19 12:22	1
Bromodichloromethane	<0.00040		0.0020	0.00040	mg/Kg	☼	08/02/19 17:22	08/06/19 12:22	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg	☼	08/02/19 17:22	08/06/19 12:22	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg	☼	08/02/19 17:22	08/06/19 12:22	1
2-Butanone (MEK)	0.0070		0.0050	0.0022	mg/Kg	☼	08/02/19 17:22	08/06/19 12:22	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg	☼	08/02/19 17:22	08/06/19 12:22	1
Carbon tetrachloride	<0.00057		0.0020	0.00057	mg/Kg	☼	08/02/19 17:22	08/06/19 12:22	1
Chlorobenzene	<0.00073		0.0020	0.00073	mg/Kg	☼	08/02/19 17:22	08/06/19 12:22	1
Chloroethane	<0.0015 *		0.0050	0.0015	mg/Kg	☼	08/02/19 17:22	08/06/19 12:22	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg	☼	08/02/19 17:22	08/06/19 12:22	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg	☼	08/02/19 17:22	08/06/19 12:22	1
cis-1,2-Dichloroethene	<0.00055		0.0020	0.00055	mg/Kg	☼	08/02/19 17:22	08/06/19 12:22	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg	☼	08/02/19 17:22	08/06/19 12:22	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg	☼	08/02/19 17:22	08/06/19 12:22	1
1,1-Dichloroethane	<0.00068		0.0020	0.00068	mg/Kg	☼	08/02/19 17:22	08/06/19 12:22	1
1,2-Dichloroethane	<0.0015		0.0050	0.0015	mg/Kg	☼	08/02/19 17:22	08/06/19 12:22	1
1,1-Dichloroethene	<0.00068		0.0020	0.00068	mg/Kg	☼	08/02/19 17:22	08/06/19 12:22	1
1,2-Dichloropropane	<0.00051		0.0020	0.00051	mg/Kg	☼	08/02/19 17:22	08/06/19 12:22	1
1,3-Dichloropropane, Total	<0.00070		0.0020	0.00070	mg/Kg	☼	08/02/19 17:22	08/06/19 12:22	1
Ethylbenzene	<0.00095		0.0020	0.00095	mg/Kg	☼	08/02/19 17:22	08/06/19 12:22	1
2-Hexanone	<0.0015		0.0050	0.0015	mg/Kg	☼	08/02/19 17:22	08/06/19 12:22	1
Methylene Chloride	0.0038 J		0.0050	0.0020	mg/Kg	☼	08/02/19 17:22	08/06/19 12:22	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg	☼	08/02/19 17:22	08/06/19 12:22	1
Methyl tert-butyl ether	<0.00058		0.0020	0.00058	mg/Kg	☼	08/02/19 17:22	08/06/19 12:22	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg	☼	08/02/19 17:22	08/06/19 12:22	1
1,1,2,2-Tetrachloroethane	<0.00063		0.0020	0.00063	mg/Kg	☼	08/02/19 17:22	08/06/19 12:22	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg	☼	08/02/19 17:22	08/06/19 12:22	1
Toluene	<0.00050		0.0020	0.00050	mg/Kg	☼	08/02/19 17:22	08/06/19 12:22	1
trans-1,2-Dichloroethene	<0.00088		0.0020	0.00088	mg/Kg	☼	08/02/19 17:22	08/06/19 12:22	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg	☼	08/02/19 17:22	08/06/19 12:22	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg	☼	08/02/19 17:22	08/06/19 12:22	1
1,1,2-Trichloroethane	<0.00085		0.0020	0.00085	mg/Kg	☼	08/02/19 17:22	08/06/19 12:22	1
Trichloroethene	<0.00067		0.0020	0.00067	mg/Kg	☼	08/02/19 17:22	08/06/19 12:22	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg	☼	08/02/19 17:22	08/06/19 12:22	1
Vinyl chloride	<0.00088		0.0020	0.00088	mg/Kg	☼	08/02/19 17:22	08/06/19 12:22	1
Xylenes, Total	<0.00063		0.0040	0.00063	mg/Kg	☼	08/02/19 17:22	08/06/19 12:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		75 - 131	08/02/19 17:22	08/06/19 12:22	1
Dibromofluoromethane	71	X	75 - 126	08/02/19 17:22	08/06/19 12:22	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	08/02/19 17:22	08/06/19 12:22	1
Toluene-d8 (Surr)	94		75 - 124	08/02/19 17:22	08/06/19 12:22	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.013 J		0.034	0.0062	mg/Kg	☼	08/05/19 19:44	08/07/19 18:14	1
Acenaphthylene	0.013 J		0.034	0.0045	mg/Kg	☼	08/05/19 19:44	08/07/19 18:14	1
Anthracene	0.014 J		0.034	0.0057	mg/Kg	☼	08/05/19 19:44	08/07/19 18:14	1
Benzo[a]anthracene	0.069		0.034	0.0046	mg/Kg	☼	08/05/19 19:44	08/07/19 18:14	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167743-2

Client Sample ID: 2815V-1-B01 (0-3.5)

Lab Sample ID: 500-167743-9

Date Collected: 08/02/19 14:05

Matrix: Solid

Date Received: 08/02/19 16:15

Percent Solids: 93.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.092		0.034	0.0067	mg/Kg	☼	08/05/19 19:44	08/07/19 18:14	1
Benzo[b]fluoranthene	0.15		0.034	0.0074	mg/Kg	☼	08/05/19 19:44	08/07/19 18:14	1
Benzo[g,h,i]perylene	0.054		0.034	0.011	mg/Kg	☼	08/05/19 19:44	08/07/19 18:14	1
Benzo[k]fluoranthene	0.056		0.034	0.010	mg/Kg	☼	08/05/19 19:44	08/07/19 18:14	1
Bis(2-chloroethoxy)methane	<0.035		0.17	0.035	mg/Kg	☼	08/05/19 19:44	08/07/19 18:14	1
Bis(2-chloroethyl)ether	<0.052		0.17	0.052	mg/Kg	☼	08/05/19 19:44	08/07/19 18:14	1
Bis(2-ethylhexyl) phthalate	<0.063		0.17	0.063	mg/Kg	☼	08/05/19 19:44	08/07/19 18:14	1
4-Bromophenyl phenyl ether	<0.045		0.17	0.045	mg/Kg	☼	08/05/19 19:44	08/07/19 18:14	1
Butyl benzyl phthalate	<0.065		0.17	0.065	mg/Kg	☼	08/05/19 19:44	08/07/19 18:14	1
Carbazole	<0.086		0.17	0.086	mg/Kg	☼	08/05/19 19:44	08/07/19 18:14	1
4-Chloroaniline	<0.16		0.69	0.16	mg/Kg	☼	08/05/19 19:44	08/07/19 18:14	1
4-Chloro-3-methylphenol	<0.12		0.34	0.12	mg/Kg	☼	08/05/19 19:44	08/07/19 18:14	1
2-Chloronaphthalene	<0.038		0.17	0.038	mg/Kg	☼	08/05/19 19:44	08/07/19 18:14	1
2-Chlorophenol	<0.059		0.17	0.059	mg/Kg	☼	08/05/19 19:44	08/07/19 18:14	1
4-Chlorophenyl phenyl ether	<0.040		0.17	0.040	mg/Kg	☼	08/05/19 19:44	08/07/19 18:14	1
Chrysene	0.10		0.034	0.0094	mg/Kg	☼	08/05/19 19:44	08/07/19 18:14	1
Dibenz(a,h)anthracene	0.017 J		0.034	0.0066	mg/Kg	☼	08/05/19 19:44	08/07/19 18:14	1
Dibenzofuran	<0.040		0.17	0.040	mg/Kg	☼	08/05/19 19:44	08/07/19 18:14	1
1,2-Dichlorobenzene	<0.041		0.17	0.041	mg/Kg	☼	08/05/19 19:44	08/07/19 18:14	1
1,3-Dichlorobenzene	<0.039		0.17	0.039	mg/Kg	☼	08/05/19 19:44	08/07/19 18:14	1
1,4-Dichlorobenzene	<0.044		0.17	0.044	mg/Kg	☼	08/05/19 19:44	08/07/19 18:14	1
3,3'-Dichlorobenzidine	<0.048		0.17	0.048	mg/Kg	☼	08/05/19 19:44	08/07/19 18:14	1
2,4-Dichlorophenol	<0.082		0.34	0.082	mg/Kg	☼	08/05/19 19:44	08/07/19 18:14	1
Diethyl phthalate	<0.058		0.17	0.058	mg/Kg	☼	08/05/19 19:44	08/07/19 18:14	1
2,4-Dimethylphenol	<0.13		0.34	0.13	mg/Kg	☼	08/05/19 19:44	08/07/19 18:14	1
Dimethyl phthalate	<0.045		0.17	0.045	mg/Kg	☼	08/05/19 19:44	08/07/19 18:14	1
Di-n-butyl phthalate	<0.052		0.17	0.052	mg/Kg	☼	08/05/19 19:44	08/07/19 18:14	1
4,6-Dinitro-2-methylphenol	<0.28		0.69	0.28	mg/Kg	☼	08/05/19 19:44	08/07/19 18:14	1
2,4-Dinitrophenol	<0.61		0.69	0.61	mg/Kg	☼	08/05/19 19:44	08/07/19 18:14	1
2,4-Dinitrotoluene	<0.055		0.17	0.055	mg/Kg	☼	08/05/19 19:44	08/07/19 18:14	1
2,6-Dinitrotoluene	<0.068		0.17	0.068	mg/Kg	☼	08/05/19 19:44	08/07/19 18:14	1
Di-n-octyl phthalate	<0.056		0.17	0.056	mg/Kg	☼	08/05/19 19:44	08/07/19 18:14	1
Fluoranthene	0.11		0.034	0.0064	mg/Kg	☼	08/05/19 19:44	08/07/19 18:14	1
Fluorene	0.013 J		0.034	0.0048	mg/Kg	☼	08/05/19 19:44	08/07/19 18:14	1
Hexachlorobenzene	<0.0080		0.069	0.0080	mg/Kg	☼	08/05/19 19:44	08/07/19 18:14	1
Hexachlorobutadiene	<0.054		0.17	0.054	mg/Kg	☼	08/05/19 19:44	08/07/19 18:14	1
Hexachlorocyclopentadiene	<0.20		0.69	0.20	mg/Kg	☼	08/05/19 19:44	08/07/19 18:14	1
Hexachloroethane	<0.052		0.17	0.052	mg/Kg	☼	08/05/19 19:44	08/07/19 18:14	1
Indeno[1,2,3-cd]pyrene	0.040		0.034	0.0089	mg/Kg	☼	08/05/19 19:44	08/07/19 18:14	1
Isophorone	<0.039		0.17	0.039	mg/Kg	☼	08/05/19 19:44	08/07/19 18:14	1
2-Methylnaphthalene	0.031 J		0.069	0.0063	mg/Kg	☼	08/05/19 19:44	08/07/19 18:14	1
2-Methylphenol	<0.055		0.17	0.055	mg/Kg	☼	08/05/19 19:44	08/07/19 18:14	1
3 & 4 Methylphenol	<0.057		0.17	0.057	mg/Kg	☼	08/05/19 19:44	08/07/19 18:14	1
Naphthalene	0.010 J		0.034	0.0053	mg/Kg	☼	08/05/19 19:44	08/07/19 18:14	1
2-Nitroaniline	<0.046		0.17	0.046	mg/Kg	☼	08/05/19 19:44	08/07/19 18:14	1
3-Nitroaniline	<0.11		0.34	0.11	mg/Kg	☼	08/05/19 19:44	08/07/19 18:14	1
4-Nitroaniline	<0.14		0.34	0.14	mg/Kg	☼	08/05/19 19:44	08/07/19 18:14	1
Nitrobenzene	<0.0086		0.034	0.0086	mg/Kg	☼	08/05/19 19:44	08/07/19 18:14	1
2-Nitrophenol	<0.081		0.34	0.081	mg/Kg	☼	08/05/19 19:44	08/07/19 18:14	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167743-2

Client Sample ID: 2815V-1-B01 (0-3.5)

Lab Sample ID: 500-167743-9

Date Collected: 08/02/19 14:05

Matrix: Solid

Date Received: 08/02/19 16:15

Percent Solids: 93.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.33		0.69	0.33	mg/Kg	☼	08/05/19 19:44	08/07/19 18:14	1
N-Nitrosodi-n-propylamine	<0.042		0.069	0.042	mg/Kg	☼	08/05/19 19:44	08/07/19 18:14	1
N-Nitrosodiphenylamine	<0.041		0.17	0.041	mg/Kg	☼	08/05/19 19:44	08/07/19 18:14	1
2,2'-oxybis[1-chloropropane]	<0.040		0.17	0.040	mg/Kg	☼	08/05/19 19:44	08/07/19 18:14	1
Pentachlorophenol	<0.55		0.69	0.55	mg/Kg	☼	08/05/19 19:44	08/07/19 18:14	1
Phenanthrene	0.091		0.034	0.0048	mg/Kg	☼	08/05/19 19:44	08/07/19 18:14	1
Phenol	<0.076		0.17	0.076	mg/Kg	☼	08/05/19 19:44	08/07/19 18:14	1
Pyrene	0.25		0.034	0.0068	mg/Kg	☼	08/05/19 19:44	08/07/19 18:14	1
1,2,4-Trichlorobenzene	<0.037		0.17	0.037	mg/Kg	☼	08/05/19 19:44	08/07/19 18:14	1
2,4,5-Trichlorophenol	<0.078		0.34	0.078	mg/Kg	☼	08/05/19 19:44	08/07/19 18:14	1
2,4,6-Trichlorophenol	<0.12		0.34	0.12	mg/Kg	☼	08/05/19 19:44	08/07/19 18:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	88		43 - 145	08/05/19 19:44	08/07/19 18:14	1
2-Fluorophenol	91		31 - 166	08/05/19 19:44	08/07/19 18:14	1
Nitrobenzene-d5	64		37 - 147	08/05/19 19:44	08/07/19 18:14	1
Phenol-d5	82		30 - 153	08/05/19 19:44	08/07/19 18:14	1
Terphenyl-d14	180	X	42 - 157	08/05/19 19:44	08/07/19 18:14	1
2,4,6-Tribromophenol	62		31 - 143	08/05/19 19:44	08/07/19 18:14	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.32	J	1.0	0.20	mg/Kg	☼	08/05/19 07:50	08/05/19 18:33	1
Arsenic	2.0		0.50	0.17	mg/Kg	☼	08/05/19 07:50	08/05/19 18:33	1
Barium	24		0.50	0.057	mg/Kg	☼	08/05/19 07:50	08/05/19 18:33	1
Beryllium	0.15	J	0.20	0.047	mg/Kg	☼	08/05/19 07:50	08/07/19 11:37	1
Cadmium	0.18	B	0.10	0.018	mg/Kg	☼	08/05/19 07:50	08/05/19 18:33	1
Chromium	3.7		0.50	0.25	mg/Kg	☼	08/05/19 07:50	08/05/19 18:33	1
Cobalt	2.0		0.25	0.066	mg/Kg	☼	08/05/19 07:50	08/05/19 18:33	1
Copper	4.4		0.50	0.14	mg/Kg	☼	08/05/19 07:50	08/05/19 18:33	1
Iron	2800		10	5.2	mg/Kg	☼	08/05/19 07:50	08/05/19 18:33	1
Lead	8.1		0.25	0.12	mg/Kg	☼	08/05/19 07:50	08/05/19 18:33	1
Magnesium	120000		25	12	mg/Kg	☼	08/05/19 07:50	08/07/19 10:24	5
Calcium	180000	B	100	17	mg/Kg	☼	08/05/19 07:50	08/07/19 10:28	10
Manganese	140		0.50	0.073	mg/Kg	☼	08/05/19 07:50	08/05/19 18:33	1
Nickel	3.8		0.50	0.15	mg/Kg	☼	08/05/19 07:50	08/05/19 18:33	1
Selenium	<0.30		0.50	0.30	mg/Kg	☼	08/05/19 07:50	08/05/19 18:33	1
Silver	0.45		0.25	0.065	mg/Kg	☼	08/05/19 07:50	08/05/19 18:33	1
Thallium	<0.25		0.50	0.25	mg/Kg	☼	08/05/19 07:50	08/05/19 18:33	1
Vanadium	6.1		0.25	0.059	mg/Kg	☼	08/05/19 07:50	08/05/19 18:33	1
Zinc	15		1.0	0.44	mg/Kg	☼	08/05/19 07:50	08/06/19 13:56	1
Potassium	610		25	8.9	mg/Kg	☼	08/05/19 07:50	08/05/19 18:33	1
Sodium	760	B	50	7.4	mg/Kg	☼	08/05/19 07:50	08/05/19 18:33	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/07/19 09:01	08/07/19 18:53	1
Barium	0.38	J	0.50	0.050	mg/L		08/07/19 09:01	08/07/19 18:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/07/19 09:01	08/07/19 18:53	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/07/19 09:01	08/07/19 18:53	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167743-2

Client Sample ID: 2815V-1-B01 (0-3.5)

Lab Sample ID: 500-167743-9

Date Collected: 08/02/19 14:05

Matrix: Solid

Date Received: 08/02/19 16:15

Percent Solids: 93.5

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	440		5.0	0.50	mg/L		08/07/19 09:01	08/07/19 18:53	1
Chromium	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 18:53	1
Cobalt	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 18:53	1
Copper	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 18:53	1
Iron	<0.20		0.40	0.20	mg/L		08/07/19 09:01	08/07/19 18:53	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/07/19 09:01	08/07/19 18:53	1
Magnesium	110		2.5	0.50	mg/L		08/07/19 09:01	08/07/19 18:53	1
Manganese	0.87		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 18:53	1
Nickel	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 18:53	1
Potassium	7.0		2.5	0.50	mg/L		08/07/19 09:01	08/07/19 18:53	1
Selenium	<0.020		0.050	0.020	mg/L		08/07/19 09:01	08/07/19 18:53	1
Silver	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 18:53	1
Vanadium	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 18:53	1
Zinc	0.082	J	0.50	0.020	mg/L		08/07/19 09:01	08/07/19 18:53	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.010		0.025	0.010	mg/L		08/07/19 14:43	08/08/19 17:31	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/07/19 09:01	08/08/19 17:55	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/07/19 09:01	08/08/19 17:55	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/07/19 13:25	08/08/19 10:02	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg	☼	08/07/19 11:20	08/08/19 09:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.23		0.47	0.23	mg/Kg	☼	08/13/19 16:30	08/13/19 18:58	1
pH	8.9		0.2	0.2	SU			08/06/19 12:00	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167743-2

Client Sample ID: 2815V-1-B04 (0-3.5)

Lab Sample ID: 500-167743-10

Date Collected: 08/02/19 13:20

Matrix: Solid

Date Received: 08/02/19 16:15

Percent Solids: 87.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0081		0.019	0.0081	mg/Kg	☼	08/02/19 17:22	08/05/19 20:00	1
Benzene	<0.00048		0.0019	0.00048	mg/Kg	☼	08/02/19 17:22	08/05/19 20:00	1
Bromodichloromethane	<0.00038		0.0019	0.00038	mg/Kg	☼	08/02/19 17:22	08/05/19 20:00	1
Bromoform	<0.00055		0.0019	0.00055	mg/Kg	☼	08/02/19 17:22	08/05/19 20:00	1
Bromomethane	<0.0018		0.0047	0.0018	mg/Kg	☼	08/02/19 17:22	08/05/19 20:00	1
2-Butanone (MEK)	<0.0021		0.0047	0.0021	mg/Kg	☼	08/02/19 17:22	08/05/19 20:00	1
Carbon disulfide	<0.00097		0.0047	0.00097	mg/Kg	☼	08/02/19 17:22	08/05/19 20:00	1
Carbon tetrachloride	<0.00054		0.0019	0.00054	mg/Kg	☼	08/02/19 17:22	08/05/19 20:00	1
Chlorobenzene	<0.00069		0.0019	0.00069	mg/Kg	☼	08/02/19 17:22	08/05/19 20:00	1
Chloroethane	<0.0014		0.0047	0.0014	mg/Kg	☼	08/02/19 17:22	08/05/19 20:00	1
Chloroform	<0.00065		0.0019	0.00065	mg/Kg	☼	08/02/19 17:22	08/05/19 20:00	1
Chloromethane	<0.0019		0.0047	0.0019	mg/Kg	☼	08/02/19 17:22	08/05/19 20:00	1
cis-1,2-Dichloroethene	<0.00052		0.0019	0.00052	mg/Kg	☼	08/02/19 17:22	08/05/19 20:00	1
cis-1,3-Dichloropropene	<0.00056		0.0019	0.00056	mg/Kg	☼	08/02/19 17:22	08/05/19 20:00	1
Dibromochloromethane	<0.00061		0.0019	0.00061	mg/Kg	☼	08/02/19 17:22	08/05/19 20:00	1
1,1-Dichloroethane	<0.00064		0.0019	0.00064	mg/Kg	☼	08/02/19 17:22	08/05/19 20:00	1
1,2-Dichloroethane	<0.0015		0.0047	0.0015	mg/Kg	☼	08/02/19 17:22	08/05/19 20:00	1
1,1-Dichloroethene	<0.00064		0.0019	0.00064	mg/Kg	☼	08/02/19 17:22	08/05/19 20:00	1
1,2-Dichloropropene	<0.00048		0.0019	0.00048	mg/Kg	☼	08/02/19 17:22	08/05/19 20:00	1
1,3-Dichloropropene, Total	<0.00066		0.0019	0.00066	mg/Kg	☼	08/02/19 17:22	08/05/19 20:00	1
Ethylbenzene	<0.00089		0.0019	0.00089	mg/Kg	☼	08/02/19 17:22	08/05/19 20:00	1
2-Hexanone	<0.0015		0.0047	0.0015	mg/Kg	☼	08/02/19 17:22	08/05/19 20:00	1
Methylene Chloride	0.0046	J *	0.0047	0.0018	mg/Kg	☼	08/02/19 17:22	08/05/19 20:00	1
4-Methyl-2-pentanone (MIBK)	<0.0014		0.0047	0.0014	mg/Kg	☼	08/02/19 17:22	08/05/19 20:00	1
Methyl tert-butyl ether	<0.00055		0.0019	0.00055	mg/Kg	☼	08/02/19 17:22	08/05/19 20:00	1
Styrene	<0.00056		0.0019	0.00056	mg/Kg	☼	08/02/19 17:22	08/05/19 20:00	1
1,1,2,2-Tetrachloroethane	<0.00060		0.0019	0.00060	mg/Kg	☼	08/02/19 17:22	08/05/19 20:00	1
Tetrachloroethene	<0.00064		0.0019	0.00064	mg/Kg	☼	08/02/19 17:22	08/05/19 20:00	1
Toluene	<0.00047		0.0019	0.00047	mg/Kg	☼	08/02/19 17:22	08/05/19 20:00	1
trans-1,2-Dichloroethene	<0.00083		0.0019	0.00083	mg/Kg	☼	08/02/19 17:22	08/05/19 20:00	1
trans-1,3-Dichloropropene	<0.00066		0.0019	0.00066	mg/Kg	☼	08/02/19 17:22	08/05/19 20:00	1
1,1,1-Trichloroethane	<0.00063		0.0019	0.00063	mg/Kg	☼	08/02/19 17:22	08/05/19 20:00	1
1,1,2-Trichloroethane	<0.00080		0.0019	0.00080	mg/Kg	☼	08/02/19 17:22	08/05/19 20:00	1
Trichloroethene	<0.00063		0.0019	0.00063	mg/Kg	☼	08/02/19 17:22	08/05/19 20:00	1
Vinyl acetate	<0.0016		0.0047	0.0016	mg/Kg	☼	08/02/19 17:22	08/05/19 20:00	1
Vinyl chloride	<0.00083	*	0.0019	0.00083	mg/Kg	☼	08/02/19 17:22	08/05/19 20:00	1
Xylenes, Total	<0.00060		0.0037	0.00060	mg/Kg	☼	08/02/19 17:22	08/05/19 20:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		75 - 131	08/02/19 17:22	08/05/19 20:00	1
Dibromofluoromethane	110		75 - 126	08/02/19 17:22	08/05/19 20:00	1
1,2-Dichloroethane-d4 (Surr)	112		70 - 134	08/02/19 17:22	08/05/19 20:00	1
Toluene-d8 (Surr)	98		75 - 124	08/02/19 17:22	08/05/19 20:00	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0067		0.037	0.0067	mg/Kg	☼	08/05/19 19:44	08/06/19 11:44	1
Acenaphthylene	0.0080	J	0.037	0.0049	mg/Kg	☼	08/05/19 19:44	08/06/19 11:44	1
Anthracene	0.011	J	0.037	0.0062	mg/Kg	☼	08/05/19 19:44	08/06/19 11:44	1
Benzo[a]anthracene	0.077		0.037	0.0050	mg/Kg	☼	08/05/19 19:44	08/06/19 11:44	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167743-2

Client Sample ID: 2815V-1-B04 (0-3.5)

Lab Sample ID: 500-167743-10

Date Collected: 08/02/19 13:20

Matrix: Solid

Date Received: 08/02/19 16:15

Percent Solids: 87.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.087		0.037	0.0072	mg/Kg	☼	08/05/19 19:44	08/06/19 11:44	1
Benzo[b]fluoranthene	0.11		0.037	0.0080	mg/Kg	☼	08/05/19 19:44	08/06/19 11:44	1
Benzo[g,h,i]perylene	0.073		0.037	0.012	mg/Kg	☼	08/05/19 19:44	08/06/19 11:44	1
Benzo[k]fluoranthene	0.053		0.037	0.011	mg/Kg	☼	08/05/19 19:44	08/06/19 11:44	1
Bis(2-chloroethoxy)methane	<0.038		0.19	0.038	mg/Kg	☼	08/05/19 19:44	08/06/19 11:44	1
Bis(2-chloroethyl)ether	<0.056		0.19	0.056	mg/Kg	☼	08/05/19 19:44	08/06/19 11:44	1
Bis(2-ethylhexyl) phthalate	<0.068		0.19	0.068	mg/Kg	☼	08/05/19 19:44	08/06/19 11:44	1
4-Bromophenyl phenyl ether	<0.049		0.19	0.049	mg/Kg	☼	08/05/19 19:44	08/06/19 11:44	1
Butyl benzyl phthalate	<0.070		0.19	0.070	mg/Kg	☼	08/05/19 19:44	08/06/19 11:44	1
Carbazole	<0.093		0.19	0.093	mg/Kg	☼	08/05/19 19:44	08/06/19 11:44	1
4-Chloroaniline	<0.17		0.75	0.17	mg/Kg	☼	08/05/19 19:44	08/06/19 11:44	1
4-Chloro-3-methylphenol	<0.13		0.37	0.13	mg/Kg	☼	08/05/19 19:44	08/06/19 11:44	1
2-Chloronaphthalene	<0.041		0.19	0.041	mg/Kg	☼	08/05/19 19:44	08/06/19 11:44	1
2-Chlorophenol	<0.063		0.19	0.063	mg/Kg	☼	08/05/19 19:44	08/06/19 11:44	1
4-Chlorophenyl phenyl ether	<0.043		0.19	0.043	mg/Kg	☼	08/05/19 19:44	08/06/19 11:44	1
Chrysene	0.10		0.037	0.010	mg/Kg	☼	08/05/19 19:44	08/06/19 11:44	1
Dibenz(a,h)anthracene	0.015 J		0.037	0.0072	mg/Kg	☼	08/05/19 19:44	08/06/19 11:44	1
Dibenzofuran	<0.043		0.19	0.043	mg/Kg	☼	08/05/19 19:44	08/06/19 11:44	1
1,2-Dichlorobenzene	<0.044		0.19	0.044	mg/Kg	☼	08/05/19 19:44	08/06/19 11:44	1
1,3-Dichlorobenzene	<0.042		0.19	0.042	mg/Kg	☼	08/05/19 19:44	08/06/19 11:44	1
1,4-Dichlorobenzene	<0.047		0.19	0.047	mg/Kg	☼	08/05/19 19:44	08/06/19 11:44	1
3,3'-Dichlorobenzidine	<0.052		0.19	0.052	mg/Kg	☼	08/05/19 19:44	08/06/19 11:44	1
2,4-Dichlorophenol	<0.088		0.37	0.088	mg/Kg	☼	08/05/19 19:44	08/06/19 11:44	1
Diethyl phthalate	<0.063		0.19	0.063	mg/Kg	☼	08/05/19 19:44	08/06/19 11:44	1
2,4-Dimethylphenol	<0.14		0.37	0.14	mg/Kg	☼	08/05/19 19:44	08/06/19 11:44	1
Dimethyl phthalate	<0.048		0.19	0.048	mg/Kg	☼	08/05/19 19:44	08/06/19 11:44	1
Di-n-butyl phthalate	<0.056		0.19	0.056	mg/Kg	☼	08/05/19 19:44	08/06/19 11:44	1
4,6-Dinitro-2-methylphenol	<0.30		0.75	0.30	mg/Kg	☼	08/05/19 19:44	08/06/19 11:44	1
2,4-Dinitrophenol	<0.65		0.75	0.65	mg/Kg	☼	08/05/19 19:44	08/06/19 11:44	1
2,4-Dinitrotoluene	<0.059		0.19	0.059	mg/Kg	☼	08/05/19 19:44	08/06/19 11:44	1
2,6-Dinitrotoluene	<0.073		0.19	0.073	mg/Kg	☼	08/05/19 19:44	08/06/19 11:44	1
Di-n-octyl phthalate	<0.060		0.19	0.060	mg/Kg	☼	08/05/19 19:44	08/06/19 11:44	1
Fluoranthene	0.14		0.037	0.0069	mg/Kg	☼	08/05/19 19:44	08/06/19 11:44	1
Fluorene	<0.0052		0.037	0.0052	mg/Kg	☼	08/05/19 19:44	08/06/19 11:44	1
Hexachlorobenzene	<0.0086		0.075	0.0086	mg/Kg	☼	08/05/19 19:44	08/06/19 11:44	1
Hexachlorobutadiene	<0.058		0.19	0.058	mg/Kg	☼	08/05/19 19:44	08/06/19 11:44	1
Hexachlorocyclopentadiene	<0.21		0.75	0.21	mg/Kg	☼	08/05/19 19:44	08/06/19 11:44	1
Hexachloroethane	<0.056		0.19	0.056	mg/Kg	☼	08/05/19 19:44	08/06/19 11:44	1
Indeno[1,2,3-cd]pyrene	0.061		0.037	0.0096	mg/Kg	☼	08/05/19 19:44	08/06/19 11:44	1
Isophorone	<0.042		0.19	0.042	mg/Kg	☼	08/05/19 19:44	08/06/19 11:44	1
2-Methylnaphthalene	<0.0068		0.075	0.0068	mg/Kg	☼	08/05/19 19:44	08/06/19 11:44	1
2-Methylphenol	<0.059		0.19	0.059	mg/Kg	☼	08/05/19 19:44	08/06/19 11:44	1
3 & 4 Methylphenol	<0.062		0.19	0.062	mg/Kg	☼	08/05/19 19:44	08/06/19 11:44	1
Naphthalene	<0.0057		0.037	0.0057	mg/Kg	☼	08/05/19 19:44	08/06/19 11:44	1
2-Nitroaniline	<0.050		0.19	0.050	mg/Kg	☼	08/05/19 19:44	08/06/19 11:44	1
3-Nitroaniline	<0.11		0.37	0.11	mg/Kg	☼	08/05/19 19:44	08/06/19 11:44	1
4-Nitroaniline	<0.15		0.37	0.15	mg/Kg	☼	08/05/19 19:44	08/06/19 11:44	1
Nitrobenzene	<0.0092		0.037	0.0092	mg/Kg	☼	08/05/19 19:44	08/06/19 11:44	1
2-Nitrophenol	<0.088		0.37	0.088	mg/Kg	☼	08/05/19 19:44	08/06/19 11:44	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167743-2

Client Sample ID: 2815V-1-B04 (0-3.5)

Lab Sample ID: 500-167743-10

Date Collected: 08/02/19 13:20

Matrix: Solid

Date Received: 08/02/19 16:15

Percent Solids: 87.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.35		0.75	0.35	mg/Kg	☼	08/05/19 19:44	08/06/19 11:44	1
N-Nitrosodi-n-propylamine	<0.045		0.075	0.045	mg/Kg	☼	08/05/19 19:44	08/06/19 11:44	1
N-Nitrosodiphenylamine	<0.044		0.19	0.044	mg/Kg	☼	08/05/19 19:44	08/06/19 11:44	1
2,2'-oxybis[1-chloropropane]	<0.043		0.19	0.043	mg/Kg	☼	08/05/19 19:44	08/06/19 11:44	1
Pentachlorophenol	<0.59		0.75	0.59	mg/Kg	☼	08/05/19 19:44	08/06/19 11:44	1
Phenanthrene	0.056		0.037	0.0052	mg/Kg	☼	08/05/19 19:44	08/06/19 11:44	1
Phenol	<0.082		0.19	0.082	mg/Kg	☼	08/05/19 19:44	08/06/19 11:44	1
Pyrene	0.12		0.037	0.0074	mg/Kg	☼	08/05/19 19:44	08/06/19 11:44	1
1,2,4-Trichlorobenzene	<0.040		0.19	0.040	mg/Kg	☼	08/05/19 19:44	08/06/19 11:44	1
2,4,5-Trichlorophenol	<0.085		0.37	0.085	mg/Kg	☼	08/05/19 19:44	08/06/19 11:44	1
2,4,6-Trichlorophenol	<0.13		0.37	0.13	mg/Kg	☼	08/05/19 19:44	08/06/19 11:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	90		43 - 145	08/05/19 19:44	08/06/19 11:44	1
2-Fluorophenol	81		31 - 166	08/05/19 19:44	08/06/19 11:44	1
Nitrobenzene-d5	75		37 - 147	08/05/19 19:44	08/06/19 11:44	1
Phenol-d5	74		30 - 153	08/05/19 19:44	08/06/19 11:44	1
Terphenyl-d14	107		42 - 157	08/05/19 19:44	08/06/19 11:44	1
2,4,6-Tribromophenol	121		31 - 143	08/05/19 19:44	08/06/19 11:44	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.21		1.1	0.21	mg/Kg	☼	08/05/19 07:50	08/05/19 18:37	1
Arsenic	8.6		0.54	0.18	mg/Kg	☼	08/05/19 07:50	08/05/19 18:37	1
Barium	79		0.54	0.061	mg/Kg	☼	08/05/19 07:50	08/05/19 18:37	1
Beryllium	0.54		0.21	0.050	mg/Kg	☼	08/05/19 07:50	08/07/19 11:41	1
Cadmium	0.37	B	0.11	0.019	mg/Kg	☼	08/05/19 07:50	08/05/19 18:37	1
Chromium	13		0.54	0.27	mg/Kg	☼	08/05/19 07:50	08/05/19 18:37	1
Cobalt	11		0.27	0.070	mg/Kg	☼	08/05/19 07:50	08/05/19 18:37	1
Copper	20		0.54	0.15	mg/Kg	☼	08/05/19 07:50	08/05/19 18:37	1
Iron	16000		11	5.6	mg/Kg	☼	08/05/19 07:50	08/05/19 18:37	1
Lead	48		0.27	0.12	mg/Kg	☼	08/05/19 07:50	08/05/19 18:37	1
Magnesium	5900		5.4	2.7	mg/Kg	☼	08/05/19 07:50	08/05/19 18:37	1
Calcium	9100	B	11	1.8	mg/Kg	☼	08/05/19 07:50	08/05/19 18:37	1
Manganese	540		0.54	0.078	mg/Kg	☼	08/05/19 07:50	08/05/19 18:37	1
Nickel	22		0.54	0.16	mg/Kg	☼	08/05/19 07:50	08/05/19 18:37	1
Selenium	0.80		0.54	0.32	mg/Kg	☼	08/05/19 07:50	08/05/19 18:37	1
Silver	2.8		0.27	0.069	mg/Kg	☼	08/05/19 07:50	08/05/19 18:37	1
Thallium	0.74		0.54	0.27	mg/Kg	☼	08/05/19 07:50	08/05/19 18:37	1
Vanadium	22		0.27	0.063	mg/Kg	☼	08/05/19 07:50	08/05/19 18:37	1
Zinc	72		1.1	0.47	mg/Kg	☼	08/05/19 07:50	08/06/19 14:04	1
Potassium	1400		27	9.5	mg/Kg	☼	08/05/19 07:50	08/05/19 18:37	1
Sodium	68	B	54	7.9	mg/Kg	☼	08/05/19 07:50	08/05/19 18:37	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/07/19 09:01	08/07/19 18:57	1
Barium	0.42	J	0.50	0.050	mg/L		08/07/19 09:01	08/07/19 18:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/07/19 09:01	08/07/19 18:57	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/07/19 09:01	08/07/19 18:57	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167743-2

Client Sample ID: 2815V-1-B04 (0-3.5)

Lab Sample ID: 500-167743-10

Date Collected: 08/02/19 13:20

Matrix: Solid

Date Received: 08/02/19 16:15

Percent Solids: 87.2

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	260		5.0	0.50	mg/L		08/07/19 09:01	08/07/19 18:57	1
Chromium	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 18:57	1
Cobalt	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 18:57	1
Copper	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 18:57	1
Iron	<0.20		0.40	0.20	mg/L		08/07/19 09:01	08/07/19 18:57	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/07/19 09:01	08/07/19 18:57	1
Magnesium	120		2.5	0.50	mg/L		08/07/19 09:01	08/07/19 18:57	1
Manganese	0.12		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 18:57	1
Nickel	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 18:57	1
Potassium	1.1 J		2.5	0.50	mg/L		08/07/19 09:01	08/07/19 18:57	1
Selenium	<0.020		0.050	0.020	mg/L		08/07/19 09:01	08/07/19 18:57	1
Silver	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 18:57	1
Vanadium	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 18:57	1
Zinc	0.30 J		0.50	0.020	mg/L		08/07/19 09:01	08/07/19 18:57	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/07/19 09:01	08/08/19 17:59	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/07/19 09:01	08/08/19 17:59	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/07/19 13:25	08/08/19 10:03	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.017	0.0057	mg/Kg	☼	08/07/19 11:20	08/08/19 09:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.28		0.56	0.28	mg/Kg	☼	08/13/19 16:30	08/13/19 18:58	1
pH	8.0		0.2	0.2	SU			08/06/19 12:04	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - McCook - WO 061

Job ID: 500-167743-2

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - McCook - WO 061

Job ID: 500-167743-2

Laboratory: Eurofins TestAmerica, Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
Illinois	NELAP	5	100201	04-30-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
7470A	7470A	Solid	Mercury
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
 Contact: Matt Weiss @ Terracon.com
 Company: Terracon
 Address: 192 Exchange Blvd
Glendale Heights IL
 Phone: 630-445-0160
 Fax:
 E-Mail: Matt.Weiss@Terracon.com

Bill To (optional)
 Contact: Matt Weiss
 Company: Terracon
 Address: 192 Exchange Blvd
 Phone: 630-445-0160
 Fax:
 PO#/Reference#

Chain of Custody Record

Lab Job #: 500-167743
 Chain of Custody Number: _____
 Page 1 of 1
 Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter		Matrix		Comments			
IDOT		1197084F											
Project Name		Lab Project #											
1197084F													
Project Location/State		Lab Project #											
McCook, IL													
Sampler		Lab PM											
Juan Rables													
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOC's	SVOC's	Total 23 Inorganics	PH	TUP 23 Inorganics	SPUP 23 Inorganics	Preservative Key
			Date	Time									
9		2815V-1-B01 (0-3.5)	8/2/19	1405	5	S	X	X	X	X	X		
10		2815V-1-B04 (0-3.5)	8/2/19	1320	5	S	X	X	X	X	X		

- Preservative Key
1. HCL, Cool to 4°
 2. H2SO4, Cool to 4°
 3. HNO3, Cool to 4°
 4. NaOH, Cool to 4°
 5. NaOH/Zn, Cool to 4°
 6. NaHSO4
 7. Cool to 4°
 8. None
 9. Other

Turnaround Time Required (Business Days)
 ___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days 10 Days ___ 15 Days ___ Other
 Requested Due Date _____

Sample Disposal
 Return to Client Disposal by Lab Archive for ___ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>[Signature]</u> Company: <u>Terracon</u> Date: <u>8/2/19</u> Time: <u>1515</u>	Received By <u>[Signature]</u> Company: <u>Terracon</u> Date: <u>8/2/19</u> Time: <u>1515</u>
Relinquished By <u>[Signature]</u> Company: <u>Terracon</u> Date: <u>8/2/19</u> Time: <u>1605</u>	Received By <u>[Signature]</u> Company: <u>Terracon</u> Date: <u>8/2/19</u> Time: <u>1615</u>

Lab Courier: TD
 Shipped: _____
 Hand Delivered: _____

- Matrix Key
- WW - Wastewater
 - W - Water
 - S - Soil
 - SL - Sludge
 - MS - Miscellaneous
 - OL - Oil
 - A - Air
 - SE - Sediment
 - SO - Soil
 - L - Leachate
 - WI - Wipe
 - DW - Drinking Water
 - O - Other

Client Comments

* Note NO Aluminum
 * Note hold SPUP 23 Inorganics
 Per Terracon Instructions

Lab Comments:

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-167743-2

Login Number: 167743

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	Received same day of collection; chilling process has begun.
Cooler Temperature is recorded.	True	6.3,6.1,8.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-167744-2
Client Project/Site: IDOT - McCook - WO 061

For:

Terracon Consulting Eng & Scientists
192 Exchange Blvd
Glendale Heights, Illinois 60139

Attn: Mr. Matthew Weiss

Jodie Bracken

Authorized for release by:
8/15/2019 4:38:10 PM

Jodie Bracken, Project Management Assistant II
jodie.bracken@testamericainc.com

Designee for

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

LINKS

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results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - McCook - WO 061

Job ID: 500-167744-2

Job ID: 500-167744-2

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-167744-2

Receipt

The samples were received on 8/2/2019 4:05 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 6.1° C, 6.3° C and 8.4° C.

GC/MS VOA

The laboratory control sample duplicate (LCSD) for 498104 recovered outside control limits for the following analyte: Chloroethane. This analyte was biased high in the LCSD and was not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method(s) 8270D: The laboratory control sample (LCS) for preparation batch 500-498306 and analytical batch 500-498404 recovered outside control limits for the following analytes: 4-Nitrophenol, Anthracene, Diethyl phthalate, Di-n-butyl phthalate, Hexachlorobenzene, 2,4-Dinitrotoluene, 2-Chlorophenol, Dibenzofuran and Hexachlorobutadiene. These analytes were biased high in the LCS and were not detected above the reporting limit in the associated samples; therefore, the data have been reported.

Method(s) 8270D: The following sample contained one acid surrogate outside acceptance limits: (LCS 500-498306/2-A). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167744-2

Client Sample ID: 2815V-1-B02 (0-4)

Lab Sample ID: 500-167744-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.0030	J	0.0046	0.0018	mg/Kg	1	☼	8260B	Total/NA
Benzo[a]anthracene	0.023	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.031	J	0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.035	J	0.038	0.0082	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.021	J	0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.027	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.033	J	0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.021	J	0.038	0.0099	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.016	J	0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.033	J	0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Arsenic	12	F1	0.56	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	74		0.56	0.064	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.65		0.23	0.053	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.20	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	18		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.8		0.28	0.074	mg/Kg	1	☼	6010B	Total/NA
Copper	9.1		0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	24000		11	5.9	mg/Kg	1	☼	6010B	Total/NA
Lead	29	F2	0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	3700	F2	5.6	2.8	mg/Kg	1	☼	6010B	Total/NA
Calcium	4300	F2 B	11	1.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	220		0.56	0.082	mg/Kg	1	☼	6010B	Total/NA
Nickel	15		0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.82	F1	0.56	0.33	mg/Kg	1	☼	6010B	Total/NA
Silver	3.1		0.28	0.073	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.95		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	30		0.28	0.067	mg/Kg	1	☼	6010B	Total/NA
Zinc	71		1.1	0.50	mg/Kg	1	☼	6010B	Total/NA
Potassium	1100	F1	28	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	130	F1 B	56	8.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.35	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	120		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	59		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.053		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.88	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.21	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.017	J	0.018	0.0061	mg/Kg	1	☼	7471B	Total/NA
pH	8.2		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2815V-1-B03 (0-3.5)

Lab Sample ID: 500-167744-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.41	J	1.1	0.20	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.0		0.53	0.18	mg/Kg	1	☼	6010B	Total/NA
Barium	6.6		0.53	0.060	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.078	J	0.21	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.14	B	0.11	0.019	mg/Kg	1	☼	6010B	Total/NA
Chromium	2.2		0.53	0.26	mg/Kg	1	☼	6010B	Total/NA
Cobalt	1.9		0.26	0.069	mg/Kg	1	☼	6010B	Total/NA
Copper	1.1		0.53	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	2700		11	5.5	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167744-2

Client Sample ID: 2815V-1-B03 (0-3.5) (Continued)

Lab Sample ID: 500-167744-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	3.6		0.26	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	120000		26	13	mg/Kg	5	☼	6010B	Total/NA
Calcium	190000	B	110	18	mg/Kg	10	☼	6010B	Total/NA
Manganese	100		0.53	0.076	mg/Kg	1	☼	6010B	Total/NA
Nickel	2.9		0.53	0.15	mg/Kg	1	☼	6010B	Total/NA
Silver	0.50		0.26	0.068	mg/Kg	1	☼	6010B	Total/NA
Vanadium	2.9		0.26	0.062	mg/Kg	1	☼	6010B	Total/NA
Zinc	5.0		1.1	0.46	mg/Kg	1	☼	6010B	Total/NA
Potassium	440		26	9.3	mg/Kg	1	☼	6010B	Total/NA
Sodium	150	B	53	7.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.081	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	340		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	200		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.090		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.5	J F1	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.022	J	0.50	0.020	mg/L	1		6010B	TCLP
pH	8.8		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago



Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - McCook - WO 061

Job ID: 500-167744-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-167744-8	2815V-1-B02 (0-4)	Solid	08/02/19 14:00	08/02/19 16:05	
500-167744-9	2815V-1-B03 (0-3.5)	Solid	08/02/19 13:20	08/02/19 16:05	

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - McCook - WO 061

Job ID: 500-167744-2

Client Sample ID: 2815V-1-B02 (0-4)

Lab Sample ID: 500-167744-8

Date Collected: 08/02/19 14:00

Matrix: Solid

Date Received: 08/02/19 16:05

Percent Solids: 86.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0081		0.019	0.0081	mg/Kg	☼	08/02/19 17:22	08/05/19 19:03	1
Benzene	<0.00047		0.0019	0.00047	mg/Kg	☼	08/02/19 17:22	08/05/19 19:03	1
Bromodichloromethane	<0.00038		0.0019	0.00038	mg/Kg	☼	08/02/19 17:22	08/05/19 19:03	1
Bromoform	<0.00054		0.0019	0.00054	mg/Kg	☼	08/02/19 17:22	08/05/19 19:03	1
Bromomethane	<0.0017		0.0046	0.0017	mg/Kg	☼	08/02/19 17:22	08/05/19 19:03	1
2-Butanone (MEK)	<0.0021		0.0046	0.0021	mg/Kg	☼	08/02/19 17:22	08/05/19 19:03	1
Carbon disulfide	<0.00096		0.0046	0.00096	mg/Kg	☼	08/02/19 17:22	08/05/19 19:03	1
Carbon tetrachloride	<0.00054		0.0019	0.00054	mg/Kg	☼	08/02/19 17:22	08/05/19 19:03	1
Chlorobenzene	<0.00068		0.0019	0.00068	mg/Kg	☼	08/02/19 17:22	08/05/19 19:03	1
Chloroethane	<0.0014 *		0.0046	0.0014	mg/Kg	☼	08/02/19 17:22	08/05/19 19:03	1
Chloroform	<0.00064		0.0019	0.00064	mg/Kg	☼	08/02/19 17:22	08/05/19 19:03	1
Chloromethane	<0.0019		0.0046	0.0019	mg/Kg	☼	08/02/19 17:22	08/05/19 19:03	1
cis-1,2-Dichloroethene	<0.00052		0.0019	0.00052	mg/Kg	☼	08/02/19 17:22	08/05/19 19:03	1
cis-1,3-Dichloropropene	<0.00056		0.0019	0.00056	mg/Kg	☼	08/02/19 17:22	08/05/19 19:03	1
Dibromochloromethane	<0.00061		0.0019	0.00061	mg/Kg	☼	08/02/19 17:22	08/05/19 19:03	1
1,1-Dichloroethane	<0.00063		0.0019	0.00063	mg/Kg	☼	08/02/19 17:22	08/05/19 19:03	1
1,2-Dichloroethane	<0.0014		0.0046	0.0014	mg/Kg	☼	08/02/19 17:22	08/05/19 19:03	1
1,1-Dichloroethene	<0.00064		0.0019	0.00064	mg/Kg	☼	08/02/19 17:22	08/05/19 19:03	1
1,2-Dichloropropene	<0.00048		0.0019	0.00048	mg/Kg	☼	08/02/19 17:22	08/05/19 19:03	1
1,3-Dichloropropene, Total	<0.00065		0.0019	0.00065	mg/Kg	☼	08/02/19 17:22	08/05/19 19:03	1
Ethylbenzene	<0.00089		0.0019	0.00089	mg/Kg	☼	08/02/19 17:22	08/05/19 19:03	1
2-Hexanone	<0.0014		0.0046	0.0014	mg/Kg	☼	08/02/19 17:22	08/05/19 19:03	1
Methylene Chloride	0.0030 J		0.0046	0.0018	mg/Kg	☼	08/02/19 17:22	08/05/19 19:03	1
4-Methyl-2-pentanone (MIBK)	<0.0014		0.0046	0.0014	mg/Kg	☼	08/02/19 17:22	08/05/19 19:03	1
Methyl tert-butyl ether	<0.00054		0.0019	0.00054	mg/Kg	☼	08/02/19 17:22	08/05/19 19:03	1
Styrene	<0.00056		0.0019	0.00056	mg/Kg	☼	08/02/19 17:22	08/05/19 19:03	1
1,1,2,2-Tetrachloroethane	<0.00059		0.0019	0.00059	mg/Kg	☼	08/02/19 17:22	08/05/19 19:03	1
Tetrachloroethene	<0.00063		0.0019	0.00063	mg/Kg	☼	08/02/19 17:22	08/05/19 19:03	1
Toluene	<0.00047		0.0019	0.00047	mg/Kg	☼	08/02/19 17:22	08/05/19 19:03	1
trans-1,2-Dichloroethene	<0.00082		0.0019	0.00082	mg/Kg	☼	08/02/19 17:22	08/05/19 19:03	1
trans-1,3-Dichloropropene	<0.00065		0.0019	0.00065	mg/Kg	☼	08/02/19 17:22	08/05/19 19:03	1
1,1,1-Trichloroethane	<0.00062		0.0019	0.00062	mg/Kg	☼	08/02/19 17:22	08/05/19 19:03	1
1,1,2-Trichloroethane	<0.00079		0.0019	0.00079	mg/Kg	☼	08/02/19 17:22	08/05/19 19:03	1
Trichloroethene	<0.00063		0.0019	0.00063	mg/Kg	☼	08/02/19 17:22	08/05/19 19:03	1
Vinyl acetate	<0.0016		0.0046	0.0016	mg/Kg	☼	08/02/19 17:22	08/05/19 19:03	1
Vinyl chloride	<0.00082		0.0019	0.00082	mg/Kg	☼	08/02/19 17:22	08/05/19 19:03	1
Xylenes, Total	<0.00059		0.0037	0.00059	mg/Kg	☼	08/02/19 17:22	08/05/19 19:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		75 - 131	08/02/19 17:22	08/05/19 19:03	1
Dibromofluoromethane	98		75 - 126	08/02/19 17:22	08/05/19 19:03	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	08/02/19 17:22	08/05/19 19:03	1
Toluene-d8 (Surr)	92		75 - 124	08/02/19 17:22	08/05/19 19:03	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0069		0.038	0.0069	mg/Kg	☼	08/06/19 07:56	08/06/19 17:36	1
Acenaphthylene	<0.0050		0.038	0.0050	mg/Kg	☼	08/06/19 07:56	08/06/19 17:36	1
Anthracene	<0.0064 *		0.038	0.0064	mg/Kg	☼	08/06/19 07:56	08/06/19 17:36	1
Benzo[a]anthracene	0.023 J		0.038	0.0051	mg/Kg	☼	08/06/19 07:56	08/06/19 17:36	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167744-2

Client Sample ID: 2815V-1-B02 (0-4)

Lab Sample ID: 500-167744-8

Date Collected: 08/02/19 14:00

Matrix: Solid

Date Received: 08/02/19 16:05

Percent Solids: 86.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.031	J	0.038	0.0074	mg/Kg	☼	08/06/19 07:56	08/06/19 17:36	1
Benzo[b]fluoranthene	0.035	J	0.038	0.0082	mg/Kg	☼	08/06/19 07:56	08/06/19 17:36	1
Benzo[g,h,i]perylene	0.021	J	0.038	0.012	mg/Kg	☼	08/06/19 07:56	08/06/19 17:36	1
Benzo[k]fluoranthene	<0.011		0.038	0.011	mg/Kg	☼	08/06/19 07:56	08/06/19 17:36	1
Bis(2-chloroethoxy)methane	<0.039		0.19	0.039	mg/Kg	☼	08/06/19 07:56	08/06/19 17:36	1
Bis(2-chloroethyl)ether	<0.057		0.19	0.057	mg/Kg	☼	08/06/19 07:56	08/06/19 17:36	1
Bis(2-ethylhexyl) phthalate	<0.070		0.19	0.070	mg/Kg	☼	08/06/19 07:56	08/06/19 17:36	1
4-Bromophenyl phenyl ether	<0.050		0.19	0.050	mg/Kg	☼	08/06/19 07:56	08/06/19 17:36	1
Butyl benzyl phthalate	<0.073		0.19	0.073	mg/Kg	☼	08/06/19 07:56	08/06/19 17:36	1
Carbazole	<0.095		0.19	0.095	mg/Kg	☼	08/06/19 07:56	08/06/19 17:36	1
4-Chloroaniline	<0.18		0.77	0.18	mg/Kg	☼	08/06/19 07:56	08/06/19 17:36	1
4-Chloro-3-methylphenol	<0.13		0.38	0.13	mg/Kg	☼	08/06/19 07:56	08/06/19 17:36	1
2-Chloronaphthalene	<0.042		0.19	0.042	mg/Kg	☼	08/06/19 07:56	08/06/19 17:36	1
2-Chlorophenol	<0.065	*	0.19	0.065	mg/Kg	☼	08/06/19 07:56	08/06/19 17:36	1
4-Chlorophenyl phenyl ether	<0.045		0.19	0.045	mg/Kg	☼	08/06/19 07:56	08/06/19 17:36	1
Chrysene	0.027	J	0.038	0.010	mg/Kg	☼	08/06/19 07:56	08/06/19 17:36	1
Dibenz(a,h)anthracene	<0.0074		0.038	0.0074	mg/Kg	☼	08/06/19 07:56	08/06/19 17:36	1
Dibenzofuran	<0.045	*	0.19	0.045	mg/Kg	☼	08/06/19 07:56	08/06/19 17:36	1
1,2-Dichlorobenzene	<0.046		0.19	0.046	mg/Kg	☼	08/06/19 07:56	08/06/19 17:36	1
1,3-Dichlorobenzene	<0.043		0.19	0.043	mg/Kg	☼	08/06/19 07:56	08/06/19 17:36	1
1,4-Dichlorobenzene	<0.049		0.19	0.049	mg/Kg	☼	08/06/19 07:56	08/06/19 17:36	1
3,3'-Dichlorobenzidine	<0.053		0.19	0.053	mg/Kg	☼	08/06/19 07:56	08/06/19 17:36	1
2,4-Dichlorophenol	<0.091		0.38	0.091	mg/Kg	☼	08/06/19 07:56	08/06/19 17:36	1
Diethyl phthalate	<0.065	*	0.19	0.065	mg/Kg	☼	08/06/19 07:56	08/06/19 17:36	1
2,4-Dimethylphenol	<0.14		0.38	0.14	mg/Kg	☼	08/06/19 07:56	08/06/19 17:36	1
Dimethyl phthalate	<0.050		0.19	0.050	mg/Kg	☼	08/06/19 07:56	08/06/19 17:36	1
Di-n-butyl phthalate	<0.058	*	0.19	0.058	mg/Kg	☼	08/06/19 07:56	08/06/19 17:36	1
4,6-Dinitro-2-methylphenol	<0.31		0.77	0.31	mg/Kg	☼	08/06/19 07:56	08/06/19 17:36	1
2,4-Dinitrophenol	<0.67		0.77	0.67	mg/Kg	☼	08/06/19 07:56	08/06/19 17:36	1
2,4-Dinitrotoluene	<0.061	*	0.19	0.061	mg/Kg	☼	08/06/19 07:56	08/06/19 17:36	1
2,6-Dinitrotoluene	<0.075		0.19	0.075	mg/Kg	☼	08/06/19 07:56	08/06/19 17:36	1
Di-n-octyl phthalate	<0.062		0.19	0.062	mg/Kg	☼	08/06/19 07:56	08/06/19 17:36	1
Fluoranthene	0.033	J	0.038	0.0071	mg/Kg	☼	08/06/19 07:56	08/06/19 17:36	1
Fluorene	<0.0054		0.038	0.0054	mg/Kg	☼	08/06/19 07:56	08/06/19 17:36	1
Hexachlorobenzene	<0.0088	*	0.077	0.0088	mg/Kg	☼	08/06/19 07:56	08/06/19 17:36	1
Hexachlorobutadiene	<0.060	*	0.19	0.060	mg/Kg	☼	08/06/19 07:56	08/06/19 17:36	1
Hexachlorocyclopentadiene	<0.22		0.77	0.22	mg/Kg	☼	08/06/19 07:56	08/06/19 17:36	1
Hexachloroethane	<0.058		0.19	0.058	mg/Kg	☼	08/06/19 07:56	08/06/19 17:36	1
Indeno[1,2,3-cd]pyrene	0.021	J	0.038	0.0099	mg/Kg	☼	08/06/19 07:56	08/06/19 17:36	1
Isophorone	<0.043		0.19	0.043	mg/Kg	☼	08/06/19 07:56	08/06/19 17:36	1
2-Methylnaphthalene	<0.0070		0.077	0.0070	mg/Kg	☼	08/06/19 07:56	08/06/19 17:36	1
2-Methylphenol	<0.061		0.19	0.061	mg/Kg	☼	08/06/19 07:56	08/06/19 17:36	1
3 & 4 Methylphenol	<0.064		0.19	0.064	mg/Kg	☼	08/06/19 07:56	08/06/19 17:36	1
Naphthalene	<0.0059		0.038	0.0059	mg/Kg	☼	08/06/19 07:56	08/06/19 17:36	1
2-Nitroaniline	<0.051		0.19	0.051	mg/Kg	☼	08/06/19 07:56	08/06/19 17:36	1
3-Nitroaniline	<0.12		0.38	0.12	mg/Kg	☼	08/06/19 07:56	08/06/19 17:36	1
4-Nitroaniline	<0.16		0.38	0.16	mg/Kg	☼	08/06/19 07:56	08/06/19 17:36	1
Nitrobenzene	<0.0095		0.038	0.0095	mg/Kg	☼	08/06/19 07:56	08/06/19 17:36	1
2-Nitrophenol	<0.090		0.38	0.090	mg/Kg	☼	08/06/19 07:56	08/06/19 17:36	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167744-2

Client Sample ID: 2815V-1-B02 (0-4)

Lab Sample ID: 500-167744-8

Date Collected: 08/02/19 14:00

Matrix: Solid

Date Received: 08/02/19 16:05

Percent Solids: 86.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.36	*	0.77	0.36	mg/Kg	☼	08/06/19 07:56	08/06/19 17:36	1
N-Nitrosodi-n-propylamine	<0.047		0.077	0.047	mg/Kg	☼	08/06/19 07:56	08/06/19 17:36	1
N-Nitrosodiphenylamine	<0.045		0.19	0.045	mg/Kg	☼	08/06/19 07:56	08/06/19 17:36	1
2,2'-oxybis[1-chloropropane]	<0.044		0.19	0.044	mg/Kg	☼	08/06/19 07:56	08/06/19 17:36	1
Pentachlorophenol	<0.61		0.77	0.61	mg/Kg	☼	08/06/19 07:56	08/06/19 17:36	1
Phenanthrene	0.016	J	0.038	0.0053	mg/Kg	☼	08/06/19 07:56	08/06/19 17:36	1
Phenol	<0.085		0.19	0.085	mg/Kg	☼	08/06/19 07:56	08/06/19 17:36	1
Pyrene	0.033	J	0.038	0.0076	mg/Kg	☼	08/06/19 07:56	08/06/19 17:36	1
1,2,4-Trichlorobenzene	<0.041		0.19	0.041	mg/Kg	☼	08/06/19 07:56	08/06/19 17:36	1
2,4,5-Trichlorophenol	<0.087		0.38	0.087	mg/Kg	☼	08/06/19 07:56	08/06/19 17:36	1
2,4,6-Trichlorophenol	<0.13		0.38	0.13	mg/Kg	☼	08/06/19 07:56	08/06/19 17:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	97		43 - 145	08/06/19 07:56	08/06/19 17:36	1
2-Fluorophenol	93		31 - 166	08/06/19 07:56	08/06/19 17:36	1
Nitrobenzene-d5	83		37 - 147	08/06/19 07:56	08/06/19 17:36	1
Phenol-d5	84		30 - 153	08/06/19 07:56	08/06/19 17:36	1
Terphenyl-d14	126		42 - 157	08/06/19 07:56	08/06/19 17:36	1
2,4,6-Tribromophenol	139		31 - 143	08/06/19 07:56	08/06/19 17:36	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.22	F1	1.1	0.22	mg/Kg	☼	08/05/19 07:50	08/05/19 19:21	1
Arsenic	12	F1	0.56	0.19	mg/Kg	☼	08/05/19 07:50	08/05/19 19:21	1
Barium	74		0.56	0.064	mg/Kg	☼	08/05/19 07:50	08/05/19 19:21	1
Beryllium	0.65		0.23	0.053	mg/Kg	☼	08/05/19 07:50	08/06/19 15:17	1
Cadmium	0.20	B	0.11	0.020	mg/Kg	☼	08/05/19 07:50	08/05/19 19:21	1
Chromium	18		0.56	0.28	mg/Kg	☼	08/05/19 07:50	08/05/19 19:21	1
Cobalt	9.8		0.28	0.074	mg/Kg	☼	08/05/19 07:50	08/05/19 19:21	1
Copper	9.1		0.56	0.16	mg/Kg	☼	08/05/19 07:50	08/05/19 19:21	1
Iron	24000		11	5.9	mg/Kg	☼	08/05/19 07:50	08/05/19 19:21	1
Lead	29	F2	0.28	0.13	mg/Kg	☼	08/05/19 07:50	08/05/19 19:21	1
Magnesium	3700	F2	5.6	2.8	mg/Kg	☼	08/05/19 07:50	08/05/19 19:21	1
Calcium	4300	F2 B	11	1.9	mg/Kg	☼	08/05/19 07:50	08/05/19 19:21	1
Manganese	220		0.56	0.082	mg/Kg	☼	08/05/19 07:50	08/05/19 19:21	1
Nickel	15		0.56	0.16	mg/Kg	☼	08/05/19 07:50	08/05/19 19:21	1
Selenium	0.82	F1	0.56	0.33	mg/Kg	☼	08/05/19 07:50	08/05/19 19:21	1
Silver	3.1		0.28	0.073	mg/Kg	☼	08/05/19 07:50	08/05/19 19:21	1
Thallium	0.95		0.56	0.28	mg/Kg	☼	08/05/19 07:50	08/05/19 19:21	1
Vanadium	30		0.28	0.067	mg/Kg	☼	08/05/19 07:50	08/05/19 19:21	1
Zinc	71		1.1	0.50	mg/Kg	☼	08/05/19 07:50	08/06/19 15:17	1
Potassium	1100	F1	28	10	mg/Kg	☼	08/05/19 07:50	08/05/19 19:21	1
Sodium	130	F1 B	56	8.4	mg/Kg	☼	08/05/19 07:50	08/05/19 19:21	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/07/19 09:01	08/07/19 19:30	1
Barium	0.35	J	0.50	0.050	mg/L		08/07/19 09:01	08/07/19 19:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/07/19 09:01	08/07/19 19:30	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/07/19 09:01	08/07/19 19:30	1

Euofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167744-2

Client Sample ID: 2815V-1-B02 (0-4)

Lab Sample ID: 500-167744-8

Date Collected: 08/02/19 14:00

Matrix: Solid

Date Received: 08/02/19 16:05

Percent Solids: 86.8

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	120		5.0	0.50	mg/L		08/07/19 09:01	08/07/19 19:30	1
Chromium	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 19:30	1
Cobalt	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 19:30	1
Copper	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 19:30	1
Iron	<0.20		0.40	0.20	mg/L		08/07/19 09:01	08/07/19 19:30	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/07/19 09:01	08/07/19 19:30	1
Magnesium	59		2.5	0.50	mg/L		08/07/19 09:01	08/07/19 19:30	1
Manganese	0.053		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 19:30	1
Nickel	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 19:30	1
Potassium	0.88	J	2.5	0.50	mg/L		08/07/19 09:01	08/07/19 19:30	1
Selenium	<0.020		0.050	0.020	mg/L		08/07/19 09:01	08/07/19 19:30	1
Silver	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 19:30	1
Vanadium	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 19:30	1
Zinc	0.21	J	0.50	0.020	mg/L		08/07/19 09:01	08/07/19 19:30	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/07/19 09:01	08/08/19 18:37	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/07/19 09:01	08/08/19 18:37	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/07/19 13:25	08/08/19 10:23	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	J	0.018	0.0061	mg/Kg	☼	08/07/19 11:20	08/08/19 08:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.24		0.49	0.24	mg/Kg	☼	08/13/19 16:30	08/13/19 19:01	1
pH	8.2		0.2	0.2	SU			08/06/19 12:43	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - McCook - WO 061

Job ID: 500-167744-2

Client Sample ID: 2815V-1-B03 (0-3.5)

Lab Sample ID: 500-167744-9

Date Collected: 08/02/19 13:20

Matrix: Solid

Date Received: 08/02/19 16:05

Percent Solids: 94.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0071		0.016	0.0071	mg/Kg	☼	08/02/19 17:22	08/05/19 19:29	1
Benzene	<0.00042		0.0016	0.00042	mg/Kg	☼	08/02/19 17:22	08/05/19 19:29	1
Bromodichloromethane	<0.00033		0.0016	0.00033	mg/Kg	☼	08/02/19 17:22	08/05/19 19:29	1
Bromoform	<0.00048		0.0016	0.00048	mg/Kg	☼	08/02/19 17:22	08/05/19 19:29	1
Bromomethane	<0.0015		0.0041	0.0015	mg/Kg	☼	08/02/19 17:22	08/05/19 19:29	1
2-Butanone (MEK)	<0.0018		0.0041	0.0018	mg/Kg	☼	08/02/19 17:22	08/05/19 19:29	1
Carbon disulfide	<0.00085		0.0041	0.00085	mg/Kg	☼	08/02/19 17:22	08/05/19 19:29	1
Carbon tetrachloride	<0.00048		0.0016	0.00048	mg/Kg	☼	08/02/19 17:22	08/05/19 19:29	1
Chlorobenzene	<0.00061		0.0016	0.00061	mg/Kg	☼	08/02/19 17:22	08/05/19 19:29	1
Chloroethane	<0.0012	*	0.0041	0.0012	mg/Kg	☼	08/02/19 17:22	08/05/19 19:29	1
Chloroform	<0.00057		0.0016	0.00057	mg/Kg	☼	08/02/19 17:22	08/05/19 19:29	1
Chloromethane	<0.0016		0.0041	0.0016	mg/Kg	☼	08/02/19 17:22	08/05/19 19:29	1
cis-1,2-Dichloroethene	<0.00046		0.0016	0.00046	mg/Kg	☼	08/02/19 17:22	08/05/19 19:29	1
cis-1,3-Dichloropropene	<0.00049		0.0016	0.00049	mg/Kg	☼	08/02/19 17:22	08/05/19 19:29	1
Dibromochloromethane	<0.00054		0.0016	0.00054	mg/Kg	☼	08/02/19 17:22	08/05/19 19:29	1
1,1-Dichloroethane	<0.00056		0.0016	0.00056	mg/Kg	☼	08/02/19 17:22	08/05/19 19:29	1
1,2-Dichloroethane	<0.0013		0.0041	0.0013	mg/Kg	☼	08/02/19 17:22	08/05/19 19:29	1
1,1-Dichloroethene	<0.00056		0.0016	0.00056	mg/Kg	☼	08/02/19 17:22	08/05/19 19:29	1
1,2-Dichloropropane	<0.00042		0.0016	0.00042	mg/Kg	☼	08/02/19 17:22	08/05/19 19:29	1
1,3-Dichloropropane, Total	<0.00058		0.0016	0.00058	mg/Kg	☼	08/02/19 17:22	08/05/19 19:29	1
Ethylbenzene	<0.00078		0.0016	0.00078	mg/Kg	☼	08/02/19 17:22	08/05/19 19:29	1
2-Hexanone	<0.0013		0.0041	0.0013	mg/Kg	☼	08/02/19 17:22	08/05/19 19:29	1
Methylene Chloride	<0.0016		0.0041	0.0016	mg/Kg	☼	08/02/19 17:22	08/05/19 19:29	1
4-Methyl-2-pentanone (MIBK)	<0.0012		0.0041	0.0012	mg/Kg	☼	08/02/19 17:22	08/05/19 19:29	1
Methyl tert-butyl ether	<0.00048		0.0016	0.00048	mg/Kg	☼	08/02/19 17:22	08/05/19 19:29	1
Styrene	<0.00050		0.0016	0.00050	mg/Kg	☼	08/02/19 17:22	08/05/19 19:29	1
1,1,2,2-Tetrachloroethane	<0.00052		0.0016	0.00052	mg/Kg	☼	08/02/19 17:22	08/05/19 19:29	1
Tetrachloroethene	<0.00056		0.0016	0.00056	mg/Kg	☼	08/02/19 17:22	08/05/19 19:29	1
Toluene	<0.00041		0.0016	0.00041	mg/Kg	☼	08/02/19 17:22	08/05/19 19:29	1
trans-1,2-Dichloroethene	<0.00073		0.0016	0.00073	mg/Kg	☼	08/02/19 17:22	08/05/19 19:29	1
trans-1,3-Dichloropropene	<0.00058		0.0016	0.00058	mg/Kg	☼	08/02/19 17:22	08/05/19 19:29	1
1,1,1-Trichloroethane	<0.00055		0.0016	0.00055	mg/Kg	☼	08/02/19 17:22	08/05/19 19:29	1
1,1,2-Trichloroethane	<0.00070		0.0016	0.00070	mg/Kg	☼	08/02/19 17:22	08/05/19 19:29	1
Trichloroethene	<0.00055		0.0016	0.00055	mg/Kg	☼	08/02/19 17:22	08/05/19 19:29	1
Vinyl acetate	<0.0014		0.0041	0.0014	mg/Kg	☼	08/02/19 17:22	08/05/19 19:29	1
Vinyl chloride	<0.00073		0.0016	0.00073	mg/Kg	☼	08/02/19 17:22	08/05/19 19:29	1
Xylenes, Total	<0.00052		0.0033	0.00052	mg/Kg	☼	08/02/19 17:22	08/05/19 19:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		75 - 131	08/02/19 17:22	08/05/19 19:29	1
Dibromofluoromethane	96		75 - 126	08/02/19 17:22	08/05/19 19:29	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	08/02/19 17:22	08/05/19 19:29	1
Toluene-d8 (Surr)	92		75 - 124	08/02/19 17:22	08/05/19 19:29	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0062		0.034	0.0062	mg/Kg	☼	08/06/19 07:56	08/06/19 17:12	1
Acenaphthylene	<0.0045		0.034	0.0045	mg/Kg	☼	08/06/19 07:56	08/06/19 17:12	1
Anthracene	<0.0058	*	0.034	0.0058	mg/Kg	☼	08/06/19 07:56	08/06/19 17:12	1
Benzo[a]anthracene	<0.0046		0.034	0.0046	mg/Kg	☼	08/06/19 07:56	08/06/19 17:12	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167744-2

Client Sample ID: 2815V-1-B03 (0-3.5)

Lab Sample ID: 500-167744-9

Date Collected: 08/02/19 13:20

Matrix: Solid

Date Received: 08/02/19 16:05

Percent Solids: 94.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.0067		0.034	0.0067	mg/Kg	☼	08/06/19 07:56	08/06/19 17:12	1
Benzo[b]fluoranthene	<0.0074		0.034	0.0074	mg/Kg	☼	08/06/19 07:56	08/06/19 17:12	1
Benzo[g,h,i]perylene	<0.011		0.034	0.011	mg/Kg	☼	08/06/19 07:56	08/06/19 17:12	1
Benzo[k]fluoranthene	<0.010		0.034	0.010	mg/Kg	☼	08/06/19 07:56	08/06/19 17:12	1
Bis(2-chloroethoxy)methane	<0.035		0.17	0.035	mg/Kg	☼	08/06/19 07:56	08/06/19 17:12	1
Bis(2-chloroethyl)ether	<0.052		0.17	0.052	mg/Kg	☼	08/06/19 07:56	08/06/19 17:12	1
Bis(2-ethylhexyl) phthalate	<0.063		0.17	0.063	mg/Kg	☼	08/06/19 07:56	08/06/19 17:12	1
4-Bromophenyl phenyl ether	<0.045		0.17	0.045	mg/Kg	☼	08/06/19 07:56	08/06/19 17:12	1
Butyl benzyl phthalate	<0.066		0.17	0.066	mg/Kg	☼	08/06/19 07:56	08/06/19 17:12	1
Carbazole	<0.086		0.17	0.086	mg/Kg	☼	08/06/19 07:56	08/06/19 17:12	1
4-Chloroaniline	<0.16		0.70	0.16	mg/Kg	☼	08/06/19 07:56	08/06/19 17:12	1
4-Chloro-3-methylphenol	<0.12		0.34	0.12	mg/Kg	☼	08/06/19 07:56	08/06/19 17:12	1
2-Chloronaphthalene	<0.038		0.17	0.038	mg/Kg	☼	08/06/19 07:56	08/06/19 17:12	1
2-Chlorophenol	<0.059	*	0.17	0.059	mg/Kg	☼	08/06/19 07:56	08/06/19 17:12	1
4-Chlorophenyl phenyl ether	<0.040		0.17	0.040	mg/Kg	☼	08/06/19 07:56	08/06/19 17:12	1
Chrysene	<0.0094		0.034	0.0094	mg/Kg	☼	08/06/19 07:56	08/06/19 17:12	1
Dibenz(a,h)anthracene	<0.0067		0.034	0.0067	mg/Kg	☼	08/06/19 07:56	08/06/19 17:12	1
Dibenzofuran	<0.040	*	0.17	0.040	mg/Kg	☼	08/06/19 07:56	08/06/19 17:12	1
1,2-Dichlorobenzene	<0.041		0.17	0.041	mg/Kg	☼	08/06/19 07:56	08/06/19 17:12	1
1,3-Dichlorobenzene	<0.039		0.17	0.039	mg/Kg	☼	08/06/19 07:56	08/06/19 17:12	1
1,4-Dichlorobenzene	<0.044		0.17	0.044	mg/Kg	☼	08/06/19 07:56	08/06/19 17:12	1
3,3'-Dichlorobenzidine	<0.048		0.17	0.048	mg/Kg	☼	08/06/19 07:56	08/06/19 17:12	1
2,4-Dichlorophenol	<0.082		0.34	0.082	mg/Kg	☼	08/06/19 07:56	08/06/19 17:12	1
Diethyl phthalate	<0.058	*	0.17	0.058	mg/Kg	☼	08/06/19 07:56	08/06/19 17:12	1
2,4-Dimethylphenol	<0.13		0.34	0.13	mg/Kg	☼	08/06/19 07:56	08/06/19 17:12	1
Dimethyl phthalate	<0.045		0.17	0.045	mg/Kg	☼	08/06/19 07:56	08/06/19 17:12	1
Di-n-butyl phthalate	<0.053	*	0.17	0.053	mg/Kg	☼	08/06/19 07:56	08/06/19 17:12	1
4,6-Dinitro-2-methylphenol	<0.28		0.70	0.28	mg/Kg	☼	08/06/19 07:56	08/06/19 17:12	1
2,4-Dinitrophenol	<0.61		0.70	0.61	mg/Kg	☼	08/06/19 07:56	08/06/19 17:12	1
2,4-Dinitrotoluene	<0.055	*	0.17	0.055	mg/Kg	☼	08/06/19 07:56	08/06/19 17:12	1
2,6-Dinitrotoluene	<0.068		0.17	0.068	mg/Kg	☼	08/06/19 07:56	08/06/19 17:12	1
Di-n-octyl phthalate	<0.056		0.17	0.056	mg/Kg	☼	08/06/19 07:56	08/06/19 17:12	1
Fluoranthene	<0.0064		0.034	0.0064	mg/Kg	☼	08/06/19 07:56	08/06/19 17:12	1
Fluorene	<0.0048		0.034	0.0048	mg/Kg	☼	08/06/19 07:56	08/06/19 17:12	1
Hexachlorobenzene	<0.0080	*	0.070	0.0080	mg/Kg	☼	08/06/19 07:56	08/06/19 17:12	1
Hexachlorobutadiene	<0.054	*	0.17	0.054	mg/Kg	☼	08/06/19 07:56	08/06/19 17:12	1
Hexachlorocyclopentadiene	<0.20		0.70	0.20	mg/Kg	☼	08/06/19 07:56	08/06/19 17:12	1
Hexachloroethane	<0.052		0.17	0.052	mg/Kg	☼	08/06/19 07:56	08/06/19 17:12	1
Indeno[1,2,3-cd]pyrene	<0.0089		0.034	0.0089	mg/Kg	☼	08/06/19 07:56	08/06/19 17:12	1
Isophorone	<0.039		0.17	0.039	mg/Kg	☼	08/06/19 07:56	08/06/19 17:12	1
2-Methylnaphthalene	<0.0063		0.070	0.0063	mg/Kg	☼	08/06/19 07:56	08/06/19 17:12	1
2-Methylphenol	<0.055		0.17	0.055	mg/Kg	☼	08/06/19 07:56	08/06/19 17:12	1
3 & 4 Methylphenol	<0.058		0.17	0.058	mg/Kg	☼	08/06/19 07:56	08/06/19 17:12	1
Naphthalene	<0.0053		0.034	0.0053	mg/Kg	☼	08/06/19 07:56	08/06/19 17:12	1
2-Nitroaniline	<0.046		0.17	0.046	mg/Kg	☼	08/06/19 07:56	08/06/19 17:12	1
3-Nitroaniline	<0.11		0.34	0.11	mg/Kg	☼	08/06/19 07:56	08/06/19 17:12	1
4-Nitroaniline	<0.14		0.34	0.14	mg/Kg	☼	08/06/19 07:56	08/06/19 17:12	1
Nitrobenzene	<0.0086		0.034	0.0086	mg/Kg	☼	08/06/19 07:56	08/06/19 17:12	1
2-Nitrophenol	<0.081		0.34	0.081	mg/Kg	☼	08/06/19 07:56	08/06/19 17:12	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167744-2

Client Sample ID: 2815V-1-B03 (0-3.5)

Lab Sample ID: 500-167744-9

Date Collected: 08/02/19 13:20

Matrix: Solid

Date Received: 08/02/19 16:05

Percent Solids: 94.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.33	*	0.70	0.33	mg/Kg	☼	08/06/19 07:56	08/06/19 17:12	1
N-Nitrosodi-n-propylamine	<0.042		0.070	0.042	mg/Kg	☼	08/06/19 07:56	08/06/19 17:12	1
N-Nitrosodiphenylamine	<0.041		0.17	0.041	mg/Kg	☼	08/06/19 07:56	08/06/19 17:12	1
2,2'-oxybis[1-chloropropane]	<0.040		0.17	0.040	mg/Kg	☼	08/06/19 07:56	08/06/19 17:12	1
Pentachlorophenol	<0.55		0.70	0.55	mg/Kg	☼	08/06/19 07:56	08/06/19 17:12	1
Phenanthrene	<0.0048		0.034	0.0048	mg/Kg	☼	08/06/19 07:56	08/06/19 17:12	1
Phenol	<0.077		0.17	0.077	mg/Kg	☼	08/06/19 07:56	08/06/19 17:12	1
Pyrene	<0.0069		0.034	0.0069	mg/Kg	☼	08/06/19 07:56	08/06/19 17:12	1
1,2,4-Trichlorobenzene	<0.037		0.17	0.037	mg/Kg	☼	08/06/19 07:56	08/06/19 17:12	1
2,4,5-Trichlorophenol	<0.079		0.34	0.079	mg/Kg	☼	08/06/19 07:56	08/06/19 17:12	1
2,4,6-Trichlorophenol	<0.12		0.34	0.12	mg/Kg	☼	08/06/19 07:56	08/06/19 17:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	92		43 - 145	08/06/19 07:56	08/06/19 17:12	1
2-Fluorophenol	88		31 - 166	08/06/19 07:56	08/06/19 17:12	1
Nitrobenzene-d5	79		37 - 147	08/06/19 07:56	08/06/19 17:12	1
Phenol-d5	80		30 - 153	08/06/19 07:56	08/06/19 17:12	1
Terphenyl-d14	120		42 - 157	08/06/19 07:56	08/06/19 17:12	1
2,4,6-Tribromophenol	127		31 - 143	08/06/19 07:56	08/06/19 17:12	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.41	J	1.1	0.20	mg/Kg	☼	08/05/19 07:50	08/05/19 19:41	1
Arsenic	5.0		0.53	0.18	mg/Kg	☼	08/05/19 07:50	08/05/19 19:41	1
Barium	6.6		0.53	0.060	mg/Kg	☼	08/05/19 07:50	08/05/19 19:41	1
Beryllium	0.078	J	0.21	0.049	mg/Kg	☼	08/05/19 07:50	08/06/19 15:37	1
Cadmium	0.14	B	0.11	0.019	mg/Kg	☼	08/05/19 07:50	08/05/19 19:41	1
Chromium	2.2		0.53	0.26	mg/Kg	☼	08/05/19 07:50	08/05/19 19:41	1
Cobalt	1.9		0.26	0.069	mg/Kg	☼	08/05/19 07:50	08/05/19 19:41	1
Copper	1.1		0.53	0.15	mg/Kg	☼	08/05/19 07:50	08/05/19 19:41	1
Iron	2700		11	5.5	mg/Kg	☼	08/05/19 07:50	08/05/19 19:41	1
Lead	3.6		0.26	0.12	mg/Kg	☼	08/05/19 07:50	08/05/19 19:41	1
Magnesium	120000		26	13	mg/Kg	☼	08/05/19 07:50	08/06/19 15:41	5
Calcium	190000	B	110	18	mg/Kg	☼	08/05/19 07:50	08/07/19 10:48	10
Manganese	100		0.53	0.076	mg/Kg	☼	08/05/19 07:50	08/05/19 19:41	1
Nickel	2.9		0.53	0.15	mg/Kg	☼	08/05/19 07:50	08/05/19 19:41	1
Selenium	<0.31		0.53	0.31	mg/Kg	☼	08/05/19 07:50	08/05/19 19:41	1
Silver	0.50		0.26	0.068	mg/Kg	☼	08/05/19 07:50	08/05/19 19:41	1
Thallium	<0.26		0.53	0.26	mg/Kg	☼	08/05/19 07:50	08/05/19 19:41	1
Vanadium	2.9		0.26	0.062	mg/Kg	☼	08/05/19 07:50	08/05/19 19:41	1
Zinc	5.0		1.1	0.46	mg/Kg	☼	08/05/19 07:50	08/06/19 15:37	1
Potassium	440		26	9.3	mg/Kg	☼	08/05/19 07:50	08/05/19 19:41	1
Sodium	150	B	53	7.8	mg/Kg	☼	08/05/19 07:50	08/05/19 19:41	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/07/19 09:01	08/07/19 19:42	1
Barium	0.081	J	0.50	0.050	mg/L		08/07/19 09:01	08/07/19 19:42	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/07/19 09:01	08/07/19 19:42	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/07/19 09:01	08/07/19 19:42	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167744-2

Client Sample ID: 2815V-1-B03 (0-3.5)

Lab Sample ID: 500-167744-9

Date Collected: 08/02/19 13:20

Matrix: Solid

Date Received: 08/02/19 16:05

Percent Solids: 94.9

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	340		5.0	0.50	mg/L		08/07/19 09:01	08/07/19 19:42	1
Chromium	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 19:42	1
Cobalt	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 19:42	1
Copper	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 19:42	1
Iron	<0.20		0.40	0.20	mg/L		08/07/19 09:01	08/07/19 19:42	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/07/19 09:01	08/07/19 19:42	1
Magnesium	200		2.5	0.50	mg/L		08/07/19 09:01	08/07/19 19:42	1
Manganese	0.090		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 19:42	1
Nickel	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 19:42	1
Potassium	1.5	J F1	2.5	0.50	mg/L		08/07/19 09:01	08/07/19 19:42	1
Selenium	<0.020		0.050	0.020	mg/L		08/07/19 09:01	08/07/19 19:42	1
Silver	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 19:42	1
Vanadium	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 19:42	1
Zinc	0.022	J	0.50	0.020	mg/L		08/07/19 09:01	08/07/19 19:42	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/07/19 09:01	08/08/19 18:41	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/07/19 09:01	08/08/19 18:41	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/07/19 13:25	08/08/19 10:25	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0052		0.016	0.0052	mg/Kg	☼	08/07/19 11:20	08/08/19 08:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.22		0.44	0.22	mg/Kg	☼	08/13/19 16:30	08/13/19 19:02	1
pH	8.8		0.2	0.2	SU			08/06/19 12:47	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - McCook - WO 061

Job ID: 500-167744-2

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167744-2

Laboratory: Eurofins TestAmerica, Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
Illinois	NELAP	5	100201	04-30-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
7470A	7470A	Solid	Mercury
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
Contact: Matt Weiss @ Terracon.com
Company: Terracon
Address: 192 Exchange Blvd
Address: Glendale Heights IL
Phone: 630-445-0160
Fax:
E-Mail: Matt.Weiss@Terracon.com

Bill To (optional)
Contact: Matt Weiss
Company: Terracon
Address: 192 Exchange Blvd
Address:
Phone: 630-445-0160
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-167744
Chain of Custody Number:
Page 1 of 1
Temperature °C of Cooler: 6.4, 6.3, 8.4

Client		Client Project #		Preservative		Parameter		Matrix		Comments						
<u>F007</u>		<u>11197084F</u>														
Project Name		Lab Project #		Date		Time		# of Containers		Matrix						
<u>11197084F</u>																
Project Location/State		Lab PM		Date		Time		# of Containers		Matrix						
<u>McCook, IL</u>																
Sampler		Lab PM		Date		Time		# of Containers		Matrix						
<u>D.G. Ft</u>																
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	UOC's	SUOC's	Total PB	Inorganic	PH	TECP PB	Inorganic	SPL PB	Inorganic	Comments
<u>8</u>		<u>2815U-1-B02 (0-4)</u>	<u>8/22/19</u>	<u>1400</u>	<u>5</u>	<u>5</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>9</u>		<u>2815U-1-B03 (0-3.5)</u>	<u>8/22/19</u>	<u>1320</u>	<u>5</u>	<u>5</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	

- Preservative Key
- HCL, Cool to 4°
 - H2SO4, Cool to 4°
 - HNO3, Cool to 4°
 - NaOH, Cool to 4°
 - NaOH/Zn, Cool to 4°
 - NaHSO4
 - Cool to 4°
 - None
 - Other

Turnaround Time Required (Business Days)

1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other

Requested Due Date _____

Sample Disposal

Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
<u>[Signature]</u>	<u>Terracon</u>	<u>8/22/19</u>	<u>1515</u>	<u>[Signature]</u>	<u>TA</u>	<u>8/22/19</u>	<u>1515</u>
<u>[Signature]</u>	<u>TA</u>	<u>8/22/19</u>	<u>1605</u>	<u>[Signature]</u>	<u>TA</u>	<u>8/22/19</u>	<u>1605</u>

Lab Courier: TA
Shipped: _____
Hand Delivered: _____

- Matrix Key
- WW - Wastewater
 - W - Water
 - S - Soil
 - SL - Sludge
 - MS - Miscellaneous
 - OL - Oil
 - A - Air
 - SE - Sediment
 - SO - Soil
 - L - Leachate
 - WI - Wipe
 - DW - Drinking Water
 - O - Other

Client Comments:
*note no Arsenium
*note Hold SPL PB Inorganics
per Terracon instructions

Lab Comments:

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-167744-2

Login Number: 167744

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	Received same day of collection; chilling process has begun.
Cooler Temperature is recorded.	True	6.3,6.1,8.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-167784-1
Client Project/Site: IDOT - McCook - WO 061

For:

Terracon Consulting Eng & Scientists
192 Exchange Blvd
Glendale Heights, Illinois 60139

Attn: Mr. Matthew Weiss



Authorized for release by:
8/15/2019 4:20:35 PM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

LINKS

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results through
TotalAccess

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www.testamericainc.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Job ID: 500-167784-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-167784-1

Receipt

The samples were received on 8/5/2019 2:55 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 4.3° C, 9.3° C and 10.1° C.

GC/MS VOA

The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch 498475 recovered outside control limits for the following analytes: Acetone, 2-Butanone, Chloroethane. Acetone was detected in the samples.

The laboratory control sample duplicate (LCSD) for 498662 recovered outside control limits for the following analyte: cis-1,3-Dichloropropene. This analyte was biased low in the LCSD and was not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method(s) 8270D: The following samples contained one base surrogate outside acceptance limits: The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

Method(s) 8270D: The following matrix spike/matrix spike duplicate (MS/MSD) recovered at 0% for two analytes: 2,4-Dinitrophenol and Hexachlorocyclopentadiene. Data has been qualified and reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B05 (0-5)

Lab Sample ID: 500-167784-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.0078	J	0.035	0.0047	mg/Kg	1	*	8270D	Total/NA
Anthracene	0.0082	J F1	0.035	0.0059	mg/Kg	1	*	8270D	Total/NA
Benzo[a]anthracene	0.061		0.035	0.0048	mg/Kg	1	*	8270D	Total/NA
Benzo[a]pyrene	0.088		0.035	0.0069	mg/Kg	1	*	8270D	Total/NA
Benzo[b]fluoranthene	0.13		0.035	0.0077	mg/Kg	1	*	8270D	Total/NA
Benzo[g,h,i]perylene	0.043	F1	0.035	0.011	mg/Kg	1	*	8270D	Total/NA
Benzo[k]fluoranthene	0.038	F1	0.035	0.010	mg/Kg	1	*	8270D	Total/NA
Chrysene	0.073		0.035	0.0097	mg/Kg	1	*	8270D	Total/NA
Fluoranthene	0.090		0.035	0.0066	mg/Kg	1	*	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.046	F1	0.035	0.0092	mg/Kg	1	*	8270D	Total/NA
Phenanthrene	0.040		0.035	0.0050	mg/Kg	1	*	8270D	Total/NA
Pyrene	0.14	F1	0.035	0.0071	mg/Kg	1	*	8270D	Total/NA
Antimony	0.62	J F1	1.0	0.20	mg/Kg	1	*	6010B	Total/NA
Arsenic	3.7		0.51	0.17	mg/Kg	1	*	6010B	Total/NA
Barium	33		0.51	0.058	mg/Kg	1	*	6010B	Total/NA
Beryllium	0.28		0.20	0.047	mg/Kg	1	*	6010B	Total/NA
Cadmium	0.29	B	0.10	0.018	mg/Kg	1	*	6010B	Total/NA
Chromium	6.7		0.51	0.25	mg/Kg	1	*	6010B	Total/NA
Cobalt	4.3		0.25	0.067	mg/Kg	1	*	6010B	Total/NA
Copper	19	F1	0.51	0.14	mg/Kg	1	*	6010B	Total/NA
Iron	6900		10	5.3	mg/Kg	1	*	6010B	Total/NA
Lead	60		0.25	0.12	mg/Kg	1	*	6010B	Total/NA
Magnesium	89000	B	25	13	mg/Kg	5	*	6010B	Total/NA
Calcium	130000	B	51	8.6	mg/Kg	5	*	6010B	Total/NA
Manganese	260		0.51	0.074	mg/Kg	1	*	6010B	Total/NA
Nickel	9.2		0.51	0.15	mg/Kg	1	*	6010B	Total/NA
Selenium	0.34	J	0.51	0.30	mg/Kg	1	*	6010B	Total/NA
Silver	1.0		0.25	0.066	mg/Kg	1	*	6010B	Total/NA
Vanadium	9.9		0.25	0.060	mg/Kg	1	*	6010B	Total/NA
Zinc	50	F1	1.0	0.45	mg/Kg	1	*	6010B	Total/NA
Potassium	970	F1	25	9.0	mg/Kg	1	*	6010B	Total/NA
Sodium	150		51	7.5	mg/Kg	1	*	6010B	Total/NA
Barium	0.23	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0026	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	200		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	92		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.053		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.3	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.042	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.010	J	0.017	0.0055	mg/Kg	1	*	7471B	Total/NA
pH	8.9		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2815V-1-B05 (0-5) Dup

Lab Sample ID: 500-167784-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.0059	J	0.035	0.0046	mg/Kg	1	*	8270D	Total/NA
Anthracene	0.013	J	0.035	0.0058	mg/Kg	1	*	8270D	Total/NA
Benzo[a]anthracene	0.084		0.035	0.0047	mg/Kg	1	*	8270D	Total/NA
Benzo[a]pyrene	0.12		0.035	0.0068	mg/Kg	1	*	8270D	Total/NA
Benzo[b]fluoranthene	0.17		0.035	0.0075	mg/Kg	1	*	8270D	Total/NA
Benzo[g,h,i]perylene	0.059		0.035	0.011	mg/Kg	1	*	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B05 (0-5) Dup (Continued)

Lab Sample ID: 500-167784-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[k]fluoranthene	0.057		0.035	0.010	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.12		0.035	0.0095	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.016	J	0.035	0.0067	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.18		0.035	0.0065	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.046		0.035	0.0091	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.062		0.035	0.0049	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.17		0.035	0.0069	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.44	J	1.0	0.19	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.0		0.50	0.17	mg/Kg	1	☼	6010B	Total/NA
Barium	30		0.50	0.057	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.25		0.20	0.047	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.30	B	0.10	0.018	mg/Kg	1	☼	6010B	Total/NA
Chromium	6.5		0.50	0.25	mg/Kg	1	☼	6010B	Total/NA
Cobalt	4.6		0.25	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	12		0.50	0.14	mg/Kg	1	☼	6010B	Total/NA
Iron	7500		10	5.2	mg/Kg	1	☼	6010B	Total/NA
Lead	56		0.25	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	91000	B	25	12	mg/Kg	5	☼	6010B	Total/NA
Calcium	130000	B	50	8.5	mg/Kg	5	☼	6010B	Total/NA
Manganese	240		0.50	0.073	mg/Kg	1	☼	6010B	Total/NA
Nickel	9.1		0.50	0.15	mg/Kg	1	☼	6010B	Total/NA
Silver	1.0		0.25	0.065	mg/Kg	1	☼	6010B	Total/NA
Vanadium	9.2		0.25	0.059	mg/Kg	1	☼	6010B	Total/NA
Zinc	51		1.0	0.44	mg/Kg	1	☼	6010B	Total/NA
Potassium	910		25	8.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	150		50	7.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.24	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0020	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	200		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	97		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.029		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.6	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.40	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.011	J	0.018	0.0059	mg/Kg	1	☼	7471B	Total/NA
pH	8.8		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2815V-1-B05 (5-7)

Lab Sample ID: 500-167784-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.010	J*	0.017	0.0075	mg/Kg	1	☼	8260B	Total/NA
Anthracene	0.0059	J	0.034	0.0058	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.048		0.034	0.0046	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.065		0.034	0.0067	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.090		0.034	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.041		0.034	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.025	J	0.034	0.010	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.064		0.034	0.0094	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.010	J	0.034	0.0067	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.070		0.034	0.0064	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.035		0.034	0.0090	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.026	J	0.034	0.0048	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B05 (5-7) (Continued)

Lab Sample ID: 500-167784-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	0.073		0.034	0.0069	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.50	J	0.97	0.19	mg/Kg	1	☼	6010B	Total/NA
Arsenic	2.3		0.48	0.17	mg/Kg	1	☼	6010B	Total/NA
Barium	16		0.48	0.055	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.20		0.19	0.045	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.21	B	0.097	0.017	mg/Kg	1	☼	6010B	Total/NA
Chromium	4.2		0.48	0.24	mg/Kg	1	☼	6010B	Total/NA
Cobalt	2.7		0.24	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	5.2		0.48	0.14	mg/Kg	1	☼	6010B	Total/NA
Iron	3800		9.7	5.0	mg/Kg	1	☼	6010B	Total/NA
Lead	28		0.24	0.11	mg/Kg	1	☼	6010B	Total/NA
Magnesium	110000	B	24	12	mg/Kg	5	☼	6010B	Total/NA
Calcium	190000	B	97	16	mg/Kg	10	☼	6010B	Total/NA
Manganese	160		0.48	0.070	mg/Kg	1	☼	6010B	Total/NA
Nickel	4.8		0.48	0.14	mg/Kg	1	☼	6010B	Total/NA
Silver	0.68		0.24	0.063	mg/Kg	1	☼	6010B	Total/NA
Vanadium	5.6		0.24	0.057	mg/Kg	1	☼	6010B	Total/NA
Zinc	25		0.97	0.43	mg/Kg	1	☼	6010B	Total/NA
Potassium	840		24	8.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	160		48	7.2	mg/Kg	1	☼	6010B	Total/NA
Barium	0.15	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	190		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	100		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.34		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.3	J	2.5	0.50	mg/L	1		6010B	TCLP
pH	8.8		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2815V-1-B06 (0-5)

Lab Sample ID: 500-167784-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.0018	J	0.0045	0.0018	mg/Kg	1	☼	8260B	Total/NA
Acenaphthene	0.0097	J	0.035	0.0063	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.0089	J	0.035	0.0046	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.030	J	0.035	0.0059	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.17		0.035	0.0047	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.22		0.035	0.0068	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.32		0.035	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.12		0.035	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.13		0.035	0.010	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.20		0.035	0.0096	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.027	J	0.035	0.0068	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.34		0.035	0.0065	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0080	J	0.035	0.0049	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.10		0.035	0.0091	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.0059	J	0.035	0.0054	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.16		0.035	0.0049	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.35		0.035	0.0070	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.54	J	1.0	0.19	mg/Kg	1	☼	6010B	Total/NA
Arsenic	3.9		0.50	0.17	mg/Kg	1	☼	6010B	Total/NA
Barium	38		0.50	0.057	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.25		0.20	0.047	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B06 (0-5) (Continued)

Lab Sample ID: 500-167784-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.31	B	0.10	0.018	mg/Kg	1	☼	6010B	Total/NA
Chromium	7.5		0.50	0.25	mg/Kg	1	☼	6010B	Total/NA
Cobalt	4.6		0.25	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	13		0.50	0.14	mg/Kg	1	☼	6010B	Total/NA
Iron	6500		10	5.2	mg/Kg	1	☼	6010B	Total/NA
Lead	35		0.25	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	94000	B	25	12	mg/Kg	5	☼	6010B	Total/NA
Calcium	140000	B	50	8.4	mg/Kg	5	☼	6010B	Total/NA
Manganese	290		0.50	0.072	mg/Kg	1	☼	6010B	Total/NA
Nickel	8.0		0.50	0.14	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.30	J	0.50	0.29	mg/Kg	1	☼	6010B	Total/NA
Silver	0.81		0.25	0.064	mg/Kg	1	☼	6010B	Total/NA
Vanadium	9.5		0.25	0.059	mg/Kg	1	☼	6010B	Total/NA
Zinc	58		1.0	0.44	mg/Kg	1	☼	6010B	Total/NA
Potassium	830		25	8.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	270		50	7.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.26	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0024	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	200		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	100		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.019	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.5		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.33	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.0084	J	0.017	0.0057	mg/Kg	1	☼	7471B	Total/NA
pH	8.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2815V-1-B06 (5-10)

Lab Sample ID: 500-167784-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.0017	J	0.0042	0.0017	mg/Kg	1	☼	8260B	Total/NA
Acenaphthylene	0.0067	J	0.034	0.0045	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.0082	J	0.034	0.0057	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.061		0.034	0.0046	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.075		0.034	0.0067	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.098		0.034	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.052		0.034	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.034		0.034	0.010	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.072		0.034	0.0094	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.0098	J	0.034	0.0066	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.099		0.034	0.0064	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.050		0.034	0.0089	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.048		0.034	0.0048	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.10		0.034	0.0068	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.37	J	0.96	0.19	mg/Kg	1	☼	6010B	Total/NA
Arsenic	2.9		0.48	0.16	mg/Kg	1	☼	6010B	Total/NA
Barium	17		0.48	0.055	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.14	J	0.19	0.045	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.24	B	0.096	0.017	mg/Kg	1	☼	6010B	Total/NA
Chromium	3.6		0.48	0.24	mg/Kg	1	☼	6010B	Total/NA
Cobalt	2.5		0.24	0.063	mg/Kg	1	☼	6010B	Total/NA
Copper	7.5		0.48	0.13	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B06 (5-10) (Continued)

Lab Sample ID: 500-167784-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	4000		9.6	5.0	mg/Kg	1	☒	6010B	Total/NA
Lead	30		0.24	0.11	mg/Kg	1	☒	6010B	Total/NA
Magnesium	110000	B	24	12	mg/Kg	5	☒	6010B	Total/NA
Calcium	190000	B	96	16	mg/Kg	10	☒	6010B	Total/NA
Manganese	150		0.48	0.070	mg/Kg	1	☒	6010B	Total/NA
Nickel	4.7		0.48	0.14	mg/Kg	1	☒	6010B	Total/NA
Silver	0.48		0.24	0.062	mg/Kg	1	☒	6010B	Total/NA
Vanadium	5.5		0.24	0.057	mg/Kg	1	☒	6010B	Total/NA
Zinc	28		0.96	0.42	mg/Kg	1	☒	6010B	Total/NA
Potassium	530		24	8.5	mg/Kg	1	☒	6010B	Total/NA
Sodium	220		48	7.1	mg/Kg	1	☒	6010B	Total/NA
Barium	0.17	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0023	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	200		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	110		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.17		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.98	J	2.5	0.50	mg/L	1		6010B	TCLP
pH	8.8		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2815V-1-B06 (10-13.5)

Lab Sample ID: 500-167784-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.0018	J	0.0042	0.0017	mg/Kg	1	☒	8260B	Total/NA
Benzo[a]anthracene	0.034	J	0.037	0.0050	mg/Kg	1	☒	8270D	Total/NA
Benzo[a]pyrene	0.041		0.037	0.0072	mg/Kg	1	☒	8270D	Total/NA
Benzo[b]fluoranthene	0.048		0.037	0.0080	mg/Kg	1	☒	8270D	Total/NA
Benzo[g,h,i]perylene	0.027	J	0.037	0.012	mg/Kg	1	☒	8270D	Total/NA
Benzo[k]fluoranthene	0.013	J	0.037	0.011	mg/Kg	1	☒	8270D	Total/NA
Chrysene	0.040		0.037	0.010	mg/Kg	1	☒	8270D	Total/NA
Fluoranthene	0.050		0.037	0.0069	mg/Kg	1	☒	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.030	J	0.037	0.0096	mg/Kg	1	☒	8270D	Total/NA
Phenanthrene	0.028	J	0.037	0.0052	mg/Kg	1	☒	8270D	Total/NA
Pyrene	0.058		0.037	0.0074	mg/Kg	1	☒	8270D	Total/NA
Antimony	0.53	J	1.1	0.22	mg/Kg	1	☒	6010B	Total/NA
Arsenic	4.0		0.57	0.20	mg/Kg	1	☒	6010B	Total/NA
Barium	56		0.57	0.065	mg/Kg	1	☒	6010B	Total/NA
Beryllium	0.43		0.23	0.054	mg/Kg	1	☒	6010B	Total/NA
Cadmium	0.20	B	0.11	0.021	mg/Kg	1	☒	6010B	Total/NA
Chromium	8.8		0.57	0.28	mg/Kg	1	☒	6010B	Total/NA
Cobalt	6.5		0.29	0.075	mg/Kg	1	☒	6010B	Total/NA
Copper	10		0.57	0.16	mg/Kg	1	☒	6010B	Total/NA
Iron	9300		11	6.0	mg/Kg	1	☒	6010B	Total/NA
Lead	29		0.29	0.13	mg/Kg	1	☒	6010B	Total/NA
Magnesium	57000	B	29	14	mg/Kg	5	☒	6010B	Total/NA
Calcium	84000	B	57	9.7	mg/Kg	5	☒	6010B	Total/NA
Manganese	340		0.57	0.083	mg/Kg	1	☒	6010B	Total/NA
Nickel	12		0.57	0.17	mg/Kg	1	☒	6010B	Total/NA
Silver	1.7		0.29	0.074	mg/Kg	1	☒	6010B	Total/NA
Thallium	0.30	J	0.57	0.29	mg/Kg	1	☒	6010B	Total/NA
Vanadium	15		0.29	0.068	mg/Kg	1	☒	6010B	Total/NA
Zinc	45		1.1	0.50	mg/Kg	1	☒	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B06 (10-13.5) (Continued)

Lab Sample ID: 500-167784-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	1200		29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	490		57	8.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.24	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	190		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	100		2.5	0.50	mg/L	1		6010B	TCLP
Potassium	1.7	J	2.5	0.50	mg/L	1		6010B	TCLP
Mercury	0.013	J	0.019	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	8.8		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2815V-1-B07 (0-5)

Lab Sample ID: 500-167784-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.0098	J	0.039	0.0071	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.013	J	0.039	0.0052	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.038	J	0.039	0.0066	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.18		0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.21		0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.31		0.039	0.0086	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.10		0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.090		0.039	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.19		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.017	J	0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.31		0.039	0.0074	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0093	J	0.039	0.0056	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.091		0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.0076	J	0.080	0.0073	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.0075	J	0.039	0.0061	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.15		0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.33		0.039	0.0079	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.69	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.0		0.57	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	47		0.57	0.065	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.33		0.23	0.053	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.42	B	0.11	0.021	mg/Kg	1	☼	6010B	Total/NA
Chromium	8.5		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	4.2		0.29	0.075	mg/Kg	1	☼	6010B	Total/NA
Copper	19		0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	8400		11	5.9	mg/Kg	1	☼	6010B	Total/NA
Lead	94		0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	83000	B	29	14	mg/Kg	5	☼	6010B	Total/NA
Calcium	120000	B	57	9.7	mg/Kg	5	☼	6010B	Total/NA
Manganese	210		0.57	0.083	mg/Kg	1	☼	6010B	Total/NA
Nickel	9.7		0.57	0.17	mg/Kg	1	☼	6010B	Total/NA
Silver	1.1		0.29	0.074	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.36	J	0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	12		0.29	0.067	mg/Kg	1	☼	6010B	Total/NA
Zinc	68		1.1	0.50	mg/Kg	1	☼	6010B	Total/NA
Potassium	1100		29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	240		57	8.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.30	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0021	J	0.0050	0.0020	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B07 (0-5) (Continued)

Lab Sample ID: 500-167784-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	200		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	85		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.016	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.8		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.064	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.033		0.019	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	8.7		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2815V-1-B07 (5-10)

Lab Sample ID: 500-167784-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0081	J*	0.018	0.0080	mg/Kg	1	☼	8260B	Total/NA
Methylene Chloride	0.0030	J	0.0046	0.0018	mg/Kg	1	☼	8260B	Total/NA
Anthracene	0.0062	J	0.036	0.0061	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.025	J	0.036	0.0049	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.034	J	0.036	0.0071	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.036		0.036	0.0079	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.021	J	0.036	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.011	J	0.036	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.028	J	0.036	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.038		0.036	0.0068	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.023	J	0.036	0.0095	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.020	J	0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.042		0.036	0.0073	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.42	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.3		0.56	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	66		0.56	0.064	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.52		0.22	0.052	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.23	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	12		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.28	0.073	mg/Kg	1	☼	6010B	Total/NA
Copper	13		0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	12000		11	5.8	mg/Kg	1	☼	6010B	Total/NA
Lead	24		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	60000	B	28	14	mg/Kg	5	☼	6010B	Total/NA
Calcium	89000	B	56	9.4	mg/Kg	5	☼	6010B	Total/NA
Manganese	360		0.56	0.081	mg/Kg	1	☼	6010B	Total/NA
Nickel	14		0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Silver	1.9		0.28	0.072	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.46	J	0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.28	0.066	mg/Kg	1	☼	6010B	Total/NA
Zinc	49		1.1	0.49	mg/Kg	1	☼	6010B	Total/NA
Potassium	1500		28	9.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	310		56	8.2	mg/Kg	1	☼	6010B	Total/NA
Barium	0.28	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	190		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	100		2.5	0.50	mg/L	1		6010B	TCLP
Potassium	1.7	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.67		0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.026		0.018	0.0059	mg/Kg	1	☼	7471B	Total/NA
pH	8.6		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B07 (10-13.5)

Lab Sample ID: 500-167784-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0099	J*	0.017	0.0075	mg/Kg	1	☼	8260B	Total/NA
Acenaphthene	0.025	J	0.038	0.0069	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.0070	J	0.038	0.0050	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.048		0.038	0.0064	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.13		0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.14		0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.17		0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.10		0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.042		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.13		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.021	J	0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.25		0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.017	J	0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.085		0.038	0.0099	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.19		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.26		0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.56	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.2		0.55	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	60		0.55	0.063	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.49		0.22	0.052	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.21	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	11		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.1		0.28	0.073	mg/Kg	1	☼	6010B	Total/NA
Copper	10		0.55	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	9100		11	5.8	mg/Kg	1	☼	6010B	Total/NA
Lead	26		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	71000	B	28	14	mg/Kg	5	☼	6010B	Total/NA
Calcium	100000	B	55	9.4	mg/Kg	5	☼	6010B	Total/NA
Manganese	170		0.55	0.080	mg/Kg	1	☼	6010B	Total/NA
Nickel	10		0.55	0.16	mg/Kg	1	☼	6010B	Total/NA
Silver	1.6		0.28	0.071	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.28	0.065	mg/Kg	1	☼	6010B	Total/NA
Zinc	41		1.1	0.49	mg/Kg	1	☼	6010B	Total/NA
Potassium	1100		28	9.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	360		55	8.2	mg/Kg	1	☼	6010B	Total/NA
Barium	0.28	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	190		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	110		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.037		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.061		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.67	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.17	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.010	J	0.018	0.0059	mg/Kg	1	☼	7471B	Total/NA
pH	8.8		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2815V-1-B08 (0-5)

Lab Sample ID: 500-167784-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.013	J*	0.017	0.0076	mg/Kg	1	☼	8260B	Total/NA
Methylene Chloride	0.0020	J	0.0043	0.0017	mg/Kg	1	☼	8260B	Total/NA
Acenaphthene	0.57		0.035	0.0063	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B08 (0-5) (Continued)

Lab Sample ID: 500-167784-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.066		0.035	0.0046	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	2.4		0.035	0.0068	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.93		0.035	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	1.5		0.035	0.010	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.096	J	0.18	0.064	mg/Kg	1	☼	8270D	Total/NA
Carbazole	0.64		0.18	0.087	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.28		0.035	0.0067	mg/Kg	1	☼	8270D	Total/NA
Dibenzofuran	0.26		0.18	0.041	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.70		0.035	0.0049	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.91		0.035	0.0090	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.053	J	0.070	0.0064	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.051		0.035	0.0054	mg/Kg	1	☼	8270D	Total/NA
Anthracene - DL	2.3		0.17	0.029	mg/Kg	5	☼	8270D	Total/NA
Benzo[a]anthracene - DL	3.7		0.17	0.023	mg/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene - DL	3.8		0.17	0.038	mg/Kg	5	☼	8270D	Total/NA
Chrysene - DL	3.9		0.17	0.048	mg/Kg	5	☼	8270D	Total/NA
Fluoranthene - DL	8.7		0.17	0.032	mg/Kg	5	☼	8270D	Total/NA
Phenanthrene - DL	5.8		0.17	0.024	mg/Kg	5	☼	8270D	Total/NA
Pyrene - DL	7.2		0.17	0.035	mg/Kg	5	☼	8270D	Total/NA
Antimony	0.42	J	1.0	0.20	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.4		0.52	0.18	mg/Kg	1	☼	6010B	Total/NA
Barium	60		0.52	0.060	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.45		0.21	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.49	B	0.10	0.019	mg/Kg	1	☼	6010B	Total/NA
Chromium	13		0.52	0.26	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.9		0.26	0.068	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.52	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	12000		10	5.4	mg/Kg	1	☼	6010B	Total/NA
Lead	77		0.26	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	65000	B	26	13	mg/Kg	5	☼	6010B	Total/NA
Calcium	94000	B	52	8.9	mg/Kg	5	☼	6010B	Total/NA
Manganese	350		0.52	0.076	mg/Kg	1	☼	6010B	Total/NA
Nickel	15		0.52	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.36	J	0.52	0.31	mg/Kg	1	☼	6010B	Total/NA
Silver	1.4		0.26	0.067	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.32	J	0.52	0.26	mg/Kg	1	☼	6010B	Total/NA
Vanadium	16		0.26	0.062	mg/Kg	1	☼	6010B	Total/NA
Zinc	120		1.0	0.46	mg/Kg	1	☼	6010B	Total/NA
Potassium	1400		26	9.2	mg/Kg	1	☼	6010B	Total/NA
Sodium	500		52	7.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.34	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0026	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	230		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	92		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.097		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	4.1		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.36	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.024		0.017	0.0056	mg/Kg	1	☼	7471B	Total/NA
pH	8.9		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B08 (5-10)

Lab Sample ID: 500-167784-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.025	*	0.017	0.0076	mg/Kg	1	☼	8260B	Total/NA
Methylene Chloride	0.0028	J	0.0044	0.0017	mg/Kg	1	☼	8260B	Total/NA
Acenaphthene	0.016	J	0.033	0.0060	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.0090	J	0.033	0.0044	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.080		0.033	0.0056	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.22		0.033	0.0045	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.20		0.033	0.0065	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.27		0.033	0.0072	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.098		0.033	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.091		0.033	0.0099	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.21		0.033	0.0091	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.026	J	0.033	0.0065	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.41		0.033	0.0062	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.021	J	0.033	0.0047	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.099		0.033	0.0087	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.22		0.033	0.0047	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.41		0.033	0.0067	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.36	J	0.99	0.19	mg/Kg	1	☼	6010B	Total/NA
Arsenic	3.6		0.50	0.17	mg/Kg	1	☼	6010B	Total/NA
Barium	34		0.50	0.057	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.25		0.20	0.046	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.33	B	0.099	0.018	mg/Kg	1	☼	6010B	Total/NA
Chromium	8.4		0.50	0.25	mg/Kg	1	☼	6010B	Total/NA
Cobalt	3.8		0.25	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	15		0.50	0.14	mg/Kg	1	☼	6010B	Total/NA
Iron	11000		9.9	5.2	mg/Kg	1	☼	6010B	Total/NA
Lead	120		0.25	0.11	mg/Kg	1	☼	6010B	Total/NA
Magnesium	95000	B	25	12	mg/Kg	5	☼	6010B	Total/NA
Calcium	170000	B	99	17	mg/Kg	10	☼	6010B	Total/NA
Manganese	220		0.50	0.072	mg/Kg	1	☼	6010B	Total/NA
Nickel	12		0.50	0.14	mg/Kg	1	☼	6010B	Total/NA
Silver	0.82		0.25	0.064	mg/Kg	1	☼	6010B	Total/NA
Vanadium	8.7		0.25	0.059	mg/Kg	1	☼	6010B	Total/NA
Zinc	50		0.99	0.44	mg/Kg	1	☼	6010B	Total/NA
Potassium	860		25	8.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	340		50	7.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.33	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0030	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	250		5.0	0.50	mg/L	1		6010B	TCLP
Lead	0.026		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	120		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.033		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.7	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.089	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.021		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.032		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.011	J	0.016	0.0055	mg/Kg	1	☼	7471B	Total/NA
pH	9.3		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B09 (0-5)

Lab Sample ID: 500-167784-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.012	J	0.036	0.0064	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.017	J	0.036	0.0047	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.045		0.036	0.0060	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.27		0.036	0.0048	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.33		0.036	0.0069	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.53		0.036	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.15		0.036	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.16		0.036	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.35		0.036	0.0098	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.044		0.036	0.0069	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.62		0.036	0.0066	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.012	J	0.036	0.0050	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.13		0.036	0.0093	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.016	J	0.072	0.0066	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.016	J	0.036	0.0055	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.22		0.036	0.0050	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.60		0.036	0.0071	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.37	J	1.0	0.20	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.2		0.52	0.18	mg/Kg	1	☼	6010B	Total/NA
Barium	73		0.52	0.059	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.59		0.21	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.49	B	0.10	0.019	mg/Kg	1	☼	6010B	Total/NA
Chromium	14		0.52	0.26	mg/Kg	1	☼	6010B	Total/NA
Cobalt	10		0.26	0.068	mg/Kg	1	☼	6010B	Total/NA
Copper	28		0.52	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	15000		10	5.4	mg/Kg	1	☼	6010B	Total/NA
Lead	95		0.26	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	42000	B	26	13	mg/Kg	5	☼	6010B	Total/NA
Calcium	73000	B	52	8.8	mg/Kg	5	☼	6010B	Total/NA
Manganese	420		0.52	0.076	mg/Kg	1	☼	6010B	Total/NA
Nickel	19		0.52	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.59		0.52	0.31	mg/Kg	1	☼	6010B	Total/NA
Silver	1.9		0.26	0.067	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.55		0.52	0.26	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.26	0.062	mg/Kg	1	☼	6010B	Total/NA
Zinc	110		1.0	0.46	mg/Kg	1	☼	6010B	Total/NA
Potassium	1600		26	9.2	mg/Kg	1	☼	6010B	Total/NA
Sodium	530		52	7.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.39	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0035	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	270		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	100		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.16		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.8	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.40	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.50		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.045		0.017	0.0057	mg/Kg	1	☼	7471B	Total/NA
pH	9.0		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B09 (0-5) Dup

Lab Sample ID: 500-167784-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.011	J	0.024	0.010	mg/Kg	1	☼	8260B	Total/NA
Methylene Chloride	0.0026	J	0.0059	0.0023	mg/Kg	1	☼	8260B	Total/NA
Acenaphthene	0.022	J	0.033	0.0060	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.022	J	0.033	0.0044	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.058		0.033	0.0056	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.46		0.033	0.0045	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.58		0.033	0.0065	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.88		0.033	0.0072	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.27		0.033	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.25		0.033	0.0099	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.61		0.033	0.0091	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.065		0.033	0.0065	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.92		0.033	0.0062	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.017	J	0.033	0.0047	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.17		0.033	0.0087	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.016	J	0.068	0.0062	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.013	J	0.033	0.0052	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.25		0.033	0.0047	mg/Kg	1	☼	8270D	Total/NA
Pyrene	1.0		0.033	0.0067	mg/Kg	1	☼	8270D	Total/NA
Arsenic	4.8		0.49	0.17	mg/Kg	1	☼	6010B	Total/NA
Barium	57		0.49	0.056	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.48		0.20	0.046	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.51	B	0.098	0.018	mg/Kg	1	☼	6010B	Total/NA
Chromium	14		0.49	0.24	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.2		0.25	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	330		0.49	0.14	mg/Kg	1	☼	6010B	Total/NA
Iron	12000		9.8	5.1	mg/Kg	1	☼	6010B	Total/NA
Lead	98		1.2	0.57	mg/Kg	5	☼	6010B	Total/NA
Magnesium	62000	B	25	12	mg/Kg	5	☼	6010B	Total/NA
Calcium	110000	B	49	8.3	mg/Kg	5	☼	6010B	Total/NA
Manganese	300		0.49	0.071	mg/Kg	1	☼	6010B	Total/NA
Nickel	17		0.49	0.14	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.29	J	0.49	0.29	mg/Kg	1	☼	6010B	Total/NA
Silver	1.5		0.25	0.063	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.35	J	0.49	0.24	mg/Kg	1	☼	6010B	Total/NA
Vanadium	15		0.25	0.058	mg/Kg	1	☼	6010B	Total/NA
Zinc	170		0.98	0.43	mg/Kg	1	☼	6010B	Total/NA
Potassium	1500		25	8.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	450		49	7.3	mg/Kg	1	☼	6010B	Total/NA
Barium	0.41	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0040	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	300		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	100		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.35		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.7		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.21	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.33		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.031		0.017	0.0057	mg/Kg	1	☼	7471B	Total/NA
pH	8.4		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B09 (5-7)

Lab Sample ID: 500-167784-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.014	J*	0.017	0.0074	mg/Kg	1	☼	8260B	Total/NA
Methylene Chloride	0.0037	J	0.0042	0.0017	mg/Kg	1	☼	8260B	Total/NA
Acenaphthene	0.026	J	0.034	0.0062	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.015	J	0.034	0.0046	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.075		0.034	0.0058	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.25		0.034	0.0047	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.28		0.034	0.0067	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.38		0.034	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.14		0.034	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.13		0.034	0.010	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.25		0.034	0.0095	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.032	J	0.034	0.0067	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.46		0.034	0.0064	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.026	J	0.034	0.0049	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.10		0.034	0.0090	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.0097	J	0.070	0.0064	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.0070	J	0.034	0.0053	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.33		0.034	0.0048	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.54		0.034	0.0069	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.51	J	1.0	0.20	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.1		0.52	0.18	mg/Kg	1	☼	6010B	Total/NA
Barium	23		0.52	0.060	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.22		0.21	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.37	B	0.10	0.019	mg/Kg	1	☼	6010B	Total/NA
Chromium	5.1		0.52	0.26	mg/Kg	1	☼	6010B	Total/NA
Cobalt	3.5		0.26	0.068	mg/Kg	1	☼	6010B	Total/NA
Copper	11		0.52	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	7100		10	5.4	mg/Kg	1	☼	6010B	Total/NA
Lead	53		0.26	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	100000	B	26	13	mg/Kg	5	☼	6010B	Total/NA
Calcium	180000	B	100	18	mg/Kg	10	☼	6010B	Total/NA
Manganese	150		0.52	0.076	mg/Kg	1	☼	6010B	Total/NA
Nickel	7.4		0.52	0.15	mg/Kg	1	☼	6010B	Total/NA
Silver	0.73		0.26	0.067	mg/Kg	1	☼	6010B	Total/NA
Vanadium	8.2		0.26	0.062	mg/Kg	1	☼	6010B	Total/NA
Zinc	47		1.0	0.46	mg/Kg	1	☼	6010B	Total/NA
Potassium	640		26	9.2	mg/Kg	1	☼	6010B	Total/NA
Sodium	290		52	7.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.27	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0030	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	260		5.0	0.50	mg/L	1		6010B	TCLP
Lead	0.0090		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	130		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.33		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.87	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.32	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.031		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.051		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.012	J	0.016	0.0054	mg/Kg	1	☼	7471B	Total/NA
pH	8.9		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B10 (0-4)

Lab Sample ID: 500-167784-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.040	*	0.025	0.011	mg/Kg	1	☼	8260B	Total/NA
Acenaphthene	0.074		0.034	0.0062	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.020	J	0.034	0.0045	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.13		0.034	0.0057	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.61		0.034	0.0046	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.56		0.034	0.0066	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.80		0.034	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.22		0.034	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.31		0.034	0.010	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.074	J	0.17	0.063	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.57		0.034	0.0093	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.058		0.034	0.0066	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	1.3		0.034	0.0064	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.071		0.034	0.0048	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.20		0.034	0.0089	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.013	J	0.069	0.0063	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.0094	J	0.034	0.0053	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.53		0.034	0.0048	mg/Kg	1	☼	8270D	Total/NA
Pyrene	1.5		0.034	0.0068	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.50	J	0.99	0.19	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.5		0.50	0.17	mg/Kg	1	☼	6010B	Total/NA
Barium	39		0.50	0.057	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.30		0.20	0.046	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.40	B	0.099	0.018	mg/Kg	1	☼	6010B	Total/NA
Chromium	8.9		0.50	0.25	mg/Kg	1	☼	6010B	Total/NA
Cobalt	4.9		0.25	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	21		0.50	0.14	mg/Kg	1	☼	6010B	Total/NA
Iron	8300		9.9	5.2	mg/Kg	1	☼	6010B	Total/NA
Lead	68		0.25	0.11	mg/Kg	1	☼	6010B	Total/NA
Magnesium	84000	B	25	12	mg/Kg	5	☼	6010B	Total/NA
Calcium	150000	B	50	8.4	mg/Kg	5	☼	6010B	Total/NA
Manganese	230		0.50	0.072	mg/Kg	1	☼	6010B	Total/NA
Nickel	11		0.50	0.14	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.37	J	0.50	0.29	mg/Kg	1	☼	6010B	Total/NA
Silver	1.1		0.25	0.064	mg/Kg	1	☼	6010B	Total/NA
Vanadium	11		0.25	0.059	mg/Kg	1	☼	6010B	Total/NA
Zinc	85		0.99	0.44	mg/Kg	1	☼	6010B	Total/NA
Potassium	1200		25	8.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	220		50	7.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.40	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0037	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	280		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	110		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.31		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.2		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.083	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.20		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.029		0.017	0.0056	mg/Kg	1	☼	7471B	Total/NA
pH	8.5		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B11 (0-4.5)

Lab Sample ID: 500-167784-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.019	J	0.036	0.0066	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.039		0.036	0.0048	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.19		0.036	0.0061	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.33		0.036	0.0049	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.42		0.036	0.0071	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.65		0.036	0.0079	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.18		0.036	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.17		0.036	0.011	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.19		0.18	0.067	mg/Kg	1	☼	8270D	Total/NA
Carbazole	0.097	J	0.18	0.091	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.41		0.036	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.047		0.036	0.0071	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.52		0.036	0.0068	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.025	J	0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.16		0.036	0.0095	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.033	J	0.074	0.0067	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.028	J	0.036	0.0056	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.32		0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.72		0.036	0.0073	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.63	J	1.1	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.0		0.55	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	93		0.55	0.062	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.77		0.22	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.72	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	13		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.6		0.27	0.071	mg/Kg	1	☼	6010B	Total/NA
Copper	36		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	27000		11	5.7	mg/Kg	1	☼	6010B	Total/NA
Lead	120		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	48000	B	27	14	mg/Kg	5	☼	6010B	Total/NA
Calcium	88000	B	55	9.2	mg/Kg	5	☼	6010B	Total/NA
Manganese	320		0.55	0.079	mg/Kg	1	☼	6010B	Total/NA
Nickel	21		0.55	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.70		0.55	0.32	mg/Kg	1	☼	6010B	Total/NA
Silver	1.7		0.27	0.070	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.52	J	0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	17		0.27	0.064	mg/Kg	1	☼	6010B	Total/NA
Zinc	140		1.1	0.48	mg/Kg	1	☼	6010B	Total/NA
Potassium	1200		27	9.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	350		55	8.1	mg/Kg	1	☼	6010B	Total/NA
Barium	0.43	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0033	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	280		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	98		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.10		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.3	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.26	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.11		0.018	0.0059	mg/Kg	1	☼	7471B	Total/NA
pH	8.5		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-167784-1	2815V-1-B05 (0-5)	Solid	08/05/19 09:35	08/05/19 14:55	
500-167784-2	2815V-1-B05 (0-5) Dup	Solid	08/05/19 09:40	08/05/19 14:55	
500-167784-3	2815V-1-B05 (5-7)	Solid	08/05/19 09:45	08/05/19 14:55	
500-167784-4	2815V-1-B06 (0-5)	Solid	08/05/19 10:20	08/05/19 14:55	
500-167784-5	2815V-1-B06 (5-10)	Solid	08/05/19 10:25	08/05/19 14:55	
500-167784-6	2815V-1-B06 (10-13.5)	Solid	08/05/19 10:30	08/05/19 14:55	
500-167784-7	2815V-1-B07 (0-5)	Solid	08/05/19 11:05	08/05/19 14:55	
500-167784-8	2815V-1-B07 (5-10)	Solid	08/05/19 11:10	08/05/19 14:55	
500-167784-9	2815V-1-B07 (10-13.5)	Solid	08/05/19 11:15	08/05/19 14:55	
500-167784-10	2815V-1-B08 (0-5)	Solid	08/05/19 11:50	08/05/19 14:55	
500-167784-11	2815V-1-B08 (5-10)	Solid	08/05/19 12:00	08/05/19 14:55	
500-167784-12	2815V-1-B09 (0-5)	Solid	08/05/19 12:30	08/05/19 14:55	
500-167784-13	2815V-1-B09 (0-5) Dup	Solid	08/05/19 12:35	08/05/19 14:55	
500-167784-14	2815V-1-B09 (5-7)	Solid	08/05/19 12:40	08/05/19 14:55	
500-167784-15	2815V-1-B10 (0-4)	Solid	08/05/19 13:00	08/05/19 14:55	
500-167784-16	2815V-1-B11 (0-4.5)	Solid	08/05/19 13:20	08/05/19 14:55	

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B05 (0-5)

Lab Sample ID: 500-167784-1

Date Collected: 08/05/19 09:35

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 93.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0084	*	0.019	0.0084	mg/Kg	☼	08/05/19 15:50	08/07/19 12:25	1
Benzene	<0.00049		0.0019	0.00049	mg/Kg	☼	08/05/19 15:50	08/07/19 12:25	1
Bromodichloromethane	<0.00039		0.0019	0.00039	mg/Kg	☼	08/05/19 15:50	08/07/19 12:25	1
Bromoform	<0.00056		0.0019	0.00056	mg/Kg	☼	08/05/19 15:50	08/07/19 12:25	1
Bromomethane	<0.0018		0.0048	0.0018	mg/Kg	☼	08/05/19 15:50	08/07/19 12:25	1
2-Butanone (MEK)	<0.0021	*	0.0048	0.0021	mg/Kg	☼	08/05/19 15:50	08/07/19 12:25	1
Carbon disulfide	<0.0010		0.0048	0.0010	mg/Kg	☼	08/05/19 15:50	08/07/19 12:25	1
Carbon tetrachloride	<0.00056		0.0019	0.00056	mg/Kg	☼	08/05/19 15:50	08/07/19 12:25	1
Chlorobenzene	<0.00071		0.0019	0.00071	mg/Kg	☼	08/05/19 15:50	08/07/19 12:25	1
Chloroethane	<0.0014	*	0.0048	0.0014	mg/Kg	☼	08/05/19 15:50	08/07/19 12:25	1
Chloroform	<0.00067		0.0019	0.00067	mg/Kg	☼	08/05/19 15:50	08/07/19 12:25	1
Chloromethane	<0.0019		0.0048	0.0019	mg/Kg	☼	08/05/19 15:50	08/07/19 12:25	1
cis-1,2-Dichloroethene	<0.00054		0.0019	0.00054	mg/Kg	☼	08/05/19 15:50	08/07/19 12:25	1
cis-1,3-Dichloropropene	<0.00058		0.0019	0.00058	mg/Kg	☼	08/05/19 15:50	08/07/19 12:25	1
Dibromochloromethane	<0.00063		0.0019	0.00063	mg/Kg	☼	08/05/19 15:50	08/07/19 12:25	1
1,1-Dichloroethane	<0.00066		0.0019	0.00066	mg/Kg	☼	08/05/19 15:50	08/07/19 12:25	1
1,2-Dichloroethane	<0.0015		0.0048	0.0015	mg/Kg	☼	08/05/19 15:50	08/07/19 12:25	1
1,1-Dichloroethene	<0.00066		0.0019	0.00066	mg/Kg	☼	08/05/19 15:50	08/07/19 12:25	1
1,2-Dichloropropane	<0.00050		0.0019	0.00050	mg/Kg	☼	08/05/19 15:50	08/07/19 12:25	1
1,3-Dichloropropane, Total	<0.00067		0.0019	0.00067	mg/Kg	☼	08/05/19 15:50	08/07/19 12:25	1
Ethylbenzene	<0.00092		0.0019	0.00092	mg/Kg	☼	08/05/19 15:50	08/07/19 12:25	1
2-Hexanone	<0.0015		0.0048	0.0015	mg/Kg	☼	08/05/19 15:50	08/07/19 12:25	1
Methylene Chloride	<0.0019		0.0048	0.0019	mg/Kg	☼	08/05/19 15:50	08/07/19 12:25	1
4-Methyl-2-pentanone (MIBK)	<0.0014		0.0048	0.0014	mg/Kg	☼	08/05/19 15:50	08/07/19 12:25	1
Methyl tert-butyl ether	<0.00056		0.0019	0.00056	mg/Kg	☼	08/05/19 15:50	08/07/19 12:25	1
Styrene	<0.00058		0.0019	0.00058	mg/Kg	☼	08/05/19 15:50	08/07/19 12:25	1
1,1,2,2-Tetrachloroethane	<0.00061		0.0019	0.00061	mg/Kg	☼	08/05/19 15:50	08/07/19 12:25	1
Tetrachloroethene	<0.00065		0.0019	0.00065	mg/Kg	☼	08/05/19 15:50	08/07/19 12:25	1
Toluene	<0.00048		0.0019	0.00048	mg/Kg	☼	08/05/19 15:50	08/07/19 12:25	1
trans-1,2-Dichloroethene	<0.00085		0.0019	0.00085	mg/Kg	☼	08/05/19 15:50	08/07/19 12:25	1
trans-1,3-Dichloropropene	<0.00067		0.0019	0.00067	mg/Kg	☼	08/05/19 15:50	08/07/19 12:25	1
1,1,1-Trichloroethane	<0.00064		0.0019	0.00064	mg/Kg	☼	08/05/19 15:50	08/07/19 12:25	1
1,1,2-Trichloroethane	<0.00082		0.0019	0.00082	mg/Kg	☼	08/05/19 15:50	08/07/19 12:25	1
Trichloroethene	<0.00065		0.0019	0.00065	mg/Kg	☼	08/05/19 15:50	08/07/19 12:25	1
Vinyl acetate	<0.0017		0.0048	0.0017	mg/Kg	☼	08/05/19 15:50	08/07/19 12:25	1
Vinyl chloride	<0.00085		0.0019	0.00085	mg/Kg	☼	08/05/19 15:50	08/07/19 12:25	1
Xylenes, Total	<0.00061		0.0038	0.00061	mg/Kg	☼	08/05/19 15:50	08/07/19 12:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		75 - 131	08/05/19 15:50	08/07/19 12:25	1
Dibromofluoromethane	98		75 - 126	08/05/19 15:50	08/07/19 12:25	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	08/05/19 15:50	08/07/19 12:25	1
Toluene-d8 (Surr)	96		75 - 124	08/05/19 15:50	08/07/19 12:25	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0064		0.035	0.0064	mg/Kg	☼	08/07/19 07:34	08/08/19 22:10	1
Acenaphthylene	0.0078	J	0.035	0.0047	mg/Kg	☼	08/07/19 07:34	08/08/19 22:10	1
Anthracene	0.0082	J F1	0.035	0.0059	mg/Kg	☼	08/07/19 07:34	08/08/19 22:10	1
Benzo[a]anthracene	0.061		0.035	0.0048	mg/Kg	☼	08/07/19 07:34	08/08/19 22:10	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B05 (0-5)

Lab Sample ID: 500-167784-1

Date Collected: 08/05/19 09:35

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 93.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.088		0.035	0.0069	mg/Kg	☼	08/07/19 07:34	08/08/19 22:10	1
Benzo[b]fluoranthene	0.13		0.035	0.0077	mg/Kg	☼	08/07/19 07:34	08/08/19 22:10	1
Benzo[g,h,i]perylene	0.043	F1	0.035	0.011	mg/Kg	☼	08/07/19 07:34	08/08/19 22:10	1
Benzo[k]fluoranthene	0.038	F1	0.035	0.010	mg/Kg	☼	08/07/19 07:34	08/08/19 22:10	1
Bis(2-chloroethoxy)methane	<0.036		0.18	0.036	mg/Kg	☼	08/07/19 07:34	08/08/19 22:10	1
Bis(2-chloroethyl)ether	<0.053		0.18	0.053	mg/Kg	☼	08/07/19 07:34	08/08/19 22:10	1
Bis(2-ethylhexyl) phthalate	<0.065	F1	0.18	0.065	mg/Kg	☼	08/07/19 07:34	08/08/19 22:10	1
4-Bromophenyl phenyl ether	<0.047		0.18	0.047	mg/Kg	☼	08/07/19 07:34	08/08/19 22:10	1
Butyl benzyl phthalate	<0.068	F1	0.18	0.068	mg/Kg	☼	08/07/19 07:34	08/08/19 22:10	1
Carbazole	<0.089		0.18	0.089	mg/Kg	☼	08/07/19 07:34	08/08/19 22:10	1
4-Chloroaniline	<0.17		0.72	0.17	mg/Kg	☼	08/07/19 07:34	08/08/19 22:10	1
4-Chloro-3-methylphenol	<0.12		0.35	0.12	mg/Kg	☼	08/07/19 07:34	08/08/19 22:10	1
2-Chloronaphthalene	<0.039		0.18	0.039	mg/Kg	☼	08/07/19 07:34	08/08/19 22:10	1
2-Chlorophenol	<0.061		0.18	0.061	mg/Kg	☼	08/07/19 07:34	08/08/19 22:10	1
4-Chlorophenyl phenyl ether	<0.042		0.18	0.042	mg/Kg	☼	08/07/19 07:34	08/08/19 22:10	1
Chrysene	0.073		0.035	0.0097	mg/Kg	☼	08/07/19 07:34	08/08/19 22:10	1
Dibenz(a,h)anthracene	<0.0069	F1	0.035	0.0069	mg/Kg	☼	08/07/19 07:34	08/08/19 22:10	1
Dibenzofuran	<0.042	F1	0.18	0.042	mg/Kg	☼	08/07/19 07:34	08/08/19 22:10	1
1,2-Dichlorobenzene	<0.042		0.18	0.042	mg/Kg	☼	08/07/19 07:34	08/08/19 22:10	1
1,3-Dichlorobenzene	<0.040		0.18	0.040	mg/Kg	☼	08/07/19 07:34	08/08/19 22:10	1
1,4-Dichlorobenzene	<0.046		0.18	0.046	mg/Kg	☼	08/07/19 07:34	08/08/19 22:10	1
3,3'-Dichlorobenzidine	<0.050		0.18	0.050	mg/Kg	☼	08/07/19 07:34	08/08/19 22:10	1
2,4-Dichlorophenol	<0.084		0.35	0.084	mg/Kg	☼	08/07/19 07:34	08/08/19 22:10	1
Diethyl phthalate	<0.060	F1	0.18	0.060	mg/Kg	☼	08/07/19 07:34	08/08/19 22:10	1
2,4-Dimethylphenol	<0.13		0.35	0.13	mg/Kg	☼	08/07/19 07:34	08/08/19 22:10	1
Dimethyl phthalate	<0.046		0.18	0.046	mg/Kg	☼	08/07/19 07:34	08/08/19 22:10	1
Di-n-butyl phthalate	<0.054	F1	0.18	0.054	mg/Kg	☼	08/07/19 07:34	08/08/19 22:10	1
4,6-Dinitro-2-methylphenol	<0.29		0.72	0.29	mg/Kg	☼	08/07/19 07:34	08/08/19 22:10	1
2,4-Dinitrophenol	<0.63	F1	0.72	0.63	mg/Kg	☼	08/07/19 07:34	08/08/19 22:10	1
2,4-Dinitrotoluene	<0.057		0.18	0.057	mg/Kg	☼	08/07/19 07:34	08/08/19 22:10	1
2,6-Dinitrotoluene	<0.070		0.18	0.070	mg/Kg	☼	08/07/19 07:34	08/08/19 22:10	1
Di-n-octyl phthalate	<0.058		0.18	0.058	mg/Kg	☼	08/07/19 07:34	08/08/19 22:10	1
Fluoranthene	0.090		0.035	0.0066	mg/Kg	☼	08/07/19 07:34	08/08/19 22:10	1
Fluorene	<0.0050		0.035	0.0050	mg/Kg	☼	08/07/19 07:34	08/08/19 22:10	1
Hexachlorobenzene	<0.0082		0.072	0.0082	mg/Kg	☼	08/07/19 07:34	08/08/19 22:10	1
Hexachlorobutadiene	<0.056		0.18	0.056	mg/Kg	☼	08/07/19 07:34	08/08/19 22:10	1
Hexachlorocyclopentadiene	<0.20	F1	0.72	0.20	mg/Kg	☼	08/07/19 07:34	08/08/19 22:10	1
Hexachloroethane	<0.054	F1	0.18	0.054	mg/Kg	☼	08/07/19 07:34	08/08/19 22:10	1
Indeno[1,2,3-cd]pyrene	0.046	F1	0.035	0.0092	mg/Kg	☼	08/07/19 07:34	08/08/19 22:10	1
Isophorone	<0.040		0.18	0.040	mg/Kg	☼	08/07/19 07:34	08/08/19 22:10	1
2-Methylnaphthalene	<0.0065		0.072	0.0065	mg/Kg	☼	08/07/19 07:34	08/08/19 22:10	1
2-Methylphenol	<0.057		0.18	0.057	mg/Kg	☼	08/07/19 07:34	08/08/19 22:10	1
3 & 4 Methylphenol	<0.059		0.18	0.059	mg/Kg	☼	08/07/19 07:34	08/08/19 22:10	1
Naphthalene	<0.0055		0.035	0.0055	mg/Kg	☼	08/07/19 07:34	08/08/19 22:10	1
2-Nitroaniline	<0.048		0.18	0.048	mg/Kg	☼	08/07/19 07:34	08/08/19 22:10	1
3-Nitroaniline	<0.11		0.35	0.11	mg/Kg	☼	08/07/19 07:34	08/08/19 22:10	1
4-Nitroaniline	<0.15		0.35	0.15	mg/Kg	☼	08/07/19 07:34	08/08/19 22:10	1
Nitrobenzene	<0.0089		0.035	0.0089	mg/Kg	☼	08/07/19 07:34	08/08/19 22:10	1
2-Nitrophenol	<0.084		0.35	0.084	mg/Kg	☼	08/07/19 07:34	08/08/19 22:10	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B05 (0-5)

Lab Sample ID: 500-167784-1

Date Collected: 08/05/19 09:35

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 93.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.34	F1	0.72	0.34	mg/Kg	☼	08/07/19 07:34	08/08/19 22:10	1
N-Nitrosodi-n-propylamine	<0.043		0.072	0.043	mg/Kg	☼	08/07/19 07:34	08/08/19 22:10	1
N-Nitrosodiphenylamine	<0.042	F1	0.18	0.042	mg/Kg	☼	08/07/19 07:34	08/08/19 22:10	1
2,2'-oxybis[1-chloropropane]	<0.041		0.18	0.041	mg/Kg	☼	08/07/19 07:34	08/08/19 22:10	1
Pentachlorophenol	<0.57		0.72	0.57	mg/Kg	☼	08/07/19 07:34	08/08/19 22:10	1
Phenanthrene	0.040		0.035	0.0050	mg/Kg	☼	08/07/19 07:34	08/08/19 22:10	1
Phenol	<0.079		0.18	0.079	mg/Kg	☼	08/07/19 07:34	08/08/19 22:10	1
Pyrene	0.14	F1	0.035	0.0071	mg/Kg	☼	08/07/19 07:34	08/08/19 22:10	1
1,2,4-Trichlorobenzene	<0.038		0.18	0.038	mg/Kg	☼	08/07/19 07:34	08/08/19 22:10	1
2,4,5-Trichlorophenol	<0.081		0.35	0.081	mg/Kg	☼	08/07/19 07:34	08/08/19 22:10	1
2,4,6-Trichlorophenol	<0.12		0.35	0.12	mg/Kg	☼	08/07/19 07:34	08/08/19 22:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	85		43 - 145				08/07/19 07:34	08/08/19 22:10	1
2-Fluorophenol	78		31 - 166				08/07/19 07:34	08/08/19 22:10	1
Nitrobenzene-d5	68		37 - 147				08/07/19 07:34	08/08/19 22:10	1
Phenol-d5	69		30 - 153				08/07/19 07:34	08/08/19 22:10	1
Terphenyl-d14	138		42 - 157				08/07/19 07:34	08/08/19 22:10	1
2,4,6-Tribromophenol	105		31 - 143				08/07/19 07:34	08/08/19 22:10	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.62	J F1	1.0	0.20	mg/Kg	☼	08/07/19 07:49	08/08/19 00:29	1
Arsenic	3.7		0.51	0.17	mg/Kg	☼	08/07/19 07:49	08/08/19 00:29	1
Barium	33		0.51	0.058	mg/Kg	☼	08/07/19 07:49	08/08/19 00:29	1
Beryllium	0.28		0.20	0.047	mg/Kg	☼	08/07/19 07:49	08/08/19 00:29	1
Cadmium	0.29	B	0.10	0.018	mg/Kg	☼	08/07/19 07:49	08/08/19 00:29	1
Chromium	6.7		0.51	0.25	mg/Kg	☼	08/07/19 07:49	08/08/19 00:29	1
Cobalt	4.3		0.25	0.067	mg/Kg	☼	08/07/19 07:49	08/08/19 00:29	1
Copper	19	F1	0.51	0.14	mg/Kg	☼	08/07/19 07:49	08/08/19 00:29	1
Iron	6900		10	5.3	mg/Kg	☼	08/07/19 07:49	08/08/19 00:29	1
Lead	60		0.25	0.12	mg/Kg	☼	08/07/19 07:49	08/08/19 00:29	1
Magnesium	89000	B	25	13	mg/Kg	☼	08/07/19 07:49	08/08/19 11:01	5
Calcium	130000	B	51	8.6	mg/Kg	☼	08/07/19 07:49	08/08/19 11:01	5
Manganese	260		0.51	0.074	mg/Kg	☼	08/07/19 07:49	08/08/19 00:29	1
Nickel	9.2		0.51	0.15	mg/Kg	☼	08/07/19 07:49	08/08/19 00:29	1
Selenium	0.34	J	0.51	0.30	mg/Kg	☼	08/07/19 07:49	08/08/19 00:29	1
Silver	1.0		0.25	0.066	mg/Kg	☼	08/07/19 07:49	08/08/19 00:29	1
Thallium	<0.25		0.51	0.25	mg/Kg	☼	08/07/19 07:49	08/08/19 00:29	1
Vanadium	9.9		0.25	0.060	mg/Kg	☼	08/07/19 07:49	08/08/19 00:29	1
Zinc	50	F1	1.0	0.45	mg/Kg	☼	08/07/19 07:49	08/08/19 00:29	1
Potassium	970	F1	25	9.0	mg/Kg	☼	08/07/19 07:49	08/08/19 00:29	1
Sodium	150		51	7.5	mg/Kg	☼	08/07/19 07:49	08/08/19 00:29	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/08/19 14:42	08/10/19 07:02	1
Barium	0.23	J	0.50	0.050	mg/L		08/08/19 14:42	08/10/19 07:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/08/19 14:42	08/10/19 07:02	1
Cadmium	0.0026	J	0.0050	0.0020	mg/L		08/08/19 14:42	08/10/19 07:02	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B05 (0-5)

Lab Sample ID: 500-167784-1

Date Collected: 08/05/19 09:35

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 93.2

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	200		5.0	0.50	mg/L		08/08/19 14:42	08/10/19 07:02	1
Chromium	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:02	1
Cobalt	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:02	1
Copper	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:02	1
Iron	<0.20		0.40	0.20	mg/L		08/08/19 14:42	08/10/19 07:02	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/08/19 14:42	08/10/19 07:02	1
Magnesium	92		2.5	0.50	mg/L		08/08/19 14:42	08/10/19 07:02	1
Manganese	0.053		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:02	1
Nickel	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:02	1
Potassium	1.3 J		2.5	0.50	mg/L		08/08/19 14:42	08/10/19 07:02	1
Selenium	<0.020		0.050	0.020	mg/L		08/08/19 14:42	08/10/19 07:02	1
Silver	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:02	1
Vanadium	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:02	1
Zinc	0.042 J		0.50	0.020	mg/L		08/08/19 14:42	08/10/19 07:02	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/08/19 14:42	08/09/19 13:54	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/08/19 14:42	08/09/19 13:54	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/09/19 10:05	08/09/19 16:11	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.010 J		0.017	0.0055	mg/Kg	☼	08/07/19 11:20	08/08/19 08:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.25		0.49	0.25	mg/Kg	☼	08/15/19 10:25	08/15/19 15:09	1
pH	8.9		0.2	0.2	SU			08/06/19 13:00	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B05 (0-5) Dup

Lab Sample ID: 500-167784-2

Date Collected: 08/05/19 09:40

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 92.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0077	*	0.018	0.0077	mg/Kg	☼	08/05/19 15:50	08/07/19 12:51	1
Benzene	<0.00045		0.0018	0.00045	mg/Kg	☼	08/05/19 15:50	08/07/19 12:51	1
Bromodichloromethane	<0.00036		0.0018	0.00036	mg/Kg	☼	08/05/19 15:50	08/07/19 12:51	1
Bromoform	<0.00052		0.0018	0.00052	mg/Kg	☼	08/05/19 15:50	08/07/19 12:51	1
Bromomethane	<0.0017		0.0044	0.0017	mg/Kg	☼	08/05/19 15:50	08/07/19 12:51	1
2-Butanone (MEK)	<0.0020	*	0.0044	0.0020	mg/Kg	☼	08/05/19 15:50	08/07/19 12:51	1
Carbon disulfide	<0.00092		0.0044	0.00092	mg/Kg	☼	08/05/19 15:50	08/07/19 12:51	1
Carbon tetrachloride	<0.00052		0.0018	0.00052	mg/Kg	☼	08/05/19 15:50	08/07/19 12:51	1
Chlorobenzene	<0.00066		0.0018	0.00066	mg/Kg	☼	08/05/19 15:50	08/07/19 12:51	1
Chloroethane	<0.0013	*	0.0044	0.0013	mg/Kg	☼	08/05/19 15:50	08/07/19 12:51	1
Chloroform	<0.00062		0.0018	0.00062	mg/Kg	☼	08/05/19 15:50	08/07/19 12:51	1
Chloromethane	<0.0018		0.0044	0.0018	mg/Kg	☼	08/05/19 15:50	08/07/19 12:51	1
cis-1,2-Dichloroethene	<0.00050		0.0018	0.00050	mg/Kg	☼	08/05/19 15:50	08/07/19 12:51	1
cis-1,3-Dichloropropene	<0.00054		0.0018	0.00054	mg/Kg	☼	08/05/19 15:50	08/07/19 12:51	1
Dibromochloromethane	<0.00058		0.0018	0.00058	mg/Kg	☼	08/05/19 15:50	08/07/19 12:51	1
1,1-Dichloroethane	<0.00061		0.0018	0.00061	mg/Kg	☼	08/05/19 15:50	08/07/19 12:51	1
1,2-Dichloroethane	<0.0014		0.0044	0.0014	mg/Kg	☼	08/05/19 15:50	08/07/19 12:51	1
1,1-Dichloroethene	<0.00061		0.0018	0.00061	mg/Kg	☼	08/05/19 15:50	08/07/19 12:51	1
1,2-Dichloropropane	<0.00046		0.0018	0.00046	mg/Kg	☼	08/05/19 15:50	08/07/19 12:51	1
1,3-Dichloropropane, Total	<0.00062		0.0018	0.00062	mg/Kg	☼	08/05/19 15:50	08/07/19 12:51	1
Ethylbenzene	<0.00085		0.0018	0.00085	mg/Kg	☼	08/05/19 15:50	08/07/19 12:51	1
2-Hexanone	<0.0014		0.0044	0.0014	mg/Kg	☼	08/05/19 15:50	08/07/19 12:51	1
Methylene Chloride	<0.0018		0.0044	0.0018	mg/Kg	☼	08/05/19 15:50	08/07/19 12:51	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0044	0.0013	mg/Kg	☼	08/05/19 15:50	08/07/19 12:51	1
Methyl tert-butyl ether	<0.00052		0.0018	0.00052	mg/Kg	☼	08/05/19 15:50	08/07/19 12:51	1
Styrene	<0.00054		0.0018	0.00054	mg/Kg	☼	08/05/19 15:50	08/07/19 12:51	1
1,1,2,2-Tetrachloroethane	<0.00057		0.0018	0.00057	mg/Kg	☼	08/05/19 15:50	08/07/19 12:51	1
Tetrachloroethene	<0.00061		0.0018	0.00061	mg/Kg	☼	08/05/19 15:50	08/07/19 12:51	1
Toluene	<0.00045		0.0018	0.00045	mg/Kg	☼	08/05/19 15:50	08/07/19 12:51	1
trans-1,2-Dichloroethene	<0.00079		0.0018	0.00079	mg/Kg	☼	08/05/19 15:50	08/07/19 12:51	1
trans-1,3-Dichloropropene	<0.00062		0.0018	0.00062	mg/Kg	☼	08/05/19 15:50	08/07/19 12:51	1
1,1,1-Trichloroethane	<0.00060		0.0018	0.00060	mg/Kg	☼	08/05/19 15:50	08/07/19 12:51	1
1,1,2-Trichloroethane	<0.00076		0.0018	0.00076	mg/Kg	☼	08/05/19 15:50	08/07/19 12:51	1
Trichloroethene	<0.00060		0.0018	0.00060	mg/Kg	☼	08/05/19 15:50	08/07/19 12:51	1
Vinyl acetate	<0.0015		0.0044	0.0015	mg/Kg	☼	08/05/19 15:50	08/07/19 12:51	1
Vinyl chloride	<0.00079		0.0018	0.00079	mg/Kg	☼	08/05/19 15:50	08/07/19 12:51	1
Xylenes, Total	<0.00057		0.0036	0.00057	mg/Kg	☼	08/05/19 15:50	08/07/19 12:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		75 - 131	08/05/19 15:50	08/07/19 12:51	1
Dibromofluoromethane	97		75 - 126	08/05/19 15:50	08/07/19 12:51	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	08/05/19 15:50	08/07/19 12:51	1
Toluene-d8 (Surr)	94		75 - 124	08/05/19 15:50	08/07/19 12:51	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0063		0.035	0.0063	mg/Kg	☼	08/07/19 07:34	08/12/19 20:46	1
Acenaphthylene	0.0059	J	0.035	0.0046	mg/Kg	☼	08/07/19 07:34	08/12/19 20:46	1
Anthracene	0.013	J	0.035	0.0058	mg/Kg	☼	08/07/19 07:34	08/12/19 20:46	1
Benzo[a]anthracene	0.084		0.035	0.0047	mg/Kg	☼	08/07/19 07:34	08/12/19 20:46	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B05 (0-5) Dup

Lab Sample ID: 500-167784-2

Date Collected: 08/05/19 09:40

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 92.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.12		0.035	0.0068	mg/Kg	☼	08/07/19 07:34	08/12/19 20:46	1
Benzo[b]fluoranthene	0.17		0.035	0.0075	mg/Kg	☼	08/07/19 07:34	08/12/19 20:46	1
Benzo[g,h,i]perylene	0.059		0.035	0.011	mg/Kg	☼	08/07/19 07:34	08/12/19 20:46	1
Benzo[k]fluoranthene	0.057		0.035	0.010	mg/Kg	☼	08/07/19 07:34	08/12/19 20:46	1
Bis(2-chloroethoxy)methane	<0.036		0.18	0.036	mg/Kg	☼	08/07/19 07:34	08/12/19 20:46	1
Bis(2-chloroethyl)ether	<0.052		0.18	0.052	mg/Kg	☼	08/07/19 07:34	08/12/19 20:46	1
Bis(2-ethylhexyl) phthalate	<0.064		0.18	0.064	mg/Kg	☼	08/07/19 07:34	08/12/19 20:46	1
4-Bromophenyl phenyl ether	<0.046		0.18	0.046	mg/Kg	☼	08/07/19 07:34	08/12/19 20:46	1
Butyl benzyl phthalate	<0.066		0.18	0.066	mg/Kg	☼	08/07/19 07:34	08/12/19 20:46	1
Carbazole	<0.087		0.18	0.087	mg/Kg	☼	08/07/19 07:34	08/12/19 20:46	1
4-Chloroaniline	<0.16		0.70	0.16	mg/Kg	☼	08/07/19 07:34	08/12/19 20:46	1
4-Chloro-3-methylphenol	<0.12		0.35	0.12	mg/Kg	☼	08/07/19 07:34	08/12/19 20:46	1
2-Chloronaphthalene	<0.039		0.18	0.039	mg/Kg	☼	08/07/19 07:34	08/12/19 20:46	1
2-Chlorophenol	<0.060		0.18	0.060	mg/Kg	☼	08/07/19 07:34	08/12/19 20:46	1
4-Chlorophenyl phenyl ether	<0.041		0.18	0.041	mg/Kg	☼	08/07/19 07:34	08/12/19 20:46	1
Chrysene	0.12		0.035	0.0095	mg/Kg	☼	08/07/19 07:34	08/12/19 20:46	1
Dibenz(a,h)anthracene	0.016 J		0.035	0.0067	mg/Kg	☼	08/07/19 07:34	08/12/19 20:46	1
Dibenzofuran	<0.041		0.18	0.041	mg/Kg	☼	08/07/19 07:34	08/12/19 20:46	1
1,2-Dichlorobenzene	<0.042		0.18	0.042	mg/Kg	☼	08/07/19 07:34	08/12/19 20:46	1
1,3-Dichlorobenzene	<0.039		0.18	0.039	mg/Kg	☼	08/07/19 07:34	08/12/19 20:46	1
1,4-Dichlorobenzene	<0.045		0.18	0.045	mg/Kg	☼	08/07/19 07:34	08/12/19 20:46	1
3,3'-Dichlorobenzidine	<0.049		0.18	0.049	mg/Kg	☼	08/07/19 07:34	08/12/19 20:46	1
2,4-Dichlorophenol	<0.083		0.35	0.083	mg/Kg	☼	08/07/19 07:34	08/12/19 20:46	1
Diethyl phthalate	<0.059		0.18	0.059	mg/Kg	☼	08/07/19 07:34	08/12/19 20:46	1
2,4-Dimethylphenol	<0.13		0.35	0.13	mg/Kg	☼	08/07/19 07:34	08/12/19 20:46	1
Dimethyl phthalate	<0.046		0.18	0.046	mg/Kg	☼	08/07/19 07:34	08/12/19 20:46	1
Di-n-butyl phthalate	<0.053		0.18	0.053	mg/Kg	☼	08/07/19 07:34	08/12/19 20:46	1
4,6-Dinitro-2-methylphenol	<0.28		0.70	0.28	mg/Kg	☼	08/07/19 07:34	08/12/19 20:46	1
2,4-Dinitrophenol	<0.61		0.70	0.61	mg/Kg	☼	08/07/19 07:34	08/12/19 20:46	1
2,4-Dinitrotoluene	<0.056		0.18	0.056	mg/Kg	☼	08/07/19 07:34	08/12/19 20:46	1
2,6-Dinitrotoluene	<0.069		0.18	0.069	mg/Kg	☼	08/07/19 07:34	08/12/19 20:46	1
Di-n-octyl phthalate	<0.057		0.18	0.057	mg/Kg	☼	08/07/19 07:34	08/12/19 20:46	1
Fluoranthene	0.18		0.035	0.0065	mg/Kg	☼	08/07/19 07:34	08/12/19 20:46	1
Fluorene	<0.0049		0.035	0.0049	mg/Kg	☼	08/07/19 07:34	08/12/19 20:46	1
Hexachlorobenzene	<0.0081		0.070	0.0081	mg/Kg	☼	08/07/19 07:34	08/12/19 20:46	1
Hexachlorobutadiene	<0.055		0.18	0.055	mg/Kg	☼	08/07/19 07:34	08/12/19 20:46	1
Hexachlorocyclopentadiene	<0.20		0.70	0.20	mg/Kg	☼	08/07/19 07:34	08/12/19 20:46	1
Hexachloroethane	<0.053		0.18	0.053	mg/Kg	☼	08/07/19 07:34	08/12/19 20:46	1
Indeno[1,2,3-cd]pyrene	0.046		0.035	0.0091	mg/Kg	☼	08/07/19 07:34	08/12/19 20:46	1
Isophorone	<0.039		0.18	0.039	mg/Kg	☼	08/07/19 07:34	08/12/19 20:46	1
2-Methylnaphthalene	<0.0064		0.070	0.0064	mg/Kg	☼	08/07/19 07:34	08/12/19 20:46	1
2-Methylphenol	<0.056		0.18	0.056	mg/Kg	☼	08/07/19 07:34	08/12/19 20:46	1
3 & 4 Methylphenol	<0.058		0.18	0.058	mg/Kg	☼	08/07/19 07:34	08/12/19 20:46	1
Naphthalene	<0.0054		0.035	0.0054	mg/Kg	☼	08/07/19 07:34	08/12/19 20:46	1
2-Nitroaniline	<0.047		0.18	0.047	mg/Kg	☼	08/07/19 07:34	08/12/19 20:46	1
3-Nitroaniline	<0.11		0.35	0.11	mg/Kg	☼	08/07/19 07:34	08/12/19 20:46	1
4-Nitroaniline	<0.15		0.35	0.15	mg/Kg	☼	08/07/19 07:34	08/12/19 20:46	1
Nitrobenzene	<0.0087		0.035	0.0087	mg/Kg	☼	08/07/19 07:34	08/12/19 20:46	1
2-Nitrophenol	<0.083		0.35	0.083	mg/Kg	☼	08/07/19 07:34	08/12/19 20:46	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B05 (0-5) Dup

Lab Sample ID: 500-167784-2

Date Collected: 08/05/19 09:40

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 92.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.33		0.70	0.33	mg/Kg	☼	08/07/19 07:34	08/12/19 20:46	1
N-Nitrosodi-n-propylamine	<0.043		0.070	0.043	mg/Kg	☼	08/07/19 07:34	08/12/19 20:46	1
N-Nitrosodiphenylamine	<0.041		0.18	0.041	mg/Kg	☼	08/07/19 07:34	08/12/19 20:46	1
2,2'-oxybis[1-chloropropane]	<0.040		0.18	0.040	mg/Kg	☼	08/07/19 07:34	08/12/19 20:46	1
Pentachlorophenol	<0.56		0.70	0.56	mg/Kg	☼	08/07/19 07:34	08/12/19 20:46	1
Phenanthrene	0.062		0.035	0.0049	mg/Kg	☼	08/07/19 07:34	08/12/19 20:46	1
Phenol	<0.078		0.18	0.078	mg/Kg	☼	08/07/19 07:34	08/12/19 20:46	1
Pyrene	0.17		0.035	0.0069	mg/Kg	☼	08/07/19 07:34	08/12/19 20:46	1
1,2,4-Trichlorobenzene	<0.038		0.18	0.038	mg/Kg	☼	08/07/19 07:34	08/12/19 20:46	1
2,4,5-Trichlorophenol	<0.080		0.35	0.080	mg/Kg	☼	08/07/19 07:34	08/12/19 20:46	1
2,4,6-Trichlorophenol	<0.12		0.35	0.12	mg/Kg	☼	08/07/19 07:34	08/12/19 20:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	89		43 - 145				08/07/19 07:34	08/12/19 20:46	1
2-Fluorophenol	106		31 - 166				08/07/19 07:34	08/12/19 20:46	1
Nitrobenzene-d5	70		37 - 147				08/07/19 07:34	08/12/19 20:46	1
Phenol-d5	98		30 - 153				08/07/19 07:34	08/12/19 20:46	1
Terphenyl-d14	139		42 - 157				08/07/19 07:34	08/12/19 20:46	1
2,4,6-Tribromophenol	78		31 - 143				08/07/19 07:34	08/12/19 20:46	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.44	J	1.0	0.19	mg/Kg	☼	08/07/19 07:49	08/08/19 00:58	1
Arsenic	4.0		0.50	0.17	mg/Kg	☼	08/07/19 07:49	08/08/19 00:58	1
Barium	30		0.50	0.057	mg/Kg	☼	08/07/19 07:49	08/08/19 00:58	1
Beryllium	0.25		0.20	0.047	mg/Kg	☼	08/07/19 07:49	08/08/19 00:58	1
Cadmium	0.30	B	0.10	0.018	mg/Kg	☼	08/07/19 07:49	08/08/19 00:58	1
Chromium	6.5		0.50	0.25	mg/Kg	☼	08/07/19 07:49	08/08/19 00:58	1
Cobalt	4.6		0.25	0.066	mg/Kg	☼	08/07/19 07:49	08/08/19 00:58	1
Copper	12		0.50	0.14	mg/Kg	☼	08/07/19 07:49	08/08/19 00:58	1
Iron	7500		10	5.2	mg/Kg	☼	08/07/19 07:49	08/08/19 00:58	1
Lead	56		0.25	0.12	mg/Kg	☼	08/07/19 07:49	08/08/19 00:58	1
Magnesium	91000	B	25	12	mg/Kg	☼	08/07/19 07:49	08/08/19 11:21	5
Calcium	130000	B	50	8.5	mg/Kg	☼	08/07/19 07:49	08/08/19 11:21	5
Manganese	240		0.50	0.073	mg/Kg	☼	08/07/19 07:49	08/08/19 00:58	1
Nickel	9.1		0.50	0.15	mg/Kg	☼	08/07/19 07:49	08/08/19 00:58	1
Selenium	<0.29		0.50	0.29	mg/Kg	☼	08/07/19 07:49	08/08/19 00:58	1
Silver	1.0		0.25	0.065	mg/Kg	☼	08/07/19 07:49	08/08/19 00:58	1
Thallium	<0.25		0.50	0.25	mg/Kg	☼	08/07/19 07:49	08/08/19 00:58	1
Vanadium	9.2		0.25	0.059	mg/Kg	☼	08/07/19 07:49	08/08/19 00:58	1
Zinc	51		1.0	0.44	mg/Kg	☼	08/07/19 07:49	08/08/19 00:58	1
Potassium	910		25	8.9	mg/Kg	☼	08/07/19 07:49	08/08/19 00:58	1
Sodium	150		50	7.4	mg/Kg	☼	08/07/19 07:49	08/08/19 00:58	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/08/19 14:42	08/10/19 07:07	1
Barium	0.24	J	0.50	0.050	mg/L		08/08/19 14:42	08/10/19 07:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/08/19 14:42	08/10/19 07:07	1
Cadmium	0.0020	J	0.0050	0.0020	mg/L		08/08/19 14:42	08/10/19 07:07	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B05 (0-5) Dup

Lab Sample ID: 500-167784-2

Date Collected: 08/05/19 09:40

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 92.7

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	200		5.0	0.50	mg/L		08/08/19 14:42	08/10/19 07:07	1
Chromium	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:07	1
Cobalt	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:07	1
Copper	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:07	1
Iron	<0.20		0.40	0.20	mg/L		08/08/19 14:42	08/10/19 07:07	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/08/19 14:42	08/10/19 07:07	1
Magnesium	97		2.5	0.50	mg/L		08/08/19 14:42	08/10/19 07:07	1
Manganese	0.029		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:07	1
Nickel	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:07	1
Potassium	1.6 J		2.5	0.50	mg/L		08/08/19 14:42	08/10/19 07:07	1
Selenium	<0.020		0.050	0.020	mg/L		08/08/19 14:42	08/10/19 07:07	1
Silver	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:07	1
Vanadium	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:07	1
Zinc	0.40 J		0.50	0.020	mg/L		08/08/19 14:42	08/10/19 07:07	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/08/19 14:42	08/09/19 13:58	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/08/19 14:42	08/09/19 13:58	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/09/19 10:05	08/09/19 16:13	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011 J		0.018	0.0059	mg/Kg	☼	08/07/19 11:20	08/08/19 08:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.23		0.47	0.23	mg/Kg	☼	08/15/19 10:25	08/15/19 15:09	1
pH	8.8		0.2	0.2	SU			08/06/19 13:04	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B05 (5-7)

Lab Sample ID: 500-167784-3

Date Collected: 08/05/19 09:45

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 96.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.010	J *	0.017	0.0075	mg/Kg	☼	08/05/19 15:50	08/07/19 13:17	1
Benzene	<0.00044		0.0017	0.00044	mg/Kg	☼	08/05/19 15:50	08/07/19 13:17	1
Bromodichloromethane	<0.00035		0.0017	0.00035	mg/Kg	☼	08/05/19 15:50	08/07/19 13:17	1
Bromoform	<0.00050		0.0017	0.00050	mg/Kg	☼	08/05/19 15:50	08/07/19 13:17	1
Bromomethane	<0.0016		0.0043	0.0016	mg/Kg	☼	08/05/19 15:50	08/07/19 13:17	1
2-Butanone (MEK)	<0.0019	*	0.0043	0.0019	mg/Kg	☼	08/05/19 15:50	08/07/19 13:17	1
Carbon disulfide	<0.00090		0.0043	0.00090	mg/Kg	☼	08/05/19 15:50	08/07/19 13:17	1
Carbon tetrachloride	<0.00050		0.0017	0.00050	mg/Kg	☼	08/05/19 15:50	08/07/19 13:17	1
Chlorobenzene	<0.00064		0.0017	0.00064	mg/Kg	☼	08/05/19 15:50	08/07/19 13:17	1
Chloroethane	<0.0013	*	0.0043	0.0013	mg/Kg	☼	08/05/19 15:50	08/07/19 13:17	1
Chloroform	<0.00060		0.0017	0.00060	mg/Kg	☼	08/05/19 15:50	08/07/19 13:17	1
Chloromethane	<0.0017		0.0043	0.0017	mg/Kg	☼	08/05/19 15:50	08/07/19 13:17	1
cis-1,2-Dichloroethene	<0.00048		0.0017	0.00048	mg/Kg	☼	08/05/19 15:50	08/07/19 13:17	1
cis-1,3-Dichloropropene	<0.00052		0.0017	0.00052	mg/Kg	☼	08/05/19 15:50	08/07/19 13:17	1
Dibromochloromethane	<0.00056		0.0017	0.00056	mg/Kg	☼	08/05/19 15:50	08/07/19 13:17	1
1,1-Dichloroethane	<0.00059		0.0017	0.00059	mg/Kg	☼	08/05/19 15:50	08/07/19 13:17	1
1,2-Dichloroethane	<0.0013		0.0043	0.0013	mg/Kg	☼	08/05/19 15:50	08/07/19 13:17	1
1,1-Dichloroethene	<0.00059		0.0017	0.00059	mg/Kg	☼	08/05/19 15:50	08/07/19 13:17	1
1,2-Dichloropropane	<0.00045		0.0017	0.00045	mg/Kg	☼	08/05/19 15:50	08/07/19 13:17	1
1,3-Dichloropropane, Total	<0.00060		0.0017	0.00060	mg/Kg	☼	08/05/19 15:50	08/07/19 13:17	1
Ethylbenzene	<0.00082		0.0017	0.00082	mg/Kg	☼	08/05/19 15:50	08/07/19 13:17	1
2-Hexanone	<0.0013		0.0043	0.0013	mg/Kg	☼	08/05/19 15:50	08/07/19 13:17	1
Methylene Chloride	<0.0017		0.0043	0.0017	mg/Kg	☼	08/05/19 15:50	08/07/19 13:17	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0043	0.0013	mg/Kg	☼	08/05/19 15:50	08/07/19 13:17	1
Methyl tert-butyl ether	<0.00051		0.0017	0.00051	mg/Kg	☼	08/05/19 15:50	08/07/19 13:17	1
Styrene	<0.00052		0.0017	0.00052	mg/Kg	☼	08/05/19 15:50	08/07/19 13:17	1
1,1,2,2-Tetrachloroethane	<0.00055		0.0017	0.00055	mg/Kg	☼	08/05/19 15:50	08/07/19 13:17	1
Tetrachloroethene	<0.00059		0.0017	0.00059	mg/Kg	☼	08/05/19 15:50	08/07/19 13:17	1
Toluene	<0.00043		0.0017	0.00043	mg/Kg	☼	08/05/19 15:50	08/07/19 13:17	1
trans-1,2-Dichloroethene	<0.00076		0.0017	0.00076	mg/Kg	☼	08/05/19 15:50	08/07/19 13:17	1
trans-1,3-Dichloropropene	<0.00060		0.0017	0.00060	mg/Kg	☼	08/05/19 15:50	08/07/19 13:17	1
1,1,1-Trichloroethane	<0.00058		0.0017	0.00058	mg/Kg	☼	08/05/19 15:50	08/07/19 13:17	1
1,1,2-Trichloroethane	<0.00074		0.0017	0.00074	mg/Kg	☼	08/05/19 15:50	08/07/19 13:17	1
Trichloroethene	<0.00058		0.0017	0.00058	mg/Kg	☼	08/05/19 15:50	08/07/19 13:17	1
Vinyl acetate	<0.0015		0.0043	0.0015	mg/Kg	☼	08/05/19 15:50	08/07/19 13:17	1
Vinyl chloride	<0.00076		0.0017	0.00076	mg/Kg	☼	08/05/19 15:50	08/07/19 13:17	1
Xylenes, Total	<0.00055		0.0034	0.00055	mg/Kg	☼	08/05/19 15:50	08/07/19 13:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		75 - 131	08/05/19 15:50	08/07/19 13:17	1
Dibromofluoromethane	96		75 - 126	08/05/19 15:50	08/07/19 13:17	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	08/05/19 15:50	08/07/19 13:17	1
Toluene-d8 (Surr)	91		75 - 124	08/05/19 15:50	08/07/19 13:17	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0062		0.034	0.0062	mg/Kg	☼	08/13/19 19:02	08/14/19 13:15	1
Acenaphthylene	<0.0046		0.034	0.0046	mg/Kg	☼	08/13/19 19:02	08/14/19 13:15	1
Anthracene	0.0059	J	0.034	0.0058	mg/Kg	☼	08/13/19 19:02	08/14/19 13:15	1
Benzo[a]anthracene	0.048		0.034	0.0046	mg/Kg	☼	08/13/19 19:02	08/14/19 13:15	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B05 (5-7)

Lab Sample ID: 500-167784-3

Date Collected: 08/05/19 09:45

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 96.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.065		0.034	0.0067	mg/Kg	☼	08/13/19 19:02	08/14/19 13:15	1
Benzo[b]fluoranthene	0.090		0.034	0.0075	mg/Kg	☼	08/13/19 19:02	08/14/19 13:15	1
Benzo[g,h,i]perylene	0.041		0.034	0.011	mg/Kg	☼	08/13/19 19:02	08/14/19 13:15	1
Benzo[k]fluoranthene	0.025	J	0.034	0.010	mg/Kg	☼	08/13/19 19:02	08/14/19 13:15	1
Bis(2-chloroethoxy)methane	<0.035		0.17	0.035	mg/Kg	☼	08/13/19 19:02	08/14/19 13:15	1
Bis(2-chloroethyl)ether	<0.052		0.17	0.052	mg/Kg	☼	08/13/19 19:02	08/14/19 13:15	1
Bis(2-ethylhexyl) phthalate	<0.063		0.17	0.063	mg/Kg	☼	08/13/19 19:02	08/14/19 13:15	1
4-Bromophenyl phenyl ether	<0.046		0.17	0.046	mg/Kg	☼	08/13/19 19:02	08/14/19 13:15	1
Butyl benzyl phthalate	<0.066		0.17	0.066	mg/Kg	☼	08/13/19 19:02	08/14/19 13:15	1
Carbazole	<0.086		0.17	0.086	mg/Kg	☼	08/13/19 19:02	08/14/19 13:15	1
4-Chloroaniline	<0.16		0.70	0.16	mg/Kg	☼	08/13/19 19:02	08/14/19 13:15	1
4-Chloro-3-methylphenol	<0.12		0.34	0.12	mg/Kg	☼	08/13/19 19:02	08/14/19 13:15	1
2-Chloronaphthalene	<0.038		0.17	0.038	mg/Kg	☼	08/13/19 19:02	08/14/19 13:15	1
2-Chlorophenol	<0.059		0.17	0.059	mg/Kg	☼	08/13/19 19:02	08/14/19 13:15	1
4-Chlorophenyl phenyl ether	<0.040		0.17	0.040	mg/Kg	☼	08/13/19 19:02	08/14/19 13:15	1
Chrysene	0.064		0.034	0.0094	mg/Kg	☼	08/13/19 19:02	08/14/19 13:15	1
Dibenz(a,h)anthracene	0.010	J	0.034	0.0067	mg/Kg	☼	08/13/19 19:02	08/14/19 13:15	1
Dibenzofuran	<0.040		0.17	0.040	mg/Kg	☼	08/13/19 19:02	08/14/19 13:15	1
1,2-Dichlorobenzene	<0.041		0.17	0.041	mg/Kg	☼	08/13/19 19:02	08/14/19 13:15	1
1,3-Dichlorobenzene	<0.039		0.17	0.039	mg/Kg	☼	08/13/19 19:02	08/14/19 13:15	1
1,4-Dichlorobenzene	<0.044		0.17	0.044	mg/Kg	☼	08/13/19 19:02	08/14/19 13:15	1
3,3'-Dichlorobenzidine	<0.048		0.17	0.048	mg/Kg	☼	08/13/19 19:02	08/14/19 13:15	1
2,4-Dichlorophenol	<0.082		0.34	0.082	mg/Kg	☼	08/13/19 19:02	08/14/19 13:15	1
Diethyl phthalate	<0.059		0.17	0.059	mg/Kg	☼	08/13/19 19:02	08/14/19 13:15	1
2,4-Dimethylphenol	<0.13		0.34	0.13	mg/Kg	☼	08/13/19 19:02	08/14/19 13:15	1
Dimethyl phthalate	<0.045		0.17	0.045	mg/Kg	☼	08/13/19 19:02	08/14/19 13:15	1
Di-n-butyl phthalate	<0.053		0.17	0.053	mg/Kg	☼	08/13/19 19:02	08/14/19 13:15	1
4,6-Dinitro-2-methylphenol	<0.28		0.70	0.28	mg/Kg	☼	08/13/19 19:02	08/14/19 13:15	1
2,4-Dinitrophenol	<0.61		0.70	0.61	mg/Kg	☼	08/13/19 19:02	08/14/19 13:15	1
2,4-Dinitrotoluene	<0.055		0.17	0.055	mg/Kg	☼	08/13/19 19:02	08/14/19 13:15	1
2,6-Dinitrotoluene	<0.068		0.17	0.068	mg/Kg	☼	08/13/19 19:02	08/14/19 13:15	1
Di-n-octyl phthalate	<0.056		0.17	0.056	mg/Kg	☼	08/13/19 19:02	08/14/19 13:15	1
Fluoranthene	0.070		0.034	0.0064	mg/Kg	☼	08/13/19 19:02	08/14/19 13:15	1
Fluorene	<0.0049		0.034	0.0049	mg/Kg	☼	08/13/19 19:02	08/14/19 13:15	1
Hexachlorobenzene	<0.0080		0.070	0.0080	mg/Kg	☼	08/13/19 19:02	08/14/19 13:15	1
Hexachlorobutadiene	<0.054		0.17	0.054	mg/Kg	☼	08/13/19 19:02	08/14/19 13:15	1
Hexachlorocyclopentadiene	<0.20		0.70	0.20	mg/Kg	☼	08/13/19 19:02	08/14/19 13:15	1
Hexachloroethane	<0.052		0.17	0.052	mg/Kg	☼	08/13/19 19:02	08/14/19 13:15	1
Indeno[1,2,3-cd]pyrene	0.035		0.034	0.0090	mg/Kg	☼	08/13/19 19:02	08/14/19 13:15	1
Isophorone	<0.039		0.17	0.039	mg/Kg	☼	08/13/19 19:02	08/14/19 13:15	1
2-Methylnaphthalene	<0.0064		0.070	0.0064	mg/Kg	☼	08/13/19 19:02	08/14/19 13:15	1
2-Methylphenol	<0.055		0.17	0.055	mg/Kg	☼	08/13/19 19:02	08/14/19 13:15	1
3 & 4 Methylphenol	<0.058		0.17	0.058	mg/Kg	☼	08/13/19 19:02	08/14/19 13:15	1
Naphthalene	<0.0053		0.034	0.0053	mg/Kg	☼	08/13/19 19:02	08/14/19 13:15	1
2-Nitroaniline	<0.046		0.17	0.046	mg/Kg	☼	08/13/19 19:02	08/14/19 13:15	1
3-Nitroaniline	<0.11		0.34	0.11	mg/Kg	☼	08/13/19 19:02	08/14/19 13:15	1
4-Nitroaniline	<0.14		0.34	0.14	mg/Kg	☼	08/13/19 19:02	08/14/19 13:15	1
Nitrobenzene	<0.0086		0.034	0.0086	mg/Kg	☼	08/13/19 19:02	08/14/19 13:15	1
2-Nitrophenol	<0.082		0.34	0.082	mg/Kg	☼	08/13/19 19:02	08/14/19 13:15	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B05 (5-7)

Lab Sample ID: 500-167784-3

Date Collected: 08/05/19 09:45

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 96.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.33		0.70	0.33	mg/Kg	☼	08/13/19 19:02	08/14/19 13:15	1
N-Nitrosodi-n-propylamine	<0.042		0.070	0.042	mg/Kg	☼	08/13/19 19:02	08/14/19 13:15	1
N-Nitrosodiphenylamine	<0.041		0.17	0.041	mg/Kg	☼	08/13/19 19:02	08/14/19 13:15	1
2,2'-oxybis[1-chloropropane]	<0.040		0.17	0.040	mg/Kg	☼	08/13/19 19:02	08/14/19 13:15	1
Pentachlorophenol	<0.55		0.70	0.55	mg/Kg	☼	08/13/19 19:02	08/14/19 13:15	1
Phenanthrene	0.026	J	0.034	0.0048	mg/Kg	☼	08/13/19 19:02	08/14/19 13:15	1
Phenol	<0.077		0.17	0.077	mg/Kg	☼	08/13/19 19:02	08/14/19 13:15	1
Pyrene	0.073		0.034	0.0069	mg/Kg	☼	08/13/19 19:02	08/14/19 13:15	1
1,2,4-Trichlorobenzene	<0.037		0.17	0.037	mg/Kg	☼	08/13/19 19:02	08/14/19 13:15	1
2,4,5-Trichlorophenol	<0.079		0.34	0.079	mg/Kg	☼	08/13/19 19:02	08/14/19 13:15	1
2,4,6-Trichlorophenol	<0.12		0.34	0.12	mg/Kg	☼	08/13/19 19:02	08/14/19 13:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	77		43 - 145	08/13/19 19:02	08/14/19 13:15	1
2-Fluorophenol	93		31 - 166	08/13/19 19:02	08/14/19 13:15	1
Nitrobenzene-d5	64		37 - 147	08/13/19 19:02	08/14/19 13:15	1
Phenol-d5	84		30 - 153	08/13/19 19:02	08/14/19 13:15	1
Terphenyl-d14	118		42 - 157	08/13/19 19:02	08/14/19 13:15	1
2,4,6-Tribromophenol	62		31 - 143	08/13/19 19:02	08/14/19 13:15	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.50	J	0.97	0.19	mg/Kg	☼	08/07/19 07:49	08/08/19 01:02	1
Arsenic	2.3		0.48	0.17	mg/Kg	☼	08/07/19 07:49	08/08/19 01:02	1
Barium	16		0.48	0.055	mg/Kg	☼	08/07/19 07:49	08/08/19 01:02	1
Beryllium	0.20		0.19	0.045	mg/Kg	☼	08/07/19 07:49	08/08/19 01:02	1
Cadmium	0.21	B	0.097	0.017	mg/Kg	☼	08/07/19 07:49	08/08/19 01:02	1
Chromium	4.2		0.48	0.24	mg/Kg	☼	08/07/19 07:49	08/08/19 01:02	1
Cobalt	2.7		0.24	0.064	mg/Kg	☼	08/07/19 07:49	08/08/19 01:02	1
Copper	5.2		0.48	0.14	mg/Kg	☼	08/07/19 07:49	08/08/19 01:02	1
Iron	3800		9.7	5.0	mg/Kg	☼	08/07/19 07:49	08/08/19 01:02	1
Lead	28		0.24	0.11	mg/Kg	☼	08/07/19 07:49	08/08/19 01:02	1
Magnesium	110000	B	24	12	mg/Kg	☼	08/07/19 07:49	08/08/19 11:25	5
Calcium	190000	B	97	16	mg/Kg	☼	08/07/19 07:49	08/08/19 20:55	10
Manganese	160		0.48	0.070	mg/Kg	☼	08/07/19 07:49	08/08/19 01:02	1
Nickel	4.8		0.48	0.14	mg/Kg	☼	08/07/19 07:49	08/08/19 01:02	1
Selenium	<0.29		0.48	0.29	mg/Kg	☼	08/07/19 07:49	08/08/19 01:02	1
Silver	0.68		0.24	0.063	mg/Kg	☼	08/07/19 07:49	08/08/19 01:02	1
Thallium	<0.24		0.48	0.24	mg/Kg	☼	08/07/19 07:49	08/08/19 01:02	1
Vanadium	5.6		0.24	0.057	mg/Kg	☼	08/07/19 07:49	08/08/19 01:02	1
Zinc	25		0.97	0.43	mg/Kg	☼	08/07/19 07:49	08/08/19 01:02	1
Potassium	840		24	8.6	mg/Kg	☼	08/07/19 07:49	08/08/19 01:02	1
Sodium	160		48	7.2	mg/Kg	☼	08/07/19 07:49	08/08/19 01:02	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/08/19 14:42	08/10/19 07:11	1
Barium	0.15	J	0.50	0.050	mg/L		08/08/19 14:42	08/10/19 07:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/08/19 14:42	08/10/19 07:11	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/08/19 14:42	08/10/19 07:11	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B05 (5-7)

Lab Sample ID: 500-167784-3

Date Collected: 08/05/19 09:45

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 96.1

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	190		5.0	0.50	mg/L		08/08/19 14:42	08/10/19 07:11	1
Chromium	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:11	1
Cobalt	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:11	1
Copper	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:11	1
Iron	<0.20		0.40	0.20	mg/L		08/08/19 14:42	08/10/19 07:11	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/08/19 14:42	08/10/19 07:11	1
Magnesium	100		2.5	0.50	mg/L		08/08/19 14:42	08/10/19 07:11	1
Manganese	0.34		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:11	1
Nickel	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:11	1
Potassium	1.3 J		2.5	0.50	mg/L		08/08/19 14:42	08/10/19 07:11	1
Selenium	<0.020		0.050	0.020	mg/L		08/08/19 14:42	08/10/19 07:11	1
Silver	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:11	1
Vanadium	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:11	1
Zinc	<0.020		0.50	0.020	mg/L		08/08/19 14:42	08/10/19 07:11	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.010		0.025	0.010	mg/L		08/08/19 14:40	08/09/19 22:22	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/08/19 14:42	08/09/19 14:01	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/08/19 14:42	08/09/19 14:01	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/09/19 10:05	08/09/19 16:14	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0054		0.016	0.0054	mg/Kg	☼	08/07/19 11:20	08/08/19 09:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.25		0.49	0.25	mg/Kg	☼	08/15/19 10:25	08/15/19 15:09	1
pH	8.8		0.2	0.2	SU			08/06/19 13:09	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B06 (0-5)

Lab Sample ID: 500-167784-4

Date Collected: 08/05/19 10:20

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 94.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0079		0.018	0.0079	mg/Kg	☼	08/05/19 15:50	08/08/19 10:24	1
Benzene	<0.00046		0.0018	0.00046	mg/Kg	☼	08/05/19 15:50	08/08/19 10:24	1
Bromodichloromethane	<0.00037		0.0018	0.00037	mg/Kg	☼	08/05/19 15:50	08/08/19 10:24	1
Bromoform	<0.00053		0.0018	0.00053	mg/Kg	☼	08/05/19 15:50	08/08/19 10:24	1
Bromomethane	<0.0017		0.0045	0.0017	mg/Kg	☼	08/05/19 15:50	08/08/19 10:24	1
2-Butanone (MEK)	<0.0020		0.0045	0.0020	mg/Kg	☼	08/05/19 15:50	08/08/19 10:24	1
Carbon disulfide	<0.00094		0.0045	0.00094	mg/Kg	☼	08/05/19 15:50	08/08/19 10:24	1
Carbon tetrachloride	<0.00052		0.0018	0.00052	mg/Kg	☼	08/05/19 15:50	08/08/19 10:24	1
Chlorobenzene	<0.00067		0.0018	0.00067	mg/Kg	☼	08/05/19 15:50	08/08/19 10:24	1
Chloroethane	<0.0013		0.0045	0.0013	mg/Kg	☼	08/05/19 15:50	08/08/19 10:24	1
Chloroform	<0.00063		0.0018	0.00063	mg/Kg	☼	08/05/19 15:50	08/08/19 10:24	1
Chloromethane	<0.0018		0.0045	0.0018	mg/Kg	☼	08/05/19 15:50	08/08/19 10:24	1
cis-1,2-Dichloroethene	<0.00051		0.0018	0.00051	mg/Kg	☼	08/05/19 15:50	08/08/19 10:24	1
cis-1,3-Dichloropropene	<0.00055 *		0.0018	0.00055	mg/Kg	☼	08/05/19 15:50	08/08/19 10:24	1
Dibromochloromethane	<0.00059		0.0018	0.00059	mg/Kg	☼	08/05/19 15:50	08/08/19 10:24	1
1,1-Dichloroethane	<0.00062		0.0018	0.00062	mg/Kg	☼	08/05/19 15:50	08/08/19 10:24	1
1,2-Dichloroethane	<0.0014		0.0045	0.0014	mg/Kg	☼	08/05/19 15:50	08/08/19 10:24	1
1,1-Dichloroethene	<0.00062		0.0018	0.00062	mg/Kg	☼	08/05/19 15:50	08/08/19 10:24	1
1,2-Dichloropropene	<0.00047		0.0018	0.00047	mg/Kg	☼	08/05/19 15:50	08/08/19 10:24	1
1,3-Dichloropropene, Total	<0.00063		0.0018	0.00063	mg/Kg	☼	08/05/19 15:50	08/08/19 10:24	1
Ethylbenzene	<0.00087		0.0018	0.00087	mg/Kg	☼	08/05/19 15:50	08/08/19 10:24	1
2-Hexanone	<0.0014		0.0045	0.0014	mg/Kg	☼	08/05/19 15:50	08/08/19 10:24	1
Methylene Chloride	0.0018 J		0.0045	0.0018	mg/Kg	☼	08/05/19 15:50	08/08/19 10:24	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0045	0.0013	mg/Kg	☼	08/05/19 15:50	08/08/19 10:24	1
Methyl tert-butyl ether	<0.00053		0.0018	0.00053	mg/Kg	☼	08/05/19 15:50	08/08/19 10:24	1
Styrene	<0.00055		0.0018	0.00055	mg/Kg	☼	08/05/19 15:50	08/08/19 10:24	1
1,1,2,2-Tetrachloroethane	<0.00058		0.0018	0.00058	mg/Kg	☼	08/05/19 15:50	08/08/19 10:24	1
Tetrachloroethene	<0.00062		0.0018	0.00062	mg/Kg	☼	08/05/19 15:50	08/08/19 10:24	1
Toluene	<0.00046		0.0018	0.00046	mg/Kg	☼	08/05/19 15:50	08/08/19 10:24	1
trans-1,2-Dichloroethene	<0.00080		0.0018	0.00080	mg/Kg	☼	08/05/19 15:50	08/08/19 10:24	1
trans-1,3-Dichloropropene	<0.00063		0.0018	0.00063	mg/Kg	☼	08/05/19 15:50	08/08/19 10:24	1
1,1,1-Trichloroethane	<0.00061		0.0018	0.00061	mg/Kg	☼	08/05/19 15:50	08/08/19 10:24	1
1,1,2-Trichloroethane	<0.00078		0.0018	0.00078	mg/Kg	☼	08/05/19 15:50	08/08/19 10:24	1
Trichloroethene	<0.00061		0.0018	0.00061	mg/Kg	☼	08/05/19 15:50	08/08/19 10:24	1
Vinyl acetate	<0.0016		0.0045	0.0016	mg/Kg	☼	08/05/19 15:50	08/08/19 10:24	1
Vinyl chloride	<0.00080		0.0018	0.00080	mg/Kg	☼	08/05/19 15:50	08/08/19 10:24	1
Xylenes, Total	<0.00058		0.0036	0.00058	mg/Kg	☼	08/05/19 15:50	08/08/19 10:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		75 - 131	08/05/19 15:50	08/08/19 10:24	1
Dibromofluoromethane	98		75 - 126	08/05/19 15:50	08/08/19 10:24	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	08/05/19 15:50	08/08/19 10:24	1
Toluene-d8 (Surr)	91		75 - 124	08/05/19 15:50	08/08/19 10:24	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.0097 J		0.035	0.0063	mg/Kg	☼	08/07/19 07:34	08/08/19 19:47	1
Acenaphthylene	0.0089 J		0.035	0.0046	mg/Kg	☼	08/07/19 07:34	08/08/19 19:47	1
Anthracene	0.030 J		0.035	0.0059	mg/Kg	☼	08/07/19 07:34	08/08/19 19:47	1
Benzo[a]anthracene	0.17		0.035	0.0047	mg/Kg	☼	08/07/19 07:34	08/08/19 19:47	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B06 (0-5)

Lab Sample ID: 500-167784-4

Date Collected: 08/05/19 10:20

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 94.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.22		0.035	0.0068	mg/Kg	☼	08/07/19 07:34	08/08/19 19:47	1
Benzo[b]fluoranthene	0.32		0.035	0.0076	mg/Kg	☼	08/07/19 07:34	08/08/19 19:47	1
Benzo[g,h,i]perylene	0.12		0.035	0.011	mg/Kg	☼	08/07/19 07:34	08/08/19 19:47	1
Benzo[k]fluoranthene	0.13		0.035	0.010	mg/Kg	☼	08/07/19 07:34	08/08/19 19:47	1
Bis(2-chloroethoxy)methane	<0.036		0.18	0.036	mg/Kg	☼	08/07/19 07:34	08/08/19 19:47	1
Bis(2-chloroethyl)ether	<0.053		0.18	0.053	mg/Kg	☼	08/07/19 07:34	08/08/19 19:47	1
Bis(2-ethylhexyl) phthalate	<0.064		0.18	0.064	mg/Kg	☼	08/07/19 07:34	08/08/19 19:47	1
4-Bromophenyl phenyl ether	<0.046		0.18	0.046	mg/Kg	☼	08/07/19 07:34	08/08/19 19:47	1
Butyl benzyl phthalate	<0.067		0.18	0.067	mg/Kg	☼	08/07/19 07:34	08/08/19 19:47	1
Carbazole	<0.088		0.18	0.088	mg/Kg	☼	08/07/19 07:34	08/08/19 19:47	1
4-Chloroaniline	<0.16		0.71	0.16	mg/Kg	☼	08/07/19 07:34	08/08/19 19:47	1
4-Chloro-3-methylphenol	<0.12		0.35	0.12	mg/Kg	☼	08/07/19 07:34	08/08/19 19:47	1
2-Chloronaphthalene	<0.039		0.18	0.039	mg/Kg	☼	08/07/19 07:34	08/08/19 19:47	1
2-Chlorophenol	<0.060		0.18	0.060	mg/Kg	☼	08/07/19 07:34	08/08/19 19:47	1
4-Chlorophenyl phenyl ether	<0.041		0.18	0.041	mg/Kg	☼	08/07/19 07:34	08/08/19 19:47	1
Chrysene	0.20		0.035	0.0096	mg/Kg	☼	08/07/19 07:34	08/08/19 19:47	1
Dibenz(a,h)anthracene	0.027 J		0.035	0.0068	mg/Kg	☼	08/07/19 07:34	08/08/19 19:47	1
Dibenzofuran	<0.041		0.18	0.041	mg/Kg	☼	08/07/19 07:34	08/08/19 19:47	1
1,2-Dichlorobenzene	<0.042		0.18	0.042	mg/Kg	☼	08/07/19 07:34	08/08/19 19:47	1
1,3-Dichlorobenzene	<0.039		0.18	0.039	mg/Kg	☼	08/07/19 07:34	08/08/19 19:47	1
1,4-Dichlorobenzene	<0.045		0.18	0.045	mg/Kg	☼	08/07/19 07:34	08/08/19 19:47	1
3,3'-Dichlorobenzidine	<0.049		0.18	0.049	mg/Kg	☼	08/07/19 07:34	08/08/19 19:47	1
2,4-Dichlorophenol	<0.083		0.35	0.083	mg/Kg	☼	08/07/19 07:34	08/08/19 19:47	1
Diethyl phthalate	<0.059		0.18	0.059	mg/Kg	☼	08/07/19 07:34	08/08/19 19:47	1
2,4-Dimethylphenol	<0.13		0.35	0.13	mg/Kg	☼	08/07/19 07:34	08/08/19 19:47	1
Dimethyl phthalate	<0.046		0.18	0.046	mg/Kg	☼	08/07/19 07:34	08/08/19 19:47	1
Di-n-butyl phthalate	<0.053		0.18	0.053	mg/Kg	☼	08/07/19 07:34	08/08/19 19:47	1
4,6-Dinitro-2-methylphenol	<0.28		0.71	0.28	mg/Kg	☼	08/07/19 07:34	08/08/19 19:47	1
2,4-Dinitrophenol	<0.62		0.71	0.62	mg/Kg	☼	08/07/19 07:34	08/08/19 19:47	1
2,4-Dinitrotoluene	<0.056		0.18	0.056	mg/Kg	☼	08/07/19 07:34	08/08/19 19:47	1
2,6-Dinitrotoluene	<0.069		0.18	0.069	mg/Kg	☼	08/07/19 07:34	08/08/19 19:47	1
Di-n-octyl phthalate	<0.057		0.18	0.057	mg/Kg	☼	08/07/19 07:34	08/08/19 19:47	1
Fluoranthene	0.34		0.035	0.0065	mg/Kg	☼	08/07/19 07:34	08/08/19 19:47	1
Fluorene	0.0080 J		0.035	0.0049	mg/Kg	☼	08/07/19 07:34	08/08/19 19:47	1
Hexachlorobenzene	<0.0081		0.071	0.0081	mg/Kg	☼	08/07/19 07:34	08/08/19 19:47	1
Hexachlorobutadiene	<0.055		0.18	0.055	mg/Kg	☼	08/07/19 07:34	08/08/19 19:47	1
Hexachlorocyclopentadiene	<0.20		0.71	0.20	mg/Kg	☼	08/07/19 07:34	08/08/19 19:47	1
Hexachloroethane	<0.053		0.18	0.053	mg/Kg	☼	08/07/19 07:34	08/08/19 19:47	1
Indeno[1,2,3-cd]pyrene	0.10		0.035	0.0091	mg/Kg	☼	08/07/19 07:34	08/08/19 19:47	1
Isophorone	<0.039		0.18	0.039	mg/Kg	☼	08/07/19 07:34	08/08/19 19:47	1
2-Methylnaphthalene	<0.0064		0.071	0.0064	mg/Kg	☼	08/07/19 07:34	08/08/19 19:47	1
2-Methylphenol	<0.056		0.18	0.056	mg/Kg	☼	08/07/19 07:34	08/08/19 19:47	1
3 & 4 Methylphenol	<0.058		0.18	0.058	mg/Kg	☼	08/07/19 07:34	08/08/19 19:47	1
Naphthalene	0.0059 J		0.035	0.0054	mg/Kg	☼	08/07/19 07:34	08/08/19 19:47	1
2-Nitroaniline	<0.047		0.18	0.047	mg/Kg	☼	08/07/19 07:34	08/08/19 19:47	1
3-Nitroaniline	<0.11		0.35	0.11	mg/Kg	☼	08/07/19 07:34	08/08/19 19:47	1
4-Nitroaniline	<0.15		0.35	0.15	mg/Kg	☼	08/07/19 07:34	08/08/19 19:47	1
Nitrobenzene	<0.0088		0.035	0.0088	mg/Kg	☼	08/07/19 07:34	08/08/19 19:47	1
2-Nitrophenol	<0.083		0.35	0.083	mg/Kg	☼	08/07/19 07:34	08/08/19 19:47	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B06 (0-5)

Lab Sample ID: 500-167784-4

Date Collected: 08/05/19 10:20

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 94.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.33		0.71	0.33	mg/Kg	☼	08/07/19 07:34	08/08/19 19:47	1
N-Nitrosodi-n-propylamine	<0.043		0.071	0.043	mg/Kg	☼	08/07/19 07:34	08/08/19 19:47	1
N-Nitrosodiphenylamine	<0.041		0.18	0.041	mg/Kg	☼	08/07/19 07:34	08/08/19 19:47	1
2,2'-oxybis[1-chloropropane]	<0.041		0.18	0.041	mg/Kg	☼	08/07/19 07:34	08/08/19 19:47	1
Pentachlorophenol	<0.56		0.71	0.56	mg/Kg	☼	08/07/19 07:34	08/08/19 19:47	1
Phenanthrene	0.16		0.035	0.0049	mg/Kg	☼	08/07/19 07:34	08/08/19 19:47	1
Phenol	<0.078		0.18	0.078	mg/Kg	☼	08/07/19 07:34	08/08/19 19:47	1
Pyrene	0.35		0.035	0.0070	mg/Kg	☼	08/07/19 07:34	08/08/19 19:47	1
1,2,4-Trichlorobenzene	<0.038		0.18	0.038	mg/Kg	☼	08/07/19 07:34	08/08/19 19:47	1
2,4,5-Trichlorophenol	<0.080		0.35	0.080	mg/Kg	☼	08/07/19 07:34	08/08/19 19:47	1
2,4,6-Trichlorophenol	<0.12		0.35	0.12	mg/Kg	☼	08/07/19 07:34	08/08/19 19:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	102		43 - 145	08/07/19 07:34	08/08/19 19:47	1
2-Fluorophenol	98		31 - 166	08/07/19 07:34	08/08/19 19:47	1
Nitrobenzene-d5	85		37 - 147	08/07/19 07:34	08/08/19 19:47	1
Phenol-d5	82		30 - 153	08/07/19 07:34	08/08/19 19:47	1
Terphenyl-d14	133		42 - 157	08/07/19 07:34	08/08/19 19:47	1
2,4,6-Tribromophenol	140		31 - 143	08/07/19 07:34	08/08/19 19:47	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.54	J	1.0	0.19	mg/Kg	☼	08/07/19 07:49	08/08/19 01:06	1
Arsenic	3.9		0.50	0.17	mg/Kg	☼	08/07/19 07:49	08/08/19 01:06	1
Barium	38		0.50	0.057	mg/Kg	☼	08/07/19 07:49	08/08/19 01:06	1
Beryllium	0.25		0.20	0.047	mg/Kg	☼	08/07/19 07:49	08/08/19 01:06	1
Cadmium	0.31	B	0.10	0.018	mg/Kg	☼	08/07/19 07:49	08/08/19 01:06	1
Chromium	7.5		0.50	0.25	mg/Kg	☼	08/07/19 07:49	08/08/19 01:06	1
Cobalt	4.6		0.25	0.065	mg/Kg	☼	08/07/19 07:49	08/08/19 01:06	1
Copper	13		0.50	0.14	mg/Kg	☼	08/07/19 07:49	08/08/19 01:06	1
Iron	6500		10	5.2	mg/Kg	☼	08/07/19 07:49	08/08/19 01:06	1
Lead	35		0.25	0.12	mg/Kg	☼	08/07/19 07:49	08/08/19 01:06	1
Magnesium	94000	B	25	12	mg/Kg	☼	08/07/19 07:49	08/08/19 11:37	5
Calcium	140000	B	50	8.4	mg/Kg	☼	08/07/19 07:49	08/08/19 11:37	5
Manganese	290		0.50	0.072	mg/Kg	☼	08/07/19 07:49	08/08/19 01:06	1
Nickel	8.0		0.50	0.14	mg/Kg	☼	08/07/19 07:49	08/08/19 01:06	1
Selenium	0.30	J	0.50	0.29	mg/Kg	☼	08/07/19 07:49	08/08/19 01:06	1
Silver	0.81		0.25	0.064	mg/Kg	☼	08/07/19 07:49	08/08/19 01:06	1
Thallium	<0.25		0.50	0.25	mg/Kg	☼	08/07/19 07:49	08/08/19 01:06	1
Vanadium	9.5		0.25	0.059	mg/Kg	☼	08/07/19 07:49	08/08/19 01:06	1
Zinc	58		1.0	0.44	mg/Kg	☼	08/07/19 07:49	08/08/19 01:06	1
Potassium	830		25	8.8	mg/Kg	☼	08/07/19 07:49	08/08/19 01:06	1
Sodium	270		50	7.4	mg/Kg	☼	08/07/19 07:49	08/08/19 01:06	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/08/19 14:42	08/10/19 07:15	1
Barium	0.26	J	0.50	0.050	mg/L		08/08/19 14:42	08/10/19 07:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/08/19 14:42	08/10/19 07:15	1
Cadmium	0.0024	J	0.0050	0.0020	mg/L		08/08/19 14:42	08/10/19 07:15	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B06 (0-5)

Lab Sample ID: 500-167784-4

Date Collected: 08/05/19 10:20

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 94.5

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	200		5.0	0.50	mg/L		08/08/19 14:42	08/10/19 07:15	1
Chromium	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:15	1
Cobalt	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:15	1
Copper	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:15	1
Iron	<0.20		0.40	0.20	mg/L		08/08/19 14:42	08/10/19 07:15	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/08/19 14:42	08/10/19 07:15	1
Magnesium	100		2.5	0.50	mg/L		08/08/19 14:42	08/10/19 07:15	1
Manganese	0.019	J	0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:15	1
Nickel	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:15	1
Potassium	3.5		2.5	0.50	mg/L		08/08/19 14:42	08/10/19 07:15	1
Selenium	<0.020		0.050	0.020	mg/L		08/08/19 14:42	08/10/19 07:15	1
Silver	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:15	1
Vanadium	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:15	1
Zinc	0.33	J	0.50	0.020	mg/L		08/08/19 14:42	08/10/19 07:15	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/08/19 14:42	08/09/19 14:05	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/08/19 14:42	08/09/19 14:05	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/09/19 10:05	08/09/19 16:16	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0084	J	0.017	0.0057	mg/Kg	☼	08/07/19 11:20	08/08/19 09:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.26		0.52	0.26	mg/Kg	☼	08/15/19 10:25	08/15/19 15:10	1
pH	8.6		0.2	0.2	SU			08/06/19 13:17	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B06 (5-10)

Lab Sample ID: 500-167784-5

Date Collected: 08/05/19 10:25

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 96.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0074	*	0.017	0.0074	mg/Kg	☼	08/05/19 15:50	08/07/19 13:43	1
Benzene	<0.00043		0.0017	0.00043	mg/Kg	☼	08/05/19 15:50	08/07/19 13:43	1
Bromodichloromethane	<0.00034		0.0017	0.00034	mg/Kg	☼	08/05/19 15:50	08/07/19 13:43	1
Bromoform	<0.00049		0.0017	0.00049	mg/Kg	☼	08/05/19 15:50	08/07/19 13:43	1
Bromomethane	<0.0016		0.0042	0.0016	mg/Kg	☼	08/05/19 15:50	08/07/19 13:43	1
2-Butanone (MEK)	<0.0019	*	0.0042	0.0019	mg/Kg	☼	08/05/19 15:50	08/07/19 13:43	1
Carbon disulfide	<0.00088		0.0042	0.00088	mg/Kg	☼	08/05/19 15:50	08/07/19 13:43	1
Carbon tetrachloride	<0.00049		0.0017	0.00049	mg/Kg	☼	08/05/19 15:50	08/07/19 13:43	1
Chlorobenzene	<0.00062		0.0017	0.00062	mg/Kg	☼	08/05/19 15:50	08/07/19 13:43	1
Chloroethane	<0.0013	*	0.0042	0.0013	mg/Kg	☼	08/05/19 15:50	08/07/19 13:43	1
Chloroform	<0.00059		0.0017	0.00059	mg/Kg	☼	08/05/19 15:50	08/07/19 13:43	1
Chloromethane	<0.0017		0.0042	0.0017	mg/Kg	☼	08/05/19 15:50	08/07/19 13:43	1
cis-1,2-Dichloroethene	<0.00047		0.0017	0.00047	mg/Kg	☼	08/05/19 15:50	08/07/19 13:43	1
cis-1,3-Dichloropropene	<0.00051		0.0017	0.00051	mg/Kg	☼	08/05/19 15:50	08/07/19 13:43	1
Dibromochloromethane	<0.00055		0.0017	0.00055	mg/Kg	☼	08/05/19 15:50	08/07/19 13:43	1
1,1-Dichloroethane	<0.00058		0.0017	0.00058	mg/Kg	☼	08/05/19 15:50	08/07/19 13:43	1
1,2-Dichloroethane	<0.0013		0.0042	0.0013	mg/Kg	☼	08/05/19 15:50	08/07/19 13:43	1
1,1-Dichloroethene	<0.00058		0.0017	0.00058	mg/Kg	☼	08/05/19 15:50	08/07/19 13:43	1
1,2-Dichloropropane	<0.00044		0.0017	0.00044	mg/Kg	☼	08/05/19 15:50	08/07/19 13:43	1
1,3-Dichloropropane, Total	<0.00059		0.0017	0.00059	mg/Kg	☼	08/05/19 15:50	08/07/19 13:43	1
Ethylbenzene	<0.00081		0.0017	0.00081	mg/Kg	☼	08/05/19 15:50	08/07/19 13:43	1
2-Hexanone	<0.0013		0.0042	0.0013	mg/Kg	☼	08/05/19 15:50	08/07/19 13:43	1
Methylene Chloride	0.0017	J	0.0042	0.0017	mg/Kg	☼	08/05/19 15:50	08/07/19 13:43	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0042	0.0013	mg/Kg	☼	08/05/19 15:50	08/07/19 13:43	1
Methyl tert-butyl ether	<0.00050		0.0017	0.00050	mg/Kg	☼	08/05/19 15:50	08/07/19 13:43	1
Styrene	<0.00051		0.0017	0.00051	mg/Kg	☼	08/05/19 15:50	08/07/19 13:43	1
1,1,2,2-Tetrachloroethane	<0.00054		0.0017	0.00054	mg/Kg	☼	08/05/19 15:50	08/07/19 13:43	1
Tetrachloroethene	<0.00058		0.0017	0.00058	mg/Kg	☼	08/05/19 15:50	08/07/19 13:43	1
Toluene	<0.00043		0.0017	0.00043	mg/Kg	☼	08/05/19 15:50	08/07/19 13:43	1
trans-1,2-Dichloroethene	<0.00075		0.0017	0.00075	mg/Kg	☼	08/05/19 15:50	08/07/19 13:43	1
trans-1,3-Dichloropropene	<0.00059		0.0017	0.00059	mg/Kg	☼	08/05/19 15:50	08/07/19 13:43	1
1,1,1-Trichloroethane	<0.00057		0.0017	0.00057	mg/Kg	☼	08/05/19 15:50	08/07/19 13:43	1
1,1,2-Trichloroethane	<0.00073		0.0017	0.00073	mg/Kg	☼	08/05/19 15:50	08/07/19 13:43	1
Trichloroethene	<0.00057		0.0017	0.00057	mg/Kg	☼	08/05/19 15:50	08/07/19 13:43	1
Vinyl acetate	<0.0015		0.0042	0.0015	mg/Kg	☼	08/05/19 15:50	08/07/19 13:43	1
Vinyl chloride	<0.00075		0.0017	0.00075	mg/Kg	☼	08/05/19 15:50	08/07/19 13:43	1
Xylenes, Total	<0.00054		0.0034	0.00054	mg/Kg	☼	08/05/19 15:50	08/07/19 13:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		75 - 131	08/05/19 15:50	08/07/19 13:43	1
Dibromofluoromethane	97		75 - 126	08/05/19 15:50	08/07/19 13:43	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	08/05/19 15:50	08/07/19 13:43	1
Toluene-d8 (Surr)	92		75 - 124	08/05/19 15:50	08/07/19 13:43	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0062		0.034	0.0062	mg/Kg	☼	08/07/19 07:34	08/08/19 17:46	1
Acenaphthylene	0.0067	J	0.034	0.0045	mg/Kg	☼	08/07/19 07:34	08/08/19 17:46	1
Anthracene	0.0082	J	0.034	0.0057	mg/Kg	☼	08/07/19 07:34	08/08/19 17:46	1
Benzo[a]anthracene	0.061		0.034	0.0046	mg/Kg	☼	08/07/19 07:34	08/08/19 17:46	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B06 (5-10)

Lab Sample ID: 500-167784-5

Date Collected: 08/05/19 10:25

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 96.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.075		0.034	0.0067	mg/Kg	☼	08/07/19 07:34	08/08/19 17:46	1
Benzo[b]fluoranthene	0.098		0.034	0.0074	mg/Kg	☼	08/07/19 07:34	08/08/19 17:46	1
Benzo[g,h,i]perylene	0.052		0.034	0.011	mg/Kg	☼	08/07/19 07:34	08/08/19 17:46	1
Benzo[k]fluoranthene	0.034		0.034	0.010	mg/Kg	☼	08/07/19 07:34	08/08/19 17:46	1
Bis(2-chloroethoxy)methane	<0.035		0.17	0.035	mg/Kg	☼	08/07/19 07:34	08/08/19 17:46	1
Bis(2-chloroethyl)ether	<0.052		0.17	0.052	mg/Kg	☼	08/07/19 07:34	08/08/19 17:46	1
Bis(2-ethylhexyl) phthalate	<0.063		0.17	0.063	mg/Kg	☼	08/07/19 07:34	08/08/19 17:46	1
4-Bromophenyl phenyl ether	<0.045		0.17	0.045	mg/Kg	☼	08/07/19 07:34	08/08/19 17:46	1
Butyl benzyl phthalate	<0.065		0.17	0.065	mg/Kg	☼	08/07/19 07:34	08/08/19 17:46	1
Carbazole	<0.086		0.17	0.086	mg/Kg	☼	08/07/19 07:34	08/08/19 17:46	1
4-Chloroaniline	<0.16		0.69	0.16	mg/Kg	☼	08/07/19 07:34	08/08/19 17:46	1
4-Chloro-3-methylphenol	<0.12		0.34	0.12	mg/Kg	☼	08/07/19 07:34	08/08/19 17:46	1
2-Chloronaphthalene	<0.038		0.17	0.038	mg/Kg	☼	08/07/19 07:34	08/08/19 17:46	1
2-Chlorophenol	<0.059		0.17	0.059	mg/Kg	☼	08/07/19 07:34	08/08/19 17:46	1
4-Chlorophenyl phenyl ether	<0.040		0.17	0.040	mg/Kg	☼	08/07/19 07:34	08/08/19 17:46	1
Chrysene	0.072		0.034	0.0094	mg/Kg	☼	08/07/19 07:34	08/08/19 17:46	1
Dibenz(a,h)anthracene	0.0098 J		0.034	0.0066	mg/Kg	☼	08/07/19 07:34	08/08/19 17:46	1
Dibenzofuran	<0.040		0.17	0.040	mg/Kg	☼	08/07/19 07:34	08/08/19 17:46	1
1,2-Dichlorobenzene	<0.041		0.17	0.041	mg/Kg	☼	08/07/19 07:34	08/08/19 17:46	1
1,3-Dichlorobenzene	<0.039		0.17	0.039	mg/Kg	☼	08/07/19 07:34	08/08/19 17:46	1
1,4-Dichlorobenzene	<0.044		0.17	0.044	mg/Kg	☼	08/07/19 07:34	08/08/19 17:46	1
3,3'-Dichlorobenzidine	<0.048		0.17	0.048	mg/Kg	☼	08/07/19 07:34	08/08/19 17:46	1
2,4-Dichlorophenol	<0.082		0.34	0.082	mg/Kg	☼	08/07/19 07:34	08/08/19 17:46	1
Diethyl phthalate	<0.058		0.17	0.058	mg/Kg	☼	08/07/19 07:34	08/08/19 17:46	1
2,4-Dimethylphenol	<0.13		0.34	0.13	mg/Kg	☼	08/07/19 07:34	08/08/19 17:46	1
Dimethyl phthalate	<0.045		0.17	0.045	mg/Kg	☼	08/07/19 07:34	08/08/19 17:46	1
Di-n-butyl phthalate	<0.052		0.17	0.052	mg/Kg	☼	08/07/19 07:34	08/08/19 17:46	1
4,6-Dinitro-2-methylphenol	<0.28		0.69	0.28	mg/Kg	☼	08/07/19 07:34	08/08/19 17:46	1
2,4-Dinitrophenol	<0.61		0.69	0.61	mg/Kg	☼	08/07/19 07:34	08/08/19 17:46	1
2,4-Dinitrotoluene	<0.055		0.17	0.055	mg/Kg	☼	08/07/19 07:34	08/08/19 17:46	1
2,6-Dinitrotoluene	<0.068		0.17	0.068	mg/Kg	☼	08/07/19 07:34	08/08/19 17:46	1
Di-n-octyl phthalate	<0.056		0.17	0.056	mg/Kg	☼	08/07/19 07:34	08/08/19 17:46	1
Fluoranthene	0.099		0.034	0.0064	mg/Kg	☼	08/07/19 07:34	08/08/19 17:46	1
Fluorene	<0.0048		0.034	0.0048	mg/Kg	☼	08/07/19 07:34	08/08/19 17:46	1
Hexachlorobenzene	<0.0080		0.069	0.0080	mg/Kg	☼	08/07/19 07:34	08/08/19 17:46	1
Hexachlorobutadiene	<0.054		0.17	0.054	mg/Kg	☼	08/07/19 07:34	08/08/19 17:46	1
Hexachlorocyclopentadiene	<0.20		0.69	0.20	mg/Kg	☼	08/07/19 07:34	08/08/19 17:46	1
Hexachloroethane	<0.052		0.17	0.052	mg/Kg	☼	08/07/19 07:34	08/08/19 17:46	1
Indeno[1,2,3-cd]pyrene	0.050		0.034	0.0089	mg/Kg	☼	08/07/19 07:34	08/08/19 17:46	1
Isophorone	<0.039		0.17	0.039	mg/Kg	☼	08/07/19 07:34	08/08/19 17:46	1
2-Methylnaphthalene	<0.0063		0.069	0.0063	mg/Kg	☼	08/07/19 07:34	08/08/19 17:46	1
2-Methylphenol	<0.055		0.17	0.055	mg/Kg	☼	08/07/19 07:34	08/08/19 17:46	1
3 & 4 Methylphenol	<0.057		0.17	0.057	mg/Kg	☼	08/07/19 07:34	08/08/19 17:46	1
Naphthalene	<0.0053		0.034	0.0053	mg/Kg	☼	08/07/19 07:34	08/08/19 17:46	1
2-Nitroaniline	<0.046		0.17	0.046	mg/Kg	☼	08/07/19 07:34	08/08/19 17:46	1
3-Nitroaniline	<0.11		0.34	0.11	mg/Kg	☼	08/07/19 07:34	08/08/19 17:46	1
4-Nitroaniline	<0.14		0.34	0.14	mg/Kg	☼	08/07/19 07:34	08/08/19 17:46	1
Nitrobenzene	<0.0086		0.034	0.0086	mg/Kg	☼	08/07/19 07:34	08/08/19 17:46	1
2-Nitrophenol	<0.081		0.34	0.081	mg/Kg	☼	08/07/19 07:34	08/08/19 17:46	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B06 (5-10)

Lab Sample ID: 500-167784-5

Date Collected: 08/05/19 10:25

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 96.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.33		0.69	0.33	mg/Kg	☼	08/07/19 07:34	08/08/19 17:46	1
N-Nitrosodi-n-propylamine	<0.042		0.069	0.042	mg/Kg	☼	08/07/19 07:34	08/08/19 17:46	1
N-Nitrosodiphenylamine	<0.041		0.17	0.041	mg/Kg	☼	08/07/19 07:34	08/08/19 17:46	1
2,2'-oxybis[1-chloropropane]	<0.040		0.17	0.040	mg/Kg	☼	08/07/19 07:34	08/08/19 17:46	1
Pentachlorophenol	<0.55		0.69	0.55	mg/Kg	☼	08/07/19 07:34	08/08/19 17:46	1
Phenanthrene	0.048		0.034	0.0048	mg/Kg	☼	08/07/19 07:34	08/08/19 17:46	1
Phenol	<0.076		0.17	0.076	mg/Kg	☼	08/07/19 07:34	08/08/19 17:46	1
Pyrene	0.10		0.034	0.0068	mg/Kg	☼	08/07/19 07:34	08/08/19 17:46	1
1,2,4-Trichlorobenzene	<0.037		0.17	0.037	mg/Kg	☼	08/07/19 07:34	08/08/19 17:46	1
2,4,5-Trichlorophenol	<0.078		0.34	0.078	mg/Kg	☼	08/07/19 07:34	08/08/19 17:46	1
2,4,6-Trichlorophenol	<0.12		0.34	0.12	mg/Kg	☼	08/07/19 07:34	08/08/19 17:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	98		43 - 145	08/07/19 07:34	08/08/19 17:46	1
2-Fluorophenol	96		31 - 166	08/07/19 07:34	08/08/19 17:46	1
Nitrobenzene-d5	77		37 - 147	08/07/19 07:34	08/08/19 17:46	1
Phenol-d5	83		30 - 153	08/07/19 07:34	08/08/19 17:46	1
Terphenyl-d14	120		42 - 157	08/07/19 07:34	08/08/19 17:46	1
2,4,6-Tribromophenol	113		31 - 143	08/07/19 07:34	08/08/19 17:46	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.37	J	0.96	0.19	mg/Kg	☼	08/07/19 07:49	08/08/19 01:10	1
Arsenic	2.9		0.48	0.16	mg/Kg	☼	08/07/19 07:49	08/08/19 01:10	1
Barium	17		0.48	0.055	mg/Kg	☼	08/07/19 07:49	08/08/19 01:10	1
Beryllium	0.14	J	0.19	0.045	mg/Kg	☼	08/07/19 07:49	08/08/19 01:10	1
Cadmium	0.24	B	0.096	0.017	mg/Kg	☼	08/07/19 07:49	08/08/19 01:10	1
Chromium	3.6		0.48	0.24	mg/Kg	☼	08/07/19 07:49	08/08/19 01:10	1
Cobalt	2.5		0.24	0.063	mg/Kg	☼	08/07/19 07:49	08/08/19 01:10	1
Copper	7.5		0.48	0.13	mg/Kg	☼	08/07/19 07:49	08/08/19 01:10	1
Iron	4000		9.6	5.0	mg/Kg	☼	08/07/19 07:49	08/08/19 01:10	1
Lead	30		0.24	0.11	mg/Kg	☼	08/07/19 07:49	08/08/19 01:10	1
Magnesium	110000	B	24	12	mg/Kg	☼	08/07/19 07:49	08/08/19 11:41	5
Calcium	190000	B	96	16	mg/Kg	☼	08/07/19 07:49	08/08/19 20:59	10
Manganese	150		0.48	0.070	mg/Kg	☼	08/07/19 07:49	08/08/19 01:10	1
Nickel	4.7		0.48	0.14	mg/Kg	☼	08/07/19 07:49	08/08/19 01:10	1
Selenium	<0.28		0.48	0.28	mg/Kg	☼	08/07/19 07:49	08/08/19 01:10	1
Silver	0.48		0.24	0.062	mg/Kg	☼	08/07/19 07:49	08/08/19 01:10	1
Thallium	<0.24		0.48	0.24	mg/Kg	☼	08/07/19 07:49	08/08/19 01:10	1
Vanadium	5.5		0.24	0.057	mg/Kg	☼	08/07/19 07:49	08/08/19 01:10	1
Zinc	28		0.96	0.42	mg/Kg	☼	08/07/19 07:49	08/08/19 01:10	1
Potassium	530		24	8.5	mg/Kg	☼	08/07/19 07:49	08/08/19 01:10	1
Sodium	220		48	7.1	mg/Kg	☼	08/07/19 07:49	08/08/19 01:10	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/08/19 14:42	08/10/19 07:31	1
Barium	0.17	J	0.50	0.050	mg/L		08/08/19 14:42	08/10/19 07:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/08/19 14:42	08/10/19 07:31	1
Cadmium	0.0023	J	0.0050	0.0020	mg/L		08/08/19 14:42	08/10/19 07:31	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B06 (5-10)

Lab Sample ID: 500-167784-5

Date Collected: 08/05/19 10:25

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 96.0

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	200		5.0	0.50	mg/L		08/08/19 14:42	08/10/19 07:31	1
Chromium	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:31	1
Cobalt	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:31	1
Copper	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:31	1
Iron	<0.20		0.40	0.20	mg/L		08/08/19 14:42	08/10/19 07:31	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/08/19 14:42	08/10/19 07:31	1
Magnesium	110		2.5	0.50	mg/L		08/08/19 14:42	08/10/19 07:31	1
Manganese	0.17		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:31	1
Nickel	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:31	1
Potassium	0.98 J		2.5	0.50	mg/L		08/08/19 14:42	08/10/19 07:31	1
Selenium	<0.020		0.050	0.020	mg/L		08/08/19 14:42	08/10/19 07:31	1
Silver	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:31	1
Vanadium	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:31	1
Zinc	<0.020		0.50	0.020	mg/L		08/08/19 14:42	08/10/19 07:31	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.010		0.025	0.010	mg/L		08/08/19 14:40	08/09/19 22:30	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/08/19 14:42	08/09/19 14:09	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/08/19 14:42	08/09/19 14:09	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/09/19 10:05	08/09/19 16:17	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0054		0.016	0.0054	mg/Kg	☼	08/07/19 11:20	08/08/19 09:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.23		0.46	0.23	mg/Kg	☼	08/15/19 10:25	08/15/19 15:10	1
pH	8.8		0.2	0.2	SU			08/06/19 13:26	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B06 (10-13.5)

Lab Sample ID: 500-167784-6

Date Collected: 08/05/19 10:30

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 84.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0074	*	0.017	0.0074	mg/Kg	☼	08/05/19 15:50	08/07/19 14:09	1
Benzene	<0.00043		0.0017	0.00043	mg/Kg	☼	08/05/19 15:50	08/07/19 14:09	1
Bromodichloromethane	<0.00034		0.0017	0.00034	mg/Kg	☼	08/05/19 15:50	08/07/19 14:09	1
Bromoform	<0.00049		0.0017	0.00049	mg/Kg	☼	08/05/19 15:50	08/07/19 14:09	1
Bromomethane	<0.0016		0.0042	0.0016	mg/Kg	☼	08/05/19 15:50	08/07/19 14:09	1
2-Butanone (MEK)	<0.0019	*	0.0042	0.0019	mg/Kg	☼	08/05/19 15:50	08/07/19 14:09	1
Carbon disulfide	<0.00088		0.0042	0.00088	mg/Kg	☼	08/05/19 15:50	08/07/19 14:09	1
Carbon tetrachloride	<0.00049		0.0017	0.00049	mg/Kg	☼	08/05/19 15:50	08/07/19 14:09	1
Chlorobenzene	<0.00062		0.0017	0.00062	mg/Kg	☼	08/05/19 15:50	08/07/19 14:09	1
Chloroethane	<0.0013	*	0.0042	0.0013	mg/Kg	☼	08/05/19 15:50	08/07/19 14:09	1
Chloroform	<0.00059		0.0017	0.00059	mg/Kg	☼	08/05/19 15:50	08/07/19 14:09	1
Chloromethane	<0.0017		0.0042	0.0017	mg/Kg	☼	08/05/19 15:50	08/07/19 14:09	1
cis-1,2-Dichloroethene	<0.00047		0.0017	0.00047	mg/Kg	☼	08/05/19 15:50	08/07/19 14:09	1
cis-1,3-Dichloropropene	<0.00051		0.0017	0.00051	mg/Kg	☼	08/05/19 15:50	08/07/19 14:09	1
Dibromochloromethane	<0.00055		0.0017	0.00055	mg/Kg	☼	08/05/19 15:50	08/07/19 14:09	1
1,1-Dichloroethane	<0.00058		0.0017	0.00058	mg/Kg	☼	08/05/19 15:50	08/07/19 14:09	1
1,2-Dichloroethane	<0.0013		0.0042	0.0013	mg/Kg	☼	08/05/19 15:50	08/07/19 14:09	1
1,1-Dichloroethene	<0.00058		0.0017	0.00058	mg/Kg	☼	08/05/19 15:50	08/07/19 14:09	1
1,2-Dichloropropene	<0.00044		0.0017	0.00044	mg/Kg	☼	08/05/19 15:50	08/07/19 14:09	1
1,3-Dichloropropene, Total	<0.00059		0.0017	0.00059	mg/Kg	☼	08/05/19 15:50	08/07/19 14:09	1
Ethylbenzene	<0.00081		0.0017	0.00081	mg/Kg	☼	08/05/19 15:50	08/07/19 14:09	1
2-Hexanone	<0.0013		0.0042	0.0013	mg/Kg	☼	08/05/19 15:50	08/07/19 14:09	1
Methylene Chloride	0.0018	J	0.0042	0.0017	mg/Kg	☼	08/05/19 15:50	08/07/19 14:09	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0042	0.0013	mg/Kg	☼	08/05/19 15:50	08/07/19 14:09	1
Methyl tert-butyl ether	<0.00050		0.0017	0.00050	mg/Kg	☼	08/05/19 15:50	08/07/19 14:09	1
Styrene	<0.00051		0.0017	0.00051	mg/Kg	☼	08/05/19 15:50	08/07/19 14:09	1
1,1,2,2-Tetrachloroethane	<0.00054		0.0017	0.00054	mg/Kg	☼	08/05/19 15:50	08/07/19 14:09	1
Tetrachloroethene	<0.00058		0.0017	0.00058	mg/Kg	☼	08/05/19 15:50	08/07/19 14:09	1
Toluene	<0.00043		0.0017	0.00043	mg/Kg	☼	08/05/19 15:50	08/07/19 14:09	1
trans-1,2-Dichloroethene	<0.00075		0.0017	0.00075	mg/Kg	☼	08/05/19 15:50	08/07/19 14:09	1
trans-1,3-Dichloropropene	<0.00059		0.0017	0.00059	mg/Kg	☼	08/05/19 15:50	08/07/19 14:09	1
1,1,1-Trichloroethane	<0.00057		0.0017	0.00057	mg/Kg	☼	08/05/19 15:50	08/07/19 14:09	1
1,1,2-Trichloroethane	<0.00073		0.0017	0.00073	mg/Kg	☼	08/05/19 15:50	08/07/19 14:09	1
Trichloroethene	<0.00057		0.0017	0.00057	mg/Kg	☼	08/05/19 15:50	08/07/19 14:09	1
Vinyl acetate	<0.0015		0.0042	0.0015	mg/Kg	☼	08/05/19 15:50	08/07/19 14:09	1
Vinyl chloride	<0.00075		0.0017	0.00075	mg/Kg	☼	08/05/19 15:50	08/07/19 14:09	1
Xylenes, Total	<0.00054		0.0034	0.00054	mg/Kg	☼	08/05/19 15:50	08/07/19 14:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		75 - 131	08/05/19 15:50	08/07/19 14:09	1
Dibromofluoromethane	97		75 - 126	08/05/19 15:50	08/07/19 14:09	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	08/05/19 15:50	08/07/19 14:09	1
Toluene-d8 (Surr)	92		75 - 124	08/05/19 15:50	08/07/19 14:09	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0067		0.037	0.0067	mg/Kg	☼	08/07/19 07:34	08/08/19 18:10	1
Acenaphthylene	<0.0049		0.037	0.0049	mg/Kg	☼	08/07/19 07:34	08/08/19 18:10	1
Anthracene	<0.0062		0.037	0.0062	mg/Kg	☼	08/07/19 07:34	08/08/19 18:10	1
Benzo[a]anthracene	0.034	J	0.037	0.0050	mg/Kg	☼	08/07/19 07:34	08/08/19 18:10	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B06 (10-13.5)

Lab Sample ID: 500-167784-6

Date Collected: 08/05/19 10:30

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 84.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.041		0.037	0.0072	mg/Kg	☼	08/07/19 07:34	08/08/19 18:10	1
Benzo[b]fluoranthene	0.048		0.037	0.0080	mg/Kg	☼	08/07/19 07:34	08/08/19 18:10	1
Benzo[g,h,i]perylene	0.027	J	0.037	0.012	mg/Kg	☼	08/07/19 07:34	08/08/19 18:10	1
Benzo[k]fluoranthene	0.013	J	0.037	0.011	mg/Kg	☼	08/07/19 07:34	08/08/19 18:10	1
Bis(2-chloroethoxy)methane	<0.038		0.19	0.038	mg/Kg	☼	08/07/19 07:34	08/08/19 18:10	1
Bis(2-chloroethyl)ether	<0.056		0.19	0.056	mg/Kg	☼	08/07/19 07:34	08/08/19 18:10	1
Bis(2-ethylhexyl) phthalate	<0.068		0.19	0.068	mg/Kg	☼	08/07/19 07:34	08/08/19 18:10	1
4-Bromophenyl phenyl ether	<0.049		0.19	0.049	mg/Kg	☼	08/07/19 07:34	08/08/19 18:10	1
Butyl benzyl phthalate	<0.071		0.19	0.071	mg/Kg	☼	08/07/19 07:34	08/08/19 18:10	1
Carbazole	<0.093		0.19	0.093	mg/Kg	☼	08/07/19 07:34	08/08/19 18:10	1
4-Chloroaniline	<0.17		0.75	0.17	mg/Kg	☼	08/07/19 07:34	08/08/19 18:10	1
4-Chloro-3-methylphenol	<0.13		0.37	0.13	mg/Kg	☼	08/07/19 07:34	08/08/19 18:10	1
2-Chloronaphthalene	<0.041		0.19	0.041	mg/Kg	☼	08/07/19 07:34	08/08/19 18:10	1
2-Chlorophenol	<0.064		0.19	0.064	mg/Kg	☼	08/07/19 07:34	08/08/19 18:10	1
4-Chlorophenyl phenyl ether	<0.043		0.19	0.043	mg/Kg	☼	08/07/19 07:34	08/08/19 18:10	1
Chrysene	0.040		0.037	0.010	mg/Kg	☼	08/07/19 07:34	08/08/19 18:10	1
Dibenz(a,h)anthracene	<0.0072		0.037	0.0072	mg/Kg	☼	08/07/19 07:34	08/08/19 18:10	1
Dibenzofuran	<0.044		0.19	0.044	mg/Kg	☼	08/07/19 07:34	08/08/19 18:10	1
1,2-Dichlorobenzene	<0.044		0.19	0.044	mg/Kg	☼	08/07/19 07:34	08/08/19 18:10	1
1,3-Dichlorobenzene	<0.042		0.19	0.042	mg/Kg	☼	08/07/19 07:34	08/08/19 18:10	1
1,4-Dichlorobenzene	<0.048		0.19	0.048	mg/Kg	☼	08/07/19 07:34	08/08/19 18:10	1
3,3'-Dichlorobenzidine	<0.052		0.19	0.052	mg/Kg	☼	08/07/19 07:34	08/08/19 18:10	1
2,4-Dichlorophenol	<0.088		0.37	0.088	mg/Kg	☼	08/07/19 07:34	08/08/19 18:10	1
Diethyl phthalate	<0.063		0.19	0.063	mg/Kg	☼	08/07/19 07:34	08/08/19 18:10	1
2,4-Dimethylphenol	<0.14		0.37	0.14	mg/Kg	☼	08/07/19 07:34	08/08/19 18:10	1
Dimethyl phthalate	<0.049		0.19	0.049	mg/Kg	☼	08/07/19 07:34	08/08/19 18:10	1
Di-n-butyl phthalate	<0.057		0.19	0.057	mg/Kg	☼	08/07/19 07:34	08/08/19 18:10	1
4,6-Dinitro-2-methylphenol	<0.30		0.75	0.30	mg/Kg	☼	08/07/19 07:34	08/08/19 18:10	1
2,4-Dinitrophenol	<0.66		0.75	0.66	mg/Kg	☼	08/07/19 07:34	08/08/19 18:10	1
2,4-Dinitrotoluene	<0.059		0.19	0.059	mg/Kg	☼	08/07/19 07:34	08/08/19 18:10	1
2,6-Dinitrotoluene	<0.073		0.19	0.073	mg/Kg	☼	08/07/19 07:34	08/08/19 18:10	1
Di-n-octyl phthalate	<0.061		0.19	0.061	mg/Kg	☼	08/07/19 07:34	08/08/19 18:10	1
Fluoranthene	0.050		0.037	0.0069	mg/Kg	☼	08/07/19 07:34	08/08/19 18:10	1
Fluorene	<0.0052		0.037	0.0052	mg/Kg	☼	08/07/19 07:34	08/08/19 18:10	1
Hexachlorobenzene	<0.0086		0.075	0.0086	mg/Kg	☼	08/07/19 07:34	08/08/19 18:10	1
Hexachlorobutadiene	<0.058		0.19	0.058	mg/Kg	☼	08/07/19 07:34	08/08/19 18:10	1
Hexachlorocyclopentadiene	<0.21		0.75	0.21	mg/Kg	☼	08/07/19 07:34	08/08/19 18:10	1
Hexachloroethane	<0.057		0.19	0.057	mg/Kg	☼	08/07/19 07:34	08/08/19 18:10	1
Indeno[1,2,3-cd]pyrene	0.030	J	0.037	0.0096	mg/Kg	☼	08/07/19 07:34	08/08/19 18:10	1
Isophorone	<0.042		0.19	0.042	mg/Kg	☼	08/07/19 07:34	08/08/19 18:10	1
2-Methylnaphthalene	<0.0068		0.075	0.0068	mg/Kg	☼	08/07/19 07:34	08/08/19 18:10	1
2-Methylphenol	<0.060		0.19	0.060	mg/Kg	☼	08/07/19 07:34	08/08/19 18:10	1
3 & 4 Methylphenol	<0.062		0.19	0.062	mg/Kg	☼	08/07/19 07:34	08/08/19 18:10	1
Naphthalene	<0.0057		0.037	0.0057	mg/Kg	☼	08/07/19 07:34	08/08/19 18:10	1
2-Nitroaniline	<0.050		0.19	0.050	mg/Kg	☼	08/07/19 07:34	08/08/19 18:10	1
3-Nitroaniline	<0.12		0.37	0.12	mg/Kg	☼	08/07/19 07:34	08/08/19 18:10	1
4-Nitroaniline	<0.16		0.37	0.16	mg/Kg	☼	08/07/19 07:34	08/08/19 18:10	1
Nitrobenzene	<0.0093		0.037	0.0093	mg/Kg	☼	08/07/19 07:34	08/08/19 18:10	1
2-Nitrophenol	<0.088		0.37	0.088	mg/Kg	☼	08/07/19 07:34	08/08/19 18:10	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B06 (10-13.5)

Lab Sample ID: 500-167784-6

Date Collected: 08/05/19 10:30

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 84.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.35		0.75	0.35	mg/Kg	☼	08/07/19 07:34	08/08/19 18:10	1
N-Nitrosodi-n-propylamine	<0.045		0.075	0.045	mg/Kg	☼	08/07/19 07:34	08/08/19 18:10	1
N-Nitrosodiphenylamine	<0.044		0.19	0.044	mg/Kg	☼	08/07/19 07:34	08/08/19 18:10	1
2,2'-oxybis[1-chloropropane]	<0.043		0.19	0.043	mg/Kg	☼	08/07/19 07:34	08/08/19 18:10	1
Pentachlorophenol	<0.60		0.75	0.60	mg/Kg	☼	08/07/19 07:34	08/08/19 18:10	1
Phenanthrene	0.028	J	0.037	0.0052	mg/Kg	☼	08/07/19 07:34	08/08/19 18:10	1
Phenol	<0.083		0.19	0.083	mg/Kg	☼	08/07/19 07:34	08/08/19 18:10	1
Pyrene	0.058		0.037	0.0074	mg/Kg	☼	08/07/19 07:34	08/08/19 18:10	1
1,2,4-Trichlorobenzene	<0.040		0.19	0.040	mg/Kg	☼	08/07/19 07:34	08/08/19 18:10	1
2,4,5-Trichlorophenol	<0.085		0.37	0.085	mg/Kg	☼	08/07/19 07:34	08/08/19 18:10	1
2,4,6-Trichlorophenol	<0.13		0.37	0.13	mg/Kg	☼	08/07/19 07:34	08/08/19 18:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	101		43 - 145	08/07/19 07:34	08/08/19 18:10	1
2-Fluorophenol	102		31 - 166	08/07/19 07:34	08/08/19 18:10	1
Nitrobenzene-d5	81		37 - 147	08/07/19 07:34	08/08/19 18:10	1
Phenol-d5	85		30 - 153	08/07/19 07:34	08/08/19 18:10	1
Terphenyl-d14	131		42 - 157	08/07/19 07:34	08/08/19 18:10	1
2,4,6-Tribromophenol	122		31 - 143	08/07/19 07:34	08/08/19 18:10	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.53	J	1.1	0.22	mg/Kg	☼	08/07/19 07:49	08/08/19 01:14	1
Arsenic	4.0		0.57	0.20	mg/Kg	☼	08/07/19 07:49	08/08/19 01:14	1
Barium	56		0.57	0.065	mg/Kg	☼	08/07/19 07:49	08/08/19 01:14	1
Beryllium	0.43		0.23	0.054	mg/Kg	☼	08/07/19 07:49	08/08/19 01:14	1
Cadmium	0.20	B	0.11	0.021	mg/Kg	☼	08/07/19 07:49	08/08/19 01:14	1
Chromium	8.8		0.57	0.28	mg/Kg	☼	08/07/19 07:49	08/08/19 01:14	1
Cobalt	6.5		0.29	0.075	mg/Kg	☼	08/07/19 07:49	08/08/19 01:14	1
Copper	10		0.57	0.16	mg/Kg	☼	08/07/19 07:49	08/08/19 01:14	1
Iron	9300		11	6.0	mg/Kg	☼	08/07/19 07:49	08/08/19 01:14	1
Lead	29		0.29	0.13	mg/Kg	☼	08/07/19 07:49	08/08/19 01:14	1
Magnesium	57000	B	29	14	mg/Kg	☼	08/07/19 07:49	08/08/19 11:45	5
Calcium	84000	B	57	9.7	mg/Kg	☼	08/07/19 07:49	08/08/19 11:45	5
Manganese	340		0.57	0.083	mg/Kg	☼	08/07/19 07:49	08/08/19 01:14	1
Nickel	12		0.57	0.17	mg/Kg	☼	08/07/19 07:49	08/08/19 01:14	1
Selenium	<0.34		0.57	0.34	mg/Kg	☼	08/07/19 07:49	08/08/19 01:14	1
Silver	1.7		0.29	0.074	mg/Kg	☼	08/07/19 07:49	08/08/19 01:14	1
Thallium	0.30	J	0.57	0.29	mg/Kg	☼	08/07/19 07:49	08/08/19 01:14	1
Vanadium	15		0.29	0.068	mg/Kg	☼	08/07/19 07:49	08/08/19 01:14	1
Zinc	45		1.1	0.50	mg/Kg	☼	08/07/19 07:49	08/08/19 01:14	1
Potassium	1200		29	10	mg/Kg	☼	08/07/19 07:49	08/08/19 01:14	1
Sodium	490		57	8.5	mg/Kg	☼	08/07/19 07:49	08/08/19 01:14	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/08/19 14:42	08/10/19 07:36	1
Barium	0.24	J	0.50	0.050	mg/L		08/08/19 14:42	08/10/19 07:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/08/19 14:42	08/10/19 07:36	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/08/19 14:42	08/10/19 07:36	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B06 (10-13.5)

Lab Sample ID: 500-167784-6

Date Collected: 08/05/19 10:30

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 84.7

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	190		5.0	0.50	mg/L		08/08/19 14:42	08/10/19 07:36	1
Chromium	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:36	1
Cobalt	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:36	1
Copper	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:36	1
Iron	<0.20		0.40	0.20	mg/L		08/08/19 14:42	08/10/19 07:36	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/08/19 14:42	08/10/19 07:36	1
Magnesium	100		2.5	0.50	mg/L		08/08/19 14:42	08/10/19 07:36	1
Manganese	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:36	1
Nickel	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:36	1
Potassium	1.7 J		2.5	0.50	mg/L		08/08/19 14:42	08/10/19 07:36	1
Selenium	<0.020		0.050	0.020	mg/L		08/08/19 14:42	08/10/19 07:36	1
Silver	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:36	1
Vanadium	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:36	1
Zinc	<0.020		0.50	0.020	mg/L		08/08/19 14:42	08/10/19 07:36	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/08/19 14:42	08/09/19 14:13	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/08/19 14:42	08/09/19 14:13	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/09/19 10:05	08/09/19 16:19	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013 J		0.019	0.0062	mg/Kg	☼	08/07/19 11:20	08/08/19 09:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.29		0.57	0.29	mg/Kg	☼	08/15/19 10:25	08/15/19 15:10	1
pH	8.8		0.2	0.2	SU			08/06/19 13:30	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B07 (0-5)

Lab Sample ID: 500-167784-7

Date Collected: 08/05/19 11:05

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 83.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.012	*	0.028	0.012	mg/Kg	☼	08/05/19 15:50	08/07/19 14:35	1
Benzene	<0.00072		0.0028	0.00072	mg/Kg	☼	08/05/19 15:50	08/07/19 14:35	1
Bromodichloromethane	<0.00058		0.0028	0.00058	mg/Kg	☼	08/05/19 15:50	08/07/19 14:35	1
Bromoform	<0.00083		0.0028	0.00083	mg/Kg	☼	08/05/19 15:50	08/07/19 14:35	1
Bromomethane	<0.0027		0.0071	0.0027	mg/Kg	☼	08/05/19 15:50	08/07/19 14:35	1
2-Butanone (MEK)	<0.0031	*	0.0071	0.0031	mg/Kg	☼	08/05/19 15:50	08/07/19 14:35	1
Carbon disulfide	<0.0015		0.0071	0.0015	mg/Kg	☼	08/05/19 15:50	08/07/19 14:35	1
Carbon tetrachloride	<0.00082		0.0028	0.00082	mg/Kg	☼	08/05/19 15:50	08/07/19 14:35	1
Chlorobenzene	<0.0010		0.0028	0.0010	mg/Kg	☼	08/05/19 15:50	08/07/19 14:35	1
Chloroethane	<0.0021	*	0.0071	0.0021	mg/Kg	☼	08/05/19 15:50	08/07/19 14:35	1
Chloroform	<0.00098		0.0028	0.00098	mg/Kg	☼	08/05/19 15:50	08/07/19 14:35	1
Chloromethane	<0.0029		0.0071	0.0029	mg/Kg	☼	08/05/19 15:50	08/07/19 14:35	1
cis-1,2-Dichloroethene	<0.00079		0.0028	0.00079	mg/Kg	☼	08/05/19 15:50	08/07/19 14:35	1
cis-1,3-Dichloropropene	<0.00086		0.0028	0.00086	mg/Kg	☼	08/05/19 15:50	08/07/19 14:35	1
Dibromochloromethane	<0.00093		0.0028	0.00093	mg/Kg	☼	08/05/19 15:50	08/07/19 14:35	1
1,1-Dichloroethane	<0.00097		0.0028	0.00097	mg/Kg	☼	08/05/19 15:50	08/07/19 14:35	1
1,2-Dichloroethane	<0.0022		0.0071	0.0022	mg/Kg	☼	08/05/19 15:50	08/07/19 14:35	1
1,1-Dichloroethene	<0.00098		0.0028	0.00098	mg/Kg	☼	08/05/19 15:50	08/07/19 14:35	1
1,2-Dichloropropane	<0.00073		0.0028	0.00073	mg/Kg	☼	08/05/19 15:50	08/07/19 14:35	1
1,3-Dichloropropane, Total	<0.0010		0.0028	0.0010	mg/Kg	☼	08/05/19 15:50	08/07/19 14:35	1
Ethylbenzene	<0.0014		0.0028	0.0014	mg/Kg	☼	08/05/19 15:50	08/07/19 14:35	1
2-Hexanone	<0.0022		0.0071	0.0022	mg/Kg	☼	08/05/19 15:50	08/07/19 14:35	1
Methylene Chloride	<0.0028		0.0071	0.0028	mg/Kg	☼	08/05/19 15:50	08/07/19 14:35	1
4-Methyl-2-pentanone (MIBK)	<0.0021		0.0071	0.0021	mg/Kg	☼	08/05/19 15:50	08/07/19 14:35	1
Methyl tert-butyl ether	<0.00083		0.0028	0.00083	mg/Kg	☼	08/05/19 15:50	08/07/19 14:35	1
Styrene	<0.00086		0.0028	0.00086	mg/Kg	☼	08/05/19 15:50	08/07/19 14:35	1
1,1,2,2-Tetrachloroethane	<0.00091		0.0028	0.00091	mg/Kg	☼	08/05/19 15:50	08/07/19 14:35	1
Tetrachloroethene	<0.00097		0.0028	0.00097	mg/Kg	☼	08/05/19 15:50	08/07/19 14:35	1
Toluene	<0.00072		0.0028	0.00072	mg/Kg	☼	08/05/19 15:50	08/07/19 14:35	1
trans-1,2-Dichloroethene	<0.0013		0.0028	0.0013	mg/Kg	☼	08/05/19 15:50	08/07/19 14:35	1
trans-1,3-Dichloropropene	<0.0010		0.0028	0.0010	mg/Kg	☼	08/05/19 15:50	08/07/19 14:35	1
1,1,1-Trichloroethane	<0.00095		0.0028	0.00095	mg/Kg	☼	08/05/19 15:50	08/07/19 14:35	1
1,1,2-Trichloroethane	<0.0012		0.0028	0.0012	mg/Kg	☼	08/05/19 15:50	08/07/19 14:35	1
Trichloroethene	<0.00096		0.0028	0.00096	mg/Kg	☼	08/05/19 15:50	08/07/19 14:35	1
Vinyl acetate	<0.0025		0.0071	0.0025	mg/Kg	☼	08/05/19 15:50	08/07/19 14:35	1
Vinyl chloride	<0.0013		0.0028	0.0013	mg/Kg	☼	08/05/19 15:50	08/07/19 14:35	1
Xylenes, Total	<0.00091		0.0057	0.00091	mg/Kg	☼	08/05/19 15:50	08/07/19 14:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		75 - 131	08/05/19 15:50	08/07/19 14:35	1
Dibromofluoromethane	98		75 - 126	08/05/19 15:50	08/07/19 14:35	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	08/05/19 15:50	08/07/19 14:35	1
Toluene-d8 (Surr)	92		75 - 124	08/05/19 15:50	08/07/19 14:35	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.0098	J	0.039	0.0071	mg/Kg	☼	08/07/19 07:34	08/08/19 18:59	1
Acenaphthylene	0.013	J	0.039	0.0052	mg/Kg	☼	08/07/19 07:34	08/08/19 18:59	1
Anthracene	0.038	J	0.039	0.0066	mg/Kg	☼	08/07/19 07:34	08/08/19 18:59	1
Benzo[a]anthracene	0.18		0.039	0.0053	mg/Kg	☼	08/07/19 07:34	08/08/19 18:59	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B07 (0-5)

Lab Sample ID: 500-167784-7

Date Collected: 08/05/19 11:05

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 83.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.21		0.039	0.0077	mg/Kg	☼	08/07/19 07:34	08/08/19 18:59	1
Benzo[b]fluoranthene	0.31		0.039	0.0086	mg/Kg	☼	08/07/19 07:34	08/08/19 18:59	1
Benzo[g,h,i]perylene	0.10		0.039	0.013	mg/Kg	☼	08/07/19 07:34	08/08/19 18:59	1
Benzo[k]fluoranthene	0.090		0.039	0.012	mg/Kg	☼	08/07/19 07:34	08/08/19 18:59	1
Bis(2-chloroethoxy)methane	<0.040		0.20	0.040	mg/Kg	☼	08/07/19 07:34	08/08/19 18:59	1
Bis(2-chloroethyl)ether	<0.059		0.20	0.059	mg/Kg	☼	08/07/19 07:34	08/08/19 18:59	1
Bis(2-ethylhexyl) phthalate	<0.072		0.20	0.072	mg/Kg	☼	08/07/19 07:34	08/08/19 18:59	1
4-Bromophenyl phenyl ether	<0.052		0.20	0.052	mg/Kg	☼	08/07/19 07:34	08/08/19 18:59	1
Butyl benzyl phthalate	<0.075		0.20	0.075	mg/Kg	☼	08/07/19 07:34	08/08/19 18:59	1
Carbazole	<0.099		0.20	0.099	mg/Kg	☼	08/07/19 07:34	08/08/19 18:59	1
4-Chloroaniline	<0.19		0.80	0.19	mg/Kg	☼	08/07/19 07:34	08/08/19 18:59	1
4-Chloro-3-methylphenol	<0.13		0.39	0.13	mg/Kg	☼	08/07/19 07:34	08/08/19 18:59	1
2-Chloronaphthalene	<0.044		0.20	0.044	mg/Kg	☼	08/07/19 07:34	08/08/19 18:59	1
2-Chlorophenol	<0.068		0.20	0.068	mg/Kg	☼	08/07/19 07:34	08/08/19 18:59	1
4-Chlorophenyl phenyl ether	<0.046		0.20	0.046	mg/Kg	☼	08/07/19 07:34	08/08/19 18:59	1
Chrysene	0.19		0.039	0.011	mg/Kg	☼	08/07/19 07:34	08/08/19 18:59	1
Dibenz(a,h)anthracene	0.017 J		0.039	0.0077	mg/Kg	☼	08/07/19 07:34	08/08/19 18:59	1
Dibenzofuran	<0.046		0.20	0.046	mg/Kg	☼	08/07/19 07:34	08/08/19 18:59	1
1,2-Dichlorobenzene	<0.047		0.20	0.047	mg/Kg	☼	08/07/19 07:34	08/08/19 18:59	1
1,3-Dichlorobenzene	<0.045		0.20	0.045	mg/Kg	☼	08/07/19 07:34	08/08/19 18:59	1
1,4-Dichlorobenzene	<0.051		0.20	0.051	mg/Kg	☼	08/07/19 07:34	08/08/19 18:59	1
3,3'-Dichlorobenzidine	<0.056		0.20	0.056	mg/Kg	☼	08/07/19 07:34	08/08/19 18:59	1
2,4-Dichlorophenol	<0.094		0.39	0.094	mg/Kg	☼	08/07/19 07:34	08/08/19 18:59	1
Diethyl phthalate	<0.067		0.20	0.067	mg/Kg	☼	08/07/19 07:34	08/08/19 18:59	1
2,4-Dimethylphenol	<0.15		0.39	0.15	mg/Kg	☼	08/07/19 07:34	08/08/19 18:59	1
Dimethyl phthalate	<0.052		0.20	0.052	mg/Kg	☼	08/07/19 07:34	08/08/19 18:59	1
Di-n-butyl phthalate	<0.060		0.20	0.060	mg/Kg	☼	08/07/19 07:34	08/08/19 18:59	1
4,6-Dinitro-2-methylphenol	<0.32		0.80	0.32	mg/Kg	☼	08/07/19 07:34	08/08/19 18:59	1
2,4-Dinitrophenol	<0.70		0.80	0.70	mg/Kg	☼	08/07/19 07:34	08/08/19 18:59	1
2,4-Dinitrotoluene	<0.063		0.20	0.063	mg/Kg	☼	08/07/19 07:34	08/08/19 18:59	1
2,6-Dinitrotoluene	<0.078		0.20	0.078	mg/Kg	☼	08/07/19 07:34	08/08/19 18:59	1
Di-n-octyl phthalate	<0.065		0.20	0.065	mg/Kg	☼	08/07/19 07:34	08/08/19 18:59	1
Fluoranthene	0.31		0.039	0.0074	mg/Kg	☼	08/07/19 07:34	08/08/19 18:59	1
Fluorene	0.0093 J		0.039	0.0056	mg/Kg	☼	08/07/19 07:34	08/08/19 18:59	1
Hexachlorobenzene	<0.0092		0.080	0.0092	mg/Kg	☼	08/07/19 07:34	08/08/19 18:59	1
Hexachlorobutadiene	<0.062		0.20	0.062	mg/Kg	☼	08/07/19 07:34	08/08/19 18:59	1
Hexachlorocyclopentadiene	<0.23		0.80	0.23	mg/Kg	☼	08/07/19 07:34	08/08/19 18:59	1
Hexachloroethane	<0.060		0.20	0.060	mg/Kg	☼	08/07/19 07:34	08/08/19 18:59	1
Indeno[1,2,3-cd]pyrene	0.091		0.039	0.010	mg/Kg	☼	08/07/19 07:34	08/08/19 18:59	1
Isophorone	<0.045		0.20	0.045	mg/Kg	☼	08/07/19 07:34	08/08/19 18:59	1
2-Methylnaphthalene	0.0076 J		0.080	0.0073	mg/Kg	☼	08/07/19 07:34	08/08/19 18:59	1
2-Methylphenol	<0.064		0.20	0.064	mg/Kg	☼	08/07/19 07:34	08/08/19 18:59	1
3 & 4 Methylphenol	<0.066		0.20	0.066	mg/Kg	☼	08/07/19 07:34	08/08/19 18:59	1
Naphthalene	0.0075 J		0.039	0.0061	mg/Kg	☼	08/07/19 07:34	08/08/19 18:59	1
2-Nitroaniline	<0.053		0.20	0.053	mg/Kg	☼	08/07/19 07:34	08/08/19 18:59	1
3-Nitroaniline	<0.12		0.39	0.12	mg/Kg	☼	08/07/19 07:34	08/08/19 18:59	1
4-Nitroaniline	<0.17		0.39	0.17	mg/Kg	☼	08/07/19 07:34	08/08/19 18:59	1
Nitrobenzene	<0.0099		0.039	0.0099	mg/Kg	☼	08/07/19 07:34	08/08/19 18:59	1
2-Nitrophenol	<0.094		0.39	0.094	mg/Kg	☼	08/07/19 07:34	08/08/19 18:59	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B07 (0-5)

Lab Sample ID: 500-167784-7

Date Collected: 08/05/19 11:05

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 83.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.38		0.80	0.38	mg/Kg	☼	08/07/19 07:34	08/08/19 18:59	1
N-Nitrosodi-n-propylamine	<0.048		0.080	0.048	mg/Kg	☼	08/07/19 07:34	08/08/19 18:59	1
N-Nitrosodiphenylamine	<0.047		0.20	0.047	mg/Kg	☼	08/07/19 07:34	08/08/19 18:59	1
2,2'-oxybis[1-chloropropane]	<0.046		0.20	0.046	mg/Kg	☼	08/07/19 07:34	08/08/19 18:59	1
Pentachlorophenol	<0.64		0.80	0.64	mg/Kg	☼	08/07/19 07:34	08/08/19 18:59	1
Phenanthrene	0.15		0.039	0.0055	mg/Kg	☼	08/07/19 07:34	08/08/19 18:59	1
Phenol	<0.088		0.20	0.088	mg/Kg	☼	08/07/19 07:34	08/08/19 18:59	1
Pyrene	0.33		0.039	0.0079	mg/Kg	☼	08/07/19 07:34	08/08/19 18:59	1
1,2,4-Trichlorobenzene	<0.043		0.20	0.043	mg/Kg	☼	08/07/19 07:34	08/08/19 18:59	1
2,4,5-Trichlorophenol	<0.091		0.39	0.091	mg/Kg	☼	08/07/19 07:34	08/08/19 18:59	1
2,4,6-Trichlorophenol	<0.14		0.39	0.14	mg/Kg	☼	08/07/19 07:34	08/08/19 18:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	90		43 - 145	08/07/19 07:34	08/08/19 18:59	1
2-Fluorophenol	89		31 - 166	08/07/19 07:34	08/08/19 18:59	1
Nitrobenzene-d5	70		37 - 147	08/07/19 07:34	08/08/19 18:59	1
Phenol-d5	78		30 - 153	08/07/19 07:34	08/08/19 18:59	1
Terphenyl-d14	123		42 - 157	08/07/19 07:34	08/08/19 18:59	1
2,4,6-Tribromophenol	82		31 - 143	08/07/19 07:34	08/08/19 18:59	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.69	J	1.1	0.22	mg/Kg	☼	08/07/19 07:49	08/08/19 01:18	1
Arsenic	4.0		0.57	0.20	mg/Kg	☼	08/07/19 07:49	08/08/19 01:18	1
Barium	47		0.57	0.065	mg/Kg	☼	08/07/19 07:49	08/08/19 01:18	1
Beryllium	0.33		0.23	0.053	mg/Kg	☼	08/07/19 07:49	08/08/19 01:18	1
Cadmium	0.42	B	0.11	0.021	mg/Kg	☼	08/07/19 07:49	08/08/19 01:18	1
Chromium	8.5		0.57	0.28	mg/Kg	☼	08/07/19 07:49	08/08/19 01:18	1
Cobalt	4.2		0.29	0.075	mg/Kg	☼	08/07/19 07:49	08/08/19 01:18	1
Copper	19		0.57	0.16	mg/Kg	☼	08/07/19 07:49	08/08/19 01:18	1
Iron	8400		11	5.9	mg/Kg	☼	08/07/19 07:49	08/08/19 01:18	1
Lead	94		0.29	0.13	mg/Kg	☼	08/07/19 07:49	08/08/19 01:18	1
Magnesium	83000	B	29	14	mg/Kg	☼	08/07/19 07:49	08/08/19 11:50	5
Calcium	120000	B	57	9.7	mg/Kg	☼	08/07/19 07:49	08/08/19 11:50	5
Manganese	210		0.57	0.083	mg/Kg	☼	08/07/19 07:49	08/08/19 01:18	1
Nickel	9.7		0.57	0.17	mg/Kg	☼	08/07/19 07:49	08/08/19 01:18	1
Selenium	<0.34		0.57	0.34	mg/Kg	☼	08/07/19 07:49	08/08/19 01:18	1
Silver	1.1		0.29	0.074	mg/Kg	☼	08/07/19 07:49	08/08/19 01:18	1
Thallium	0.36	J	0.57	0.28	mg/Kg	☼	08/07/19 07:49	08/08/19 01:18	1
Vanadium	12		0.29	0.067	mg/Kg	☼	08/07/19 07:49	08/08/19 01:18	1
Zinc	68		1.1	0.50	mg/Kg	☼	08/07/19 07:49	08/08/19 01:18	1
Potassium	1100		29	10	mg/Kg	☼	08/07/19 07:49	08/08/19 01:18	1
Sodium	240		57	8.4	mg/Kg	☼	08/07/19 07:49	08/08/19 01:18	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/08/19 14:42	08/10/19 07:40	1
Barium	0.30	J	0.50	0.050	mg/L		08/08/19 14:42	08/10/19 07:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/08/19 14:42	08/10/19 07:40	1
Cadmium	0.0021	J	0.0050	0.0020	mg/L		08/08/19 14:42	08/10/19 07:40	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B07 (0-5)

Lab Sample ID: 500-167784-7

Date Collected: 08/05/19 11:05

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 83.4

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	200		5.0	0.50	mg/L		08/08/19 14:42	08/10/19 07:40	1
Chromium	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:40	1
Cobalt	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:40	1
Copper	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:40	1
Iron	<0.20		0.40	0.20	mg/L		08/08/19 14:42	08/10/19 07:40	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/08/19 14:42	08/10/19 07:40	1
Magnesium	85		2.5	0.50	mg/L		08/08/19 14:42	08/10/19 07:40	1
Manganese	0.016	J	0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:40	1
Nickel	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:40	1
Potassium	2.8		2.5	0.50	mg/L		08/08/19 14:42	08/10/19 07:40	1
Selenium	<0.020		0.050	0.020	mg/L		08/08/19 14:42	08/10/19 07:40	1
Silver	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:40	1
Vanadium	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:40	1
Zinc	0.064	J	0.50	0.020	mg/L		08/08/19 14:42	08/10/19 07:40	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/08/19 14:42	08/09/19 14:24	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/08/19 14:42	08/09/19 14:24	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/09/19 10:05	08/09/19 16:20	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.019	0.0062	mg/Kg	☼	08/07/19 11:20	08/08/19 09:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.21		0.41	0.21	mg/Kg	☼	08/15/19 10:25	08/15/19 15:10	1
pH	8.7		0.2	0.2	SU			08/06/19 13:34	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B07 (5-10)

Lab Sample ID: 500-167784-8

Date Collected: 08/05/19 11:10

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 88.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0081	J *	0.018	0.0080	mg/Kg	☼	08/05/19 15:50	08/07/19 15:01	1
Benzene	<0.00047		0.0018	0.00047	mg/Kg	☼	08/05/19 15:50	08/07/19 15:01	1
Bromodichloromethane	<0.00038		0.0018	0.00038	mg/Kg	☼	08/05/19 15:50	08/07/19 15:01	1
Bromoform	<0.00054		0.0018	0.00054	mg/Kg	☼	08/05/19 15:50	08/07/19 15:01	1
Bromomethane	<0.0017		0.0046	0.0017	mg/Kg	☼	08/05/19 15:50	08/07/19 15:01	1
2-Butanone (MEK)	<0.0020	*	0.0046	0.0020	mg/Kg	☼	08/05/19 15:50	08/07/19 15:01	1
Carbon disulfide	<0.00096		0.0046	0.00096	mg/Kg	☼	08/05/19 15:50	08/07/19 15:01	1
Carbon tetrachloride	<0.00053		0.0018	0.00053	mg/Kg	☼	08/05/19 15:50	08/07/19 15:01	1
Chlorobenzene	<0.00068		0.0018	0.00068	mg/Kg	☼	08/05/19 15:50	08/07/19 15:01	1
Chloroethane	<0.0014	*	0.0046	0.0014	mg/Kg	☼	08/05/19 15:50	08/07/19 15:01	1
Chloroform	<0.00064		0.0018	0.00064	mg/Kg	☼	08/05/19 15:50	08/07/19 15:01	1
Chloromethane	<0.0019		0.0046	0.0019	mg/Kg	☼	08/05/19 15:50	08/07/19 15:01	1
cis-1,2-Dichloroethene	<0.00052		0.0018	0.00052	mg/Kg	☼	08/05/19 15:50	08/07/19 15:01	1
cis-1,3-Dichloropropene	<0.00056		0.0018	0.00056	mg/Kg	☼	08/05/19 15:50	08/07/19 15:01	1
Dibromochloromethane	<0.00060		0.0018	0.00060	mg/Kg	☼	08/05/19 15:50	08/07/19 15:01	1
1,1-Dichloroethane	<0.00063		0.0018	0.00063	mg/Kg	☼	08/05/19 15:50	08/07/19 15:01	1
1,2-Dichloroethane	<0.0014		0.0046	0.0014	mg/Kg	☼	08/05/19 15:50	08/07/19 15:01	1
1,1-Dichloroethene	<0.00063		0.0018	0.00063	mg/Kg	☼	08/05/19 15:50	08/07/19 15:01	1
1,2-Dichloropropene	<0.00048		0.0018	0.00048	mg/Kg	☼	08/05/19 15:50	08/07/19 15:01	1
1,3-Dichloropropene, Total	<0.00065		0.0018	0.00065	mg/Kg	☼	08/05/19 15:50	08/07/19 15:01	1
Ethylbenzene	<0.00088		0.0018	0.00088	mg/Kg	☼	08/05/19 15:50	08/07/19 15:01	1
2-Hexanone	<0.0014		0.0046	0.0014	mg/Kg	☼	08/05/19 15:50	08/07/19 15:01	1
Methylene Chloride	0.0030	J	0.0046	0.0018	mg/Kg	☼	08/05/19 15:50	08/07/19 15:01	1
4-Methyl-2-pentanone (MIBK)	<0.0014		0.0046	0.0014	mg/Kg	☼	08/05/19 15:50	08/07/19 15:01	1
Methyl tert-butyl ether	<0.00054		0.0018	0.00054	mg/Kg	☼	08/05/19 15:50	08/07/19 15:01	1
Styrene	<0.00056		0.0018	0.00056	mg/Kg	☼	08/05/19 15:50	08/07/19 15:01	1
1,1,2,2-Tetrachloroethane	<0.00059		0.0018	0.00059	mg/Kg	☼	08/05/19 15:50	08/07/19 15:01	1
Tetrachloroethene	<0.00063		0.0018	0.00063	mg/Kg	☼	08/05/19 15:50	08/07/19 15:01	1
Toluene	<0.00047		0.0018	0.00047	mg/Kg	☼	08/05/19 15:50	08/07/19 15:01	1
trans-1,2-Dichloroethene	<0.00082		0.0018	0.00082	mg/Kg	☼	08/05/19 15:50	08/07/19 15:01	1
trans-1,3-Dichloropropene	<0.00065		0.0018	0.00065	mg/Kg	☼	08/05/19 15:50	08/07/19 15:01	1
1,1,1-Trichloroethane	<0.00062		0.0018	0.00062	mg/Kg	☼	08/05/19 15:50	08/07/19 15:01	1
1,1,2-Trichloroethane	<0.00079		0.0018	0.00079	mg/Kg	☼	08/05/19 15:50	08/07/19 15:01	1
Trichloroethene	<0.00062		0.0018	0.00062	mg/Kg	☼	08/05/19 15:50	08/07/19 15:01	1
Vinyl acetate	<0.0016		0.0046	0.0016	mg/Kg	☼	08/05/19 15:50	08/07/19 15:01	1
Vinyl chloride	<0.00082		0.0018	0.00082	mg/Kg	☼	08/05/19 15:50	08/07/19 15:01	1
Xylenes, Total	<0.00059		0.0037	0.00059	mg/Kg	☼	08/05/19 15:50	08/07/19 15:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		75 - 131	08/05/19 15:50	08/07/19 15:01	1
Dibromofluoromethane	101		75 - 126	08/05/19 15:50	08/07/19 15:01	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	08/05/19 15:50	08/07/19 15:01	1
Toluene-d8 (Surr)	92		75 - 124	08/05/19 15:50	08/07/19 15:01	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0066		0.036	0.0066	mg/Kg	☼	08/07/19 07:34	08/08/19 17:22	1
Acenaphthylene	<0.0048		0.036	0.0048	mg/Kg	☼	08/07/19 07:34	08/08/19 17:22	1
Anthracene	0.0062	J	0.036	0.0061	mg/Kg	☼	08/07/19 07:34	08/08/19 17:22	1
Benzo[a]anthracene	0.025	J	0.036	0.0049	mg/Kg	☼	08/07/19 07:34	08/08/19 17:22	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B07 (5-10)

Lab Sample ID: 500-167784-8

Date Collected: 08/05/19 11:10

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 88.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.034	J	0.036	0.0071	mg/Kg	☼	08/07/19 07:34	08/08/19 17:22	1
Benzo[b]fluoranthene	0.036		0.036	0.0079	mg/Kg	☼	08/07/19 07:34	08/08/19 17:22	1
Benzo[g,h,i]perylene	0.021	J	0.036	0.012	mg/Kg	☼	08/07/19 07:34	08/08/19 17:22	1
Benzo[k]fluoranthene	0.011	J	0.036	0.011	mg/Kg	☼	08/07/19 07:34	08/08/19 17:22	1
Bis(2-chloroethoxy)methane	<0.037		0.18	0.037	mg/Kg	☼	08/07/19 07:34	08/08/19 17:22	1
Bis(2-chloroethyl)ether	<0.055		0.18	0.055	mg/Kg	☼	08/07/19 07:34	08/08/19 17:22	1
Bis(2-ethylhexyl) phthalate	<0.067		0.18	0.067	mg/Kg	☼	08/07/19 07:34	08/08/19 17:22	1
4-Bromophenyl phenyl ether	<0.048		0.18	0.048	mg/Kg	☼	08/07/19 07:34	08/08/19 17:22	1
Butyl benzyl phthalate	<0.070		0.18	0.070	mg/Kg	☼	08/07/19 07:34	08/08/19 17:22	1
Carbazole	<0.092		0.18	0.092	mg/Kg	☼	08/07/19 07:34	08/08/19 17:22	1
4-Chloroaniline	<0.17		0.74	0.17	mg/Kg	☼	08/07/19 07:34	08/08/19 17:22	1
4-Chloro-3-methylphenol	<0.12		0.36	0.12	mg/Kg	☼	08/07/19 07:34	08/08/19 17:22	1
2-Chloronaphthalene	<0.041		0.18	0.041	mg/Kg	☼	08/07/19 07:34	08/08/19 17:22	1
2-Chlorophenol	<0.063		0.18	0.063	mg/Kg	☼	08/07/19 07:34	08/08/19 17:22	1
4-Chlorophenyl phenyl ether	<0.043		0.18	0.043	mg/Kg	☼	08/07/19 07:34	08/08/19 17:22	1
Chrysene	0.028	J	0.036	0.010	mg/Kg	☼	08/07/19 07:34	08/08/19 17:22	1
Dibenz(a,h)anthracene	<0.0071		0.036	0.0071	mg/Kg	☼	08/07/19 07:34	08/08/19 17:22	1
Dibenzofuran	<0.043		0.18	0.043	mg/Kg	☼	08/07/19 07:34	08/08/19 17:22	1
1,2-Dichlorobenzene	<0.044		0.18	0.044	mg/Kg	☼	08/07/19 07:34	08/08/19 17:22	1
1,3-Dichlorobenzene	<0.041		0.18	0.041	mg/Kg	☼	08/07/19 07:34	08/08/19 17:22	1
1,4-Dichlorobenzene	<0.047		0.18	0.047	mg/Kg	☼	08/07/19 07:34	08/08/19 17:22	1
3,3'-Dichlorobenzidine	<0.051		0.18	0.051	mg/Kg	☼	08/07/19 07:34	08/08/19 17:22	1
2,4-Dichlorophenol	<0.087		0.36	0.087	mg/Kg	☼	08/07/19 07:34	08/08/19 17:22	1
Diethyl phthalate	<0.062		0.18	0.062	mg/Kg	☼	08/07/19 07:34	08/08/19 17:22	1
2,4-Dimethylphenol	<0.14		0.36	0.14	mg/Kg	☼	08/07/19 07:34	08/08/19 17:22	1
Dimethyl phthalate	<0.048		0.18	0.048	mg/Kg	☼	08/07/19 07:34	08/08/19 17:22	1
Di-n-butyl phthalate	<0.056		0.18	0.056	mg/Kg	☼	08/07/19 07:34	08/08/19 17:22	1
4,6-Dinitro-2-methylphenol	<0.29		0.74	0.29	mg/Kg	☼	08/07/19 07:34	08/08/19 17:22	1
2,4-Dinitrophenol	<0.65		0.74	0.65	mg/Kg	☼	08/07/19 07:34	08/08/19 17:22	1
2,4-Dinitrotoluene	<0.058		0.18	0.058	mg/Kg	☼	08/07/19 07:34	08/08/19 17:22	1
2,6-Dinitrotoluene	<0.072		0.18	0.072	mg/Kg	☼	08/07/19 07:34	08/08/19 17:22	1
Di-n-octyl phthalate	<0.060		0.18	0.060	mg/Kg	☼	08/07/19 07:34	08/08/19 17:22	1
Fluoranthene	0.038		0.036	0.0068	mg/Kg	☼	08/07/19 07:34	08/08/19 17:22	1
Fluorene	<0.0052		0.036	0.0052	mg/Kg	☼	08/07/19 07:34	08/08/19 17:22	1
Hexachlorobenzene	<0.0085		0.074	0.0085	mg/Kg	☼	08/07/19 07:34	08/08/19 17:22	1
Hexachlorobutadiene	<0.058		0.18	0.058	mg/Kg	☼	08/07/19 07:34	08/08/19 17:22	1
Hexachlorocyclopentadiene	<0.21		0.74	0.21	mg/Kg	☼	08/07/19 07:34	08/08/19 17:22	1
Hexachloroethane	<0.056		0.18	0.056	mg/Kg	☼	08/07/19 07:34	08/08/19 17:22	1
Indeno[1,2,3-cd]pyrene	0.023	J	0.036	0.0095	mg/Kg	☼	08/07/19 07:34	08/08/19 17:22	1
Isophorone	<0.041		0.18	0.041	mg/Kg	☼	08/07/19 07:34	08/08/19 17:22	1
2-Methylnaphthalene	<0.0068		0.074	0.0068	mg/Kg	☼	08/07/19 07:34	08/08/19 17:22	1
2-Methylphenol	<0.059		0.18	0.059	mg/Kg	☼	08/07/19 07:34	08/08/19 17:22	1
3 & 4 Methylphenol	<0.061		0.18	0.061	mg/Kg	☼	08/07/19 07:34	08/08/19 17:22	1
Naphthalene	<0.0056		0.036	0.0056	mg/Kg	☼	08/07/19 07:34	08/08/19 17:22	1
2-Nitroaniline	<0.049		0.18	0.049	mg/Kg	☼	08/07/19 07:34	08/08/19 17:22	1
3-Nitroaniline	<0.11		0.36	0.11	mg/Kg	☼	08/07/19 07:34	08/08/19 17:22	1
4-Nitroaniline	<0.15		0.36	0.15	mg/Kg	☼	08/07/19 07:34	08/08/19 17:22	1
Nitrobenzene	<0.0092		0.036	0.0092	mg/Kg	☼	08/07/19 07:34	08/08/19 17:22	1
2-Nitrophenol	<0.087		0.36	0.087	mg/Kg	☼	08/07/19 07:34	08/08/19 17:22	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B07 (5-10)

Lab Sample ID: 500-167784-8

Date Collected: 08/05/19 11:10

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 88.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.35		0.74	0.35	mg/Kg	☼	08/07/19 07:34	08/08/19 17:22	1
N-Nitrosodi-n-propylamine	<0.045		0.074	0.045	mg/Kg	☼	08/07/19 07:34	08/08/19 17:22	1
N-Nitrosodiphenylamine	<0.043		0.18	0.043	mg/Kg	☼	08/07/19 07:34	08/08/19 17:22	1
2,2'-oxybis[1-chloropropane]	<0.043		0.18	0.043	mg/Kg	☼	08/07/19 07:34	08/08/19 17:22	1
Pentachlorophenol	<0.59		0.74	0.59	mg/Kg	☼	08/07/19 07:34	08/08/19 17:22	1
Phenanthrene	0.020	J	0.036	0.0051	mg/Kg	☼	08/07/19 07:34	08/08/19 17:22	1
Phenol	<0.082		0.18	0.082	mg/Kg	☼	08/07/19 07:34	08/08/19 17:22	1
Pyrene	0.042		0.036	0.0073	mg/Kg	☼	08/07/19 07:34	08/08/19 17:22	1
1,2,4-Trichlorobenzene	<0.040		0.18	0.040	mg/Kg	☼	08/07/19 07:34	08/08/19 17:22	1
2,4,5-Trichlorophenol	<0.084		0.36	0.084	mg/Kg	☼	08/07/19 07:34	08/08/19 17:22	1
2,4,6-Trichlorophenol	<0.13		0.36	0.13	mg/Kg	☼	08/07/19 07:34	08/08/19 17:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	83		43 - 145	08/07/19 07:34	08/08/19 17:22	1
2-Fluorophenol	82		31 - 166	08/07/19 07:34	08/08/19 17:22	1
Nitrobenzene-d5	68		37 - 147	08/07/19 07:34	08/08/19 17:22	1
Phenol-d5	70		30 - 153	08/07/19 07:34	08/08/19 17:22	1
Terphenyl-d14	105		42 - 157	08/07/19 07:34	08/08/19 17:22	1
2,4,6-Tribromophenol	103		31 - 143	08/07/19 07:34	08/08/19 17:22	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.42	J	1.1	0.22	mg/Kg	☼	08/07/19 07:49	08/08/19 01:22	1
Arsenic	5.3		0.56	0.19	mg/Kg	☼	08/07/19 07:49	08/08/19 01:22	1
Barium	66		0.56	0.064	mg/Kg	☼	08/07/19 07:49	08/08/19 01:22	1
Beryllium	0.52		0.22	0.052	mg/Kg	☼	08/07/19 07:49	08/08/19 01:22	1
Cadmium	0.23	B	0.11	0.020	mg/Kg	☼	08/07/19 07:49	08/08/19 01:22	1
Chromium	12		0.56	0.28	mg/Kg	☼	08/07/19 07:49	08/08/19 01:22	1
Cobalt	13		0.28	0.073	mg/Kg	☼	08/07/19 07:49	08/08/19 01:22	1
Copper	13		0.56	0.16	mg/Kg	☼	08/07/19 07:49	08/08/19 01:22	1
Iron	12000		11	5.8	mg/Kg	☼	08/07/19 07:49	08/08/19 01:22	1
Lead	24		0.28	0.13	mg/Kg	☼	08/07/19 07:49	08/08/19 01:22	1
Magnesium	60000	B	28	14	mg/Kg	☼	08/07/19 07:49	08/08/19 11:54	5
Calcium	89000	B	56	9.4	mg/Kg	☼	08/07/19 07:49	08/08/19 11:54	5
Manganese	360		0.56	0.081	mg/Kg	☼	08/07/19 07:49	08/08/19 01:22	1
Nickel	14		0.56	0.16	mg/Kg	☼	08/07/19 07:49	08/08/19 01:22	1
Selenium	<0.33		0.56	0.33	mg/Kg	☼	08/07/19 07:49	08/08/19 01:22	1
Silver	1.9		0.28	0.072	mg/Kg	☼	08/07/19 07:49	08/08/19 01:22	1
Thallium	0.46	J	0.56	0.28	mg/Kg	☼	08/07/19 07:49	08/08/19 01:22	1
Vanadium	18		0.28	0.066	mg/Kg	☼	08/07/19 07:49	08/08/19 01:22	1
Zinc	49		1.1	0.49	mg/Kg	☼	08/07/19 07:49	08/08/19 01:22	1
Potassium	1500		28	9.9	mg/Kg	☼	08/07/19 07:49	08/08/19 01:22	1
Sodium	310		56	8.2	mg/Kg	☼	08/07/19 07:49	08/08/19 01:22	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/08/19 14:42	08/10/19 07:44	1
Barium	0.28	J	0.50	0.050	mg/L		08/08/19 14:42	08/10/19 07:44	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/08/19 14:42	08/10/19 07:44	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/08/19 14:42	08/10/19 07:44	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B07 (5-10)

Lab Sample ID: 500-167784-8

Date Collected: 08/05/19 11:10

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 88.6

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	190		5.0	0.50	mg/L		08/08/19 14:42	08/10/19 07:44	1
Chromium	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:44	1
Cobalt	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:44	1
Copper	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:44	1
Iron	<0.20		0.40	0.20	mg/L		08/08/19 14:42	08/10/19 07:44	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/08/19 14:42	08/10/19 07:44	1
Magnesium	100		2.5	0.50	mg/L		08/08/19 14:42	08/10/19 07:44	1
Manganese	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:44	1
Nickel	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:44	1
Potassium	1.7 J		2.5	0.50	mg/L		08/08/19 14:42	08/10/19 07:44	1
Selenium	<0.020		0.050	0.020	mg/L		08/08/19 14:42	08/10/19 07:44	1
Silver	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:44	1
Vanadium	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:44	1
Zinc	0.67		0.50	0.020	mg/L		08/08/19 14:42	08/10/19 07:44	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/08/19 14:42	08/09/19 14:28	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/08/19 14:42	08/09/19 14:28	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/09/19 10:05	08/09/19 16:22	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.018	0.0059	mg/Kg	☼	08/07/19 11:20	08/08/19 09:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.25		0.51	0.25	mg/Kg	☼	08/15/19 10:25	08/15/19 15:11	1
pH	8.6		0.2	0.2	SU			08/06/19 13:39	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B07 (10-13.5)

Lab Sample ID: 500-167784-9

Date Collected: 08/05/19 11:15

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 83.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0099	J *	0.017	0.0075	mg/Kg	☼	08/05/19 15:50	08/07/19 15:28	1
Benzene	<0.00044		0.0017	0.00044	mg/Kg	☼	08/05/19 15:50	08/07/19 15:28	1
Bromodichloromethane	<0.00035		0.0017	0.00035	mg/Kg	☼	08/05/19 15:50	08/07/19 15:28	1
Bromoform	<0.00050		0.0017	0.00050	mg/Kg	☼	08/05/19 15:50	08/07/19 15:28	1
Bromomethane	<0.0016		0.0043	0.0016	mg/Kg	☼	08/05/19 15:50	08/07/19 15:28	1
2-Butanone (MEK)	<0.0019	*	0.0043	0.0019	mg/Kg	☼	08/05/19 15:50	08/07/19 15:28	1
Carbon disulfide	<0.00089		0.0043	0.00089	mg/Kg	☼	08/05/19 15:50	08/07/19 15:28	1
Carbon tetrachloride	<0.00050		0.0017	0.00050	mg/Kg	☼	08/05/19 15:50	08/07/19 15:28	1
Chlorobenzene	<0.00063		0.0017	0.00063	mg/Kg	☼	08/05/19 15:50	08/07/19 15:28	1
Chloroethane	<0.0013	*	0.0043	0.0013	mg/Kg	☼	08/05/19 15:50	08/07/19 15:28	1
Chloroform	<0.00060		0.0017	0.00060	mg/Kg	☼	08/05/19 15:50	08/07/19 15:28	1
Chloromethane	<0.0017		0.0043	0.0017	mg/Kg	☼	08/05/19 15:50	08/07/19 15:28	1
cis-1,2-Dichloroethene	<0.00048		0.0017	0.00048	mg/Kg	☼	08/05/19 15:50	08/07/19 15:28	1
cis-1,3-Dichloropropene	<0.00052		0.0017	0.00052	mg/Kg	☼	08/05/19 15:50	08/07/19 15:28	1
Dibromochloromethane	<0.00056		0.0017	0.00056	mg/Kg	☼	08/05/19 15:50	08/07/19 15:28	1
1,1-Dichloroethane	<0.00059		0.0017	0.00059	mg/Kg	☼	08/05/19 15:50	08/07/19 15:28	1
1,2-Dichloroethane	<0.0013		0.0043	0.0013	mg/Kg	☼	08/05/19 15:50	08/07/19 15:28	1
1,1-Dichloroethene	<0.00059		0.0017	0.00059	mg/Kg	☼	08/05/19 15:50	08/07/19 15:28	1
1,2-Dichloropropane	<0.00044		0.0017	0.00044	mg/Kg	☼	08/05/19 15:50	08/07/19 15:28	1
1,3-Dichloropropane, Total	<0.00060		0.0017	0.00060	mg/Kg	☼	08/05/19 15:50	08/07/19 15:28	1
Ethylbenzene	<0.00082		0.0017	0.00082	mg/Kg	☼	08/05/19 15:50	08/07/19 15:28	1
2-Hexanone	<0.0013		0.0043	0.0013	mg/Kg	☼	08/05/19 15:50	08/07/19 15:28	1
Methylene Chloride	<0.0017		0.0043	0.0017	mg/Kg	☼	08/05/19 15:50	08/07/19 15:28	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0043	0.0013	mg/Kg	☼	08/05/19 15:50	08/07/19 15:28	1
Methyl tert-butyl ether	<0.00050		0.0017	0.00050	mg/Kg	☼	08/05/19 15:50	08/07/19 15:28	1
Styrene	<0.00052		0.0017	0.00052	mg/Kg	☼	08/05/19 15:50	08/07/19 15:28	1
1,1,2,2-Tetrachloroethane	<0.00055		0.0017	0.00055	mg/Kg	☼	08/05/19 15:50	08/07/19 15:28	1
Tetrachloroethene	<0.00059		0.0017	0.00059	mg/Kg	☼	08/05/19 15:50	08/07/19 15:28	1
Toluene	<0.00043		0.0017	0.00043	mg/Kg	☼	08/05/19 15:50	08/07/19 15:28	1
trans-1,2-Dichloroethene	<0.00076		0.0017	0.00076	mg/Kg	☼	08/05/19 15:50	08/07/19 15:28	1
trans-1,3-Dichloropropene	<0.00060		0.0017	0.00060	mg/Kg	☼	08/05/19 15:50	08/07/19 15:28	1
1,1,1-Trichloroethane	<0.00058		0.0017	0.00058	mg/Kg	☼	08/05/19 15:50	08/07/19 15:28	1
1,1,2-Trichloroethane	<0.00074		0.0017	0.00074	mg/Kg	☼	08/05/19 15:50	08/07/19 15:28	1
Trichloroethene	<0.00058		0.0017	0.00058	mg/Kg	☼	08/05/19 15:50	08/07/19 15:28	1
Vinyl acetate	<0.0015		0.0043	0.0015	mg/Kg	☼	08/05/19 15:50	08/07/19 15:28	1
Vinyl chloride	<0.00076		0.0017	0.00076	mg/Kg	☼	08/05/19 15:50	08/07/19 15:28	1
Xylenes, Total	<0.00055		0.0034	0.00055	mg/Kg	☼	08/05/19 15:50	08/07/19 15:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		75 - 131	08/05/19 15:50	08/07/19 15:28	1
Dibromofluoromethane	96		75 - 126	08/05/19 15:50	08/07/19 15:28	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	08/05/19 15:50	08/07/19 15:28	1
Toluene-d8 (Surr)	95		75 - 124	08/05/19 15:50	08/07/19 15:28	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.025	J	0.038	0.0069	mg/Kg	☼	08/07/19 07:34	08/08/19 16:57	1
Acenaphthylene	0.0070	J	0.038	0.0050	mg/Kg	☼	08/07/19 07:34	08/08/19 16:57	1
Anthracene	0.048		0.038	0.0064	mg/Kg	☼	08/07/19 07:34	08/08/19 16:57	1
Benzo[a]anthracene	0.13		0.038	0.0051	mg/Kg	☼	08/07/19 07:34	08/08/19 16:57	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B07 (10-13.5)

Lab Sample ID: 500-167784-9

Date Collected: 08/05/19 11:15

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 83.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.14		0.038	0.0074	mg/Kg	☼	08/07/19 07:34	08/08/19 16:57	1
Benzo[b]fluoranthene	0.17		0.038	0.0083	mg/Kg	☼	08/07/19 07:34	08/08/19 16:57	1
Benzo[g,h,i]perylene	0.10		0.038	0.012	mg/Kg	☼	08/07/19 07:34	08/08/19 16:57	1
Benzo[k]fluoranthene	0.042		0.038	0.011	mg/Kg	☼	08/07/19 07:34	08/08/19 16:57	1
Bis(2-chloroethoxy)methane	<0.039		0.19	0.039	mg/Kg	☼	08/07/19 07:34	08/08/19 16:57	1
Bis(2-chloroethyl)ether	<0.057		0.19	0.057	mg/Kg	☼	08/07/19 07:34	08/08/19 16:57	1
Bis(2-ethylhexyl) phthalate	<0.070		0.19	0.070	mg/Kg	☼	08/07/19 07:34	08/08/19 16:57	1
4-Bromophenyl phenyl ether	<0.050		0.19	0.050	mg/Kg	☼	08/07/19 07:34	08/08/19 16:57	1
Butyl benzyl phthalate	<0.073		0.19	0.073	mg/Kg	☼	08/07/19 07:34	08/08/19 16:57	1
Carbazole	<0.096		0.19	0.096	mg/Kg	☼	08/07/19 07:34	08/08/19 16:57	1
4-Chloroaniline	<0.18		0.77	0.18	mg/Kg	☼	08/07/19 07:34	08/08/19 16:57	1
4-Chloro-3-methylphenol	<0.13		0.38	0.13	mg/Kg	☼	08/07/19 07:34	08/08/19 16:57	1
2-Chloronaphthalene	<0.042		0.19	0.042	mg/Kg	☼	08/07/19 07:34	08/08/19 16:57	1
2-Chlorophenol	<0.065		0.19	0.065	mg/Kg	☼	08/07/19 07:34	08/08/19 16:57	1
4-Chlorophenyl phenyl ether	<0.045		0.19	0.045	mg/Kg	☼	08/07/19 07:34	08/08/19 16:57	1
Chrysene	0.13		0.038	0.010	mg/Kg	☼	08/07/19 07:34	08/08/19 16:57	1
Dibenz(a,h)anthracene	0.021 J		0.038	0.0074	mg/Kg	☼	08/07/19 07:34	08/08/19 16:57	1
Dibenzofuran	<0.045		0.19	0.045	mg/Kg	☼	08/07/19 07:34	08/08/19 16:57	1
1,2-Dichlorobenzene	<0.046		0.19	0.046	mg/Kg	☼	08/07/19 07:34	08/08/19 16:57	1
1,3-Dichlorobenzene	<0.043		0.19	0.043	mg/Kg	☼	08/07/19 07:34	08/08/19 16:57	1
1,4-Dichlorobenzene	<0.049		0.19	0.049	mg/Kg	☼	08/07/19 07:34	08/08/19 16:57	1
3,3'-Dichlorobenzidine	<0.054		0.19	0.054	mg/Kg	☼	08/07/19 07:34	08/08/19 16:57	1
2,4-Dichlorophenol	<0.091		0.38	0.091	mg/Kg	☼	08/07/19 07:34	08/08/19 16:57	1
Diethyl phthalate	<0.065		0.19	0.065	mg/Kg	☼	08/07/19 07:34	08/08/19 16:57	1
2,4-Dimethylphenol	<0.15		0.38	0.15	mg/Kg	☼	08/07/19 07:34	08/08/19 16:57	1
Dimethyl phthalate	<0.050		0.19	0.050	mg/Kg	☼	08/07/19 07:34	08/08/19 16:57	1
Di-n-butyl phthalate	<0.058		0.19	0.058	mg/Kg	☼	08/07/19 07:34	08/08/19 16:57	1
4,6-Dinitro-2-methylphenol	<0.31		0.77	0.31	mg/Kg	☼	08/07/19 07:34	08/08/19 16:57	1
2,4-Dinitrophenol	<0.67		0.77	0.67	mg/Kg	☼	08/07/19 07:34	08/08/19 16:57	1
2,4-Dinitrotoluene	<0.061		0.19	0.061	mg/Kg	☼	08/07/19 07:34	08/08/19 16:57	1
2,6-Dinitrotoluene	<0.075		0.19	0.075	mg/Kg	☼	08/07/19 07:34	08/08/19 16:57	1
Di-n-octyl phthalate	<0.062		0.19	0.062	mg/Kg	☼	08/07/19 07:34	08/08/19 16:57	1
Fluoranthene	0.25		0.038	0.0071	mg/Kg	☼	08/07/19 07:34	08/08/19 16:57	1
Fluorene	0.017 J		0.038	0.0054	mg/Kg	☼	08/07/19 07:34	08/08/19 16:57	1
Hexachlorobenzene	<0.0089		0.077	0.0089	mg/Kg	☼	08/07/19 07:34	08/08/19 16:57	1
Hexachlorobutadiene	<0.060		0.19	0.060	mg/Kg	☼	08/07/19 07:34	08/08/19 16:57	1
Hexachlorocyclopentadiene	<0.22		0.77	0.22	mg/Kg	☼	08/07/19 07:34	08/08/19 16:57	1
Hexachloroethane	<0.058		0.19	0.058	mg/Kg	☼	08/07/19 07:34	08/08/19 16:57	1
Indeno[1,2,3-cd]pyrene	0.085		0.038	0.0099	mg/Kg	☼	08/07/19 07:34	08/08/19 16:57	1
Isophorone	<0.043		0.19	0.043	mg/Kg	☼	08/07/19 07:34	08/08/19 16:57	1
2-Methylnaphthalene	<0.0070		0.077	0.0070	mg/Kg	☼	08/07/19 07:34	08/08/19 16:57	1
2-Methylphenol	<0.061		0.19	0.061	mg/Kg	☼	08/07/19 07:34	08/08/19 16:57	1
3 & 4 Methylphenol	<0.064		0.19	0.064	mg/Kg	☼	08/07/19 07:34	08/08/19 16:57	1
Naphthalene	<0.0059		0.038	0.0059	mg/Kg	☼	08/07/19 07:34	08/08/19 16:57	1
2-Nitroaniline	<0.051		0.19	0.051	mg/Kg	☼	08/07/19 07:34	08/08/19 16:57	1
3-Nitroaniline	<0.12		0.38	0.12	mg/Kg	☼	08/07/19 07:34	08/08/19 16:57	1
4-Nitroaniline	<0.16		0.38	0.16	mg/Kg	☼	08/07/19 07:34	08/08/19 16:57	1
Nitrobenzene	<0.0096		0.038	0.0096	mg/Kg	☼	08/07/19 07:34	08/08/19 16:57	1
2-Nitrophenol	<0.090		0.38	0.090	mg/Kg	☼	08/07/19 07:34	08/08/19 16:57	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B07 (10-13.5)

Lab Sample ID: 500-167784-9

Date Collected: 08/05/19 11:15

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 83.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.36		0.77	0.36	mg/Kg	☼	08/07/19 07:34	08/08/19 16:57	1
N-Nitrosodi-n-propylamine	<0.047		0.077	0.047	mg/Kg	☼	08/07/19 07:34	08/08/19 16:57	1
N-Nitrosodiphenylamine	<0.045		0.19	0.045	mg/Kg	☼	08/07/19 07:34	08/08/19 16:57	1
2,2'-oxybis[1-chloropropane]	<0.044		0.19	0.044	mg/Kg	☼	08/07/19 07:34	08/08/19 16:57	1
Pentachlorophenol	<0.61		0.77	0.61	mg/Kg	☼	08/07/19 07:34	08/08/19 16:57	1
Phenanthrene	0.19		0.038	0.0053	mg/Kg	☼	08/07/19 07:34	08/08/19 16:57	1
Phenol	<0.085		0.19	0.085	mg/Kg	☼	08/07/19 07:34	08/08/19 16:57	1
Pyrene	0.26		0.038	0.0076	mg/Kg	☼	08/07/19 07:34	08/08/19 16:57	1
1,2,4-Trichlorobenzene	<0.041		0.19	0.041	mg/Kg	☼	08/07/19 07:34	08/08/19 16:57	1
2,4,5-Trichlorophenol	<0.087		0.38	0.087	mg/Kg	☼	08/07/19 07:34	08/08/19 16:57	1
2,4,6-Trichlorophenol	<0.13		0.38	0.13	mg/Kg	☼	08/07/19 07:34	08/08/19 16:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	89		43 - 145	08/07/19 07:34	08/08/19 16:57	1
2-Fluorophenol	90		31 - 166	08/07/19 07:34	08/08/19 16:57	1
Nitrobenzene-d5	71		37 - 147	08/07/19 07:34	08/08/19 16:57	1
Phenol-d5	79		30 - 153	08/07/19 07:34	08/08/19 16:57	1
Terphenyl-d14	126		42 - 157	08/07/19 07:34	08/08/19 16:57	1
2,4,6-Tribromophenol	76		31 - 143	08/07/19 07:34	08/08/19 16:57	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.56	J	1.1	0.22	mg/Kg	☼	08/07/19 07:49	08/08/19 01:34	1
Arsenic	4.2		0.55	0.19	mg/Kg	☼	08/07/19 07:49	08/08/19 01:34	1
Barium	60		0.55	0.063	mg/Kg	☼	08/07/19 07:49	08/08/19 01:34	1
Beryllium	0.49		0.22	0.052	mg/Kg	☼	08/07/19 07:49	08/08/19 01:34	1
Cadmium	0.21	B	0.11	0.020	mg/Kg	☼	08/07/19 07:49	08/08/19 01:34	1
Chromium	11		0.55	0.27	mg/Kg	☼	08/07/19 07:49	08/08/19 01:34	1
Cobalt	5.1		0.28	0.073	mg/Kg	☼	08/07/19 07:49	08/08/19 01:34	1
Copper	10		0.55	0.16	mg/Kg	☼	08/07/19 07:49	08/08/19 01:34	1
Iron	9100		11	5.8	mg/Kg	☼	08/07/19 07:49	08/08/19 01:34	1
Lead	26		0.28	0.13	mg/Kg	☼	08/07/19 07:49	08/08/19 01:34	1
Magnesium	71000	B	28	14	mg/Kg	☼	08/07/19 07:49	08/08/19 12:02	5
Calcium	100000	B	55	9.4	mg/Kg	☼	08/07/19 07:49	08/08/19 12:02	5
Manganese	170		0.55	0.080	mg/Kg	☼	08/07/19 07:49	08/08/19 01:34	1
Nickel	10		0.55	0.16	mg/Kg	☼	08/07/19 07:49	08/08/19 01:34	1
Selenium	<0.33		0.55	0.33	mg/Kg	☼	08/07/19 07:49	08/08/19 01:34	1
Silver	1.6		0.28	0.071	mg/Kg	☼	08/07/19 07:49	08/08/19 01:34	1
Thallium	<0.28		0.55	0.28	mg/Kg	☼	08/07/19 07:49	08/08/19 01:34	1
Vanadium	19		0.28	0.065	mg/Kg	☼	08/07/19 07:49	08/08/19 01:34	1
Zinc	41		1.1	0.49	mg/Kg	☼	08/07/19 07:49	08/08/19 01:34	1
Potassium	1100		28	9.8	mg/Kg	☼	08/07/19 07:49	08/08/19 11:58	1
Sodium	360		55	8.2	mg/Kg	☼	08/07/19 07:49	08/08/19 01:34	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/08/19 14:42	08/10/19 07:48	1
Barium	0.28	J	0.50	0.050	mg/L		08/08/19 14:42	08/10/19 07:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/08/19 14:42	08/10/19 07:48	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/08/19 14:42	08/10/19 07:48	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B07 (10-13.5)

Lab Sample ID: 500-167784-9

Date Collected: 08/05/19 11:15

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 83.5

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	190		5.0	0.50	mg/L		08/08/19 14:42	08/10/19 07:48	1
Chromium	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:48	1
Cobalt	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:48	1
Copper	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:48	1
Iron	<0.20		0.40	0.20	mg/L		08/08/19 14:42	08/10/19 07:48	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/08/19 14:42	08/10/19 07:48	1
Magnesium	110		2.5	0.50	mg/L		08/08/19 14:42	08/10/19 07:48	1
Manganese	0.037		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:48	1
Nickel	0.061		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:48	1
Potassium	0.67	J	2.5	0.50	mg/L		08/08/19 14:42	08/10/19 07:48	1
Selenium	<0.020		0.050	0.020	mg/L		08/08/19 14:42	08/10/19 07:48	1
Silver	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:48	1
Vanadium	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:48	1
Zinc	0.17	J	0.50	0.020	mg/L		08/08/19 14:42	08/10/19 07:48	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/08/19 14:42	08/09/19 14:32	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/08/19 14:42	08/09/19 14:32	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/09/19 10:05	08/09/19 16:23	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.010	J	0.018	0.0059	mg/Kg	☼	08/07/19 11:20	08/08/19 09:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.24		0.47	0.24	mg/Kg	☼	08/15/19 10:25	08/15/19 15:11	1
pH	8.8		0.2	0.2	SU			08/06/19 13:43	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B08 (0-5)

Lab Sample ID: 500-167784-10

Date Collected: 08/05/19 11:50

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 94.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.013	J*	0.017	0.0076	mg/Kg	☼	08/05/19 15:50	08/07/19 15:54	1
Benzene	<0.00044		0.0017	0.00044	mg/Kg	☼	08/05/19 15:50	08/07/19 15:54	1
Bromodichloromethane	<0.00035		0.0017	0.00035	mg/Kg	☼	08/05/19 15:50	08/07/19 15:54	1
Bromoform	<0.00051		0.0017	0.00051	mg/Kg	☼	08/05/19 15:50	08/07/19 15:54	1
Bromomethane	<0.0016		0.0043	0.0016	mg/Kg	☼	08/05/19 15:50	08/07/19 15:54	1
2-Butanone (MEK)	<0.0019	*	0.0043	0.0019	mg/Kg	☼	08/05/19 15:50	08/07/19 15:54	1
Carbon disulfide	<0.00090		0.0043	0.00090	mg/Kg	☼	08/05/19 15:50	08/07/19 15:54	1
Carbon tetrachloride	<0.00050		0.0017	0.00050	mg/Kg	☼	08/05/19 15:50	08/07/19 15:54	1
Chlorobenzene	<0.00064		0.0017	0.00064	mg/Kg	☼	08/05/19 15:50	08/07/19 15:54	1
Chloroethane	<0.0013	*	0.0043	0.0013	mg/Kg	☼	08/05/19 15:50	08/07/19 15:54	1
Chloroform	<0.00060		0.0017	0.00060	mg/Kg	☼	08/05/19 15:50	08/07/19 15:54	1
Chloromethane	<0.0017		0.0043	0.0017	mg/Kg	☼	08/05/19 15:50	08/07/19 15:54	1
cis-1,2-Dichloroethene	<0.00049		0.0017	0.00049	mg/Kg	☼	08/05/19 15:50	08/07/19 15:54	1
cis-1,3-Dichloropropene	<0.00052		0.0017	0.00052	mg/Kg	☼	08/05/19 15:50	08/07/19 15:54	1
Dibromochloromethane	<0.00057		0.0017	0.00057	mg/Kg	☼	08/05/19 15:50	08/07/19 15:54	1
1,1-Dichloroethane	<0.00059		0.0017	0.00059	mg/Kg	☼	08/05/19 15:50	08/07/19 15:54	1
1,2-Dichloroethane	<0.0014		0.0043	0.0014	mg/Kg	☼	08/05/19 15:50	08/07/19 15:54	1
1,1-Dichloroethene	<0.00060		0.0017	0.00060	mg/Kg	☼	08/05/19 15:50	08/07/19 15:54	1
1,2-Dichloropropane	<0.00045		0.0017	0.00045	mg/Kg	☼	08/05/19 15:50	08/07/19 15:54	1
1,3-Dichloropropane, Total	<0.00061		0.0017	0.00061	mg/Kg	☼	08/05/19 15:50	08/07/19 15:54	1
Ethylbenzene	<0.00083		0.0017	0.00083	mg/Kg	☼	08/05/19 15:50	08/07/19 15:54	1
2-Hexanone	<0.0014		0.0043	0.0014	mg/Kg	☼	08/05/19 15:50	08/07/19 15:54	1
Methylene Chloride	0.0020	J	0.0043	0.0017	mg/Kg	☼	08/05/19 15:50	08/07/19 15:54	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0043	0.0013	mg/Kg	☼	08/05/19 15:50	08/07/19 15:54	1
Methyl tert-butyl ether	<0.00051		0.0017	0.00051	mg/Kg	☼	08/05/19 15:50	08/07/19 15:54	1
Styrene	<0.00052		0.0017	0.00052	mg/Kg	☼	08/05/19 15:50	08/07/19 15:54	1
1,1,2,2-Tetrachloroethane	<0.00055		0.0017	0.00055	mg/Kg	☼	08/05/19 15:50	08/07/19 15:54	1
Tetrachloroethene	<0.00059		0.0017	0.00059	mg/Kg	☼	08/05/19 15:50	08/07/19 15:54	1
Toluene	<0.00044		0.0017	0.00044	mg/Kg	☼	08/05/19 15:50	08/07/19 15:54	1
trans-1,2-Dichloroethene	<0.00077		0.0017	0.00077	mg/Kg	☼	08/05/19 15:50	08/07/19 15:54	1
trans-1,3-Dichloropropene	<0.00061		0.0017	0.00061	mg/Kg	☼	08/05/19 15:50	08/07/19 15:54	1
1,1,1-Trichloroethane	<0.00058		0.0017	0.00058	mg/Kg	☼	08/05/19 15:50	08/07/19 15:54	1
1,1,2-Trichloroethane	<0.00074		0.0017	0.00074	mg/Kg	☼	08/05/19 15:50	08/07/19 15:54	1
Trichloroethene	<0.00059		0.0017	0.00059	mg/Kg	☼	08/05/19 15:50	08/07/19 15:54	1
Vinyl acetate	<0.0015		0.0043	0.0015	mg/Kg	☼	08/05/19 15:50	08/07/19 15:54	1
Vinyl chloride	<0.00077		0.0017	0.00077	mg/Kg	☼	08/05/19 15:50	08/07/19 15:54	1
Xylenes, Total	<0.00056		0.0035	0.00056	mg/Kg	☼	08/05/19 15:50	08/07/19 15:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		75 - 131	08/05/19 15:50	08/07/19 15:54	1
Dibromofluoromethane	97		75 - 126	08/05/19 15:50	08/07/19 15:54	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	08/05/19 15:50	08/07/19 15:54	1
Toluene-d8 (Surr)	93		75 - 124	08/05/19 15:50	08/07/19 15:54	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.57		0.035	0.0063	mg/Kg	☼	08/07/19 07:34	08/08/19 20:11	1
Acenaphthylene	0.066		0.035	0.0046	mg/Kg	☼	08/07/19 07:34	08/08/19 20:11	1
Benzo[a]pyrene	2.4		0.035	0.0068	mg/Kg	☼	08/07/19 07:34	08/08/19 20:11	1
Benzo[g,h,i]perylene	0.93		0.035	0.011	mg/Kg	☼	08/07/19 07:34	08/08/19 20:11	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B08 (0-5)

Lab Sample ID: 500-167784-10

Date Collected: 08/05/19 11:50

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 94.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	1.5		0.035	0.010	mg/Kg	☼	08/07/19 07:34	08/08/19 20:11	1
Bis(2-chloroethoxy)methane	<0.036		0.18	0.036	mg/Kg	☼	08/07/19 07:34	08/08/19 20:11	1
Bis(2-chloroethyl)ether	<0.052		0.18	0.052	mg/Kg	☼	08/07/19 07:34	08/08/19 20:11	1
Bis(2-ethylhexyl) phthalate	0.096	J	0.18	0.064	mg/Kg	☼	08/07/19 07:34	08/08/19 20:11	1
4-Bromophenyl phenyl ether	<0.046		0.18	0.046	mg/Kg	☼	08/07/19 07:34	08/08/19 20:11	1
Butyl benzyl phthalate	<0.066		0.18	0.066	mg/Kg	☼	08/07/19 07:34	08/08/19 20:11	1
Carbazole	0.64		0.18	0.087	mg/Kg	☼	08/07/19 07:34	08/08/19 20:11	1
4-Chloroaniline	<0.16		0.70	0.16	mg/Kg	☼	08/07/19 07:34	08/08/19 20:11	1
4-Chloro-3-methylphenol	<0.12		0.35	0.12	mg/Kg	☼	08/07/19 07:34	08/08/19 20:11	1
2-Chloronaphthalene	<0.039		0.18	0.039	mg/Kg	☼	08/07/19 07:34	08/08/19 20:11	1
2-Chlorophenol	<0.060		0.18	0.060	mg/Kg	☼	08/07/19 07:34	08/08/19 20:11	1
4-Chlorophenyl phenyl ether	<0.041		0.18	0.041	mg/Kg	☼	08/07/19 07:34	08/08/19 20:11	1
Dibenz(a,h)anthracene	0.28		0.035	0.0067	mg/Kg	☼	08/07/19 07:34	08/08/19 20:11	1
Dibenzofuran	0.26		0.18	0.041	mg/Kg	☼	08/07/19 07:34	08/08/19 20:11	1
1,2-Dichlorobenzene	<0.042		0.18	0.042	mg/Kg	☼	08/07/19 07:34	08/08/19 20:11	1
1,3-Dichlorobenzene	<0.039		0.18	0.039	mg/Kg	☼	08/07/19 07:34	08/08/19 20:11	1
1,4-Dichlorobenzene	<0.045		0.18	0.045	mg/Kg	☼	08/07/19 07:34	08/08/19 20:11	1
3,3'-Dichlorobenzidine	<0.049		0.18	0.049	mg/Kg	☼	08/07/19 07:34	08/08/19 20:11	1
2,4-Dichlorophenol	<0.083		0.35	0.083	mg/Kg	☼	08/07/19 07:34	08/08/19 20:11	1
Diethyl phthalate	<0.059		0.18	0.059	mg/Kg	☼	08/07/19 07:34	08/08/19 20:11	1
2,4-Dimethylphenol	<0.13		0.35	0.13	mg/Kg	☼	08/07/19 07:34	08/08/19 20:11	1
Dimethyl phthalate	<0.046		0.18	0.046	mg/Kg	☼	08/07/19 07:34	08/08/19 20:11	1
Di-n-butyl phthalate	<0.053		0.18	0.053	mg/Kg	☼	08/07/19 07:34	08/08/19 20:11	1
4,6-Dinitro-2-methylphenol	<0.28		0.70	0.28	mg/Kg	☼	08/07/19 07:34	08/08/19 20:11	1
2,4-Dinitrophenol	<0.61		0.70	0.61	mg/Kg	☼	08/07/19 07:34	08/08/19 20:11	1
2,4-Dinitrotoluene	<0.055		0.18	0.055	mg/Kg	☼	08/07/19 07:34	08/08/19 20:11	1
2,6-Dinitrotoluene	<0.069		0.18	0.069	mg/Kg	☼	08/07/19 07:34	08/08/19 20:11	1
Di-n-octyl phthalate	<0.057		0.18	0.057	mg/Kg	☼	08/07/19 07:34	08/08/19 20:11	1
Fluorene	0.70		0.035	0.0049	mg/Kg	☼	08/07/19 07:34	08/08/19 20:11	1
Hexachlorobenzene	<0.0081		0.070	0.0081	mg/Kg	☼	08/07/19 07:34	08/08/19 20:11	1
Hexachlorobutadiene	<0.055		0.18	0.055	mg/Kg	☼	08/07/19 07:34	08/08/19 20:11	1
Hexachlorocyclopentadiene	<0.20		0.70	0.20	mg/Kg	☼	08/07/19 07:34	08/08/19 20:11	1
Hexachloroethane	<0.053		0.18	0.053	mg/Kg	☼	08/07/19 07:34	08/08/19 20:11	1
Indeno[1,2,3-cd]pyrene	0.91		0.035	0.0090	mg/Kg	☼	08/07/19 07:34	08/08/19 20:11	1
Isophorone	<0.039		0.18	0.039	mg/Kg	☼	08/07/19 07:34	08/08/19 20:11	1
2-Methylnaphthalene	0.053	J	0.070	0.0064	mg/Kg	☼	08/07/19 07:34	08/08/19 20:11	1
2-Methylphenol	<0.056		0.18	0.056	mg/Kg	☼	08/07/19 07:34	08/08/19 20:11	1
3 & 4 Methylphenol	<0.058		0.18	0.058	mg/Kg	☼	08/07/19 07:34	08/08/19 20:11	1
Naphthalene	0.051		0.035	0.0054	mg/Kg	☼	08/07/19 07:34	08/08/19 20:11	1
2-Nitroaniline	<0.047		0.18	0.047	mg/Kg	☼	08/07/19 07:34	08/08/19 20:11	1
3-Nitroaniline	<0.11		0.35	0.11	mg/Kg	☼	08/07/19 07:34	08/08/19 20:11	1
4-Nitroaniline	<0.15		0.35	0.15	mg/Kg	☼	08/07/19 07:34	08/08/19 20:11	1
Nitrobenzene	<0.0087		0.035	0.0087	mg/Kg	☼	08/07/19 07:34	08/08/19 20:11	1
2-Nitrophenol	<0.083		0.35	0.083	mg/Kg	☼	08/07/19 07:34	08/08/19 20:11	1
4-Nitrophenol	<0.33		0.70	0.33	mg/Kg	☼	08/07/19 07:34	08/08/19 20:11	1
N-Nitrosodi-n-propylamine	<0.043		0.070	0.043	mg/Kg	☼	08/07/19 07:34	08/08/19 20:11	1
N-Nitrosodiphenylamine	<0.041		0.18	0.041	mg/Kg	☼	08/07/19 07:34	08/08/19 20:11	1
2,2'-oxybis[1-chloropropane]	<0.040		0.18	0.040	mg/Kg	☼	08/07/19 07:34	08/08/19 20:11	1
Pentachlorophenol	<0.56		0.70	0.56	mg/Kg	☼	08/07/19 07:34	08/08/19 20:11	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B08 (0-5)

Lab Sample ID: 500-167784-10

Date Collected: 08/05/19 11:50

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 94.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.078		0.18	0.078	mg/Kg	☼	08/07/19 07:34	08/08/19 20:11	1
1,2,4-Trichlorobenzene	<0.038		0.18	0.038	mg/Kg	☼	08/07/19 07:34	08/08/19 20:11	1
2,4,5-Trichlorophenol	<0.080		0.35	0.080	mg/Kg	☼	08/07/19 07:34	08/08/19 20:11	1
2,4,6-Trichlorophenol	<0.12		0.35	0.12	mg/Kg	☼	08/07/19 07:34	08/08/19 20:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	98		43 - 145	08/07/19 07:34	08/08/19 20:11	1
2-Fluorophenol	92		31 - 166	08/07/19 07:34	08/08/19 20:11	1
Nitrobenzene-d5	78		37 - 147	08/07/19 07:34	08/08/19 20:11	1
Phenol-d5	80		30 - 153	08/07/19 07:34	08/08/19 20:11	1
Terphenyl-d14	108		42 - 157	08/07/19 07:34	08/08/19 20:11	1
2,4,6-Tribromophenol	121		31 - 143	08/07/19 07:34	08/08/19 20:11	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	2.3		0.17	0.029	mg/Kg	☼	08/07/19 07:34	08/13/19 11:12	5
Benzo[a]anthracene	3.7		0.17	0.023	mg/Kg	☼	08/07/19 07:34	08/13/19 11:12	5
Benzo[b]fluoranthene	3.8		0.17	0.038	mg/Kg	☼	08/07/19 07:34	08/13/19 11:12	5
Chrysene	3.9		0.17	0.048	mg/Kg	☼	08/07/19 07:34	08/13/19 11:12	5
Fluoranthene	8.7		0.17	0.032	mg/Kg	☼	08/07/19 07:34	08/13/19 11:12	5
Phenanthrene	5.8		0.17	0.024	mg/Kg	☼	08/07/19 07:34	08/13/19 11:12	5
Pyrene	7.2		0.17	0.035	mg/Kg	☼	08/07/19 07:34	08/13/19 11:12	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.42	J	1.0	0.20	mg/Kg	☼	08/07/19 07:49	08/08/19 01:39	1
Arsenic	5.4		0.52	0.18	mg/Kg	☼	08/07/19 07:49	08/08/19 01:39	1
Barium	60		0.52	0.060	mg/Kg	☼	08/07/19 07:49	08/08/19 01:39	1
Beryllium	0.45		0.21	0.049	mg/Kg	☼	08/07/19 07:49	08/08/19 01:39	1
Cadmium	0.49	B	0.10	0.019	mg/Kg	☼	08/07/19 07:49	08/08/19 01:39	1
Chromium	13		0.52	0.26	mg/Kg	☼	08/07/19 07:49	08/08/19 01:39	1
Cobalt	6.9		0.26	0.068	mg/Kg	☼	08/07/19 07:49	08/08/19 01:39	1
Copper	24		0.52	0.15	mg/Kg	☼	08/07/19 07:49	08/08/19 01:39	1
Iron	12000		10	5.4	mg/Kg	☼	08/07/19 07:49	08/08/19 01:39	1
Lead	77		0.26	0.12	mg/Kg	☼	08/07/19 07:49	08/08/19 01:39	1
Magnesium	65000	B	26	13	mg/Kg	☼	08/07/19 07:49	08/08/19 12:10	5
Calcium	94000	B	52	8.9	mg/Kg	☼	08/07/19 07:49	08/08/19 12:10	5
Manganese	350		0.52	0.076	mg/Kg	☼	08/07/19 07:49	08/08/19 01:39	1
Nickel	15		0.52	0.15	mg/Kg	☼	08/07/19 07:49	08/08/19 01:39	1
Selenium	0.36	J	0.52	0.31	mg/Kg	☼	08/07/19 07:49	08/08/19 01:39	1
Silver	1.4		0.26	0.067	mg/Kg	☼	08/07/19 07:49	08/08/19 01:39	1
Thallium	0.32	J	0.52	0.26	mg/Kg	☼	08/07/19 07:49	08/08/19 01:39	1
Vanadium	16		0.26	0.062	mg/Kg	☼	08/07/19 07:49	08/08/19 01:39	1
Zinc	120		1.0	0.46	mg/Kg	☼	08/07/19 07:49	08/08/19 01:39	1
Potassium	1400		26	9.2	mg/Kg	☼	08/07/19 07:49	08/08/19 12:06	1
Sodium	500		52	7.7	mg/Kg	☼	08/07/19 07:49	08/08/19 01:39	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/08/19 14:42	08/10/19 07:52	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B08 (0-5)

Lab Sample ID: 500-167784-10

Date Collected: 08/05/19 11:50

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 94.4

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.34	J	0.50	0.050	mg/L	-	08/08/19 14:42	08/10/19 07:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L	-	08/08/19 14:42	08/10/19 07:52	1
Cadmium	0.0026	J	0.0050	0.0020	mg/L	-	08/08/19 14:42	08/10/19 07:52	1
Calcium	230		5.0	0.50	mg/L	-	08/08/19 14:42	08/10/19 07:52	1
Chromium	<0.010		0.025	0.010	mg/L	-	08/08/19 14:42	08/10/19 07:52	1
Cobalt	<0.010		0.025	0.010	mg/L	-	08/08/19 14:42	08/10/19 07:52	1
Copper	<0.010		0.025	0.010	mg/L	-	08/08/19 14:42	08/10/19 07:52	1
Iron	<0.20		0.40	0.20	mg/L	-	08/08/19 14:42	08/10/19 07:52	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	08/08/19 14:42	08/10/19 07:52	1
Magnesium	92		2.5	0.50	mg/L	-	08/08/19 14:42	08/10/19 07:52	1
Manganese	0.097		0.025	0.010	mg/L	-	08/08/19 14:42	08/10/19 07:52	1
Nickel	<0.010		0.025	0.010	mg/L	-	08/08/19 14:42	08/10/19 07:52	1
Potassium	4.1		2.5	0.50	mg/L	-	08/08/19 14:42	08/10/19 07:52	1
Selenium	<0.020		0.050	0.020	mg/L	-	08/08/19 14:42	08/10/19 07:52	1
Silver	<0.010		0.025	0.010	mg/L	-	08/08/19 14:42	08/10/19 07:52	1
Vanadium	<0.010		0.025	0.010	mg/L	-	08/08/19 14:42	08/10/19 07:52	1
Zinc	0.36	J	0.50	0.020	mg/L	-	08/08/19 14:42	08/10/19 07:52	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	08/08/19 14:42	08/09/19 14:35	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	08/08/19 14:42	08/09/19 14:35	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	08/09/19 10:05	08/09/19 16:32	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.017	0.0056	mg/Kg	☼	08/07/19 11:20	08/08/19 09:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.22		0.44	0.22	mg/Kg	☼	08/15/19 10:25	08/15/19 15:11	1
pH	8.9		0.2	0.2	SU			08/06/19 13:47	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B08 (5-10)

Lab Sample ID: 500-167784-11

Date Collected: 08/05/19 12:00

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 95.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.025	*	0.017	0.0076	mg/Kg	☼	08/05/19 15:50	08/07/19 16:20	1
Benzene	<0.00045		0.0017	0.00045	mg/Kg	☼	08/05/19 15:50	08/07/19 16:20	1
Bromodichloromethane	<0.00036		0.0017	0.00036	mg/Kg	☼	08/05/19 15:50	08/07/19 16:20	1
Bromoform	<0.00051		0.0017	0.00051	mg/Kg	☼	08/05/19 15:50	08/07/19 16:20	1
Bromomethane	<0.0016		0.0044	0.0016	mg/Kg	☼	08/05/19 15:50	08/07/19 16:20	1
2-Butanone (MEK)	<0.0019	*	0.0044	0.0019	mg/Kg	☼	08/05/19 15:50	08/07/19 16:20	1
Carbon disulfide	<0.00091		0.0044	0.00091	mg/Kg	☼	08/05/19 15:50	08/07/19 16:20	1
Carbon tetrachloride	<0.00051		0.0017	0.00051	mg/Kg	☼	08/05/19 15:50	08/07/19 16:20	1
Chlorobenzene	<0.00064		0.0017	0.00064	mg/Kg	☼	08/05/19 15:50	08/07/19 16:20	1
Chloroethane	<0.0013	*	0.0044	0.0013	mg/Kg	☼	08/05/19 15:50	08/07/19 16:20	1
Chloroform	<0.00061		0.0017	0.00061	mg/Kg	☼	08/05/19 15:50	08/07/19 16:20	1
Chloromethane	<0.0018		0.0044	0.0018	mg/Kg	☼	08/05/19 15:50	08/07/19 16:20	1
cis-1,2-Dichloroethene	<0.00049		0.0017	0.00049	mg/Kg	☼	08/05/19 15:50	08/07/19 16:20	1
cis-1,3-Dichloropropene	<0.00053		0.0017	0.00053	mg/Kg	☼	08/05/19 15:50	08/07/19 16:20	1
Dibromochloromethane	<0.00057		0.0017	0.00057	mg/Kg	☼	08/05/19 15:50	08/07/19 16:20	1
1,1-Dichloroethane	<0.00060		0.0017	0.00060	mg/Kg	☼	08/05/19 15:50	08/07/19 16:20	1
1,2-Dichloroethane	<0.0014		0.0044	0.0014	mg/Kg	☼	08/05/19 15:50	08/07/19 16:20	1
1,1-Dichloroethene	<0.00060		0.0017	0.00060	mg/Kg	☼	08/05/19 15:50	08/07/19 16:20	1
1,2-Dichloropropane	<0.00045		0.0017	0.00045	mg/Kg	☼	08/05/19 15:50	08/07/19 16:20	1
1,3-Dichloropropane, Total	<0.00061		0.0017	0.00061	mg/Kg	☼	08/05/19 15:50	08/07/19 16:20	1
Ethylbenzene	<0.00084		0.0017	0.00084	mg/Kg	☼	08/05/19 15:50	08/07/19 16:20	1
2-Hexanone	<0.0014		0.0044	0.0014	mg/Kg	☼	08/05/19 15:50	08/07/19 16:20	1
Methylene Chloride	0.0028	J	0.0044	0.0017	mg/Kg	☼	08/05/19 15:50	08/07/19 16:20	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0044	0.0013	mg/Kg	☼	08/05/19 15:50	08/07/19 16:20	1
Methyl tert-butyl ether	<0.00051		0.0017	0.00051	mg/Kg	☼	08/05/19 15:50	08/07/19 16:20	1
Styrene	<0.00053		0.0017	0.00053	mg/Kg	☼	08/05/19 15:50	08/07/19 16:20	1
1,1,2,2-Tetrachloroethane	<0.00056		0.0017	0.00056	mg/Kg	☼	08/05/19 15:50	08/07/19 16:20	1
Tetrachloroethene	<0.00059		0.0017	0.00059	mg/Kg	☼	08/05/19 15:50	08/07/19 16:20	1
Toluene	<0.00044		0.0017	0.00044	mg/Kg	☼	08/05/19 15:50	08/07/19 16:20	1
trans-1,2-Dichloroethene	<0.00077		0.0017	0.00077	mg/Kg	☼	08/05/19 15:50	08/07/19 16:20	1
trans-1,3-Dichloropropene	<0.00061		0.0017	0.00061	mg/Kg	☼	08/05/19 15:50	08/07/19 16:20	1
1,1,1-Trichloroethane	<0.00059		0.0017	0.00059	mg/Kg	☼	08/05/19 15:50	08/07/19 16:20	1
1,1,2-Trichloroethane	<0.00075		0.0017	0.00075	mg/Kg	☼	08/05/19 15:50	08/07/19 16:20	1
Trichloroethene	<0.00059		0.0017	0.00059	mg/Kg	☼	08/05/19 15:50	08/07/19 16:20	1
Vinyl acetate	<0.0015		0.0044	0.0015	mg/Kg	☼	08/05/19 15:50	08/07/19 16:20	1
Vinyl chloride	<0.00077		0.0017	0.00077	mg/Kg	☼	08/05/19 15:50	08/07/19 16:20	1
Xylenes, Total	<0.00056		0.0035	0.00056	mg/Kg	☼	08/05/19 15:50	08/07/19 16:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		75 - 131	08/05/19 15:50	08/07/19 16:20	1
Dibromofluoromethane	92		75 - 126	08/05/19 15:50	08/07/19 16:20	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 134	08/05/19 15:50	08/07/19 16:20	1
Toluene-d8 (Surr)	95		75 - 124	08/05/19 15:50	08/07/19 16:20	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.016	J	0.033	0.0060	mg/Kg	☼	08/07/19 07:34	08/08/19 18:34	1
Acenaphthylene	0.0090	J	0.033	0.0044	mg/Kg	☼	08/07/19 07:34	08/08/19 18:34	1
Anthracene	0.080		0.033	0.0056	mg/Kg	☼	08/07/19 07:34	08/08/19 18:34	1
Benzo[a]anthracene	0.22		0.033	0.0045	mg/Kg	☼	08/07/19 07:34	08/08/19 18:34	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B08 (5-10)

Lab Sample ID: 500-167784-11

Date Collected: 08/05/19 12:00

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 95.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.20		0.033	0.0065	mg/Kg	☼	08/07/19 07:34	08/08/19 18:34	1
Benzo[b]fluoranthene	0.27		0.033	0.0072	mg/Kg	☼	08/07/19 07:34	08/08/19 18:34	1
Benzo[g,h,i]perylene	0.098		0.033	0.011	mg/Kg	☼	08/07/19 07:34	08/08/19 18:34	1
Benzo[k]fluoranthene	0.091		0.033	0.0099	mg/Kg	☼	08/07/19 07:34	08/08/19 18:34	1
Bis(2-chloroethoxy)methane	<0.034		0.17	0.034	mg/Kg	☼	08/07/19 07:34	08/08/19 18:34	1
Bis(2-chloroethyl)ether	<0.050		0.17	0.050	mg/Kg	☼	08/07/19 07:34	08/08/19 18:34	1
Bis(2-ethylhexyl) phthalate	<0.061		0.17	0.061	mg/Kg	☼	08/07/19 07:34	08/08/19 18:34	1
4-Bromophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg	☼	08/07/19 07:34	08/08/19 18:34	1
Butyl benzyl phthalate	<0.064		0.17	0.064	mg/Kg	☼	08/07/19 07:34	08/08/19 18:34	1
Carbazole	<0.084		0.17	0.084	mg/Kg	☼	08/07/19 07:34	08/08/19 18:34	1
4-Chloroaniline	<0.16		0.68	0.16	mg/Kg	☼	08/07/19 07:34	08/08/19 18:34	1
4-Chloro-3-methylphenol	<0.11		0.33	0.11	mg/Kg	☼	08/07/19 07:34	08/08/19 18:34	1
2-Chloronaphthalene	<0.037		0.17	0.037	mg/Kg	☼	08/07/19 07:34	08/08/19 18:34	1
2-Chlorophenol	<0.057		0.17	0.057	mg/Kg	☼	08/07/19 07:34	08/08/19 18:34	1
4-Chlorophenyl phenyl ether	<0.039		0.17	0.039	mg/Kg	☼	08/07/19 07:34	08/08/19 18:34	1
Chrysene	0.21		0.033	0.0091	mg/Kg	☼	08/07/19 07:34	08/08/19 18:34	1
Dibenz(a,h)anthracene	0.026 J		0.033	0.0065	mg/Kg	☼	08/07/19 07:34	08/08/19 18:34	1
Dibenzofuran	<0.039		0.17	0.039	mg/Kg	☼	08/07/19 07:34	08/08/19 18:34	1
1,2-Dichlorobenzene	<0.040		0.17	0.040	mg/Kg	☼	08/07/19 07:34	08/08/19 18:34	1
1,3-Dichlorobenzene	<0.038		0.17	0.038	mg/Kg	☼	08/07/19 07:34	08/08/19 18:34	1
1,4-Dichlorobenzene	<0.043		0.17	0.043	mg/Kg	☼	08/07/19 07:34	08/08/19 18:34	1
3,3'-Dichlorobenzidine	<0.047		0.17	0.047	mg/Kg	☼	08/07/19 07:34	08/08/19 18:34	1
2,4-Dichlorophenol	<0.080		0.33	0.080	mg/Kg	☼	08/07/19 07:34	08/08/19 18:34	1
Diethyl phthalate	<0.057		0.17	0.057	mg/Kg	☼	08/07/19 07:34	08/08/19 18:34	1
2,4-Dimethylphenol	<0.13		0.33	0.13	mg/Kg	☼	08/07/19 07:34	08/08/19 18:34	1
Dimethyl phthalate	<0.044		0.17	0.044	mg/Kg	☼	08/07/19 07:34	08/08/19 18:34	1
Di-n-butyl phthalate	<0.051		0.17	0.051	mg/Kg	☼	08/07/19 07:34	08/08/19 18:34	1
4,6-Dinitro-2-methylphenol	<0.27		0.68	0.27	mg/Kg	☼	08/07/19 07:34	08/08/19 18:34	1
2,4-Dinitrophenol	<0.59		0.68	0.59	mg/Kg	☼	08/07/19 07:34	08/08/19 18:34	1
2,4-Dinitrotoluene	<0.053		0.17	0.053	mg/Kg	☼	08/07/19 07:34	08/08/19 18:34	1
2,6-Dinitrotoluene	<0.066		0.17	0.066	mg/Kg	☼	08/07/19 07:34	08/08/19 18:34	1
Di-n-octyl phthalate	<0.055		0.17	0.055	mg/Kg	☼	08/07/19 07:34	08/08/19 18:34	1
Fluoranthene	0.41		0.033	0.0062	mg/Kg	☼	08/07/19 07:34	08/08/19 18:34	1
Fluorene	0.021 J		0.033	0.0047	mg/Kg	☼	08/07/19 07:34	08/08/19 18:34	1
Hexachlorobenzene	<0.0078		0.068	0.0078	mg/Kg	☼	08/07/19 07:34	08/08/19 18:34	1
Hexachlorobutadiene	<0.053		0.17	0.053	mg/Kg	☼	08/07/19 07:34	08/08/19 18:34	1
Hexachlorocyclopentadiene	<0.19		0.68	0.19	mg/Kg	☼	08/07/19 07:34	08/08/19 18:34	1
Hexachloroethane	<0.051		0.17	0.051	mg/Kg	☼	08/07/19 07:34	08/08/19 18:34	1
Indeno[1,2,3-cd]pyrene	0.099		0.033	0.0087	mg/Kg	☼	08/07/19 07:34	08/08/19 18:34	1
Isophorone	<0.038		0.17	0.038	mg/Kg	☼	08/07/19 07:34	08/08/19 18:34	1
2-Methylnaphthalene	<0.0062		0.068	0.0062	mg/Kg	☼	08/07/19 07:34	08/08/19 18:34	1
2-Methylphenol	<0.054		0.17	0.054	mg/Kg	☼	08/07/19 07:34	08/08/19 18:34	1
3 & 4 Methylphenol	<0.056		0.17	0.056	mg/Kg	☼	08/07/19 07:34	08/08/19 18:34	1
Naphthalene	<0.0052		0.033	0.0052	mg/Kg	☼	08/07/19 07:34	08/08/19 18:34	1
2-Nitroaniline	<0.045		0.17	0.045	mg/Kg	☼	08/07/19 07:34	08/08/19 18:34	1
3-Nitroaniline	<0.10		0.33	0.10	mg/Kg	☼	08/07/19 07:34	08/08/19 18:34	1
4-Nitroaniline	<0.14		0.33	0.14	mg/Kg	☼	08/07/19 07:34	08/08/19 18:34	1
Nitrobenzene	<0.0084		0.033	0.0084	mg/Kg	☼	08/07/19 07:34	08/08/19 18:34	1
2-Nitrophenol	<0.079		0.33	0.079	mg/Kg	☼	08/07/19 07:34	08/08/19 18:34	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B08 (5-10)

Lab Sample ID: 500-167784-11

Date Collected: 08/05/19 12:00

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 95.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.32		0.68	0.32	mg/Kg	☼	08/07/19 07:34	08/08/19 18:34	1
N-Nitrosodi-n-propylamine	<0.041		0.068	0.041	mg/Kg	☼	08/07/19 07:34	08/08/19 18:34	1
N-Nitrosodiphenylamine	<0.040		0.17	0.040	mg/Kg	☼	08/07/19 07:34	08/08/19 18:34	1
2,2'-oxybis[1-chloropropane]	<0.039		0.17	0.039	mg/Kg	☼	08/07/19 07:34	08/08/19 18:34	1
Pentachlorophenol	<0.54		0.68	0.54	mg/Kg	☼	08/07/19 07:34	08/08/19 18:34	1
Phenanthrene	0.22		0.033	0.0047	mg/Kg	☼	08/07/19 07:34	08/08/19 18:34	1
Phenol	<0.074		0.17	0.074	mg/Kg	☼	08/07/19 07:34	08/08/19 18:34	1
Pyrene	0.41		0.033	0.0067	mg/Kg	☼	08/07/19 07:34	08/08/19 18:34	1
1,2,4-Trichlorobenzene	<0.036		0.17	0.036	mg/Kg	☼	08/07/19 07:34	08/08/19 18:34	1
2,4,5-Trichlorophenol	<0.076		0.33	0.076	mg/Kg	☼	08/07/19 07:34	08/08/19 18:34	1
2,4,6-Trichlorophenol	<0.12		0.33	0.12	mg/Kg	☼	08/07/19 07:34	08/08/19 18:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	104		43 - 145				08/07/19 07:34	08/08/19 18:34	1
2-Fluorophenol	88		31 - 166				08/07/19 07:34	08/08/19 18:34	1
Nitrobenzene-d5	80		37 - 147				08/07/19 07:34	08/08/19 18:34	1
Phenol-d5	84		30 - 153				08/07/19 07:34	08/08/19 18:34	1
Terphenyl-d14	125		42 - 157				08/07/19 07:34	08/08/19 18:34	1
2,4,6-Tribromophenol	102		31 - 143				08/07/19 07:34	08/08/19 18:34	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.36	J	0.99	0.19	mg/Kg	☼	08/07/19 07:49	08/08/19 01:43	1
Arsenic	3.6		0.50	0.17	mg/Kg	☼	08/07/19 07:49	08/08/19 01:43	1
Barium	34		0.50	0.057	mg/Kg	☼	08/07/19 07:49	08/08/19 01:43	1
Beryllium	0.25		0.20	0.046	mg/Kg	☼	08/07/19 07:49	08/08/19 01:43	1
Cadmium	0.33	B	0.099	0.018	mg/Kg	☼	08/07/19 07:49	08/08/19 01:43	1
Chromium	8.4		0.50	0.25	mg/Kg	☼	08/07/19 07:49	08/08/19 01:43	1
Cobalt	3.8		0.25	0.065	mg/Kg	☼	08/07/19 07:49	08/08/19 01:43	1
Copper	15		0.50	0.14	mg/Kg	☼	08/07/19 07:49	08/08/19 01:43	1
Iron	11000		9.9	5.2	mg/Kg	☼	08/07/19 07:49	08/08/19 01:43	1
Lead	120		0.25	0.11	mg/Kg	☼	08/07/19 07:49	08/08/19 01:43	1
Magnesium	95000	B	25	12	mg/Kg	☼	08/07/19 07:49	08/08/19 12:26	5
Calcium	170000	B	99	17	mg/Kg	☼	08/07/19 07:49	08/09/19 12:19	10
Manganese	220		0.50	0.072	mg/Kg	☼	08/07/19 07:49	08/08/19 01:43	1
Nickel	12		0.50	0.14	mg/Kg	☼	08/07/19 07:49	08/08/19 01:43	1
Selenium	<0.29		0.50	0.29	mg/Kg	☼	08/07/19 07:49	08/08/19 01:43	1
Silver	0.82		0.25	0.064	mg/Kg	☼	08/07/19 07:49	08/08/19 01:43	1
Thallium	<0.25		0.50	0.25	mg/Kg	☼	08/07/19 07:49	08/08/19 01:43	1
Vanadium	8.7		0.25	0.059	mg/Kg	☼	08/07/19 07:49	08/08/19 01:43	1
Zinc	50		0.99	0.44	mg/Kg	☼	08/07/19 07:49	08/08/19 01:43	1
Potassium	860		25	8.8	mg/Kg	☼	08/07/19 07:49	08/08/19 12:14	1
Sodium	340		50	7.4	mg/Kg	☼	08/07/19 07:49	08/08/19 01:43	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/08/19 14:42	08/10/19 07:57	1
Barium	0.33	J	0.50	0.050	mg/L		08/08/19 14:42	08/10/19 07:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/08/19 14:42	08/10/19 07:57	1
Cadmium	0.0030	J	0.0050	0.0020	mg/L		08/08/19 14:42	08/10/19 07:57	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B08 (5-10)

Lab Sample ID: 500-167784-11

Date Collected: 08/05/19 12:00

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 95.6

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	250		5.0	0.50	mg/L		08/08/19 14:42	08/10/19 07:57	1
Chromium	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:57	1
Cobalt	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:57	1
Copper	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:57	1
Iron	<0.20		0.40	0.20	mg/L		08/08/19 14:42	08/10/19 07:57	1
Lead	0.026		0.0075	0.0075	mg/L		08/08/19 14:42	08/10/19 07:57	1
Magnesium	120		2.5	0.50	mg/L		08/08/19 14:42	08/10/19 07:57	1
Manganese	1.1		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:57	1
Nickel	0.033		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:57	1
Potassium	1.7 J		2.5	0.50	mg/L		08/08/19 14:42	08/10/19 07:57	1
Selenium	<0.020		0.050	0.020	mg/L		08/08/19 14:42	08/10/19 07:57	1
Silver	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:57	1
Vanadium	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 07:57	1
Zinc	0.089 J		0.50	0.020	mg/L		08/08/19 14:42	08/10/19 07:57	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.021		0.0075	0.0075	mg/L		08/08/19 14:40	08/09/19 23:02	1
Manganese	0.032		0.025	0.010	mg/L		08/08/19 14:40	08/09/19 23:02	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/08/19 14:42	08/09/19 14:39	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/08/19 14:42	08/09/19 14:39	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/09/19 10:05	08/09/19 16:34	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011 J		0.016	0.0055	mg/Kg	☼	08/07/19 11:20	08/08/19 09:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.26		0.52	0.26	mg/Kg	☼	08/15/19 10:25	08/15/19 15:12	1
pH	9.3		0.2	0.2	SU			08/06/19 13:52	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B09 (0-5)

Lab Sample ID: 500-167784-12

Date Collected: 08/05/19 12:30

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 92.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0085	*	0.020	0.0085	mg/Kg	☼	08/05/19 15:50	08/07/19 16:46	1
Benzene	<0.00050		0.0020	0.00050	mg/Kg	☼	08/05/19 15:50	08/07/19 16:46	1
Bromodichloromethane	<0.00040		0.0020	0.00040	mg/Kg	☼	08/05/19 15:50	08/07/19 16:46	1
Bromoform	<0.00057		0.0020	0.00057	mg/Kg	☼	08/05/19 15:50	08/07/19 16:46	1
Bromomethane	<0.0018		0.0049	0.0018	mg/Kg	☼	08/05/19 15:50	08/07/19 16:46	1
2-Butanone (MEK)	<0.0022	*	0.0049	0.0022	mg/Kg	☼	08/05/19 15:50	08/07/19 16:46	1
Carbon disulfide	<0.0010		0.0049	0.0010	mg/Kg	☼	08/05/19 15:50	08/07/19 16:46	1
Carbon tetrachloride	<0.00057		0.0020	0.00057	mg/Kg	☼	08/05/19 15:50	08/07/19 16:46	1
Chlorobenzene	<0.00072		0.0020	0.00072	mg/Kg	☼	08/05/19 15:50	08/07/19 16:46	1
Chloroethane	<0.0014	*	0.0049	0.0014	mg/Kg	☼	08/05/19 15:50	08/07/19 16:46	1
Chloroform	<0.00068		0.0020	0.00068	mg/Kg	☼	08/05/19 15:50	08/07/19 16:46	1
Chloromethane	<0.0020		0.0049	0.0020	mg/Kg	☼	08/05/19 15:50	08/07/19 16:46	1
cis-1,2-Dichloroethene	<0.00055		0.0020	0.00055	mg/Kg	☼	08/05/19 15:50	08/07/19 16:46	1
cis-1,3-Dichloropropene	<0.00059		0.0020	0.00059	mg/Kg	☼	08/05/19 15:50	08/07/19 16:46	1
Dibromochloromethane	<0.00064		0.0020	0.00064	mg/Kg	☼	08/05/19 15:50	08/07/19 16:46	1
1,1-Dichloroethane	<0.00067		0.0020	0.00067	mg/Kg	☼	08/05/19 15:50	08/07/19 16:46	1
1,2-Dichloroethane	<0.0015		0.0049	0.0015	mg/Kg	☼	08/05/19 15:50	08/07/19 16:46	1
1,1-Dichloroethene	<0.00067		0.0020	0.00067	mg/Kg	☼	08/05/19 15:50	08/07/19 16:46	1
1,2-Dichloropropane	<0.00050		0.0020	0.00050	mg/Kg	☼	08/05/19 15:50	08/07/19 16:46	1
1,3-Dichloropropane, Total	<0.00069		0.0020	0.00069	mg/Kg	☼	08/05/19 15:50	08/07/19 16:46	1
Ethylbenzene	<0.00093		0.0020	0.00093	mg/Kg	☼	08/05/19 15:50	08/07/19 16:46	1
2-Hexanone	<0.0015		0.0049	0.0015	mg/Kg	☼	08/05/19 15:50	08/07/19 16:46	1
Methylene Chloride	<0.0019		0.0049	0.0019	mg/Kg	☼	08/05/19 15:50	08/07/19 16:46	1
4-Methyl-2-pentanone (MIBK)	<0.0014		0.0049	0.0014	mg/Kg	☼	08/05/19 15:50	08/07/19 16:46	1
Methyl tert-butyl ether	<0.00057		0.0020	0.00057	mg/Kg	☼	08/05/19 15:50	08/07/19 16:46	1
Styrene	<0.00059		0.0020	0.00059	mg/Kg	☼	08/05/19 15:50	08/07/19 16:46	1
1,1,2,2-Tetrachloroethane	<0.00062		0.0020	0.00062	mg/Kg	☼	08/05/19 15:50	08/07/19 16:46	1
Tetrachloroethene	<0.00066		0.0020	0.00066	mg/Kg	☼	08/05/19 15:50	08/07/19 16:46	1
Toluene	<0.00049		0.0020	0.00049	mg/Kg	☼	08/05/19 15:50	08/07/19 16:46	1
trans-1,2-Dichloroethene	<0.00086		0.0020	0.00086	mg/Kg	☼	08/05/19 15:50	08/07/19 16:46	1
trans-1,3-Dichloropropene	<0.00069		0.0020	0.00069	mg/Kg	☼	08/05/19 15:50	08/07/19 16:46	1
1,1,1-Trichloroethane	<0.00066		0.0020	0.00066	mg/Kg	☼	08/05/19 15:50	08/07/19 16:46	1
1,1,2-Trichloroethane	<0.00084		0.0020	0.00084	mg/Kg	☼	08/05/19 15:50	08/07/19 16:46	1
Trichloroethene	<0.00066		0.0020	0.00066	mg/Kg	☼	08/05/19 15:50	08/07/19 16:46	1
Vinyl acetate	<0.0017		0.0049	0.0017	mg/Kg	☼	08/05/19 15:50	08/07/19 16:46	1
Vinyl chloride	<0.00086		0.0020	0.00086	mg/Kg	☼	08/05/19 15:50	08/07/19 16:46	1
Xylenes, Total	<0.00062		0.0039	0.00062	mg/Kg	☼	08/05/19 15:50	08/07/19 16:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		75 - 131	08/05/19 15:50	08/07/19 16:46	1
Dibromofluoromethane	98		75 - 126	08/05/19 15:50	08/07/19 16:46	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	08/05/19 15:50	08/07/19 16:46	1
Toluene-d8 (Surr)	95		75 - 124	08/05/19 15:50	08/07/19 16:46	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.012	J	0.036	0.0064	mg/Kg	☼	08/07/19 07:34	08/12/19 21:15	1
Acenaphthylene	0.017	J	0.036	0.0047	mg/Kg	☼	08/07/19 07:34	08/12/19 21:15	1
Anthracene	0.045		0.036	0.0060	mg/Kg	☼	08/07/19 07:34	08/12/19 21:15	1
Benzo[a]anthracene	0.27		0.036	0.0048	mg/Kg	☼	08/07/19 07:34	08/12/19 21:15	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B09 (0-5)

Lab Sample ID: 500-167784-12

Date Collected: 08/05/19 12:30

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 92.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.33		0.036	0.0069	mg/Kg	☼	08/07/19 07:34	08/12/19 21:15	1
Benzo[b]fluoranthene	0.53		0.036	0.0077	mg/Kg	☼	08/07/19 07:34	08/12/19 21:15	1
Benzo[g,h,i]perylene	0.15		0.036	0.012	mg/Kg	☼	08/07/19 07:34	08/12/19 21:15	1
Benzo[k]fluoranthene	0.16		0.036	0.011	mg/Kg	☼	08/07/19 07:34	08/12/19 21:15	1
Bis(2-chloroethoxy)methane	<0.037		0.18	0.037	mg/Kg	☼	08/07/19 07:34	08/12/19 21:15	1
Bis(2-chloroethyl)ether	<0.054		0.18	0.054	mg/Kg	☼	08/07/19 07:34	08/12/19 21:15	1
Bis(2-ethylhexyl) phthalate	<0.065		0.18	0.065	mg/Kg	☼	08/07/19 07:34	08/12/19 21:15	1
4-Bromophenyl phenyl ether	<0.047		0.18	0.047	mg/Kg	☼	08/07/19 07:34	08/12/19 21:15	1
Butyl benzyl phthalate	<0.068		0.18	0.068	mg/Kg	☼	08/07/19 07:34	08/12/19 21:15	1
Carbazole	<0.089		0.18	0.089	mg/Kg	☼	08/07/19 07:34	08/12/19 21:15	1
4-Chloroaniline	<0.17		0.72	0.17	mg/Kg	☼	08/07/19 07:34	08/12/19 21:15	1
4-Chloro-3-methylphenol	<0.12		0.36	0.12	mg/Kg	☼	08/07/19 07:34	08/12/19 21:15	1
2-Chloronaphthalene	<0.040		0.18	0.040	mg/Kg	☼	08/07/19 07:34	08/12/19 21:15	1
2-Chlorophenol	<0.061		0.18	0.061	mg/Kg	☼	08/07/19 07:34	08/12/19 21:15	1
4-Chlorophenyl phenyl ether	<0.042		0.18	0.042	mg/Kg	☼	08/07/19 07:34	08/12/19 21:15	1
Chrysene	0.35		0.036	0.0098	mg/Kg	☼	08/07/19 07:34	08/12/19 21:15	1
Dibenz(a,h)anthracene	0.044		0.036	0.0069	mg/Kg	☼	08/07/19 07:34	08/12/19 21:15	1
Dibenzofuran	<0.042		0.18	0.042	mg/Kg	☼	08/07/19 07:34	08/12/19 21:15	1
1,2-Dichlorobenzene	<0.043		0.18	0.043	mg/Kg	☼	08/07/19 07:34	08/12/19 21:15	1
1,3-Dichlorobenzene	<0.040		0.18	0.040	mg/Kg	☼	08/07/19 07:34	08/12/19 21:15	1
1,4-Dichlorobenzene	<0.046		0.18	0.046	mg/Kg	☼	08/07/19 07:34	08/12/19 21:15	1
3,3'-Dichlorobenzidine	<0.050		0.18	0.050	mg/Kg	☼	08/07/19 07:34	08/12/19 21:15	1
2,4-Dichlorophenol	<0.085		0.36	0.085	mg/Kg	☼	08/07/19 07:34	08/12/19 21:15	1
Diethyl phthalate	<0.061		0.18	0.061	mg/Kg	☼	08/07/19 07:34	08/12/19 21:15	1
2,4-Dimethylphenol	<0.14		0.36	0.14	mg/Kg	☼	08/07/19 07:34	08/12/19 21:15	1
Dimethyl phthalate	<0.047		0.18	0.047	mg/Kg	☼	08/07/19 07:34	08/12/19 21:15	1
Di-n-butyl phthalate	<0.055		0.18	0.055	mg/Kg	☼	08/07/19 07:34	08/12/19 21:15	1
4,6-Dinitro-2-methylphenol	<0.29		0.72	0.29	mg/Kg	☼	08/07/19 07:34	08/12/19 21:15	1
2,4-Dinitrophenol	<0.63		0.72	0.63	mg/Kg	☼	08/07/19 07:34	08/12/19 21:15	1
2,4-Dinitrotoluene	<0.057		0.18	0.057	mg/Kg	☼	08/07/19 07:34	08/12/19 21:15	1
2,6-Dinitrotoluene	<0.070		0.18	0.070	mg/Kg	☼	08/07/19 07:34	08/12/19 21:15	1
Di-n-octyl phthalate	<0.058		0.18	0.058	mg/Kg	☼	08/07/19 07:34	08/12/19 21:15	1
Fluoranthene	0.62		0.036	0.0066	mg/Kg	☼	08/07/19 07:34	08/12/19 21:15	1
Fluorene	0.012 J		0.036	0.0050	mg/Kg	☼	08/07/19 07:34	08/12/19 21:15	1
Hexachlorobenzene	<0.0083		0.072	0.0083	mg/Kg	☼	08/07/19 07:34	08/12/19 21:15	1
Hexachlorobutadiene	<0.056		0.18	0.056	mg/Kg	☼	08/07/19 07:34	08/12/19 21:15	1
Hexachlorocyclopentadiene	<0.21		0.72	0.21	mg/Kg	☼	08/07/19 07:34	08/12/19 21:15	1
Hexachloroethane	<0.054		0.18	0.054	mg/Kg	☼	08/07/19 07:34	08/12/19 21:15	1
Indeno[1,2,3-cd]pyrene	0.13		0.036	0.0093	mg/Kg	☼	08/07/19 07:34	08/12/19 21:15	1
Isophorone	<0.040		0.18	0.040	mg/Kg	☼	08/07/19 07:34	08/12/19 21:15	1
2-Methylnaphthalene	0.016 J		0.072	0.0066	mg/Kg	☼	08/07/19 07:34	08/12/19 21:15	1
2-Methylphenol	<0.057		0.18	0.057	mg/Kg	☼	08/07/19 07:34	08/12/19 21:15	1
3 & 4 Methylphenol	<0.060		0.18	0.060	mg/Kg	☼	08/07/19 07:34	08/12/19 21:15	1
Naphthalene	0.016 J		0.036	0.0055	mg/Kg	☼	08/07/19 07:34	08/12/19 21:15	1
2-Nitroaniline	<0.048		0.18	0.048	mg/Kg	☼	08/07/19 07:34	08/12/19 21:15	1
3-Nitroaniline	<0.11		0.36	0.11	mg/Kg	☼	08/07/19 07:34	08/12/19 21:15	1
4-Nitroaniline	<0.15		0.36	0.15	mg/Kg	☼	08/07/19 07:34	08/12/19 21:15	1
Nitrobenzene	<0.0089		0.036	0.0089	mg/Kg	☼	08/07/19 07:34	08/12/19 21:15	1
2-Nitrophenol	<0.085		0.36	0.085	mg/Kg	☼	08/07/19 07:34	08/12/19 21:15	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B09 (0-5)

Lab Sample ID: 500-167784-12

Date Collected: 08/05/19 12:30

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 92.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.34		0.72	0.34	mg/Kg	☼	08/07/19 07:34	08/12/19 21:15	1
N-Nitrosodi-n-propylamine	<0.044		0.072	0.044	mg/Kg	☼	08/07/19 07:34	08/12/19 21:15	1
N-Nitrosodiphenylamine	<0.042		0.18	0.042	mg/Kg	☼	08/07/19 07:34	08/12/19 21:15	1
2,2'-oxybis[1-chloropropane]	<0.041		0.18	0.041	mg/Kg	☼	08/07/19 07:34	08/12/19 21:15	1
Pentachlorophenol	<0.57		0.72	0.57	mg/Kg	☼	08/07/19 07:34	08/12/19 21:15	1
Phenanthrene	0.22		0.036	0.0050	mg/Kg	☼	08/07/19 07:34	08/12/19 21:15	1
Phenol	<0.080		0.18	0.080	mg/Kg	☼	08/07/19 07:34	08/12/19 21:15	1
Pyrene	0.60		0.036	0.0071	mg/Kg	☼	08/07/19 07:34	08/12/19 21:15	1
1,2,4-Trichlorobenzene	<0.039		0.18	0.039	mg/Kg	☼	08/07/19 07:34	08/12/19 21:15	1
2,4,5-Trichlorophenol	<0.082		0.36	0.082	mg/Kg	☼	08/07/19 07:34	08/12/19 21:15	1
2,4,6-Trichlorophenol	<0.12		0.36	0.12	mg/Kg	☼	08/07/19 07:34	08/12/19 21:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	101		43 - 145	08/07/19 07:34	08/12/19 21:15	1
2-Fluorophenol	121		31 - 166	08/07/19 07:34	08/12/19 21:15	1
Nitrobenzene-d5	81		37 - 147	08/07/19 07:34	08/12/19 21:15	1
Phenol-d5	123		30 - 153	08/07/19 07:34	08/12/19 21:15	1
Terphenyl-d14	159	X	42 - 157	08/07/19 07:34	08/12/19 21:15	1
2,4,6-Tribromophenol	89		31 - 143	08/07/19 07:34	08/12/19 21:15	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.37	J	1.0	0.20	mg/Kg	☼	08/07/19 07:49	08/08/19 01:47	1
Arsenic	6.2		0.52	0.18	mg/Kg	☼	08/07/19 07:49	08/08/19 01:47	1
Barium	73		0.52	0.059	mg/Kg	☼	08/07/19 07:49	08/08/19 01:47	1
Beryllium	0.59		0.21	0.049	mg/Kg	☼	08/07/19 07:49	08/08/19 01:47	1
Cadmium	0.49	B	0.10	0.019	mg/Kg	☼	08/07/19 07:49	08/08/19 01:47	1
Chromium	14		0.52	0.26	mg/Kg	☼	08/07/19 07:49	08/08/19 01:47	1
Cobalt	10		0.26	0.068	mg/Kg	☼	08/07/19 07:49	08/08/19 01:47	1
Copper	28		0.52	0.15	mg/Kg	☼	08/07/19 07:49	08/08/19 01:47	1
Iron	15000		10	5.4	mg/Kg	☼	08/07/19 07:49	08/08/19 01:47	1
Lead	95		0.26	0.12	mg/Kg	☼	08/07/19 07:49	08/08/19 01:47	1
Magnesium	42000	B	26	13	mg/Kg	☼	08/07/19 07:49	08/08/19 12:34	5
Calcium	73000	B	52	8.8	mg/Kg	☼	08/07/19 07:49	08/08/19 21:07	5
Manganese	420		0.52	0.076	mg/Kg	☼	08/07/19 07:49	08/08/19 01:47	1
Nickel	19		0.52	0.15	mg/Kg	☼	08/07/19 07:49	08/08/19 01:47	1
Selenium	0.59		0.52	0.31	mg/Kg	☼	08/07/19 07:49	08/08/19 01:47	1
Silver	1.9		0.26	0.067	mg/Kg	☼	08/07/19 07:49	08/08/19 01:47	1
Thallium	0.55		0.52	0.26	mg/Kg	☼	08/07/19 07:49	08/08/19 01:47	1
Vanadium	20		0.26	0.062	mg/Kg	☼	08/07/19 07:49	08/08/19 01:47	1
Zinc	110		1.0	0.46	mg/Kg	☼	08/07/19 07:49	08/08/19 01:47	1
Potassium	1600		26	9.2	mg/Kg	☼	08/07/19 07:49	08/08/19 12:30	1
Sodium	530		52	7.7	mg/Kg	☼	08/07/19 07:49	08/08/19 01:47	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/08/19 14:42	08/10/19 08:01	1
Barium	0.39	J	0.50	0.050	mg/L		08/08/19 14:42	08/10/19 08:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/08/19 14:42	08/10/19 08:01	1
Cadmium	0.0035	J	0.0050	0.0020	mg/L		08/08/19 14:42	08/10/19 08:01	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B09 (0-5)

Lab Sample ID: 500-167784-12

Date Collected: 08/05/19 12:30

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 92.3

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	270		5.0	0.50	mg/L		08/08/19 14:42	08/10/19 08:01	1
Chromium	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 08:01	1
Cobalt	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 08:01	1
Copper	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 08:01	1
Iron	<0.20		0.40	0.20	mg/L		08/08/19 14:42	08/10/19 08:01	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/08/19 14:42	08/10/19 08:01	1
Magnesium	100		2.5	0.50	mg/L		08/08/19 14:42	08/10/19 08:01	1
Manganese	0.16		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 08:01	1
Nickel	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 08:01	1
Potassium	1.8 J		2.5	0.50	mg/L		08/08/19 14:42	08/10/19 08:01	1
Selenium	<0.020		0.050	0.020	mg/L		08/08/19 14:42	08/10/19 08:01	1
Silver	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 08:01	1
Vanadium	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 08:01	1
Zinc	0.40 J		0.50	0.020	mg/L		08/08/19 14:42	08/10/19 08:01	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.50		0.025	0.010	mg/L		08/08/19 14:40	08/09/19 23:06	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/08/19 14:42	08/09/19 14:43	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/08/19 14:42	08/09/19 14:43	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/09/19 10:05	08/09/19 16:35	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.045		0.017	0.0057	mg/Kg	☼	08/07/19 11:20	08/08/19 10:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.19		0.37	0.19	mg/Kg	☼	08/15/19 10:25	08/15/19 15:12	1
pH	9.0		0.2	0.2	SU			08/06/19 13:56	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B09 (0-5) Dup

Lab Sample ID: 500-167784-13

Date Collected: 08/05/19 12:35

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 94.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.011	J	0.024	0.010	mg/Kg	☼	08/05/19 15:50	08/08/19 10:51	1
Benzene	<0.00061		0.0024	0.00061	mg/Kg	☼	08/05/19 15:50	08/08/19 10:51	1
Bromodichloromethane	<0.00048		0.0024	0.00048	mg/Kg	☼	08/05/19 15:50	08/08/19 10:51	1
Bromoform	<0.00069		0.0024	0.00069	mg/Kg	☼	08/05/19 15:50	08/08/19 10:51	1
Bromomethane	<0.0022		0.0059	0.0022	mg/Kg	☼	08/05/19 15:50	08/08/19 10:51	1
2-Butanone (MEK)	<0.0026		0.0059	0.0026	mg/Kg	☼	08/05/19 15:50	08/08/19 10:51	1
Carbon disulfide	<0.0012		0.0059	0.0012	mg/Kg	☼	08/05/19 15:50	08/08/19 10:51	1
Carbon tetrachloride	<0.00069		0.0024	0.00069	mg/Kg	☼	08/05/19 15:50	08/08/19 10:51	1
Chlorobenzene	<0.00088		0.0024	0.00088	mg/Kg	☼	08/05/19 15:50	08/08/19 10:51	1
Chloroethane	<0.0018		0.0059	0.0018	mg/Kg	☼	08/05/19 15:50	08/08/19 10:51	1
Chloroform	<0.00082		0.0024	0.00082	mg/Kg	☼	08/05/19 15:50	08/08/19 10:51	1
Chloromethane	<0.0024		0.0059	0.0024	mg/Kg	☼	08/05/19 15:50	08/08/19 10:51	1
cis-1,2-Dichloroethene	<0.00066		0.0024	0.00066	mg/Kg	☼	08/05/19 15:50	08/08/19 10:51	1
cis-1,3-Dichloropropene	<0.00072 *		0.0024	0.00072	mg/Kg	☼	08/05/19 15:50	08/08/19 10:51	1
Dibromochloromethane	<0.00078		0.0024	0.00078	mg/Kg	☼	08/05/19 15:50	08/08/19 10:51	1
1,1-Dichloroethane	<0.00081		0.0024	0.00081	mg/Kg	☼	08/05/19 15:50	08/08/19 10:51	1
1,2-Dichloroethane	<0.0019		0.0059	0.0019	mg/Kg	☼	08/05/19 15:50	08/08/19 10:51	1
1,1-Dichloroethene	<0.00082		0.0024	0.00082	mg/Kg	☼	08/05/19 15:50	08/08/19 10:51	1
1,2-Dichloropropane	<0.00061		0.0024	0.00061	mg/Kg	☼	08/05/19 15:50	08/08/19 10:51	1
1,3-Dichloropropane, Total	<0.00083		0.0024	0.00083	mg/Kg	☼	08/05/19 15:50	08/08/19 10:51	1
Ethylbenzene	<0.0011		0.0024	0.0011	mg/Kg	☼	08/05/19 15:50	08/08/19 10:51	1
2-Hexanone	<0.0019		0.0059	0.0019	mg/Kg	☼	08/05/19 15:50	08/08/19 10:51	1
Methylene Chloride	0.0026	J	0.0059	0.0023	mg/Kg	☼	08/05/19 15:50	08/08/19 10:51	1
4-Methyl-2-pentanone (MIBK)	<0.0018		0.0059	0.0018	mg/Kg	☼	08/05/19 15:50	08/08/19 10:51	1
Methyl tert-butyl ether	<0.00070		0.0024	0.00070	mg/Kg	☼	08/05/19 15:50	08/08/19 10:51	1
Styrene	<0.00072		0.0024	0.00072	mg/Kg	☼	08/05/19 15:50	08/08/19 10:51	1
1,1,2,2-Tetrachloroethane	<0.00076		0.0024	0.00076	mg/Kg	☼	08/05/19 15:50	08/08/19 10:51	1
Tetrachloroethene	<0.00081		0.0024	0.00081	mg/Kg	☼	08/05/19 15:50	08/08/19 10:51	1
Toluene	<0.00060		0.0024	0.00060	mg/Kg	☼	08/05/19 15:50	08/08/19 10:51	1
trans-1,2-Dichloroethene	<0.0011		0.0024	0.0011	mg/Kg	☼	08/05/19 15:50	08/08/19 10:51	1
trans-1,3-Dichloropropene	<0.00083		0.0024	0.00083	mg/Kg	☼	08/05/19 15:50	08/08/19 10:51	1
1,1,1-Trichloroethane	<0.00080		0.0024	0.00080	mg/Kg	☼	08/05/19 15:50	08/08/19 10:51	1
1,1,2-Trichloroethane	<0.0010		0.0024	0.0010	mg/Kg	☼	08/05/19 15:50	08/08/19 10:51	1
Trichloroethene	<0.00080		0.0024	0.00080	mg/Kg	☼	08/05/19 15:50	08/08/19 10:51	1
Vinyl acetate	<0.0021		0.0059	0.0021	mg/Kg	☼	08/05/19 15:50	08/08/19 10:51	1
Vinyl chloride	<0.0011		0.0024	0.0011	mg/Kg	☼	08/05/19 15:50	08/08/19 10:51	1
Xylenes, Total	<0.00076		0.0047	0.00076	mg/Kg	☼	08/05/19 15:50	08/08/19 10:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		75 - 131	08/05/19 15:50	08/08/19 10:51	1
Dibromofluoromethane	99		75 - 126	08/05/19 15:50	08/08/19 10:51	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	08/05/19 15:50	08/08/19 10:51	1
Toluene-d8 (Surr)	93		75 - 124	08/05/19 15:50	08/08/19 10:51	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.022	J	0.033	0.0060	mg/Kg	☼	08/07/19 07:34	08/12/19 21:45	1
Acenaphthylene	0.022	J	0.033	0.0044	mg/Kg	☼	08/07/19 07:34	08/12/19 21:45	1
Anthracene	0.058		0.033	0.0056	mg/Kg	☼	08/07/19 07:34	08/12/19 21:45	1
Benzo[a]anthracene	0.46		0.033	0.0045	mg/Kg	☼	08/07/19 07:34	08/12/19 21:45	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B09 (0-5) Dup

Lab Sample ID: 500-167784-13

Date Collected: 08/05/19 12:35

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 94.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.58		0.033	0.0065	mg/Kg	☼	08/07/19 07:34	08/12/19 21:45	1
Benzo[b]fluoranthene	0.88		0.033	0.0072	mg/Kg	☼	08/07/19 07:34	08/12/19 21:45	1
Benzo[g,h,i]perylene	0.27		0.033	0.011	mg/Kg	☼	08/07/19 07:34	08/12/19 21:45	1
Benzo[k]fluoranthene	0.25		0.033	0.0099	mg/Kg	☼	08/07/19 07:34	08/12/19 21:45	1
Bis(2-chloroethoxy)methane	<0.034		0.17	0.034	mg/Kg	☼	08/07/19 07:34	08/12/19 21:45	1
Bis(2-chloroethyl)ether	<0.050		0.17	0.050	mg/Kg	☼	08/07/19 07:34	08/12/19 21:45	1
Bis(2-ethylhexyl) phthalate	<0.061		0.17	0.061	mg/Kg	☼	08/07/19 07:34	08/12/19 21:45	1
4-Bromophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg	☼	08/07/19 07:34	08/12/19 21:45	1
Butyl benzyl phthalate	<0.064		0.17	0.064	mg/Kg	☼	08/07/19 07:34	08/12/19 21:45	1
Carbazole	<0.084		0.17	0.084	mg/Kg	☼	08/07/19 07:34	08/12/19 21:45	1
4-Chloroaniline	<0.16		0.68	0.16	mg/Kg	☼	08/07/19 07:34	08/12/19 21:45	1
4-Chloro-3-methylphenol	<0.11		0.33	0.11	mg/Kg	☼	08/07/19 07:34	08/12/19 21:45	1
2-Chloronaphthalene	<0.037		0.17	0.037	mg/Kg	☼	08/07/19 07:34	08/12/19 21:45	1
2-Chlorophenol	<0.057		0.17	0.057	mg/Kg	☼	08/07/19 07:34	08/12/19 21:45	1
4-Chlorophenyl phenyl ether	<0.039		0.17	0.039	mg/Kg	☼	08/07/19 07:34	08/12/19 21:45	1
Chrysene	0.61		0.033	0.0091	mg/Kg	☼	08/07/19 07:34	08/12/19 21:45	1
Dibenz(a,h)anthracene	0.065		0.033	0.0065	mg/Kg	☼	08/07/19 07:34	08/12/19 21:45	1
Dibenzofuran	<0.039		0.17	0.039	mg/Kg	☼	08/07/19 07:34	08/12/19 21:45	1
1,2-Dichlorobenzene	<0.040		0.17	0.040	mg/Kg	☼	08/07/19 07:34	08/12/19 21:45	1
1,3-Dichlorobenzene	<0.038		0.17	0.038	mg/Kg	☼	08/07/19 07:34	08/12/19 21:45	1
1,4-Dichlorobenzene	<0.043		0.17	0.043	mg/Kg	☼	08/07/19 07:34	08/12/19 21:45	1
3,3'-Dichlorobenzidine	<0.047		0.17	0.047	mg/Kg	☼	08/07/19 07:34	08/12/19 21:45	1
2,4-Dichlorophenol	<0.080		0.33	0.080	mg/Kg	☼	08/07/19 07:34	08/12/19 21:45	1
Diethyl phthalate	<0.057		0.17	0.057	mg/Kg	☼	08/07/19 07:34	08/12/19 21:45	1
2,4-Dimethylphenol	<0.13		0.33	0.13	mg/Kg	☼	08/07/19 07:34	08/12/19 21:45	1
Dimethyl phthalate	<0.044		0.17	0.044	mg/Kg	☼	08/07/19 07:34	08/12/19 21:45	1
Di-n-butyl phthalate	<0.051		0.17	0.051	mg/Kg	☼	08/07/19 07:34	08/12/19 21:45	1
4,6-Dinitro-2-methylphenol	<0.27		0.68	0.27	mg/Kg	☼	08/07/19 07:34	08/12/19 21:45	1
2,4-Dinitrophenol	<0.59		0.68	0.59	mg/Kg	☼	08/07/19 07:34	08/12/19 21:45	1
2,4-Dinitrotoluene	<0.053		0.17	0.053	mg/Kg	☼	08/07/19 07:34	08/12/19 21:45	1
2,6-Dinitrotoluene	<0.066		0.17	0.066	mg/Kg	☼	08/07/19 07:34	08/12/19 21:45	1
Di-n-octyl phthalate	<0.055		0.17	0.055	mg/Kg	☼	08/07/19 07:34	08/12/19 21:45	1
Fluoranthene	0.92		0.033	0.0062	mg/Kg	☼	08/07/19 07:34	08/12/19 21:45	1
Fluorene	0.017 J		0.033	0.0047	mg/Kg	☼	08/07/19 07:34	08/12/19 21:45	1
Hexachlorobenzene	<0.0078		0.068	0.0078	mg/Kg	☼	08/07/19 07:34	08/12/19 21:45	1
Hexachlorobutadiene	<0.053		0.17	0.053	mg/Kg	☼	08/07/19 07:34	08/12/19 21:45	1
Hexachlorocyclopentadiene	<0.19		0.68	0.19	mg/Kg	☼	08/07/19 07:34	08/12/19 21:45	1
Hexachloroethane	<0.051		0.17	0.051	mg/Kg	☼	08/07/19 07:34	08/12/19 21:45	1
Indeno[1,2,3-cd]pyrene	0.17		0.033	0.0087	mg/Kg	☼	08/07/19 07:34	08/12/19 21:45	1
Isophorone	<0.038		0.17	0.038	mg/Kg	☼	08/07/19 07:34	08/12/19 21:45	1
2-Methylnaphthalene	0.016 J		0.068	0.0062	mg/Kg	☼	08/07/19 07:34	08/12/19 21:45	1
2-Methylphenol	<0.054		0.17	0.054	mg/Kg	☼	08/07/19 07:34	08/12/19 21:45	1
3 & 4 Methylphenol	<0.056		0.17	0.056	mg/Kg	☼	08/07/19 07:34	08/12/19 21:45	1
Naphthalene	0.013 J		0.033	0.0052	mg/Kg	☼	08/07/19 07:34	08/12/19 21:45	1
2-Nitroaniline	<0.045		0.17	0.045	mg/Kg	☼	08/07/19 07:34	08/12/19 21:45	1
3-Nitroaniline	<0.10		0.33	0.10	mg/Kg	☼	08/07/19 07:34	08/12/19 21:45	1
4-Nitroaniline	<0.14		0.33	0.14	mg/Kg	☼	08/07/19 07:34	08/12/19 21:45	1
Nitrobenzene	<0.0084		0.033	0.0084	mg/Kg	☼	08/07/19 07:34	08/12/19 21:45	1
2-Nitrophenol	<0.079		0.33	0.079	mg/Kg	☼	08/07/19 07:34	08/12/19 21:45	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B09 (0-5) Dup

Lab Sample ID: 500-167784-13

Date Collected: 08/05/19 12:35

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 94.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.32		0.68	0.32	mg/Kg	☼	08/07/19 07:34	08/12/19 21:45	1
N-Nitrosodi-n-propylamine	<0.041		0.068	0.041	mg/Kg	☼	08/07/19 07:34	08/12/19 21:45	1
N-Nitrosodiphenylamine	<0.040		0.17	0.040	mg/Kg	☼	08/07/19 07:34	08/12/19 21:45	1
2,2'-oxybis[1-chloropropane]	<0.039		0.17	0.039	mg/Kg	☼	08/07/19 07:34	08/12/19 21:45	1
Pentachlorophenol	<0.54		0.68	0.54	mg/Kg	☼	08/07/19 07:34	08/12/19 21:45	1
Phenanthrene	0.25		0.033	0.0047	mg/Kg	☼	08/07/19 07:34	08/12/19 21:45	1
Phenol	<0.074		0.17	0.074	mg/Kg	☼	08/07/19 07:34	08/12/19 21:45	1
Pyrene	1.0		0.033	0.0067	mg/Kg	☼	08/07/19 07:34	08/12/19 21:45	1
1,2,4-Trichlorobenzene	<0.036		0.17	0.036	mg/Kg	☼	08/07/19 07:34	08/12/19 21:45	1
2,4,5-Trichlorophenol	<0.076		0.33	0.076	mg/Kg	☼	08/07/19 07:34	08/12/19 21:45	1
2,4,6-Trichlorophenol	<0.11		0.33	0.11	mg/Kg	☼	08/07/19 07:34	08/12/19 21:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	97		43 - 145	08/07/19 07:34	08/12/19 21:45	1
2-Fluorophenol	116		31 - 166	08/07/19 07:34	08/12/19 21:45	1
Nitrobenzene-d5	75		37 - 147	08/07/19 07:34	08/12/19 21:45	1
Phenol-d5	113		30 - 153	08/07/19 07:34	08/12/19 21:45	1
Terphenyl-d14	163	X	42 - 157	08/07/19 07:34	08/12/19 21:45	1
2,4,6-Tribromophenol	87		31 - 143	08/07/19 07:34	08/12/19 21:45	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.19		0.98	0.19	mg/Kg	☼	08/07/19 07:49	08/08/19 01:51	1
Arsenic	4.8		0.49	0.17	mg/Kg	☼	08/07/19 07:49	08/08/19 01:51	1
Barium	57		0.49	0.056	mg/Kg	☼	08/07/19 07:49	08/08/19 01:51	1
Beryllium	0.48		0.20	0.046	mg/Kg	☼	08/07/19 07:49	08/08/19 01:51	1
Cadmium	0.51	B	0.098	0.018	mg/Kg	☼	08/07/19 07:49	08/08/19 01:51	1
Chromium	14		0.49	0.24	mg/Kg	☼	08/07/19 07:49	08/08/19 01:51	1
Cobalt	6.2		0.25	0.064	mg/Kg	☼	08/07/19 07:49	08/08/19 01:51	1
Copper	330		0.49	0.14	mg/Kg	☼	08/07/19 07:49	08/08/19 12:38	1
Iron	12000		9.8	5.1	mg/Kg	☼	08/07/19 07:49	08/08/19 01:51	1
Lead	98		1.2	0.57	mg/Kg	☼	08/07/19 07:49	08/08/19 12:42	5
Magnesium	62000	B	25	12	mg/Kg	☼	08/07/19 07:49	08/08/19 12:42	5
Calcium	110000	B	49	8.3	mg/Kg	☼	08/07/19 07:49	08/08/19 21:11	5
Manganese	300		0.49	0.071	mg/Kg	☼	08/07/19 07:49	08/08/19 01:51	1
Nickel	17		0.49	0.14	mg/Kg	☼	08/07/19 07:49	08/08/19 01:51	1
Selenium	0.29	J	0.49	0.29	mg/Kg	☼	08/07/19 07:49	08/08/19 01:51	1
Silver	1.5		0.25	0.063	mg/Kg	☼	08/07/19 07:49	08/08/19 01:51	1
Thallium	0.35	J	0.49	0.24	mg/Kg	☼	08/07/19 07:49	08/08/19 01:51	1
Vanadium	15		0.25	0.058	mg/Kg	☼	08/07/19 07:49	08/08/19 01:51	1
Zinc	170		0.98	0.43	mg/Kg	☼	08/07/19 07:49	08/08/19 01:51	1
Potassium	1500		25	8.7	mg/Kg	☼	08/07/19 07:49	08/08/19 12:38	1
Sodium	450		49	7.3	mg/Kg	☼	08/07/19 07:49	08/08/19 01:51	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/08/19 14:42	08/10/19 08:05	1
Barium	0.41	J	0.50	0.050	mg/L		08/08/19 14:42	08/10/19 08:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/08/19 14:42	08/10/19 08:05	1
Cadmium	0.0040	J	0.0050	0.0020	mg/L		08/08/19 14:42	08/10/19 08:05	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B09 (0-5) Dup

Lab Sample ID: 500-167784-13

Date Collected: 08/05/19 12:35

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 94.5

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	300		5.0	0.50	mg/L		08/08/19 14:42	08/10/19 08:05	1
Chromium	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 08:05	1
Cobalt	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 08:05	1
Copper	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 08:05	1
Iron	<0.20		0.40	0.20	mg/L		08/08/19 14:42	08/10/19 08:05	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/08/19 14:42	08/10/19 08:05	1
Magnesium	100		2.5	0.50	mg/L		08/08/19 14:42	08/10/19 08:05	1
Manganese	0.35		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 08:05	1
Nickel	0.012	J	0.025	0.010	mg/L		08/08/19 14:42	08/10/19 08:05	1
Potassium	2.7		2.5	0.50	mg/L		08/08/19 14:42	08/10/19 08:05	1
Selenium	<0.020		0.050	0.020	mg/L		08/08/19 14:42	08/10/19 08:05	1
Silver	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 08:05	1
Vanadium	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 08:05	1
Zinc	0.21	J	0.50	0.020	mg/L		08/08/19 14:42	08/10/19 08:05	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.33		0.025	0.010	mg/L		08/08/19 14:40	08/09/19 23:10	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/08/19 14:42	08/09/19 14:47	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/08/19 14:42	08/09/19 14:47	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/09/19 10:05	08/09/19 16:37	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.017	0.0057	mg/Kg	☼	08/07/19 11:20	08/08/19 10:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.25		0.51	0.25	mg/Kg	☼	08/15/19 10:25	08/15/19 15:13	1
pH	8.4		0.2	0.2	SU			08/06/19 14:04	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B09 (5-7)

Lab Sample ID: 500-167784-14

Date Collected: 08/05/19 12:40

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 93.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.014	J*	0.017	0.0074	mg/Kg	☼	08/05/19 15:50	08/07/19 17:12	1
Benzene	<0.00043		0.0017	0.00043	mg/Kg	☼	08/05/19 15:50	08/07/19 17:12	1
Bromodichloromethane	<0.00034		0.0017	0.00034	mg/Kg	☼	08/05/19 15:50	08/07/19 17:12	1
Bromoform	<0.00049		0.0017	0.00049	mg/Kg	☼	08/05/19 15:50	08/07/19 17:12	1
Bromomethane	<0.0016		0.0042	0.0016	mg/Kg	☼	08/05/19 15:50	08/07/19 17:12	1
2-Butanone (MEK)	<0.0019	*	0.0042	0.0019	mg/Kg	☼	08/05/19 15:50	08/07/19 17:12	1
Carbon disulfide	<0.00088		0.0042	0.00088	mg/Kg	☼	08/05/19 15:50	08/07/19 17:12	1
Carbon tetrachloride	<0.00049		0.0017	0.00049	mg/Kg	☼	08/05/19 15:50	08/07/19 17:12	1
Chlorobenzene	<0.00062		0.0017	0.00062	mg/Kg	☼	08/05/19 15:50	08/07/19 17:12	1
Chloroethane	<0.0013	*	0.0042	0.0013	mg/Kg	☼	08/05/19 15:50	08/07/19 17:12	1
Chloroform	<0.00059		0.0017	0.00059	mg/Kg	☼	08/05/19 15:50	08/07/19 17:12	1
Chloromethane	<0.0017		0.0042	0.0017	mg/Kg	☼	08/05/19 15:50	08/07/19 17:12	1
cis-1,2-Dichloroethene	<0.00047		0.0017	0.00047	mg/Kg	☼	08/05/19 15:50	08/07/19 17:12	1
cis-1,3-Dichloropropene	<0.00051		0.0017	0.00051	mg/Kg	☼	08/05/19 15:50	08/07/19 17:12	1
Dibromochloromethane	<0.00055		0.0017	0.00055	mg/Kg	☼	08/05/19 15:50	08/07/19 17:12	1
1,1-Dichloroethane	<0.00058		0.0017	0.00058	mg/Kg	☼	08/05/19 15:50	08/07/19 17:12	1
1,2-Dichloroethane	<0.0013		0.0042	0.0013	mg/Kg	☼	08/05/19 15:50	08/07/19 17:12	1
1,1-Dichloroethene	<0.00058		0.0017	0.00058	mg/Kg	☼	08/05/19 15:50	08/07/19 17:12	1
1,2-Dichloropropene	<0.00044		0.0017	0.00044	mg/Kg	☼	08/05/19 15:50	08/07/19 17:12	1
1,3-Dichloropropene, Total	<0.00059		0.0017	0.00059	mg/Kg	☼	08/05/19 15:50	08/07/19 17:12	1
Ethylbenzene	<0.00081		0.0017	0.00081	mg/Kg	☼	08/05/19 15:50	08/07/19 17:12	1
2-Hexanone	<0.0013		0.0042	0.0013	mg/Kg	☼	08/05/19 15:50	08/07/19 17:12	1
Methylene Chloride	0.0037	J	0.0042	0.0017	mg/Kg	☼	08/05/19 15:50	08/07/19 17:12	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0042	0.0013	mg/Kg	☼	08/05/19 15:50	08/07/19 17:12	1
Methyl tert-butyl ether	<0.00050		0.0017	0.00050	mg/Kg	☼	08/05/19 15:50	08/07/19 17:12	1
Styrene	<0.00051		0.0017	0.00051	mg/Kg	☼	08/05/19 15:50	08/07/19 17:12	1
1,1,2,2-Tetrachloroethane	<0.00054		0.0017	0.00054	mg/Kg	☼	08/05/19 15:50	08/07/19 17:12	1
Tetrachloroethene	<0.00058		0.0017	0.00058	mg/Kg	☼	08/05/19 15:50	08/07/19 17:12	1
Toluene	<0.00043		0.0017	0.00043	mg/Kg	☼	08/05/19 15:50	08/07/19 17:12	1
trans-1,2-Dichloroethene	<0.00075		0.0017	0.00075	mg/Kg	☼	08/05/19 15:50	08/07/19 17:12	1
trans-1,3-Dichloropropene	<0.00059		0.0017	0.00059	mg/Kg	☼	08/05/19 15:50	08/07/19 17:12	1
1,1,1-Trichloroethane	<0.00057		0.0017	0.00057	mg/Kg	☼	08/05/19 15:50	08/07/19 17:12	1
1,1,2-Trichloroethane	<0.00072		0.0017	0.00072	mg/Kg	☼	08/05/19 15:50	08/07/19 17:12	1
Trichloroethene	<0.00057		0.0017	0.00057	mg/Kg	☼	08/05/19 15:50	08/07/19 17:12	1
Vinyl acetate	<0.0015		0.0042	0.0015	mg/Kg	☼	08/05/19 15:50	08/07/19 17:12	1
Vinyl chloride	<0.00075		0.0017	0.00075	mg/Kg	☼	08/05/19 15:50	08/07/19 17:12	1
Xylenes, Total	<0.00054		0.0034	0.00054	mg/Kg	☼	08/05/19 15:50	08/07/19 17:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		75 - 131	08/05/19 15:50	08/07/19 17:12	1
Dibromofluoromethane	97		75 - 126	08/05/19 15:50	08/07/19 17:12	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 134	08/05/19 15:50	08/07/19 17:12	1
Toluene-d8 (Surr)	96		75 - 124	08/05/19 15:50	08/07/19 17:12	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.026	J	0.034	0.0062	mg/Kg	☼	08/07/19 07:34	08/08/19 20:59	1
Acenaphthylene	0.015	J	0.034	0.0046	mg/Kg	☼	08/07/19 07:34	08/08/19 20:59	1
Anthracene	0.075		0.034	0.0058	mg/Kg	☼	08/07/19 07:34	08/08/19 20:59	1
Benzo[a]anthracene	0.25		0.034	0.0047	mg/Kg	☼	08/07/19 07:34	08/08/19 20:59	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B09 (5-7)

Lab Sample ID: 500-167784-14

Date Collected: 08/05/19 12:40

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 93.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.28		0.034	0.0067	mg/Kg	☼	08/07/19 07:34	08/08/19 20:59	1
Benzo[b]fluoranthene	0.38		0.034	0.0075	mg/Kg	☼	08/07/19 07:34	08/08/19 20:59	1
Benzo[g,h,i]perylene	0.14		0.034	0.011	mg/Kg	☼	08/07/19 07:34	08/08/19 20:59	1
Benzo[k]fluoranthene	0.13		0.034	0.010	mg/Kg	☼	08/07/19 07:34	08/08/19 20:59	1
Bis(2-chloroethoxy)methane	<0.035		0.17	0.035	mg/Kg	☼	08/07/19 07:34	08/08/19 20:59	1
Bis(2-chloroethyl)ether	<0.052		0.17	0.052	mg/Kg	☼	08/07/19 07:34	08/08/19 20:59	1
Bis(2-ethylhexyl) phthalate	<0.063		0.17	0.063	mg/Kg	☼	08/07/19 07:34	08/08/19 20:59	1
4-Bromophenyl phenyl ether	<0.046		0.17	0.046	mg/Kg	☼	08/07/19 07:34	08/08/19 20:59	1
Butyl benzyl phthalate	<0.066		0.17	0.066	mg/Kg	☼	08/07/19 07:34	08/08/19 20:59	1
Carbazole	<0.087		0.17	0.087	mg/Kg	☼	08/07/19 07:34	08/08/19 20:59	1
4-Chloroaniline	<0.16		0.70	0.16	mg/Kg	☼	08/07/19 07:34	08/08/19 20:59	1
4-Chloro-3-methylphenol	<0.12		0.34	0.12	mg/Kg	☼	08/07/19 07:34	08/08/19 20:59	1
2-Chloronaphthalene	<0.038		0.17	0.038	mg/Kg	☼	08/07/19 07:34	08/08/19 20:59	1
2-Chlorophenol	<0.059		0.17	0.059	mg/Kg	☼	08/07/19 07:34	08/08/19 20:59	1
4-Chlorophenyl phenyl ether	<0.041		0.17	0.041	mg/Kg	☼	08/07/19 07:34	08/08/19 20:59	1
Chrysene	0.25		0.034	0.0095	mg/Kg	☼	08/07/19 07:34	08/08/19 20:59	1
Dibenz(a,h)anthracene	0.032 J		0.034	0.0067	mg/Kg	☼	08/07/19 07:34	08/08/19 20:59	1
Dibenzofuran	<0.041		0.17	0.041	mg/Kg	☼	08/07/19 07:34	08/08/19 20:59	1
1,2-Dichlorobenzene	<0.041		0.17	0.041	mg/Kg	☼	08/07/19 07:34	08/08/19 20:59	1
1,3-Dichlorobenzene	<0.039		0.17	0.039	mg/Kg	☼	08/07/19 07:34	08/08/19 20:59	1
1,4-Dichlorobenzene	<0.045		0.17	0.045	mg/Kg	☼	08/07/19 07:34	08/08/19 20:59	1
3,3'-Dichlorobenzidine	<0.049		0.17	0.049	mg/Kg	☼	08/07/19 07:34	08/08/19 20:59	1
2,4-Dichlorophenol	<0.082		0.34	0.082	mg/Kg	☼	08/07/19 07:34	08/08/19 20:59	1
Diethyl phthalate	<0.059		0.17	0.059	mg/Kg	☼	08/07/19 07:34	08/08/19 20:59	1
2,4-Dimethylphenol	<0.13		0.34	0.13	mg/Kg	☼	08/07/19 07:34	08/08/19 20:59	1
Dimethyl phthalate	<0.045		0.17	0.045	mg/Kg	☼	08/07/19 07:34	08/08/19 20:59	1
Di-n-butyl phthalate	<0.053		0.17	0.053	mg/Kg	☼	08/07/19 07:34	08/08/19 20:59	1
4,6-Dinitro-2-methylphenol	<0.28		0.70	0.28	mg/Kg	☼	08/07/19 07:34	08/08/19 20:59	1
2,4-Dinitrophenol	<0.61		0.70	0.61	mg/Kg	☼	08/07/19 07:34	08/08/19 20:59	1
2,4-Dinitrotoluene	<0.055		0.17	0.055	mg/Kg	☼	08/07/19 07:34	08/08/19 20:59	1
2,6-Dinitrotoluene	<0.068		0.17	0.068	mg/Kg	☼	08/07/19 07:34	08/08/19 20:59	1
Di-n-octyl phthalate	<0.057		0.17	0.057	mg/Kg	☼	08/07/19 07:34	08/08/19 20:59	1
Fluoranthene	0.46		0.034	0.0064	mg/Kg	☼	08/07/19 07:34	08/08/19 20:59	1
Fluorene	0.026 J		0.034	0.0049	mg/Kg	☼	08/07/19 07:34	08/08/19 20:59	1
Hexachlorobenzene	<0.0080		0.070	0.0080	mg/Kg	☼	08/07/19 07:34	08/08/19 20:59	1
Hexachlorobutadiene	<0.055		0.17	0.055	mg/Kg	☼	08/07/19 07:34	08/08/19 20:59	1
Hexachlorocyclopentadiene	<0.20		0.70	0.20	mg/Kg	☼	08/07/19 07:34	08/08/19 20:59	1
Hexachloroethane	<0.053		0.17	0.053	mg/Kg	☼	08/07/19 07:34	08/08/19 20:59	1
Indeno[1,2,3-cd]pyrene	0.10		0.034	0.0090	mg/Kg	☼	08/07/19 07:34	08/08/19 20:59	1
Isophorone	<0.039		0.17	0.039	mg/Kg	☼	08/07/19 07:34	08/08/19 20:59	1
2-Methylnaphthalene	0.0097 J		0.070	0.0064	mg/Kg	☼	08/07/19 07:34	08/08/19 20:59	1
2-Methylphenol	<0.056		0.17	0.056	mg/Kg	☼	08/07/19 07:34	08/08/19 20:59	1
3 & 4 Methylphenol	<0.058		0.17	0.058	mg/Kg	☼	08/07/19 07:34	08/08/19 20:59	1
Naphthalene	0.0070 J		0.034	0.0053	mg/Kg	☼	08/07/19 07:34	08/08/19 20:59	1
2-Nitroaniline	<0.047		0.17	0.047	mg/Kg	☼	08/07/19 07:34	08/08/19 20:59	1
3-Nitroaniline	<0.11		0.34	0.11	mg/Kg	☼	08/07/19 07:34	08/08/19 20:59	1
4-Nitroaniline	<0.15		0.34	0.15	mg/Kg	☼	08/07/19 07:34	08/08/19 20:59	1
Nitrobenzene	<0.0087		0.034	0.0087	mg/Kg	☼	08/07/19 07:34	08/08/19 20:59	1
2-Nitrophenol	<0.082		0.34	0.082	mg/Kg	☼	08/07/19 07:34	08/08/19 20:59	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B09 (5-7)

Lab Sample ID: 500-167784-14

Date Collected: 08/05/19 12:40

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 93.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.33		0.70	0.33	mg/Kg	☼	08/07/19 07:34	08/08/19 20:59	1
N-Nitrosodi-n-propylamine	<0.042		0.070	0.042	mg/Kg	☼	08/07/19 07:34	08/08/19 20:59	1
N-Nitrosodiphenylamine	<0.041		0.17	0.041	mg/Kg	☼	08/07/19 07:34	08/08/19 20:59	1
2,2'-oxybis[1-chloropropane]	<0.040		0.17	0.040	mg/Kg	☼	08/07/19 07:34	08/08/19 20:59	1
Pentachlorophenol	<0.56		0.70	0.56	mg/Kg	☼	08/07/19 07:34	08/08/19 20:59	1
Phenanthrene	0.33		0.034	0.0048	mg/Kg	☼	08/07/19 07:34	08/08/19 20:59	1
Phenol	<0.077		0.17	0.077	mg/Kg	☼	08/07/19 07:34	08/08/19 20:59	1
Pyrene	0.54		0.034	0.0069	mg/Kg	☼	08/07/19 07:34	08/08/19 20:59	1
1,2,4-Trichlorobenzene	<0.037		0.17	0.037	mg/Kg	☼	08/07/19 07:34	08/08/19 20:59	1
2,4,5-Trichlorophenol	<0.079		0.34	0.079	mg/Kg	☼	08/07/19 07:34	08/08/19 20:59	1
2,4,6-Trichlorophenol	<0.12		0.34	0.12	mg/Kg	☼	08/07/19 07:34	08/08/19 20:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	109		43 - 145	08/07/19 07:34	08/08/19 20:59	1
2-Fluorophenol	104		31 - 166	08/07/19 07:34	08/08/19 20:59	1
Nitrobenzene-d5	85		37 - 147	08/07/19 07:34	08/08/19 20:59	1
Phenol-d5	88		30 - 153	08/07/19 07:34	08/08/19 20:59	1
Terphenyl-d14	151		42 - 157	08/07/19 07:34	08/08/19 20:59	1
2,4,6-Tribromophenol	125		31 - 143	08/07/19 07:34	08/08/19 20:59	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.51	J	1.0	0.20	mg/Kg	☼	08/07/19 07:49	08/08/19 01:55	1
Arsenic	4.1		0.52	0.18	mg/Kg	☼	08/07/19 07:49	08/08/19 01:55	1
Barium	23		0.52	0.060	mg/Kg	☼	08/07/19 07:49	08/08/19 01:55	1
Beryllium	0.22		0.21	0.049	mg/Kg	☼	08/07/19 07:49	08/08/19 01:55	1
Cadmium	0.37	B	0.10	0.019	mg/Kg	☼	08/07/19 07:49	08/08/19 01:55	1
Chromium	5.1		0.52	0.26	mg/Kg	☼	08/07/19 07:49	08/08/19 01:55	1
Cobalt	3.5		0.26	0.068	mg/Kg	☼	08/07/19 07:49	08/08/19 01:55	1
Copper	11		0.52	0.15	mg/Kg	☼	08/07/19 07:49	08/08/19 01:55	1
Iron	7100		10	5.4	mg/Kg	☼	08/07/19 07:49	08/08/19 01:55	1
Lead	53		0.26	0.12	mg/Kg	☼	08/07/19 07:49	08/08/19 01:55	1
Magnesium	100000	B	26	13	mg/Kg	☼	08/07/19 07:49	08/08/19 12:50	5
Calcium	180000	B	100	18	mg/Kg	☼	08/07/19 07:49	08/09/19 12:23	10
Manganese	150		0.52	0.076	mg/Kg	☼	08/07/19 07:49	08/08/19 01:55	1
Nickel	7.4		0.52	0.15	mg/Kg	☼	08/07/19 07:49	08/08/19 01:55	1
Selenium	<0.31		0.52	0.31	mg/Kg	☼	08/07/19 07:49	08/08/19 01:55	1
Silver	0.73		0.26	0.067	mg/Kg	☼	08/07/19 07:49	08/08/19 01:55	1
Thallium	<0.26		0.52	0.26	mg/Kg	☼	08/07/19 07:49	08/08/19 01:55	1
Vanadium	8.2		0.26	0.062	mg/Kg	☼	08/07/19 07:49	08/08/19 01:55	1
Zinc	47		1.0	0.46	mg/Kg	☼	08/07/19 07:49	08/08/19 01:55	1
Potassium	640		26	9.2	mg/Kg	☼	08/07/19 07:49	08/08/19 12:46	1
Sodium	290		52	7.7	mg/Kg	☼	08/07/19 07:49	08/08/19 01:55	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/08/19 14:42	08/10/19 08:09	1
Barium	0.27	J	0.50	0.050	mg/L		08/08/19 14:42	08/10/19 08:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/08/19 14:42	08/10/19 08:09	1
Cadmium	0.0030	J	0.0050	0.0020	mg/L		08/08/19 14:42	08/10/19 08:09	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B09 (5-7)

Lab Sample ID: 500-167784-14

Date Collected: 08/05/19 12:40

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 93.3

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	260		5.0	0.50	mg/L		08/08/19 14:42	08/10/19 08:09	1
Chromium	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 08:09	1
Cobalt	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 08:09	1
Copper	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 08:09	1
Iron	<0.20		0.40	0.20	mg/L		08/08/19 14:42	08/10/19 08:09	1
Lead	0.0090		0.0075	0.0075	mg/L		08/08/19 14:42	08/10/19 08:09	1
Magnesium	130		2.5	0.50	mg/L		08/08/19 14:42	08/10/19 08:09	1
Manganese	0.33		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 08:09	1
Nickel	0.013	J	0.025	0.010	mg/L		08/08/19 14:42	08/10/19 08:09	1
Potassium	0.87	J	2.5	0.50	mg/L		08/08/19 14:42	08/10/19 08:09	1
Selenium	<0.020		0.050	0.020	mg/L		08/08/19 14:42	08/10/19 08:09	1
Silver	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 08:09	1
Vanadium	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 08:09	1
Zinc	0.32	J	0.50	0.020	mg/L		08/08/19 14:42	08/10/19 08:09	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.031		0.0075	0.0075	mg/L		08/08/19 14:40	08/09/19 23:14	1
Manganese	0.051		0.025	0.010	mg/L		08/08/19 14:40	08/09/19 23:14	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/08/19 14:42	08/09/19 14:58	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/08/19 14:42	08/09/19 14:58	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/09/19 10:05	08/09/19 16:39	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.012	J	0.016	0.0054	mg/Kg	☼	08/07/19 11:20	08/08/19 10:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.26		0.51	0.26	mg/Kg	☼	08/15/19 10:25	08/15/19 15:13	1
pH	8.9		0.2	0.2	SU			08/06/19 14:09	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B10 (0-4)

Lab Sample ID: 500-167784-15

Date Collected: 08/05/19 13:00

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 95.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.040	*	0.025	0.011	mg/Kg	☼	08/05/19 15:50	08/07/19 17:38	1
Benzene	<0.00064		0.0025	0.00064	mg/Kg	☼	08/05/19 15:50	08/07/19 17:38	1
Bromodichloromethane	<0.00051		0.0025	0.00051	mg/Kg	☼	08/05/19 15:50	08/07/19 17:38	1
Bromoform	<0.00074		0.0025	0.00074	mg/Kg	☼	08/05/19 15:50	08/07/19 17:38	1
Bromomethane	<0.0024		0.0063	0.0024	mg/Kg	☼	08/05/19 15:50	08/07/19 17:38	1
2-Butanone (MEK)	<0.0028	*	0.0063	0.0028	mg/Kg	☼	08/05/19 15:50	08/07/19 17:38	1
Carbon disulfide	<0.0013		0.0063	0.0013	mg/Kg	☼	08/05/19 15:50	08/07/19 17:38	1
Carbon tetrachloride	<0.00073		0.0025	0.00073	mg/Kg	☼	08/05/19 15:50	08/07/19 17:38	1
Chlorobenzene	<0.00093		0.0025	0.00093	mg/Kg	☼	08/05/19 15:50	08/07/19 17:38	1
Chloroethane	<0.0019	*	0.0063	0.0019	mg/Kg	☼	08/05/19 15:50	08/07/19 17:38	1
Chloroform	<0.00088		0.0025	0.00088	mg/Kg	☼	08/05/19 15:50	08/07/19 17:38	1
Chloromethane	<0.0025		0.0063	0.0025	mg/Kg	☼	08/05/19 15:50	08/07/19 17:38	1
cis-1,2-Dichloroethene	<0.00071		0.0025	0.00071	mg/Kg	☼	08/05/19 15:50	08/07/19 17:38	1
cis-1,3-Dichloropropene	<0.00076		0.0025	0.00076	mg/Kg	☼	08/05/19 15:50	08/07/19 17:38	1
Dibromochloromethane	<0.00083		0.0025	0.00083	mg/Kg	☼	08/05/19 15:50	08/07/19 17:38	1
1,1-Dichloroethane	<0.00087		0.0025	0.00087	mg/Kg	☼	08/05/19 15:50	08/07/19 17:38	1
1,2-Dichloroethane	<0.0020		0.0063	0.0020	mg/Kg	☼	08/05/19 15:50	08/07/19 17:38	1
1,1-Dichloroethene	<0.00087		0.0025	0.00087	mg/Kg	☼	08/05/19 15:50	08/07/19 17:38	1
1,2-Dichloropropane	<0.00065		0.0025	0.00065	mg/Kg	☼	08/05/19 15:50	08/07/19 17:38	1
1,3-Dichloropropane, Total	<0.00089		0.0025	0.00089	mg/Kg	☼	08/05/19 15:50	08/07/19 17:38	1
Ethylbenzene	<0.0012		0.0025	0.0012	mg/Kg	☼	08/05/19 15:50	08/07/19 17:38	1
2-Hexanone	<0.0020		0.0063	0.0020	mg/Kg	☼	08/05/19 15:50	08/07/19 17:38	1
Methylene Chloride	<0.0025		0.0063	0.0025	mg/Kg	☼	08/05/19 15:50	08/07/19 17:38	1
4-Methyl-2-pentanone (MIBK)	<0.0019		0.0063	0.0019	mg/Kg	☼	08/05/19 15:50	08/07/19 17:38	1
Methyl tert-butyl ether	<0.00074		0.0025	0.00074	mg/Kg	☼	08/05/19 15:50	08/07/19 17:38	1
Styrene	<0.00076		0.0025	0.00076	mg/Kg	☼	08/05/19 15:50	08/07/19 17:38	1
1,1,2,2-Tetrachloroethane	<0.00081		0.0025	0.00081	mg/Kg	☼	08/05/19 15:50	08/07/19 17:38	1
Tetrachloroethene	<0.00086		0.0025	0.00086	mg/Kg	☼	08/05/19 15:50	08/07/19 17:38	1
Toluene	<0.00064		0.0025	0.00064	mg/Kg	☼	08/05/19 15:50	08/07/19 17:38	1
trans-1,2-Dichloroethene	<0.0011		0.0025	0.0011	mg/Kg	☼	08/05/19 15:50	08/07/19 17:38	1
trans-1,3-Dichloropropene	<0.00089		0.0025	0.00089	mg/Kg	☼	08/05/19 15:50	08/07/19 17:38	1
1,1,1-Trichloroethane	<0.00085		0.0025	0.00085	mg/Kg	☼	08/05/19 15:50	08/07/19 17:38	1
1,1,2-Trichloroethane	<0.0011		0.0025	0.0011	mg/Kg	☼	08/05/19 15:50	08/07/19 17:38	1
Trichloroethene	<0.00085		0.0025	0.00085	mg/Kg	☼	08/05/19 15:50	08/07/19 17:38	1
Vinyl acetate	<0.0022		0.0063	0.0022	mg/Kg	☼	08/05/19 15:50	08/07/19 17:38	1
Vinyl chloride	<0.0011		0.0025	0.0011	mg/Kg	☼	08/05/19 15:50	08/07/19 17:38	1
Xylenes, Total	<0.00081		0.0051	0.00081	mg/Kg	☼	08/05/19 15:50	08/07/19 17:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		75 - 131	08/05/19 15:50	08/07/19 17:38	1
Dibromofluoromethane	98		75 - 126	08/05/19 15:50	08/07/19 17:38	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	08/05/19 15:50	08/07/19 17:38	1
Toluene-d8 (Surr)	91		75 - 124	08/05/19 15:50	08/07/19 17:38	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.074		0.034	0.0062	mg/Kg	☼	08/07/19 07:34	08/08/19 21:23	1
Acenaphthylene	0.020	J	0.034	0.0045	mg/Kg	☼	08/07/19 07:34	08/08/19 21:23	1
Anthracene	0.13		0.034	0.0057	mg/Kg	☼	08/07/19 07:34	08/08/19 21:23	1
Benzo[a]anthracene	0.61		0.034	0.0046	mg/Kg	☼	08/07/19 07:34	08/08/19 21:23	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B10 (0-4)

Lab Sample ID: 500-167784-15

Date Collected: 08/05/19 13:00

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 95.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.56		0.034	0.0066	mg/Kg	☼	08/07/19 07:34	08/08/19 21:23	1
Benzo[b]fluoranthene	0.80		0.034	0.0074	mg/Kg	☼	08/07/19 07:34	08/08/19 21:23	1
Benzo[g,h,i]perylene	0.22		0.034	0.011	mg/Kg	☼	08/07/19 07:34	08/08/19 21:23	1
Benzo[k]fluoranthene	0.31		0.034	0.010	mg/Kg	☼	08/07/19 07:34	08/08/19 21:23	1
Bis(2-chloroethoxy)methane	<0.035		0.17	0.035	mg/Kg	☼	08/07/19 07:34	08/08/19 21:23	1
Bis(2-chloroethyl)ether	<0.051		0.17	0.051	mg/Kg	☼	08/07/19 07:34	08/08/19 21:23	1
Bis(2-ethylhexyl) phthalate	0.074	J	0.17	0.063	mg/Kg	☼	08/07/19 07:34	08/08/19 21:23	1
4-Bromophenyl phenyl ether	<0.045		0.17	0.045	mg/Kg	☼	08/07/19 07:34	08/08/19 21:23	1
Butyl benzyl phthalate	<0.065		0.17	0.065	mg/Kg	☼	08/07/19 07:34	08/08/19 21:23	1
Carbazole	<0.086		0.17	0.086	mg/Kg	☼	08/07/19 07:34	08/08/19 21:23	1
4-Chloroaniline	<0.16		0.69	0.16	mg/Kg	☼	08/07/19 07:34	08/08/19 21:23	1
4-Chloro-3-methylphenol	<0.12		0.34	0.12	mg/Kg	☼	08/07/19 07:34	08/08/19 21:23	1
2-Chloronaphthalene	<0.038		0.17	0.038	mg/Kg	☼	08/07/19 07:34	08/08/19 21:23	1
2-Chlorophenol	<0.058		0.17	0.058	mg/Kg	☼	08/07/19 07:34	08/08/19 21:23	1
4-Chlorophenyl phenyl ether	<0.040		0.17	0.040	mg/Kg	☼	08/07/19 07:34	08/08/19 21:23	1
Chrysene	0.57		0.034	0.0093	mg/Kg	☼	08/07/19 07:34	08/08/19 21:23	1
Dibenz(a,h)anthracene	0.058		0.034	0.0066	mg/Kg	☼	08/07/19 07:34	08/08/19 21:23	1
Dibenzofuran	<0.040		0.17	0.040	mg/Kg	☼	08/07/19 07:34	08/08/19 21:23	1
1,2-Dichlorobenzene	<0.041		0.17	0.041	mg/Kg	☼	08/07/19 07:34	08/08/19 21:23	1
1,3-Dichlorobenzene	<0.039		0.17	0.039	mg/Kg	☼	08/07/19 07:34	08/08/19 21:23	1
1,4-Dichlorobenzene	<0.044		0.17	0.044	mg/Kg	☼	08/07/19 07:34	08/08/19 21:23	1
3,3'-Dichlorobenzidine	<0.048		0.17	0.048	mg/Kg	☼	08/07/19 07:34	08/08/19 21:23	1
2,4-Dichlorophenol	<0.081		0.34	0.081	mg/Kg	☼	08/07/19 07:34	08/08/19 21:23	1
Diethyl phthalate	<0.058		0.17	0.058	mg/Kg	☼	08/07/19 07:34	08/08/19 21:23	1
2,4-Dimethylphenol	<0.13		0.34	0.13	mg/Kg	☼	08/07/19 07:34	08/08/19 21:23	1
Dimethyl phthalate	<0.045		0.17	0.045	mg/Kg	☼	08/07/19 07:34	08/08/19 21:23	1
Di-n-butyl phthalate	<0.052		0.17	0.052	mg/Kg	☼	08/07/19 07:34	08/08/19 21:23	1
4,6-Dinitro-2-methylphenol	<0.28		0.69	0.28	mg/Kg	☼	08/07/19 07:34	08/08/19 21:23	1
2,4-Dinitrophenol	<0.60		0.69	0.60	mg/Kg	☼	08/07/19 07:34	08/08/19 21:23	1
2,4-Dinitrotoluene	<0.054		0.17	0.054	mg/Kg	☼	08/07/19 07:34	08/08/19 21:23	1
2,6-Dinitrotoluene	<0.067		0.17	0.067	mg/Kg	☼	08/07/19 07:34	08/08/19 21:23	1
Di-n-octyl phthalate	<0.056		0.17	0.056	mg/Kg	☼	08/07/19 07:34	08/08/19 21:23	1
Fluoranthene	1.3		0.034	0.0064	mg/Kg	☼	08/07/19 07:34	08/08/19 21:23	1
Fluorene	0.071		0.034	0.0048	mg/Kg	☼	08/07/19 07:34	08/08/19 21:23	1
Hexachlorobenzene	<0.0079		0.069	0.0079	mg/Kg	☼	08/07/19 07:34	08/08/19 21:23	1
Hexachlorobutadiene	<0.054		0.17	0.054	mg/Kg	☼	08/07/19 07:34	08/08/19 21:23	1
Hexachlorocyclopentadiene	<0.20		0.69	0.20	mg/Kg	☼	08/07/19 07:34	08/08/19 21:23	1
Hexachloroethane	<0.052		0.17	0.052	mg/Kg	☼	08/07/19 07:34	08/08/19 21:23	1
Indeno[1,2,3-cd]pyrene	0.20		0.034	0.0089	mg/Kg	☼	08/07/19 07:34	08/08/19 21:23	1
Isophorone	<0.038		0.17	0.038	mg/Kg	☼	08/07/19 07:34	08/08/19 21:23	1
2-Methylnaphthalene	0.013	J	0.069	0.0063	mg/Kg	☼	08/07/19 07:34	08/08/19 21:23	1
2-Methylphenol	<0.055		0.17	0.055	mg/Kg	☼	08/07/19 07:34	08/08/19 21:23	1
3 & 4 Methylphenol	<0.057		0.17	0.057	mg/Kg	☼	08/07/19 07:34	08/08/19 21:23	1
Naphthalene	0.0094	J	0.034	0.0053	mg/Kg	☼	08/07/19 07:34	08/08/19 21:23	1
2-Nitroaniline	<0.046		0.17	0.046	mg/Kg	☼	08/07/19 07:34	08/08/19 21:23	1
3-Nitroaniline	<0.11		0.34	0.11	mg/Kg	☼	08/07/19 07:34	08/08/19 21:23	1
4-Nitroaniline	<0.14		0.34	0.14	mg/Kg	☼	08/07/19 07:34	08/08/19 21:23	1
Nitrobenzene	<0.0085		0.034	0.0085	mg/Kg	☼	08/07/19 07:34	08/08/19 21:23	1
2-Nitrophenol	<0.081		0.34	0.081	mg/Kg	☼	08/07/19 07:34	08/08/19 21:23	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B10 (0-4)

Lab Sample ID: 500-167784-15

Date Collected: 08/05/19 13:00

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 95.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.33		0.69	0.33	mg/Kg	☼	08/07/19 07:34	08/08/19 21:23	1
N-Nitrosodi-n-propylamine	<0.042		0.069	0.042	mg/Kg	☼	08/07/19 07:34	08/08/19 21:23	1
N-Nitrosodiphenylamine	<0.040		0.17	0.040	mg/Kg	☼	08/07/19 07:34	08/08/19 21:23	1
2,2'-oxybis[1-chloropropane]	<0.040		0.17	0.040	mg/Kg	☼	08/07/19 07:34	08/08/19 21:23	1
Pentachlorophenol	<0.55		0.69	0.55	mg/Kg	☼	08/07/19 07:34	08/08/19 21:23	1
Phenanthrene	0.53		0.034	0.0048	mg/Kg	☼	08/07/19 07:34	08/08/19 21:23	1
Phenol	<0.076		0.17	0.076	mg/Kg	☼	08/07/19 07:34	08/08/19 21:23	1
Pyrene	1.5		0.034	0.0068	mg/Kg	☼	08/07/19 07:34	08/08/19 21:23	1
1,2,4-Trichlorobenzene	<0.037		0.17	0.037	mg/Kg	☼	08/07/19 07:34	08/08/19 21:23	1
2,4,5-Trichlorophenol	<0.078		0.34	0.078	mg/Kg	☼	08/07/19 07:34	08/08/19 21:23	1
2,4,6-Trichlorophenol	<0.12		0.34	0.12	mg/Kg	☼	08/07/19 07:34	08/08/19 21:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	103		43 - 145	08/07/19 07:34	08/08/19 21:23	1
2-Fluorophenol	97		31 - 166	08/07/19 07:34	08/08/19 21:23	1
Nitrobenzene-d5	81		37 - 147	08/07/19 07:34	08/08/19 21:23	1
Phenol-d5	86		30 - 153	08/07/19 07:34	08/08/19 21:23	1
Terphenyl-d14	152		42 - 157	08/07/19 07:34	08/08/19 21:23	1
2,4,6-Tribromophenol	136		31 - 143	08/07/19 07:34	08/08/19 21:23	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.50	J	0.99	0.19	mg/Kg	☼	08/07/19 07:49	08/08/19 01:59	1
Arsenic	4.5		0.50	0.17	mg/Kg	☼	08/07/19 07:49	08/08/19 01:59	1
Barium	39		0.50	0.057	mg/Kg	☼	08/07/19 07:49	08/08/19 01:59	1
Beryllium	0.30		0.20	0.046	mg/Kg	☼	08/07/19 07:49	08/08/19 01:59	1
Cadmium	0.40	B	0.099	0.018	mg/Kg	☼	08/07/19 07:49	08/08/19 01:59	1
Chromium	8.9		0.50	0.25	mg/Kg	☼	08/07/19 07:49	08/08/19 01:59	1
Cobalt	4.9		0.25	0.065	mg/Kg	☼	08/07/19 07:49	08/08/19 01:59	1
Copper	21		0.50	0.14	mg/Kg	☼	08/07/19 07:49	08/08/19 01:59	1
Iron	8300		9.9	5.2	mg/Kg	☼	08/07/19 07:49	08/08/19 01:59	1
Lead	68		0.25	0.11	mg/Kg	☼	08/07/19 07:49	08/08/19 01:59	1
Magnesium	84000	B	25	12	mg/Kg	☼	08/07/19 07:49	08/08/19 12:59	5
Calcium	150000	B	50	8.4	mg/Kg	☼	08/07/19 07:49	08/08/19 21:19	5
Manganese	230		0.50	0.072	mg/Kg	☼	08/07/19 07:49	08/08/19 01:59	1
Nickel	11		0.50	0.14	mg/Kg	☼	08/07/19 07:49	08/08/19 01:59	1
Selenium	0.37	J	0.50	0.29	mg/Kg	☼	08/07/19 07:49	08/08/19 01:59	1
Silver	1.1		0.25	0.064	mg/Kg	☼	08/07/19 07:49	08/08/19 01:59	1
Thallium	<0.25		0.50	0.25	mg/Kg	☼	08/07/19 07:49	08/08/19 01:59	1
Vanadium	11		0.25	0.059	mg/Kg	☼	08/07/19 07:49	08/08/19 01:59	1
Zinc	85		0.99	0.44	mg/Kg	☼	08/07/19 07:49	08/08/19 01:59	1
Potassium	1200		25	8.8	mg/Kg	☼	08/07/19 07:49	08/08/19 12:55	1
Sodium	220		50	7.4	mg/Kg	☼	08/07/19 07:49	08/08/19 01:59	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/08/19 14:42	08/10/19 08:26	1
Barium	0.40	J	0.50	0.050	mg/L		08/08/19 14:42	08/10/19 08:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/08/19 14:42	08/10/19 08:26	1
Cadmium	0.0037	J	0.0050	0.0020	mg/L		08/08/19 14:42	08/10/19 08:26	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B10 (0-4)

Lab Sample ID: 500-167784-15

Date Collected: 08/05/19 13:00

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 95.9

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	280		5.0	0.50	mg/L		08/08/19 14:42	08/10/19 08:26	1
Chromium	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 08:26	1
Cobalt	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 08:26	1
Copper	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 08:26	1
Iron	<0.20		0.40	0.20	mg/L		08/08/19 14:42	08/10/19 08:26	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/08/19 14:42	08/10/19 08:26	1
Magnesium	110		2.5	0.50	mg/L		08/08/19 14:42	08/10/19 08:26	1
Manganese	0.31		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 08:26	1
Nickel	0.011	J	0.025	0.010	mg/L		08/08/19 14:42	08/10/19 08:26	1
Potassium	3.2		2.5	0.50	mg/L		08/08/19 14:42	08/10/19 08:26	1
Selenium	<0.020		0.050	0.020	mg/L		08/08/19 14:42	08/10/19 08:26	1
Silver	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 08:26	1
Vanadium	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 08:26	1
Zinc	0.083	J	0.50	0.020	mg/L		08/08/19 14:42	08/10/19 08:26	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.20		0.025	0.010	mg/L		08/08/19 14:40	08/09/19 23:18	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/08/19 14:42	08/09/19 15:02	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/08/19 14:42	08/09/19 15:02	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/09/19 10:05	08/09/19 16:40	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.017	0.0056	mg/Kg	☼	08/07/19 11:20	08/08/19 10:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.25		0.51	0.25	mg/Kg	☼	08/15/19 10:25	08/15/19 15:13	1
pH	8.5		0.2	0.2	SU			08/06/19 14:13	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B11 (0-4.5)

Lab Sample ID: 500-167784-16

Date Collected: 08/05/19 13:20

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 89.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0073	*	0.017	0.0073	mg/Kg	☼	08/05/19 15:50	08/07/19 18:04	1
Benzene	<0.00043		0.0017	0.00043	mg/Kg	☼	08/05/19 15:50	08/07/19 18:04	1
Bromodichloromethane	<0.00034		0.0017	0.00034	mg/Kg	☼	08/05/19 15:50	08/07/19 18:04	1
Bromoform	<0.00049		0.0017	0.00049	mg/Kg	☼	08/05/19 15:50	08/07/19 18:04	1
Bromomethane	<0.0016		0.0042	0.0016	mg/Kg	☼	08/05/19 15:50	08/07/19 18:04	1
2-Butanone (MEK)	<0.0019	*	0.0042	0.0019	mg/Kg	☼	08/05/19 15:50	08/07/19 18:04	1
Carbon disulfide	<0.00087		0.0042	0.00087	mg/Kg	☼	08/05/19 15:50	08/07/19 18:04	1
Carbon tetrachloride	<0.00049		0.0017	0.00049	mg/Kg	☼	08/05/19 15:50	08/07/19 18:04	1
Chlorobenzene	<0.00062		0.0017	0.00062	mg/Kg	☼	08/05/19 15:50	08/07/19 18:04	1
Chloroethane	<0.0012	*	0.0042	0.0012	mg/Kg	☼	08/05/19 15:50	08/07/19 18:04	1
Chloroform	<0.00058		0.0017	0.00058	mg/Kg	☼	08/05/19 15:50	08/07/19 18:04	1
Chloromethane	<0.0017		0.0042	0.0017	mg/Kg	☼	08/05/19 15:50	08/07/19 18:04	1
cis-1,2-Dichloroethene	<0.00047		0.0017	0.00047	mg/Kg	☼	08/05/19 15:50	08/07/19 18:04	1
cis-1,3-Dichloropropene	<0.00050		0.0017	0.00050	mg/Kg	☼	08/05/19 15:50	08/07/19 18:04	1
Dibromochloromethane	<0.00055		0.0017	0.00055	mg/Kg	☼	08/05/19 15:50	08/07/19 18:04	1
1,1-Dichloroethane	<0.00057		0.0017	0.00057	mg/Kg	☼	08/05/19 15:50	08/07/19 18:04	1
1,2-Dichloroethane	<0.0013		0.0042	0.0013	mg/Kg	☼	08/05/19 15:50	08/07/19 18:04	1
1,1-Dichloroethene	<0.00058		0.0017	0.00058	mg/Kg	☼	08/05/19 15:50	08/07/19 18:04	1
1,2-Dichloropropane	<0.00043		0.0017	0.00043	mg/Kg	☼	08/05/19 15:50	08/07/19 18:04	1
1,3-Dichloropropane, Total	<0.00059		0.0017	0.00059	mg/Kg	☼	08/05/19 15:50	08/07/19 18:04	1
Ethylbenzene	<0.00080		0.0017	0.00080	mg/Kg	☼	08/05/19 15:50	08/07/19 18:04	1
2-Hexanone	<0.0013		0.0042	0.0013	mg/Kg	☼	08/05/19 15:50	08/07/19 18:04	1
Methylene Chloride	<0.0016		0.0042	0.0016	mg/Kg	☼	08/05/19 15:50	08/07/19 18:04	1
4-Methyl-2-pentanone (MIBK)	<0.0012		0.0042	0.0012	mg/Kg	☼	08/05/19 15:50	08/07/19 18:04	1
Methyl tert-butyl ether	<0.00049		0.0017	0.00049	mg/Kg	☼	08/05/19 15:50	08/07/19 18:04	1
Styrene	<0.00051		0.0017	0.00051	mg/Kg	☼	08/05/19 15:50	08/07/19 18:04	1
1,1,2,2-Tetrachloroethane	<0.00053		0.0017	0.00053	mg/Kg	☼	08/05/19 15:50	08/07/19 18:04	1
Tetrachloroethene	<0.00057		0.0017	0.00057	mg/Kg	☼	08/05/19 15:50	08/07/19 18:04	1
Toluene	<0.00042		0.0017	0.00042	mg/Kg	☼	08/05/19 15:50	08/07/19 18:04	1
trans-1,2-Dichloroethene	<0.00074		0.0017	0.00074	mg/Kg	☼	08/05/19 15:50	08/07/19 18:04	1
trans-1,3-Dichloropropene	<0.00059		0.0017	0.00059	mg/Kg	☼	08/05/19 15:50	08/07/19 18:04	1
1,1,1-Trichloroethane	<0.00056		0.0017	0.00056	mg/Kg	☼	08/05/19 15:50	08/07/19 18:04	1
1,1,2-Trichloroethane	<0.00072		0.0017	0.00072	mg/Kg	☼	08/05/19 15:50	08/07/19 18:04	1
Trichloroethene	<0.00057		0.0017	0.00057	mg/Kg	☼	08/05/19 15:50	08/07/19 18:04	1
Vinyl acetate	<0.0015		0.0042	0.0015	mg/Kg	☼	08/05/19 15:50	08/07/19 18:04	1
Vinyl chloride	<0.00074		0.0017	0.00074	mg/Kg	☼	08/05/19 15:50	08/07/19 18:04	1
Xylenes, Total	<0.00054		0.0033	0.00054	mg/Kg	☼	08/05/19 15:50	08/07/19 18:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		75 - 131	08/05/19 15:50	08/07/19 18:04	1
Dibromofluoromethane	99		75 - 126	08/05/19 15:50	08/07/19 18:04	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	08/05/19 15:50	08/07/19 18:04	1
Toluene-d8 (Surr)	92		75 - 124	08/05/19 15:50	08/07/19 18:04	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.019	J	0.036	0.0066	mg/Kg	☼	08/07/19 07:34	08/08/19 21:47	1
Acenaphthylene	0.039		0.036	0.0048	mg/Kg	☼	08/07/19 07:34	08/08/19 21:47	1
Anthracene	0.19		0.036	0.0061	mg/Kg	☼	08/07/19 07:34	08/08/19 21:47	1
Benzo[a]anthracene	0.33		0.036	0.0049	mg/Kg	☼	08/07/19 07:34	08/08/19 21:47	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B11 (0-4.5)

Lab Sample ID: 500-167784-16

Date Collected: 08/05/19 13:20

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 89.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.42		0.036	0.0071	mg/Kg	☼	08/07/19 07:34	08/08/19 21:47	1
Benzo[b]fluoranthene	0.65		0.036	0.0079	mg/Kg	☼	08/07/19 07:34	08/08/19 21:47	1
Benzo[g,h,i]perylene	0.18		0.036	0.012	mg/Kg	☼	08/07/19 07:34	08/08/19 21:47	1
Benzo[k]fluoranthene	0.17		0.036	0.011	mg/Kg	☼	08/07/19 07:34	08/08/19 21:47	1
Bis(2-chloroethoxy)methane	<0.037		0.18	0.037	mg/Kg	☼	08/07/19 07:34	08/08/19 21:47	1
Bis(2-chloroethyl)ether	<0.055		0.18	0.055	mg/Kg	☼	08/07/19 07:34	08/08/19 21:47	1
Bis(2-ethylhexyl) phthalate	0.19		0.18	0.067	mg/Kg	☼	08/07/19 07:34	08/08/19 21:47	1
4-Bromophenyl phenyl ether	<0.048		0.18	0.048	mg/Kg	☼	08/07/19 07:34	08/08/19 21:47	1
Butyl benzyl phthalate	<0.070		0.18	0.070	mg/Kg	☼	08/07/19 07:34	08/08/19 21:47	1
Carbazole	0.097	J	0.18	0.091	mg/Kg	☼	08/07/19 07:34	08/08/19 21:47	1
4-Chloroaniline	<0.17		0.74	0.17	mg/Kg	☼	08/07/19 07:34	08/08/19 21:47	1
4-Chloro-3-methylphenol	<0.12		0.36	0.12	mg/Kg	☼	08/07/19 07:34	08/08/19 21:47	1
2-Chloronaphthalene	<0.040		0.18	0.040	mg/Kg	☼	08/07/19 07:34	08/08/19 21:47	1
2-Chlorophenol	<0.062		0.18	0.062	mg/Kg	☼	08/07/19 07:34	08/08/19 21:47	1
4-Chlorophenyl phenyl ether	<0.043		0.18	0.043	mg/Kg	☼	08/07/19 07:34	08/08/19 21:47	1
Chrysene	0.41		0.036	0.010	mg/Kg	☼	08/07/19 07:34	08/08/19 21:47	1
Dibenz(a,h)anthracene	0.047		0.036	0.0071	mg/Kg	☼	08/07/19 07:34	08/08/19 21:47	1
Dibenzofuran	<0.043		0.18	0.043	mg/Kg	☼	08/07/19 07:34	08/08/19 21:47	1
1,2-Dichlorobenzene	<0.044		0.18	0.044	mg/Kg	☼	08/07/19 07:34	08/08/19 21:47	1
1,3-Dichlorobenzene	<0.041		0.18	0.041	mg/Kg	☼	08/07/19 07:34	08/08/19 21:47	1
1,4-Dichlorobenzene	<0.047		0.18	0.047	mg/Kg	☼	08/07/19 07:34	08/08/19 21:47	1
3,3'-Dichlorobenzidine	<0.051		0.18	0.051	mg/Kg	☼	08/07/19 07:34	08/08/19 21:47	1
2,4-Dichlorophenol	<0.087		0.36	0.087	mg/Kg	☼	08/07/19 07:34	08/08/19 21:47	1
Diethyl phthalate	<0.062		0.18	0.062	mg/Kg	☼	08/07/19 07:34	08/08/19 21:47	1
2,4-Dimethylphenol	<0.14		0.36	0.14	mg/Kg	☼	08/07/19 07:34	08/08/19 21:47	1
Dimethyl phthalate	<0.048		0.18	0.048	mg/Kg	☼	08/07/19 07:34	08/08/19 21:47	1
Di-n-butyl phthalate	<0.056		0.18	0.056	mg/Kg	☼	08/07/19 07:34	08/08/19 21:47	1
4,6-Dinitro-2-methylphenol	<0.29		0.74	0.29	mg/Kg	☼	08/07/19 07:34	08/08/19 21:47	1
2,4-Dinitrophenol	<0.64		0.74	0.64	mg/Kg	☼	08/07/19 07:34	08/08/19 21:47	1
2,4-Dinitrotoluene	<0.058		0.18	0.058	mg/Kg	☼	08/07/19 07:34	08/08/19 21:47	1
2,6-Dinitrotoluene	<0.072		0.18	0.072	mg/Kg	☼	08/07/19 07:34	08/08/19 21:47	1
Di-n-octyl phthalate	<0.060		0.18	0.060	mg/Kg	☼	08/07/19 07:34	08/08/19 21:47	1
Fluoranthene	0.52		0.036	0.0068	mg/Kg	☼	08/07/19 07:34	08/08/19 21:47	1
Fluorene	0.025	J	0.036	0.0051	mg/Kg	☼	08/07/19 07:34	08/08/19 21:47	1
Hexachlorobenzene	<0.0085		0.074	0.0085	mg/Kg	☼	08/07/19 07:34	08/08/19 21:47	1
Hexachlorobutadiene	<0.057		0.18	0.057	mg/Kg	☼	08/07/19 07:34	08/08/19 21:47	1
Hexachlorocyclopentadiene	<0.21		0.74	0.21	mg/Kg	☼	08/07/19 07:34	08/08/19 21:47	1
Hexachloroethane	<0.056		0.18	0.056	mg/Kg	☼	08/07/19 07:34	08/08/19 21:47	1
Indeno[1,2,3-cd]pyrene	0.16		0.036	0.0095	mg/Kg	☼	08/07/19 07:34	08/08/19 21:47	1
Isophorone	<0.041		0.18	0.041	mg/Kg	☼	08/07/19 07:34	08/08/19 21:47	1
2-Methylnaphthalene	0.033	J	0.074	0.0067	mg/Kg	☼	08/07/19 07:34	08/08/19 21:47	1
2-Methylphenol	<0.059		0.18	0.059	mg/Kg	☼	08/07/19 07:34	08/08/19 21:47	1
3 & 4 Methylphenol	<0.061		0.18	0.061	mg/Kg	☼	08/07/19 07:34	08/08/19 21:47	1
Naphthalene	0.028	J	0.036	0.0056	mg/Kg	☼	08/07/19 07:34	08/08/19 21:47	1
2-Nitroaniline	<0.049		0.18	0.049	mg/Kg	☼	08/07/19 07:34	08/08/19 21:47	1
3-Nitroaniline	<0.11		0.36	0.11	mg/Kg	☼	08/07/19 07:34	08/08/19 21:47	1
4-Nitroaniline	<0.15		0.36	0.15	mg/Kg	☼	08/07/19 07:34	08/08/19 21:47	1
Nitrobenzene	<0.0091		0.036	0.0091	mg/Kg	☼	08/07/19 07:34	08/08/19 21:47	1
2-Nitrophenol	<0.086		0.36	0.086	mg/Kg	☼	08/07/19 07:34	08/08/19 21:47	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B11 (0-4.5)

Lab Sample ID: 500-167784-16

Date Collected: 08/05/19 13:20

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 89.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.35		0.74	0.35	mg/Kg	☼	08/07/19 07:34	08/08/19 21:47	1
N-Nitrosodi-n-propylamine	<0.045		0.074	0.045	mg/Kg	☼	08/07/19 07:34	08/08/19 21:47	1
N-Nitrosodiphenylamine	<0.043		0.18	0.043	mg/Kg	☼	08/07/19 07:34	08/08/19 21:47	1
2,2'-oxybis[1-chloropropane]	<0.042		0.18	0.042	mg/Kg	☼	08/07/19 07:34	08/08/19 21:47	1
Pentachlorophenol	<0.59		0.74	0.59	mg/Kg	☼	08/07/19 07:34	08/08/19 21:47	1
Phenanthrene	0.32		0.036	0.0051	mg/Kg	☼	08/07/19 07:34	08/08/19 21:47	1
Phenol	<0.081		0.18	0.081	mg/Kg	☼	08/07/19 07:34	08/08/19 21:47	1
Pyrene	0.72		0.036	0.0073	mg/Kg	☼	08/07/19 07:34	08/08/19 21:47	1
1,2,4-Trichlorobenzene	<0.039		0.18	0.039	mg/Kg	☼	08/07/19 07:34	08/08/19 21:47	1
2,4,5-Trichlorophenol	<0.083		0.36	0.083	mg/Kg	☼	08/07/19 07:34	08/08/19 21:47	1
2,4,6-Trichlorophenol	<0.13		0.36	0.13	mg/Kg	☼	08/07/19 07:34	08/08/19 21:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	98		43 - 145				08/07/19 07:34	08/08/19 21:47	1
2-Fluorophenol	93		31 - 166				08/07/19 07:34	08/08/19 21:47	1
Nitrobenzene-d5	78		37 - 147				08/07/19 07:34	08/08/19 21:47	1
Phenol-d5	79		30 - 153				08/07/19 07:34	08/08/19 21:47	1
Terphenyl-d14	143		42 - 157				08/07/19 07:34	08/08/19 21:47	1
2,4,6-Tribromophenol	125		31 - 143				08/07/19 07:34	08/08/19 21:47	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.63	J	1.1	0.21	mg/Kg	☼	08/07/19 07:49	08/08/19 02:03	1
Arsenic	6.0		0.55	0.19	mg/Kg	☼	08/07/19 07:49	08/08/19 02:03	1
Barium	93		0.55	0.062	mg/Kg	☼	08/07/19 07:49	08/08/19 02:03	1
Beryllium	0.77		0.22	0.051	mg/Kg	☼	08/07/19 07:49	08/08/19 02:03	1
Cadmium	0.72	B	0.11	0.020	mg/Kg	☼	08/07/19 07:49	08/08/19 02:03	1
Chromium	13		0.55	0.27	mg/Kg	☼	08/07/19 07:49	08/08/19 02:03	1
Cobalt	6.6		0.27	0.071	mg/Kg	☼	08/07/19 07:49	08/08/19 02:03	1
Copper	36		0.55	0.15	mg/Kg	☼	08/07/19 07:49	08/08/19 02:03	1
Iron	27000		11	5.7	mg/Kg	☼	08/07/19 07:49	08/08/19 02:03	1
Lead	120		0.27	0.13	mg/Kg	☼	08/07/19 07:49	08/08/19 02:03	1
Magnesium	48000	B	27	14	mg/Kg	☼	08/07/19 07:49	08/08/19 13:15	5
Calcium	88000	B	55	9.2	mg/Kg	☼	08/07/19 07:49	08/08/19 21:23	5
Manganese	320		0.55	0.079	mg/Kg	☼	08/07/19 07:49	08/08/19 02:03	1
Nickel	21		0.55	0.16	mg/Kg	☼	08/07/19 07:49	08/08/19 02:03	1
Selenium	0.70		0.55	0.32	mg/Kg	☼	08/07/19 07:49	08/08/19 02:03	1
Silver	1.7		0.27	0.070	mg/Kg	☼	08/07/19 07:49	08/08/19 02:03	1
Thallium	0.52	J	0.55	0.27	mg/Kg	☼	08/07/19 07:49	08/08/19 02:03	1
Vanadium	17		0.27	0.064	mg/Kg	☼	08/07/19 07:49	08/08/19 02:03	1
Zinc	140		1.1	0.48	mg/Kg	☼	08/07/19 07:49	08/08/19 02:03	1
Potassium	1200		27	9.6	mg/Kg	☼	08/07/19 07:49	08/08/19 13:03	1
Sodium	350		55	8.1	mg/Kg	☼	08/07/19 07:49	08/08/19 02:03	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/08/19 14:42	08/10/19 08:42	1
Barium	0.43	J	0.50	0.050	mg/L		08/08/19 14:42	08/10/19 08:42	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/08/19 14:42	08/10/19 08:42	1
Cadmium	0.0033	J	0.0050	0.0020	mg/L		08/08/19 14:42	08/10/19 08:42	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B11 (0-4.5)

Lab Sample ID: 500-167784-16

Date Collected: 08/05/19 13:20

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 89.1

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	280		5.0	0.50	mg/L		08/08/19 14:42	08/10/19 08:42	1
Chromium	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 08:42	1
Cobalt	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 08:42	1
Copper	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 08:42	1
Iron	<0.20		0.40	0.20	mg/L		08/08/19 14:42	08/10/19 08:42	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/08/19 14:42	08/10/19 08:42	1
Magnesium	98		2.5	0.50	mg/L		08/08/19 14:42	08/10/19 08:42	1
Manganese	0.10		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 08:42	1
Nickel	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 08:42	1
Potassium	2.3 J		2.5	0.50	mg/L		08/08/19 14:42	08/10/19 08:42	1
Selenium	<0.020		0.050	0.020	mg/L		08/08/19 14:42	08/10/19 08:42	1
Silver	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 08:42	1
Vanadium	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 08:42	1
Zinc	0.26 J		0.50	0.020	mg/L		08/08/19 14:42	08/10/19 08:42	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/08/19 14:42	08/09/19 15:17	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/08/19 14:42	08/09/19 15:17	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/09/19 10:05	08/09/19 16:42	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11		0.018	0.0059	mg/Kg	☼	08/07/19 11:20	08/08/19 10:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.25		0.51	0.25	mg/Kg	☼	08/15/19 10:25	08/15/19 15:14	1
pH	8.5		0.2	0.2	SU			08/06/19 14:17	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
F3	Duplicate RPD exceeds the control limit
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

GC/MS VOA

Analysis Batch: 498475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-167784-1	2815V-1-B05 (0-5)	Total/NA	Solid	8260B	498524
500-167784-2	2815V-1-B05 (0-5) Dup	Total/NA	Solid	8260B	498524
500-167784-3	2815V-1-B05 (5-7)	Total/NA	Solid	8260B	498524
500-167784-5	2815V-1-B06 (5-10)	Total/NA	Solid	8260B	498524
500-167784-6	2815V-1-B06 (10-13.5)	Total/NA	Solid	8260B	498524
500-167784-7	2815V-1-B07 (0-5)	Total/NA	Solid	8260B	498524
500-167784-8	2815V-1-B07 (5-10)	Total/NA	Solid	8260B	498524
500-167784-9	2815V-1-B07 (10-13.5)	Total/NA	Solid	8260B	498524
500-167784-10	2815V-1-B08 (0-5)	Total/NA	Solid	8260B	498524
500-167784-11	2815V-1-B08 (5-10)	Total/NA	Solid	8260B	498524
500-167784-12	2815V-1-B09 (0-5)	Total/NA	Solid	8260B	498524
500-167784-14	2815V-1-B09 (5-7)	Total/NA	Solid	8260B	498524
500-167784-15	2815V-1-B10 (0-4)	Total/NA	Solid	8260B	498524
500-167784-16	2815V-1-B11 (0-4.5)	Total/NA	Solid	8260B	498524
MB 500-498475/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-498475/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-498475/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

Prep Batch: 498524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-167784-1	2815V-1-B05 (0-5)	Total/NA	Solid	5035	
500-167784-2	2815V-1-B05 (0-5) Dup	Total/NA	Solid	5035	
500-167784-3	2815V-1-B05 (5-7)	Total/NA	Solid	5035	
500-167784-4	2815V-1-B06 (0-5)	Total/NA	Solid	5035	
500-167784-5	2815V-1-B06 (5-10)	Total/NA	Solid	5035	
500-167784-6	2815V-1-B06 (10-13.5)	Total/NA	Solid	5035	
500-167784-7	2815V-1-B07 (0-5)	Total/NA	Solid	5035	
500-167784-8	2815V-1-B07 (5-10)	Total/NA	Solid	5035	
500-167784-9	2815V-1-B07 (10-13.5)	Total/NA	Solid	5035	
500-167784-10	2815V-1-B08 (0-5)	Total/NA	Solid	5035	
500-167784-11	2815V-1-B08 (5-10)	Total/NA	Solid	5035	
500-167784-12	2815V-1-B09 (0-5)	Total/NA	Solid	5035	
500-167784-13	2815V-1-B09 (0-5) Dup	Total/NA	Solid	5035	
500-167784-14	2815V-1-B09 (5-7)	Total/NA	Solid	5035	
500-167784-15	2815V-1-B10 (0-4)	Total/NA	Solid	5035	
500-167784-16	2815V-1-B11 (0-4.5)	Total/NA	Solid	5035	

Analysis Batch: 498662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-167784-4	2815V-1-B06 (0-5)	Total/NA	Solid	8260B	498524
500-167784-13	2815V-1-B09 (0-5) Dup	Total/NA	Solid	8260B	498524
MB 500-498662/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-498662/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-498662/37	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 498485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-167784-1	2815V-1-B05 (0-5)	Total/NA	Solid	3541	
500-167784-2	2815V-1-B05 (0-5) Dup	Total/NA	Solid	3541	

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

GC/MS Semi VOA (Continued)

Prep Batch: 498485 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-167784-4	2815V-1-B06 (0-5)	Total/NA	Solid	3541	
500-167784-5	2815V-1-B06 (5-10)	Total/NA	Solid	3541	
500-167784-6	2815V-1-B06 (10-13.5)	Total/NA	Solid	3541	
500-167784-7	2815V-1-B07 (0-5)	Total/NA	Solid	3541	
500-167784-8	2815V-1-B07 (5-10)	Total/NA	Solid	3541	
500-167784-9	2815V-1-B07 (10-13.5)	Total/NA	Solid	3541	
500-167784-10 - DL	2815V-1-B08 (0-5)	Total/NA	Solid	3541	
500-167784-10	2815V-1-B08 (0-5)	Total/NA	Solid	3541	
500-167784-11	2815V-1-B08 (5-10)	Total/NA	Solid	3541	
500-167784-12	2815V-1-B09 (0-5)	Total/NA	Solid	3541	
500-167784-13	2815V-1-B09 (0-5) Dup	Total/NA	Solid	3541	
500-167784-14	2815V-1-B09 (5-7)	Total/NA	Solid	3541	
500-167784-15	2815V-1-B10 (0-4)	Total/NA	Solid	3541	
500-167784-16	2815V-1-B11 (0-4.5)	Total/NA	Solid	3541	
MB 500-498485/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-498485/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-167784-1 MS	2815V-1-B05 (0-5)	Total/NA	Solid	3541	
500-167784-1 MSD	2815V-1-B05 (0-5)	Total/NA	Solid	3541	

Analysis Batch: 498806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-167784-1	2815V-1-B05 (0-5)	Total/NA	Solid	8270D	498485
500-167784-4	2815V-1-B06 (0-5)	Total/NA	Solid	8270D	498485
500-167784-5	2815V-1-B06 (5-10)	Total/NA	Solid	8270D	498485
500-167784-6	2815V-1-B06 (10-13.5)	Total/NA	Solid	8270D	498485
500-167784-7	2815V-1-B07 (0-5)	Total/NA	Solid	8270D	498485
500-167784-8	2815V-1-B07 (5-10)	Total/NA	Solid	8270D	498485
500-167784-9	2815V-1-B07 (10-13.5)	Total/NA	Solid	8270D	498485
500-167784-10	2815V-1-B08 (0-5)	Total/NA	Solid	8270D	498485
500-167784-11	2815V-1-B08 (5-10)	Total/NA	Solid	8270D	498485
500-167784-14	2815V-1-B09 (5-7)	Total/NA	Solid	8270D	498485
500-167784-15	2815V-1-B10 (0-4)	Total/NA	Solid	8270D	498485
500-167784-16	2815V-1-B11 (0-4.5)	Total/NA	Solid	8270D	498485
MB 500-498485/1-A	Method Blank	Total/NA	Solid	8270D	498485
500-167784-1 MS	2815V-1-B05 (0-5)	Total/NA	Solid	8270D	498485
500-167784-1 MSD	2815V-1-B05 (0-5)	Total/NA	Solid	8270D	498485

Analysis Batch: 498974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-498485/2-A	Lab Control Sample	Total/NA	Solid	8270D	498485

Analysis Batch: 499259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-167784-2	2815V-1-B05 (0-5) Dup	Total/NA	Solid	8270D	498485
500-167784-12	2815V-1-B09 (0-5)	Total/NA	Solid	8270D	498485
500-167784-13	2815V-1-B09 (0-5) Dup	Total/NA	Solid	8270D	498485

Analysis Batch: 499358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-167784-10 - DL	2815V-1-B08 (0-5)	Total/NA	Solid	8270D	498485

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

GC/MS Semi VOA

Prep Batch: 499527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-167784-3	2815V-1-B05 (5-7)	Total/NA	Solid	3541	
MB 500-499527/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-499527/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 499586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-167784-3	2815V-1-B05 (5-7)	Total/NA	Solid	8270D	499527
MB 500-499527/1-A	Method Blank	Total/NA	Solid	8270D	499527
LCS 500-499527/2-A	Lab Control Sample	Total/NA	Solid	8270D	499527

Metals

Prep Batch: 498493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-167784-1	2815V-1-B05 (0-5)	Total/NA	Solid	3050B	
500-167784-2	2815V-1-B05 (0-5) Dup	Total/NA	Solid	3050B	
500-167784-3	2815V-1-B05 (5-7)	Total/NA	Solid	3050B	
500-167784-4	2815V-1-B06 (0-5)	Total/NA	Solid	3050B	
500-167784-5	2815V-1-B06 (5-10)	Total/NA	Solid	3050B	
500-167784-6	2815V-1-B06 (10-13.5)	Total/NA	Solid	3050B	
500-167784-7	2815V-1-B07 (0-5)	Total/NA	Solid	3050B	
500-167784-8	2815V-1-B07 (5-10)	Total/NA	Solid	3050B	
500-167784-9	2815V-1-B07 (10-13.5)	Total/NA	Solid	3050B	
500-167784-10	2815V-1-B08 (0-5)	Total/NA	Solid	3050B	
500-167784-11	2815V-1-B08 (5-10)	Total/NA	Solid	3050B	
500-167784-12	2815V-1-B09 (0-5)	Total/NA	Solid	3050B	
500-167784-13	2815V-1-B09 (0-5) Dup	Total/NA	Solid	3050B	
500-167784-14	2815V-1-B09 (5-7)	Total/NA	Solid	3050B	
500-167784-15	2815V-1-B10 (0-4)	Total/NA	Solid	3050B	
500-167784-16	2815V-1-B11 (0-4.5)	Total/NA	Solid	3050B	
MB 500-498493/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-498493/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-167784-1 MS	2815V-1-B05 (0-5)	Total/NA	Solid	3050B	
500-167784-1 MSD	2815V-1-B05 (0-5)	Total/NA	Solid	3050B	
500-167784-1 DU	2815V-1-B05 (0-5)	Total/NA	Solid	3050B	

Prep Batch: 498513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-167784-1	2815V-1-B05 (0-5)	Total/NA	Solid	7471B	
500-167784-2	2815V-1-B05 (0-5) Dup	Total/NA	Solid	7471B	
500-167784-3	2815V-1-B05 (5-7)	Total/NA	Solid	7471B	
500-167784-4	2815V-1-B06 (0-5)	Total/NA	Solid	7471B	
500-167784-5	2815V-1-B06 (5-10)	Total/NA	Solid	7471B	
500-167784-6	2815V-1-B06 (10-13.5)	Total/NA	Solid	7471B	
MB 500-498513/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-498513/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Prep Batch: 498521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-167784-7	2815V-1-B07 (0-5)	Total/NA	Solid	7471B	
500-167784-8	2815V-1-B07 (5-10)	Total/NA	Solid	7471B	

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Metals (Continued)

Prep Batch: 498521 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-167784-9	2815V-1-B07 (10-13.5)	Total/NA	Solid	7471B	
500-167784-10	2815V-1-B08 (0-5)	Total/NA	Solid	7471B	
500-167784-11	2815V-1-B08 (5-10)	Total/NA	Solid	7471B	
500-167784-12	2815V-1-B09 (0-5)	Total/NA	Solid	7471B	
500-167784-13	2815V-1-B09 (0-5) Dup	Total/NA	Solid	7471B	
500-167784-14	2815V-1-B09 (5-7)	Total/NA	Solid	7471B	
500-167784-15	2815V-1-B10 (0-4)	Total/NA	Solid	7471B	
500-167784-16	2815V-1-B11 (0-4.5)	Total/NA	Solid	7471B	
MB 500-498521/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-498521/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Leach Batch: 498601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-167784-3	2815V-1-B05 (5-7)	SPLP East	Solid	1312	
500-167784-5	2815V-1-B06 (5-10)	SPLP East	Solid	1312	
500-167784-11	2815V-1-B08 (5-10)	SPLP East	Solid	1312	
500-167784-12	2815V-1-B09 (0-5)	SPLP East	Solid	1312	
500-167784-13	2815V-1-B09 (0-5) Dup	SPLP East	Solid	1312	
500-167784-14	2815V-1-B09 (5-7)	SPLP East	Solid	1312	
500-167784-15	2815V-1-B10 (0-4)	SPLP East	Solid	1312	
LB 500-498601/1-B	Method Blank	SPLP East	Solid	1312	

Leach Batch: 498602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-167784-1	2815V-1-B05 (0-5)	TCLP	Solid	1311	
500-167784-2	2815V-1-B05 (0-5) Dup	TCLP	Solid	1311	
500-167784-3	2815V-1-B05 (5-7)	TCLP	Solid	1311	
500-167784-4	2815V-1-B06 (0-5)	TCLP	Solid	1311	
500-167784-5	2815V-1-B06 (5-10)	TCLP	Solid	1311	
500-167784-6	2815V-1-B06 (10-13.5)	TCLP	Solid	1311	
500-167784-7	2815V-1-B07 (0-5)	TCLP	Solid	1311	
500-167784-8	2815V-1-B07 (5-10)	TCLP	Solid	1311	
500-167784-9	2815V-1-B07 (10-13.5)	TCLP	Solid	1311	
500-167784-10	2815V-1-B08 (0-5)	TCLP	Solid	1311	
500-167784-11	2815V-1-B08 (5-10)	TCLP	Solid	1311	
500-167784-12	2815V-1-B09 (0-5)	TCLP	Solid	1311	
500-167784-13	2815V-1-B09 (0-5) Dup	TCLP	Solid	1311	
500-167784-14	2815V-1-B09 (5-7)	TCLP	Solid	1311	
500-167784-15	2815V-1-B10 (0-4)	TCLP	Solid	1311	
500-167784-16	2815V-1-B11 (0-4.5)	TCLP	Solid	1311	
LB 500-498602/1-B	Method Blank	TCLP	Solid	1311	
LB 500-498602/1-C	Method Blank	TCLP	Solid	1311	
500-167784-9 MS	2815V-1-B07 (10-13.5)	TCLP	Solid	1311	
500-167784-15 MS	2815V-1-B10 (0-4)	TCLP	Solid	1311	
500-167784-9 DU	2815V-1-B07 (10-13.5)	TCLP	Solid	1311	
500-167784-15 DU	2815V-1-B10 (0-4)	TCLP	Solid	1311	

Analysis Batch: 498664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-167784-1	2815V-1-B05 (0-5)	Total/NA	Solid	6010B	498493
500-167784-2	2815V-1-B05 (0-5) Dup	Total/NA	Solid	6010B	498493

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Metals (Continued)

Analysis Batch: 498664 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-167784-3	2815V-1-B05 (5-7)	Total/NA	Solid	6010B	498493
500-167784-4	2815V-1-B06 (0-5)	Total/NA	Solid	6010B	498493
500-167784-5	2815V-1-B06 (5-10)	Total/NA	Solid	6010B	498493
500-167784-6	2815V-1-B06 (10-13.5)	Total/NA	Solid	6010B	498493
500-167784-7	2815V-1-B07 (0-5)	Total/NA	Solid	6010B	498493
500-167784-8	2815V-1-B07 (5-10)	Total/NA	Solid	6010B	498493
500-167784-9	2815V-1-B07 (10-13.5)	Total/NA	Solid	6010B	498493
500-167784-10	2815V-1-B08 (0-5)	Total/NA	Solid	6010B	498493
500-167784-11	2815V-1-B08 (5-10)	Total/NA	Solid	6010B	498493
500-167784-12	2815V-1-B09 (0-5)	Total/NA	Solid	6010B	498493
500-167784-13	2815V-1-B09 (0-5) Dup	Total/NA	Solid	6010B	498493
500-167784-14	2815V-1-B09 (5-7)	Total/NA	Solid	6010B	498493
500-167784-15	2815V-1-B10 (0-4)	Total/NA	Solid	6010B	498493
500-167784-16	2815V-1-B11 (0-4.5)	Total/NA	Solid	6010B	498493
MB 500-498493/1-A	Method Blank	Total/NA	Solid	6010B	498493
LCS 500-498493/2-A	Lab Control Sample	Total/NA	Solid	6010B	498493
500-167784-1 MS	2815V-1-B05 (0-5)	Total/NA	Solid	6010B	498493
500-167784-1 MSD	2815V-1-B05 (0-5)	Total/NA	Solid	6010B	498493
500-167784-1 DU	2815V-1-B05 (0-5)	Total/NA	Solid	6010B	498493

Analysis Batch: 498761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-167784-1	2815V-1-B05 (0-5)	Total/NA	Solid	7471B	498513
500-167784-2	2815V-1-B05 (0-5) Dup	Total/NA	Solid	7471B	498513
500-167784-3	2815V-1-B05 (5-7)	Total/NA	Solid	7471B	498513
500-167784-4	2815V-1-B06 (0-5)	Total/NA	Solid	7471B	498513
500-167784-5	2815V-1-B06 (5-10)	Total/NA	Solid	7471B	498513
500-167784-6	2815V-1-B06 (10-13.5)	Total/NA	Solid	7471B	498513
500-167784-7	2815V-1-B07 (0-5)	Total/NA	Solid	7471B	498521
500-167784-8	2815V-1-B07 (5-10)	Total/NA	Solid	7471B	498521
500-167784-9	2815V-1-B07 (10-13.5)	Total/NA	Solid	7471B	498521
500-167784-10	2815V-1-B08 (0-5)	Total/NA	Solid	7471B	498521
500-167784-11	2815V-1-B08 (5-10)	Total/NA	Solid	7471B	498521
500-167784-12	2815V-1-B09 (0-5)	Total/NA	Solid	7471B	498521
500-167784-13	2815V-1-B09 (0-5) Dup	Total/NA	Solid	7471B	498521
500-167784-14	2815V-1-B09 (5-7)	Total/NA	Solid	7471B	498521
500-167784-15	2815V-1-B10 (0-4)	Total/NA	Solid	7471B	498521
500-167784-16	2815V-1-B11 (0-4.5)	Total/NA	Solid	7471B	498521
MB 500-498513/12-A	Method Blank	Total/NA	Solid	7471B	498513
MB 500-498521/12-A	Method Blank	Total/NA	Solid	7471B	498521
LCS 500-498513/13-A	Lab Control Sample	Total/NA	Solid	7471B	498513
LCS 500-498521/13-A	Lab Control Sample	Total/NA	Solid	7471B	498521

Analysis Batch: 498805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-167784-1	2815V-1-B05 (0-5)	Total/NA	Solid	6010B	498493
500-167784-2	2815V-1-B05 (0-5) Dup	Total/NA	Solid	6010B	498493
500-167784-3	2815V-1-B05 (5-7)	Total/NA	Solid	6010B	498493
500-167784-4	2815V-1-B06 (0-5)	Total/NA	Solid	6010B	498493
500-167784-5	2815V-1-B06 (5-10)	Total/NA	Solid	6010B	498493
500-167784-6	2815V-1-B06 (10-13.5)	Total/NA	Solid	6010B	498493

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Metals (Continued)

Analysis Batch: 498805 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-167784-7	2815V-1-B07 (0-5)	Total/NA	Solid	6010B	498493
500-167784-8	2815V-1-B07 (5-10)	Total/NA	Solid	6010B	498493
500-167784-9	2815V-1-B07 (10-13.5)	Total/NA	Solid	6010B	498493
500-167784-9	2815V-1-B07 (10-13.5)	Total/NA	Solid	6010B	498493
500-167784-10	2815V-1-B08 (0-5)	Total/NA	Solid	6010B	498493
500-167784-10	2815V-1-B08 (0-5)	Total/NA	Solid	6010B	498493
500-167784-11	2815V-1-B08 (5-10)	Total/NA	Solid	6010B	498493
500-167784-11	2815V-1-B08 (5-10)	Total/NA	Solid	6010B	498493
500-167784-12	2815V-1-B09 (0-5)	Total/NA	Solid	6010B	498493
500-167784-12	2815V-1-B09 (0-5)	Total/NA	Solid	6010B	498493
500-167784-13	2815V-1-B09 (0-5) Dup	Total/NA	Solid	6010B	498493
500-167784-13	2815V-1-B09 (0-5) Dup	Total/NA	Solid	6010B	498493
500-167784-14	2815V-1-B09 (5-7)	Total/NA	Solid	6010B	498493
500-167784-14	2815V-1-B09 (5-7)	Total/NA	Solid	6010B	498493
500-167784-15	2815V-1-B10 (0-4)	Total/NA	Solid	6010B	498493
500-167784-15	2815V-1-B10 (0-4)	Total/NA	Solid	6010B	498493
500-167784-16	2815V-1-B11 (0-4.5)	Total/NA	Solid	6010B	498493
500-167784-16	2815V-1-B11 (0-4.5)	Total/NA	Solid	6010B	498493
500-167784-1 MS	2815V-1-B05 (0-5)	Total/NA	Solid	6010B	498493
500-167784-1 MSD	2815V-1-B05 (0-5)	Total/NA	Solid	6010B	498493
500-167784-1 DU	2815V-1-B05 (0-5)	Total/NA	Solid	6010B	498493

Prep Batch: 498825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-167784-3	2815V-1-B05 (5-7)	SPLP East	Solid	3010A	498601
500-167784-5	2815V-1-B06 (5-10)	SPLP East	Solid	3010A	498601
500-167784-11	2815V-1-B08 (5-10)	SPLP East	Solid	3010A	498601
500-167784-12	2815V-1-B09 (0-5)	SPLP East	Solid	3010A	498601
500-167784-13	2815V-1-B09 (0-5) Dup	SPLP East	Solid	3010A	498601
500-167784-14	2815V-1-B09 (5-7)	SPLP East	Solid	3010A	498601
500-167784-15	2815V-1-B10 (0-4)	SPLP East	Solid	3010A	498601
LB 500-498601/1-B	Method Blank	SPLP East	Solid	3010A	498601
LCS 500-498825/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 498827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-167784-1	2815V-1-B05 (0-5)	TCLP	Solid	3010A	498602
500-167784-2	2815V-1-B05 (0-5) Dup	TCLP	Solid	3010A	498602
500-167784-3	2815V-1-B05 (5-7)	TCLP	Solid	3010A	498602
500-167784-4	2815V-1-B06 (0-5)	TCLP	Solid	3010A	498602
500-167784-5	2815V-1-B06 (5-10)	TCLP	Solid	3010A	498602
500-167784-6	2815V-1-B06 (10-13.5)	TCLP	Solid	3010A	498602
500-167784-7	2815V-1-B07 (0-5)	TCLP	Solid	3010A	498602
500-167784-8	2815V-1-B07 (5-10)	TCLP	Solid	3010A	498602
500-167784-9	2815V-1-B07 (10-13.5)	TCLP	Solid	3010A	498602
500-167784-10	2815V-1-B08 (0-5)	TCLP	Solid	3010A	498602
500-167784-11	2815V-1-B08 (5-10)	TCLP	Solid	3010A	498602
500-167784-12	2815V-1-B09 (0-5)	TCLP	Solid	3010A	498602
500-167784-13	2815V-1-B09 (0-5) Dup	TCLP	Solid	3010A	498602
500-167784-14	2815V-1-B09 (5-7)	TCLP	Solid	3010A	498602
500-167784-15	2815V-1-B10 (0-4)	TCLP	Solid	3010A	498602

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
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Job ID: 500-167784-1

Metals (Continued)

Prep Batch: 498827 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-167784-16	2815V-1-B11 (0-4.5)	TCLP	Solid	3010A	498602
LB 500-498602/1-B	Method Blank	TCLP	Solid	3010A	498602
LCS 500-498827/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-167784-15 MS	2815V-1-B10 (0-4)	TCLP	Solid	3010A	498602
500-167784-15 DU	2815V-1-B10 (0-4)	TCLP	Solid	3010A	498602

Analysis Batch: 498893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-167784-3	2815V-1-B05 (5-7)	Total/NA	Solid	6010B	498493
500-167784-5	2815V-1-B06 (5-10)	Total/NA	Solid	6010B	498493
500-167784-12	2815V-1-B09 (0-5)	Total/NA	Solid	6010B	498493
500-167784-13	2815V-1-B09 (0-5) Dup	Total/NA	Solid	6010B	498493
500-167784-15	2815V-1-B10 (0-4)	Total/NA	Solid	6010B	498493
500-167784-16	2815V-1-B11 (0-4.5)	Total/NA	Solid	6010B	498493

Prep Batch: 498963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-167784-1	2815V-1-B05 (0-5)	TCLP	Solid	7470A	498602
500-167784-2	2815V-1-B05 (0-5) Dup	TCLP	Solid	7470A	498602
500-167784-3	2815V-1-B05 (5-7)	TCLP	Solid	7470A	498602
500-167784-4	2815V-1-B06 (0-5)	TCLP	Solid	7470A	498602
500-167784-5	2815V-1-B06 (5-10)	TCLP	Solid	7470A	498602
500-167784-6	2815V-1-B06 (10-13.5)	TCLP	Solid	7470A	498602
500-167784-7	2815V-1-B07 (0-5)	TCLP	Solid	7470A	498602
500-167784-8	2815V-1-B07 (5-10)	TCLP	Solid	7470A	498602
500-167784-9	2815V-1-B07 (10-13.5)	TCLP	Solid	7470A	498602
500-167784-10	2815V-1-B08 (0-5)	TCLP	Solid	7470A	498602
500-167784-11	2815V-1-B08 (5-10)	TCLP	Solid	7470A	498602
500-167784-12	2815V-1-B09 (0-5)	TCLP	Solid	7470A	498602
500-167784-13	2815V-1-B09 (0-5) Dup	TCLP	Solid	7470A	498602
500-167784-14	2815V-1-B09 (5-7)	TCLP	Solid	7470A	498602
500-167784-15	2815V-1-B10 (0-4)	TCLP	Solid	7470A	498602
500-167784-16	2815V-1-B11 (0-4.5)	TCLP	Solid	7470A	498602
LB 500-498602/1-C	Method Blank	TCLP	Solid	7470A	498602
MB 500-498963/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-498963/13-A	Lab Control Sample	Total/NA	Solid	7470A	
500-167784-9 MS	2815V-1-B07 (10-13.5)	TCLP	Solid	7470A	498602
500-167784-9 DU	2815V-1-B07 (10-13.5)	TCLP	Solid	7470A	498602

Analysis Batch: 499032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-167784-11	2815V-1-B08 (5-10)	Total/NA	Solid	6010B	498493
500-167784-14	2815V-1-B09 (5-7)	Total/NA	Solid	6010B	498493

Analysis Batch: 499072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-167784-1	2815V-1-B05 (0-5)	TCLP	Solid	7470A	498963
500-167784-2	2815V-1-B05 (0-5) Dup	TCLP	Solid	7470A	498963
500-167784-3	2815V-1-B05 (5-7)	TCLP	Solid	7470A	498963
500-167784-4	2815V-1-B06 (0-5)	TCLP	Solid	7470A	498963
500-167784-5	2815V-1-B06 (5-10)	TCLP	Solid	7470A	498963

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
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Job ID: 500-167784-1

Metals (Continued)

Analysis Batch: 499072 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-167784-6	2815V-1-B06 (10-13.5)	TCLP	Solid	7470A	498963
500-167784-7	2815V-1-B07 (0-5)	TCLP	Solid	7470A	498963
500-167784-8	2815V-1-B07 (5-10)	TCLP	Solid	7470A	498963
500-167784-9	2815V-1-B07 (10-13.5)	TCLP	Solid	7470A	498963
500-167784-10	2815V-1-B08 (0-5)	TCLP	Solid	7470A	498963
500-167784-11	2815V-1-B08 (5-10)	TCLP	Solid	7470A	498963
500-167784-12	2815V-1-B09 (0-5)	TCLP	Solid	7470A	498963
500-167784-13	2815V-1-B09 (0-5) Dup	TCLP	Solid	7470A	498963
500-167784-14	2815V-1-B09 (5-7)	TCLP	Solid	7470A	498963
500-167784-15	2815V-1-B10 (0-4)	TCLP	Solid	7470A	498963
500-167784-16	2815V-1-B11 (0-4.5)	TCLP	Solid	7470A	498963
LB 500-498602/1-C	Method Blank	TCLP	Solid	7470A	498963
MB 500-498963/12-A	Method Blank	Total/NA	Solid	7470A	498963
LCS 500-498963/13-A	Lab Control Sample	Total/NA	Solid	7470A	498963
500-167784-9 MS	2815V-1-B07 (10-13.5)	TCLP	Solid	7470A	498963
500-167784-9 DU	2815V-1-B07 (10-13.5)	TCLP	Solid	7470A	498963

Analysis Batch: 499129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-167784-3	2815V-1-B05 (5-7)	SPLP East	Solid	6010B	498825
500-167784-5	2815V-1-B06 (5-10)	SPLP East	Solid	6010B	498825
500-167784-11	2815V-1-B08 (5-10)	SPLP East	Solid	6010B	498825
500-167784-12	2815V-1-B09 (0-5)	SPLP East	Solid	6010B	498825
500-167784-13	2815V-1-B09 (0-5) Dup	SPLP East	Solid	6010B	498825
500-167784-14	2815V-1-B09 (5-7)	SPLP East	Solid	6010B	498825
500-167784-15	2815V-1-B10 (0-4)	SPLP East	Solid	6010B	498825
LB 500-498601/1-B	Method Blank	SPLP East	Solid	6010B	498825
LCS 500-498825/2-A	Lab Control Sample	Total/NA	Solid	6010B	498825

Analysis Batch: 499130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-167784-1	2815V-1-B05 (0-5)	TCLP	Solid	6010B	498827
500-167784-2	2815V-1-B05 (0-5) Dup	TCLP	Solid	6010B	498827
500-167784-3	2815V-1-B05 (5-7)	TCLP	Solid	6010B	498827
500-167784-4	2815V-1-B06 (0-5)	TCLP	Solid	6010B	498827
500-167784-5	2815V-1-B06 (5-10)	TCLP	Solid	6010B	498827
500-167784-6	2815V-1-B06 (10-13.5)	TCLP	Solid	6010B	498827
500-167784-7	2815V-1-B07 (0-5)	TCLP	Solid	6010B	498827
500-167784-8	2815V-1-B07 (5-10)	TCLP	Solid	6010B	498827
500-167784-9	2815V-1-B07 (10-13.5)	TCLP	Solid	6010B	498827
500-167784-10	2815V-1-B08 (0-5)	TCLP	Solid	6010B	498827
500-167784-11	2815V-1-B08 (5-10)	TCLP	Solid	6010B	498827
500-167784-12	2815V-1-B09 (0-5)	TCLP	Solid	6010B	498827
500-167784-13	2815V-1-B09 (0-5) Dup	TCLP	Solid	6010B	498827
500-167784-14	2815V-1-B09 (5-7)	TCLP	Solid	6010B	498827
500-167784-15	2815V-1-B10 (0-4)	TCLP	Solid	6010B	498827
500-167784-16	2815V-1-B11 (0-4.5)	TCLP	Solid	6010B	498827
LB 500-498602/1-B	Method Blank	TCLP	Solid	6010B	498827
LCS 500-498827/2-A	Lab Control Sample	Total/NA	Solid	6010B	498827
500-167784-15 MS	2815V-1-B10 (0-4)	TCLP	Solid	6010B	498827
500-167784-15 DU	2815V-1-B10 (0-4)	TCLP	Solid	6010B	498827

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Metals

Analysis Batch: 499204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-167784-1	2815V-1-B05 (0-5)	TCLP	Solid	6020A	498827
500-167784-2	2815V-1-B05 (0-5) Dup	TCLP	Solid	6020A	498827
500-167784-3	2815V-1-B05 (5-7)	TCLP	Solid	6020A	498827
500-167784-4	2815V-1-B06 (0-5)	TCLP	Solid	6020A	498827
500-167784-5	2815V-1-B06 (5-10)	TCLP	Solid	6020A	498827
500-167784-6	2815V-1-B06 (10-13.5)	TCLP	Solid	6020A	498827
500-167784-7	2815V-1-B07 (0-5)	TCLP	Solid	6020A	498827
500-167784-8	2815V-1-B07 (5-10)	TCLP	Solid	6020A	498827
500-167784-9	2815V-1-B07 (10-13.5)	TCLP	Solid	6020A	498827
500-167784-10	2815V-1-B08 (0-5)	TCLP	Solid	6020A	498827
500-167784-11	2815V-1-B08 (5-10)	TCLP	Solid	6020A	498827
500-167784-12	2815V-1-B09 (0-5)	TCLP	Solid	6020A	498827
500-167784-13	2815V-1-B09 (0-5) Dup	TCLP	Solid	6020A	498827
500-167784-14	2815V-1-B09 (5-7)	TCLP	Solid	6020A	498827
500-167784-15	2815V-1-B10 (0-4)	TCLP	Solid	6020A	498827
500-167784-16	2815V-1-B11 (0-4.5)	TCLP	Solid	6020A	498827
LB 500-498602/1-B	Method Blank	TCLP	Solid	6020A	498827
LCS 500-498827/2-A	Lab Control Sample	Total/NA	Solid	6020A	498827
500-167784-15 MS	2815V-1-B10 (0-4)	TCLP	Solid	6020A	498827
500-167784-15 DU	2815V-1-B10 (0-4)	TCLP	Solid	6020A	498827

General Chemistry

Analysis Batch: 498328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-167784-1	2815V-1-B05 (0-5)	Total/NA	Solid	Moisture	
500-167784-2	2815V-1-B05 (0-5) Dup	Total/NA	Solid	Moisture	
500-167784-3	2815V-1-B05 (5-7)	Total/NA	Solid	Moisture	
500-167784-4	2815V-1-B06 (0-5)	Total/NA	Solid	Moisture	
500-167784-5	2815V-1-B06 (5-10)	Total/NA	Solid	Moisture	
500-167784-6	2815V-1-B06 (10-13.5)	Total/NA	Solid	Moisture	
500-167784-7	2815V-1-B07 (0-5)	Total/NA	Solid	Moisture	
500-167784-8	2815V-1-B07 (5-10)	Total/NA	Solid	Moisture	
500-167784-9	2815V-1-B07 (10-13.5)	Total/NA	Solid	Moisture	
500-167784-10	2815V-1-B08 (0-5)	Total/NA	Solid	Moisture	
500-167784-11	2815V-1-B08 (5-10)	Total/NA	Solid	Moisture	
500-167784-12	2815V-1-B09 (0-5)	Total/NA	Solid	Moisture	
500-167784-13	2815V-1-B09 (0-5) Dup	Total/NA	Solid	Moisture	
500-167784-14	2815V-1-B09 (5-7)	Total/NA	Solid	Moisture	
500-167784-15	2815V-1-B10 (0-4)	Total/NA	Solid	Moisture	
500-167784-16	2815V-1-B11 (0-4.5)	Total/NA	Solid	Moisture	
500-167784-1 DU	2815V-1-B05 (0-5)	Total/NA	Solid	Moisture	

Analysis Batch: 498341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-167784-1	2815V-1-B05 (0-5)	Total/NA	Solid	9045D	
500-167784-2	2815V-1-B05 (0-5) Dup	Total/NA	Solid	9045D	
500-167784-3	2815V-1-B05 (5-7)	Total/NA	Solid	9045D	
500-167784-4	2815V-1-B06 (0-5)	Total/NA	Solid	9045D	
500-167784-5	2815V-1-B06 (5-10)	Total/NA	Solid	9045D	
500-167784-6	2815V-1-B06 (10-13.5)	Total/NA	Solid	9045D	

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

General Chemistry (Continued)

Analysis Batch: 498341 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-167784-7	2815V-1-B07 (0-5)	Total/NA	Solid	9045D	
500-167784-8	2815V-1-B07 (5-10)	Total/NA	Solid	9045D	
500-167784-9	2815V-1-B07 (10-13.5)	Total/NA	Solid	9045D	
500-167784-10	2815V-1-B08 (0-5)	Total/NA	Solid	9045D	
500-167784-11	2815V-1-B08 (5-10)	Total/NA	Solid	9045D	
500-167784-12	2815V-1-B09 (0-5)	Total/NA	Solid	9045D	
500-167784-13	2815V-1-B09 (0-5) Dup	Total/NA	Solid	9045D	
500-167784-14	2815V-1-B09 (5-7)	Total/NA	Solid	9045D	
500-167784-15	2815V-1-B10 (0-4)	Total/NA	Solid	9045D	
500-167784-16	2815V-1-B11 (0-4.5)	Total/NA	Solid	9045D	
LCS 500-498341/5	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-498341/6	Lab Control Sample Dup	Total/NA	Solid	9045D	
500-167784-4 DU	2815V-1-B06 (0-5)	Total/NA	Solid	9045D	

Prep Batch: 499858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-167784-1	2815V-1-B05 (0-5)	Total/NA	Solid	9010B	
500-167784-2	2815V-1-B05 (0-5) Dup	Total/NA	Solid	9010B	
500-167784-3	2815V-1-B05 (5-7)	Total/NA	Solid	9010B	
500-167784-4	2815V-1-B06 (0-5)	Total/NA	Solid	9010B	
500-167784-5	2815V-1-B06 (5-10)	Total/NA	Solid	9010B	
500-167784-6	2815V-1-B06 (10-13.5)	Total/NA	Solid	9010B	
500-167784-7	2815V-1-B07 (0-5)	Total/NA	Solid	9010B	
500-167784-8	2815V-1-B07 (5-10)	Total/NA	Solid	9010B	
500-167784-9	2815V-1-B07 (10-13.5)	Total/NA	Solid	9010B	
500-167784-10	2815V-1-B08 (0-5)	Total/NA	Solid	9010B	
500-167784-11	2815V-1-B08 (5-10)	Total/NA	Solid	9010B	
500-167784-12	2815V-1-B09 (0-5)	Total/NA	Solid	9010B	
500-167784-13	2815V-1-B09 (0-5) Dup	Total/NA	Solid	9010B	
500-167784-14	2815V-1-B09 (5-7)	Total/NA	Solid	9010B	
500-167784-15	2815V-1-B10 (0-4)	Total/NA	Solid	9010B	
500-167784-16	2815V-1-B11 (0-4.5)	Total/NA	Solid	9010B	
MB 500-499858/1-A	Method Blank	Total/NA	Solid	9010B	
HLCS 500-499858/2-A	Lab Control Sample	Total/NA	Solid	9010B	
LCS 500-499858/3-A	Lab Control Sample	Total/NA	Solid	9010B	
LLCS 500-499858/4-A	Lab Control Sample	Total/NA	Solid	9010B	

Analysis Batch: 499958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-167784-1	2815V-1-B05 (0-5)	Total/NA	Solid	9014	499858
500-167784-2	2815V-1-B05 (0-5) Dup	Total/NA	Solid	9014	499858
500-167784-3	2815V-1-B05 (5-7)	Total/NA	Solid	9014	499858
500-167784-4	2815V-1-B06 (0-5)	Total/NA	Solid	9014	499858
500-167784-5	2815V-1-B06 (5-10)	Total/NA	Solid	9014	499858
500-167784-6	2815V-1-B06 (10-13.5)	Total/NA	Solid	9014	499858
500-167784-7	2815V-1-B07 (0-5)	Total/NA	Solid	9014	499858
500-167784-8	2815V-1-B07 (5-10)	Total/NA	Solid	9014	499858
500-167784-9	2815V-1-B07 (10-13.5)	Total/NA	Solid	9014	499858
500-167784-10	2815V-1-B08 (0-5)	Total/NA	Solid	9014	499858
500-167784-11	2815V-1-B08 (5-10)	Total/NA	Solid	9014	499858
500-167784-12	2815V-1-B09 (0-5)	Total/NA	Solid	9014	499858

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

General Chemistry (Continued)

Analysis Batch: 499958 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-167784-13	2815V-1-B09 (0-5) Dup	Total/NA	Solid	9014	499858
500-167784-14	2815V-1-B09 (5-7)	Total/NA	Solid	9014	499858
500-167784-15	2815V-1-B10 (0-4)	Total/NA	Solid	9014	499858
500-167784-16	2815V-1-B11 (0-4.5)	Total/NA	Solid	9014	499858
MB 500-499858/1-A	Method Blank	Total/NA	Solid	9014	499858
HLCS 500-499858/2-A	Lab Control Sample	Total/NA	Solid	9014	499858
LCS 500-499858/3-A	Lab Control Sample	Total/NA	Solid	9014	499858
LLCS 500-499858/4-A	Lab Control Sample	Total/NA	Solid	9014	499858



Surrogate Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (75-131)	DBFM (75-126)	DCA (70-134)	TOL (75-124)
500-167784-1	2815V-1-B05 (0-5)	87	98	99	96
500-167784-2	2815V-1-B05 (0-5) Dup	85	97	94	94
500-167784-3	2815V-1-B05 (5-7)	84	96	93	91
500-167784-4	2815V-1-B06 (0-5)	86	98	96	91
500-167784-5	2815V-1-B06 (5-10)	84	97	93	92
500-167784-6	2815V-1-B06 (10-13.5)	85	97	93	92
500-167784-7	2815V-1-B07 (0-5)	86	98	98	92
500-167784-8	2815V-1-B07 (5-10)	87	101	98	92
500-167784-9	2815V-1-B07 (10-13.5)	86	96	94	95
500-167784-10	2815V-1-B08 (0-5)	88	97	96	93
500-167784-11	2815V-1-B08 (5-10)	85	92	90	95
500-167784-12	2815V-1-B09 (0-5)	87	98	97	95
500-167784-13	2815V-1-B09 (0-5) Dup	86	99	95	93
500-167784-14	2815V-1-B09 (5-7)	84	97	89	96
500-167784-15	2815V-1-B10 (0-4)	83	98	94	91
500-167784-16	2815V-1-B11 (0-4.5)	87	99	95	92
LCS 500-498475/4	Lab Control Sample	82	97	91	90
LCS 500-498662/4	Lab Control Sample	82	99	91	90
LCS 500-498475/5	Lab Control Sample Dup	81	100	86	89
LCS 500-498662/37	Lab Control Sample Dup	83	100	95	91
MB 500-498475/7	Method Blank	83	97	89	96
MB 500-498662/6	Method Blank	83	98	91	90

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
 DBFM = Dibromofluoromethane
 DCA = 1,2-Dichloroethane-d4 (Surr)
 TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (43-145)	2FP (31-166)	NBZ (37-147)	PHL (30-153)	TPHL (42-157)	TBP (31-143)
500-167784-1	2815V-1-B05 (0-5)	85	78	68	69	138	105
500-167784-1 MS	2815V-1-B05 (0-5)	121	99	85	94	167 X	132
500-167784-1 MSD	2815V-1-B05 (0-5)	115	94	80	88	164 X	126
500-167784-2	2815V-1-B05 (0-5) Dup	89	106	70	98	139	78
500-167784-3	2815V-1-B05 (5-7)	77	93	64	84	118	62
500-167784-4	2815V-1-B06 (0-5)	102	98	85	82	133	140
500-167784-5	2815V-1-B06 (5-10)	98	96	77	83	120	113
500-167784-6	2815V-1-B06 (10-13.5)	101	102	81	85	131	122
500-167784-7	2815V-1-B07 (0-5)	90	89	70	78	123	82
500-167784-8	2815V-1-B07 (5-10)	83	82	68	70	105	103
500-167784-9	2815V-1-B07 (10-13.5)	89	90	71	79	126	76
500-167784-10	2815V-1-B08 (0-5)	98	92	78	80	108	121
500-167784-10 - DL	2815V-1-B08 (0-5)	81	97	64	79	95	84
500-167784-11	2815V-1-B08 (5-10)	104	88	80	84	125	102
500-167784-12	2815V-1-B09 (0-5)	101	121	81	123	159 X	89

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Surrogate Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (43-145)	2FP (31-166)	NBZ (37-147)	PHL (30-153)	TPHL (42-157)	TBP (31-143)
500-167784-13	2815V-1-B09 (0-5) Dup	97	116	75	113	163 X	87
500-167784-14	2815V-1-B09 (5-7)	109	104	85	88	151	125
500-167784-15	2815V-1-B10 (0-4)	103	97	81	86	152	136
500-167784-16	2815V-1-B11 (0-4.5)	98	93	78	79	143	125
LCS 500-498485/2-A	Lab Control Sample	105	90	93	89	116	102
LCS 500-499527/2-A	Lab Control Sample	95	92	70	82	93	72
MB 500-498485/1-A	Method Blank	113	116	91	95	143	101
MB 500-499527/1-A	Method Blank	81	100	72	93	118	56

Surrogate Legend

- FBP = 2-Fluorobiphenyl
- 2FP = 2-Fluorophenol
- NBZ = Nitrobenzene-d5
- PHL = Phenol-d5
- TPHL = Terphenyl-d14
- TBP = 2,4,6-Tribromophenol



QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-498475/7
Matrix: Solid
Analysis Batch: 498475

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.0087		0.020	0.0087	mg/Kg			08/07/19 10:41	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg			08/07/19 10:41	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg			08/07/19 10:41	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg			08/07/19 10:41	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg			08/07/19 10:41	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			08/07/19 10:41	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg			08/07/19 10:41	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg			08/07/19 10:41	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg			08/07/19 10:41	1
Chloroethane	<0.0015		0.0050	0.0015	mg/Kg			08/07/19 10:41	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg			08/07/19 10:41	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg			08/07/19 10:41	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg			08/07/19 10:41	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg			08/07/19 10:41	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg			08/07/19 10:41	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg			08/07/19 10:41	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg			08/07/19 10:41	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg			08/07/19 10:41	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			08/07/19 10:41	1
1,3-Dichloropropene, Total	<0.00070		0.0020	0.00070	mg/Kg			08/07/19 10:41	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg			08/07/19 10:41	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg			08/07/19 10:41	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg			08/07/19 10:41	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg			08/07/19 10:41	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg			08/07/19 10:41	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg			08/07/19 10:41	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg			08/07/19 10:41	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg			08/07/19 10:41	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg			08/07/19 10:41	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg			08/07/19 10:41	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg			08/07/19 10:41	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg			08/07/19 10:41	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg			08/07/19 10:41	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg			08/07/19 10:41	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg			08/07/19 10:41	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg			08/07/19 10:41	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg			08/07/19 10:41	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	83		75 - 131		08/07/19 10:41	1
Dibromofluoromethane	97		75 - 126		08/07/19 10:41	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 134		08/07/19 10:41	1
Toluene-d8 (Surr)	96		75 - 124		08/07/19 10:41	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-498475/4

Matrix: Solid

Analysis Batch: 498475

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0643		mg/Kg		129	40 - 150
Benzene	0.0500	0.0459		mg/Kg		92	70 - 125
Bromodichloromethane	0.0500	0.0452		mg/Kg		90	67 - 129
Bromoform	0.0500	0.0515		mg/Kg		103	68 - 136
Bromomethane	0.0500	0.0573		mg/Kg		115	70 - 130
2-Butanone (MEK)	0.0500	0.0594		mg/Kg		119	47 - 138
Carbon disulfide	0.0500	0.0537		mg/Kg		107	70 - 129
Carbon tetrachloride	0.0500	0.0492		mg/Kg		98	75 - 125
Chlorobenzene	0.0500	0.0459		mg/Kg		92	50 - 150
Chloroethane	0.0500	0.0669	*	mg/Kg		134	75 - 125
Chloroform	0.0500	0.0468		mg/Kg		94	57 - 135
Chloromethane	0.0500	0.0497		mg/Kg		99	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0501		mg/Kg		100	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0396		mg/Kg		79	70 - 125
Dibromochloromethane	0.0500	0.0476		mg/Kg		95	69 - 125
1,1-Dichloroethane	0.0500	0.0480		mg/Kg		96	70 - 125
1,2-Dichloroethane	0.0500	0.0476		mg/Kg		95	70 - 130
1,1-Dichloroethene	0.0500	0.0526		mg/Kg		105	70 - 120
1,2-Dichloropropane	0.0500	0.0455		mg/Kg		91	70 - 125
Ethylbenzene	0.0500	0.0450		mg/Kg		90	61 - 136
2-Hexanone	0.0500	0.0487		mg/Kg		97	48 - 146
Methylene Chloride	0.0500	0.0480		mg/Kg		96	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0526		mg/Kg		105	50 - 148
Methyl tert-butyl ether	0.0500	0.0503		mg/Kg		101	50 - 140
Styrene	0.0500	0.0435		mg/Kg		87	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0428		mg/Kg		86	70 - 122
Tetrachloroethene	0.0500	0.0527		mg/Kg		105	70 - 124
Toluene	0.0500	0.0451		mg/Kg		90	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0522		mg/Kg		104	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0414		mg/Kg		83	70 - 125
1,1,1-Trichloroethane	0.0500	0.0484		mg/Kg		97	70 - 128
1,1,2-Trichloroethane	0.0500	0.0462		mg/Kg		92	70 - 125
Trichloroethene	0.0500	0.0500		mg/Kg		100	70 - 125
Vinyl acetate	0.0500	0.0557		mg/Kg		111	40 - 153
Vinyl chloride	0.0500	0.0508		mg/Kg		102	70 - 125
Xylenes, Total	0.100	0.0866		mg/Kg		87	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	82		75 - 131
Dibromofluoromethane	97		75 - 126
1,2-Dichloroethane-d4 (Surr)	91		70 - 134
Toluene-d8 (Surr)	90		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-498475/5

Matrix: Solid

Analysis Batch: 498475

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0456	*	mg/Kg		91	40 - 150	34	30
Benzene	0.0500	0.0448		mg/Kg		90	70 - 125	2	30
Bromodichloromethane	0.0500	0.0440		mg/Kg		88	67 - 129	3	30
Bromoform	0.0500	0.0473		mg/Kg		95	68 - 136	8	30
Bromomethane	0.0500	0.0569		mg/Kg		114	70 - 130	1	30
2-Butanone (MEK)	0.0500	0.0435	*	mg/Kg		87	47 - 138	31	30
Carbon disulfide	0.0500	0.0525		mg/Kg		105	70 - 129	2	30
Carbon tetrachloride	0.0500	0.0506		mg/Kg		101	75 - 125	3	30
Chlorobenzene	0.0500	0.0452		mg/Kg		90	50 - 150	1	30
Chloroethane	0.0500	0.0670	*	mg/Kg		134	75 - 125	0	30
Chloroform	0.0500	0.0470		mg/Kg		94	57 - 135	0	30
Chloromethane	0.0500	0.0478		mg/Kg		96	70 - 125	4	30
cis-1,2-Dichloroethene	0.0500	0.0491		mg/Kg		98	70 - 125	2	30
cis-1,3-Dichloropropene	0.0500	0.0393		mg/Kg		79	70 - 125	1	30
Dibromochloromethane	0.0500	0.0450		mg/Kg		90	69 - 125	6	30
1,1-Dichloroethane	0.0500	0.0474		mg/Kg		95	70 - 125	1	30
1,2-Dichloroethane	0.0500	0.0449		mg/Kg		90	70 - 130	6	30
1,1-Dichloroethene	0.0500	0.0505		mg/Kg		101	70 - 120	4	30
1,2-Dichloropropane	0.0500	0.0444		mg/Kg		89	70 - 125	2	30
Ethylbenzene	0.0500	0.0442		mg/Kg		88	61 - 136	2	30
2-Hexanone	0.0500	0.0453		mg/Kg		91	48 - 146	7	30
Methylene Chloride	0.0500	0.0453		mg/Kg		91	70 - 126	6	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0429		mg/Kg		86	50 - 148	20	30
Methyl tert-butyl ether	0.0500	0.0460		mg/Kg		92	50 - 140	9	30
Styrene	0.0500	0.0429		mg/Kg		86	70 - 125	1	30
1,1,2,2-Tetrachloroethane	0.0500	0.0388		mg/Kg		78	70 - 122	10	30
Tetrachloroethene	0.0500	0.0528		mg/Kg		106	70 - 124	0	30
Toluene	0.0500	0.0439		mg/Kg		88	70 - 125	3	30
trans-1,2-Dichloroethene	0.0500	0.0499		mg/Kg		100	70 - 125	5	30
trans-1,3-Dichloropropene	0.0500	0.0390		mg/Kg		78	70 - 125	6	30
1,1,1-Trichloroethane	0.0500	0.0505		mg/Kg		101	70 - 128	4	30
1,1,2-Trichloroethane	0.0500	0.0439		mg/Kg		88	70 - 125	5	30
Trichloroethene	0.0500	0.0501		mg/Kg		100	70 - 125	0	30
Vinyl acetate	0.0500	0.0476		mg/Kg		95	40 - 153	16	30
Vinyl chloride	0.0500	0.0507		mg/Kg		101	70 - 125	0	30
Xylenes, Total	0.100	0.0851		mg/Kg		85	53 - 147	2	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	81		75 - 131
Dibromofluoromethane	100		75 - 126
1,2-Dichloroethane-d4 (Surr)	86		70 - 134
Toluene-d8 (Surr)	89		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-498662/6
Matrix: Solid
Analysis Batch: 498662

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.0087		0.020	0.0087	mg/Kg			08/08/19 09:58	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg			08/08/19 09:58	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg			08/08/19 09:58	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg			08/08/19 09:58	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg			08/08/19 09:58	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			08/08/19 09:58	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg			08/08/19 09:58	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg			08/08/19 09:58	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg			08/08/19 09:58	1
Chloroethane	<0.0015		0.0050	0.0015	mg/Kg			08/08/19 09:58	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg			08/08/19 09:58	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg			08/08/19 09:58	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg			08/08/19 09:58	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg			08/08/19 09:58	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg			08/08/19 09:58	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg			08/08/19 09:58	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg			08/08/19 09:58	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg			08/08/19 09:58	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			08/08/19 09:58	1
1,3-Dichloropropene, Total	<0.00070		0.0020	0.00070	mg/Kg			08/08/19 09:58	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg			08/08/19 09:58	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg			08/08/19 09:58	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg			08/08/19 09:58	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg			08/08/19 09:58	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg			08/08/19 09:58	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg			08/08/19 09:58	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg			08/08/19 09:58	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg			08/08/19 09:58	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg			08/08/19 09:58	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg			08/08/19 09:58	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg			08/08/19 09:58	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg			08/08/19 09:58	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg			08/08/19 09:58	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg			08/08/19 09:58	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg			08/08/19 09:58	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg			08/08/19 09:58	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg			08/08/19 09:58	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	83		75 - 131		08/08/19 09:58	1
Dibromofluoromethane	98		75 - 126		08/08/19 09:58	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134		08/08/19 09:58	1
Toluene-d8 (Surr)	90		75 - 124		08/08/19 09:58	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-498662/4

Matrix: Solid

Analysis Batch: 498662

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0528		mg/Kg		106	40 - 150
Benzene	0.0500	0.0467		mg/Kg		93	70 - 125
Bromodichloromethane	0.0500	0.0457		mg/Kg		91	67 - 129
Bromoform	0.0500	0.0499		mg/Kg		100	68 - 136
Bromomethane	0.0500	0.0503		mg/Kg		101	70 - 130
2-Butanone (MEK)	0.0500	0.0496		mg/Kg		99	47 - 138
Carbon disulfide	0.0500	0.0526		mg/Kg		105	70 - 129
Carbon tetrachloride	0.0500	0.0491		mg/Kg		98	75 - 125
Chlorobenzene	0.0500	0.0461		mg/Kg		92	50 - 150
Chloroethane	0.0500	0.0594		mg/Kg		119	75 - 125
Chloroform	0.0500	0.0464		mg/Kg		93	57 - 135
Chloromethane	0.0500	0.0407		mg/Kg		81	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0488		mg/Kg		98	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0403		mg/Kg		81	70 - 125
Dibromochloromethane	0.0500	0.0460		mg/Kg		92	69 - 125
1,1-Dichloroethane	0.0500	0.0458		mg/Kg		92	70 - 125
1,2-Dichloroethane	0.0500	0.0474		mg/Kg		95	70 - 130
1,1-Dichloroethene	0.0500	0.0511		mg/Kg		102	70 - 120
1,2-Dichloropropane	0.0500	0.0448		mg/Kg		90	70 - 125
Ethylbenzene	0.0500	0.0446		mg/Kg		89	61 - 136
2-Hexanone	0.0500	0.0449		mg/Kg		90	48 - 146
Methylene Chloride	0.0500	0.0460		mg/Kg		92	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0448		mg/Kg		90	50 - 148
Methyl tert-butyl ether	0.0500	0.0453		mg/Kg		91	50 - 140
Styrene	0.0500	0.0444		mg/Kg		89	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0427		mg/Kg		85	70 - 122
Tetrachloroethene	0.0500	0.0544		mg/Kg		109	70 - 124
Toluene	0.0500	0.0458		mg/Kg		92	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0506		mg/Kg		101	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0399		mg/Kg		80	70 - 125
1,1,1-Trichloroethane	0.0500	0.0481		mg/Kg		96	70 - 128
1,1,2-Trichloroethane	0.0500	0.0459		mg/Kg		92	70 - 125
Trichloroethene	0.0500	0.0523		mg/Kg		105	70 - 125
Vinyl acetate	0.0500	0.0495		mg/Kg		99	40 - 153
Vinyl chloride	0.0500	0.0424		mg/Kg		85	70 - 125
Xylenes, Total	0.100	0.0872		mg/Kg		87	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	82		75 - 131
Dibromofluoromethane	99		75 - 126
1,2-Dichloroethane-d4 (Surr)	91		70 - 134
Toluene-d8 (Surr)	90		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-498662/37
Matrix: Solid
Analysis Batch: 498662

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0519		mg/Kg		104	40 - 150	2	30
Benzene	0.0500	0.0397		mg/Kg		79	70 - 125	16	30
Bromodichloromethane	0.0500	0.0394		mg/Kg		79	67 - 129	15	30
Bromoform	0.0500	0.0450		mg/Kg		90	68 - 136	11	30
Bromomethane	0.0500	0.0449		mg/Kg		90	70 - 130	11	30
2-Butanone (MEK)	0.0500	0.0474		mg/Kg		95	47 - 138	4	30
Carbon disulfide	0.0500	0.0450		mg/Kg		90	70 - 129	16	30
Carbon tetrachloride	0.0500	0.0402		mg/Kg		80	75 - 125	20	30
Chlorobenzene	0.0500	0.0393		mg/Kg		79	50 - 150	16	30
Chloroethane	0.0500	0.0519		mg/Kg		104	75 - 125	13	30
Chloroform	0.0500	0.0408		mg/Kg		82	57 - 135	13	30
Chloromethane	0.0500	0.0392		mg/Kg		78	70 - 125	4	30
cis-1,2-Dichloroethene	0.0500	0.0422		mg/Kg		84	70 - 125	14	30
cis-1,3-Dichloropropene	0.0500	0.0345	*	mg/Kg		69	70 - 125	15	30
Dibromochloromethane	0.0500	0.0407		mg/Kg		81	69 - 125	12	30
1,1-Dichloroethane	0.0500	0.0410		mg/Kg		82	70 - 125	11	30
1,2-Dichloroethane	0.0500	0.0419		mg/Kg		84	70 - 130	12	30
1,1-Dichloroethene	0.0500	0.0440		mg/Kg		88	70 - 120	15	30
1,2-Dichloropropane	0.0500	0.0387		mg/Kg		77	70 - 125	15	30
Ethylbenzene	0.0500	0.0378		mg/Kg		76	61 - 136	17	30
2-Hexanone	0.0500	0.0434		mg/Kg		87	48 - 146	3	30
Methylene Chloride	0.0500	0.0394		mg/Kg		79	70 - 126	15	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0429		mg/Kg		86	50 - 148	4	30
Methyl tert-butyl ether	0.0500	0.0416		mg/Kg		83	50 - 140	9	30
Styrene	0.0500	0.0371		mg/Kg		74	70 - 125	18	30
1,1,2,2-Tetrachloroethane	0.0500	0.0394		mg/Kg		79	70 - 122	8	30
Tetrachloroethene	0.0500	0.0456		mg/Kg		91	70 - 124	18	30
Toluene	0.0500	0.0384		mg/Kg		77	70 - 125	17	30
trans-1,2-Dichloroethene	0.0500	0.0433		mg/Kg		87	70 - 125	16	30
trans-1,3-Dichloropropene	0.0500	0.0349		mg/Kg		70	70 - 125	13	30
1,1,1-Trichloroethane	0.0500	0.0405		mg/Kg		81	70 - 128	17	30
1,1,2-Trichloroethane	0.0500	0.0413		mg/Kg		83	70 - 125	11	30
Trichloroethene	0.0500	0.0436		mg/Kg		87	70 - 125	18	30
Vinyl acetate	0.0500	0.0467		mg/Kg		93	40 - 153	6	30
Vinyl chloride	0.0500	0.0393		mg/Kg		79	70 - 125	8	30
Xylenes, Total	0.100	0.0729		mg/Kg		73	53 - 147	18	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	83		75 - 131
Dibromofluoromethane	100		75 - 126
1,2-Dichloroethane-d4 (Surr)	95		70 - 134
Toluene-d8 (Surr)	91		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-498485/1-A
Matrix: Solid
Analysis Batch: 498806

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 498485

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	<0.0060		0.033	0.0060	mg/Kg		08/07/19 07:34	08/08/19 16:33	1
Acenaphthylene	<0.0044		0.033	0.0044	mg/Kg		08/07/19 07:34	08/08/19 16:33	1
Anthracene	<0.0056		0.033	0.0056	mg/Kg		08/07/19 07:34	08/08/19 16:33	1
Benzo[a]anthracene	<0.0045		0.033	0.0045	mg/Kg		08/07/19 07:34	08/08/19 16:33	1
Benzo[a]pyrene	<0.0064		0.033	0.0064	mg/Kg		08/07/19 07:34	08/08/19 16:33	1
Benzo[b]fluoranthene	<0.0072		0.033	0.0072	mg/Kg		08/07/19 07:34	08/08/19 16:33	1
Benzo[g,h,i]perylene	<0.011		0.033	0.011	mg/Kg		08/07/19 07:34	08/08/19 16:33	1
Benzo[k]fluoranthene	<0.0098		0.033	0.0098	mg/Kg		08/07/19 07:34	08/08/19 16:33	1
Bis(2-chloroethoxy)methane	<0.034		0.17	0.034	mg/Kg		08/07/19 07:34	08/08/19 16:33	1
Bis(2-chloroethyl)ether	<0.050		0.17	0.050	mg/Kg		08/07/19 07:34	08/08/19 16:33	1
Bis(2-ethylhexyl) phthalate	<0.061		0.17	0.061	mg/Kg		08/07/19 07:34	08/08/19 16:33	1
4-Bromophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		08/07/19 07:34	08/08/19 16:33	1
Butyl benzyl phthalate	<0.063		0.17	0.063	mg/Kg		08/07/19 07:34	08/08/19 16:33	1
Carbazole	<0.083		0.17	0.083	mg/Kg		08/07/19 07:34	08/08/19 16:33	1
4-Chloroaniline	<0.16		0.67	0.16	mg/Kg		08/07/19 07:34	08/08/19 16:33	1
4-Chloro-3-methylphenol	<0.11		0.33	0.11	mg/Kg		08/07/19 07:34	08/08/19 16:33	1
2-Chloronaphthalene	<0.037		0.17	0.037	mg/Kg		08/07/19 07:34	08/08/19 16:33	1
2-Chlorophenol	<0.057		0.17	0.057	mg/Kg		08/07/19 07:34	08/08/19 16:33	1
4-Chlorophenyl phenyl ether	<0.039		0.17	0.039	mg/Kg		08/07/19 07:34	08/08/19 16:33	1
Chrysene	<0.0091		0.033	0.0091	mg/Kg		08/07/19 07:34	08/08/19 16:33	1
Dibenz(a,h)anthracene	<0.0064		0.033	0.0064	mg/Kg		08/07/19 07:34	08/08/19 16:33	1
Dibenzofuran	<0.039		0.17	0.039	mg/Kg		08/07/19 07:34	08/08/19 16:33	1
1,2-Dichlorobenzene	<0.040		0.17	0.040	mg/Kg		08/07/19 07:34	08/08/19 16:33	1
1,3-Dichlorobenzene	<0.037		0.17	0.037	mg/Kg		08/07/19 07:34	08/08/19 16:33	1
1,4-Dichlorobenzene	<0.043		0.17	0.043	mg/Kg		08/07/19 07:34	08/08/19 16:33	1
3,3'-Dichlorobenzidine	<0.047		0.17	0.047	mg/Kg		08/07/19 07:34	08/08/19 16:33	1
2,4-Dichlorophenol	<0.079		0.33	0.079	mg/Kg		08/07/19 07:34	08/08/19 16:33	1
Diethyl phthalate	<0.056		0.17	0.056	mg/Kg		08/07/19 07:34	08/08/19 16:33	1
2,4-Dimethylphenol	<0.13		0.33	0.13	mg/Kg		08/07/19 07:34	08/08/19 16:33	1
Dimethyl phthalate	<0.043		0.17	0.043	mg/Kg		08/07/19 07:34	08/08/19 16:33	1
Di-n-butyl phthalate	<0.051		0.17	0.051	mg/Kg		08/07/19 07:34	08/08/19 16:33	1
4,6-Dinitro-2-methylphenol	<0.27		0.67	0.27	mg/Kg		08/07/19 07:34	08/08/19 16:33	1
2,4-Dinitrophenol	<0.59		0.67	0.59	mg/Kg		08/07/19 07:34	08/08/19 16:33	1
2,4-Dinitrotoluene	<0.053		0.17	0.053	mg/Kg		08/07/19 07:34	08/08/19 16:33	1
2,6-Dinitrotoluene	<0.065		0.17	0.065	mg/Kg		08/07/19 07:34	08/08/19 16:33	1
Di-n-octyl phthalate	<0.054		0.17	0.054	mg/Kg		08/07/19 07:34	08/08/19 16:33	1
Fluoranthene	<0.0062		0.033	0.0062	mg/Kg		08/07/19 07:34	08/08/19 16:33	1
Fluorene	<0.0047		0.033	0.0047	mg/Kg		08/07/19 07:34	08/08/19 16:33	1
Hexachlorobenzene	<0.0077		0.067	0.0077	mg/Kg		08/07/19 07:34	08/08/19 16:33	1
Hexachlorobutadiene	<0.052		0.17	0.052	mg/Kg		08/07/19 07:34	08/08/19 16:33	1
Hexachlorocyclopentadiene	<0.19		0.67	0.19	mg/Kg		08/07/19 07:34	08/08/19 16:33	1
Hexachloroethane	<0.051		0.17	0.051	mg/Kg		08/07/19 07:34	08/08/19 16:33	1
Indeno[1,2,3-cd]pyrene	<0.0086		0.033	0.0086	mg/Kg		08/07/19 07:34	08/08/19 16:33	1
Isophorone	<0.037		0.17	0.037	mg/Kg		08/07/19 07:34	08/08/19 16:33	1
2-Methylnaphthalene	<0.0061		0.067	0.0061	mg/Kg		08/07/19 07:34	08/08/19 16:33	1
2-Methylphenol	<0.053		0.17	0.053	mg/Kg		08/07/19 07:34	08/08/19 16:33	1
3 & 4 Methylphenol	<0.055		0.17	0.055	mg/Kg		08/07/19 07:34	08/08/19 16:33	1
Naphthalene	<0.0051		0.033	0.0051	mg/Kg		08/07/19 07:34	08/08/19 16:33	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-498485/1-A
Matrix: Solid
Analysis Batch: 498806

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 498485

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2-Nitroaniline	<0.045		0.17	0.045	mg/Kg		08/07/19 07:34	08/08/19 16:33	1
3-Nitroaniline	<0.10		0.33	0.10	mg/Kg		08/07/19 07:34	08/08/19 16:33	1
4-Nitroaniline	<0.14		0.33	0.14	mg/Kg		08/07/19 07:34	08/08/19 16:33	1
Nitrobenzene	<0.0083		0.033	0.0083	mg/Kg		08/07/19 07:34	08/08/19 16:33	1
2-Nitrophenol	<0.079		0.33	0.079	mg/Kg		08/07/19 07:34	08/08/19 16:33	1
4-Nitrophenol	<0.32		0.67	0.32	mg/Kg		08/07/19 07:34	08/08/19 16:33	1
N-Nitrosodi-n-propylamine	<0.041		0.067	0.041	mg/Kg		08/07/19 07:34	08/08/19 16:33	1
N-Nitrosodiphenylamine	<0.039		0.17	0.039	mg/Kg		08/07/19 07:34	08/08/19 16:33	1
2,2'-oxybis[1-chloropropane]	<0.039		0.17	0.039	mg/Kg		08/07/19 07:34	08/08/19 16:33	1
Pentachlorophenol	<0.53		0.67	0.53	mg/Kg		08/07/19 07:34	08/08/19 16:33	1
Phenanthrene	<0.0046		0.033	0.0046	mg/Kg		08/07/19 07:34	08/08/19 16:33	1
Phenol	<0.074		0.17	0.074	mg/Kg		08/07/19 07:34	08/08/19 16:33	1
Pyrene	<0.0066		0.033	0.0066	mg/Kg		08/07/19 07:34	08/08/19 16:33	1
1,2,4-Trichlorobenzene	<0.036		0.17	0.036	mg/Kg		08/07/19 07:34	08/08/19 16:33	1
2,4,5-Trichlorophenol	<0.076		0.33	0.076	mg/Kg		08/07/19 07:34	08/08/19 16:33	1
2,4,6-Trichlorophenol	<0.11		0.33	0.11	mg/Kg		08/07/19 07:34	08/08/19 16:33	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorobiphenyl	113		43 - 145	08/07/19 07:34	08/08/19 16:33	1
2-Fluorophenol	116		31 - 166	08/07/19 07:34	08/08/19 16:33	1
Nitrobenzene-d5	91		37 - 147	08/07/19 07:34	08/08/19 16:33	1
Phenol-d5	95		30 - 153	08/07/19 07:34	08/08/19 16:33	1
Terphenyl-d14	143		42 - 157	08/07/19 07:34	08/08/19 16:33	1
2,4,6-Tribromophenol	101		31 - 143	08/07/19 07:34	08/08/19 16:33	1

Lab Sample ID: LCS 500-498485/2-A
Matrix: Solid
Analysis Batch: 498974

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 498485

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthylene	1.33	1.31		mg/Kg		98	68 - 120
Anthracene	1.33	1.34		mg/Kg		100	70 - 114
Benzo[a]anthracene	1.33	1.35		mg/Kg		101	67 - 122
Benzo[a]pyrene	1.33	1.31		mg/Kg		98	65 - 133
Benzo[b]fluoranthene	1.33	1.36		mg/Kg		102	69 - 129
Benzo[g,h,i]perylene	1.33	1.30		mg/Kg		98	72 - 131
Benzo[k]fluoranthene	1.33	1.33		mg/Kg		100	68 - 127
Bis(2-chloroethoxy)methane	1.33	1.22		mg/Kg		91	60 - 112
Bis(2-chloroethyl)ether	1.33	1.15		mg/Kg		86	55 - 111
Bis(2-ethylhexyl) phthalate	1.33	1.39		mg/Kg		104	72 - 131
4-Bromophenyl phenyl ether	1.33	1.28		mg/Kg		96	68 - 118
Butyl benzyl phthalate	1.33	1.39		mg/Kg		104	71 - 129
Carbazole	1.33	1.42		mg/Kg		107	65 - 142
4-Chloroaniline	1.33	1.16		mg/Kg		87	30 - 150
4-Chloro-3-methylphenol	1.33	1.24		mg/Kg		93	65 - 122
2-Chloronaphthalene	1.33	1.26		mg/Kg		94	69 - 114
2-Chlorophenol	1.33	1.29		mg/Kg		97	64 - 110

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-498485/2-A

Matrix: Solid

Analysis Batch: 498974

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 498485

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorophenyl phenyl ether	1.33	1.25		mg/Kg		94	62 - 119
Chrysene	1.33	1.34		mg/Kg		101	63 - 120
Dibenz(a,h)anthracene	1.33	1.33		mg/Kg		100	64 - 131
Dibenzofuran	1.33	1.26		mg/Kg		94	66 - 115
1,2-Dichlorobenzene	1.33	1.10		mg/Kg		83	62 - 110
1,3-Dichlorobenzene	1.33	1.14		mg/Kg		85	65 - 124
1,4-Dichlorobenzene	1.33	1.16		mg/Kg		87	61 - 110
3,3'-Dichlorobenzidine	1.33	1.03		mg/Kg		77	35 - 128
2,4-Dichlorophenol	1.33	1.18		mg/Kg		88	58 - 120
Diethyl phthalate	1.33	1.39		mg/Kg		105	58 - 120
2,4-Dimethylphenol	1.33	1.23		mg/Kg		92	60 - 110
Dimethyl phthalate	1.33	1.32		mg/Kg		99	69 - 116
Di-n-butyl phthalate	1.33	1.37		mg/Kg		102	65 - 120
4,6-Dinitro-2-methylphenol	2.67	0.762		mg/Kg		29	10 - 110
2,4-Dinitrophenol	2.67	<0.59		mg/Kg		13	10 - 100
2,4-Dinitrotoluene	1.33	1.27		mg/Kg		95	69 - 124
2,6-Dinitrotoluene	1.33	1.33		mg/Kg		100	70 - 123
Di-n-octyl phthalate	1.33	1.32		mg/Kg		99	68 - 134
Fluoranthene	1.33	1.35		mg/Kg		101	62 - 120
Fluorene	1.33	1.36		mg/Kg		102	62 - 120
Hexachlorobenzene	1.33	1.32		mg/Kg		99	63 - 124
Hexachlorobutadiene	1.33	1.21		mg/Kg		91	56 - 120
Hexachlorocyclopentadiene	1.33	1.22		mg/Kg		92	10 - 133
Hexachloroethane	1.33	1.12		mg/Kg		84	60 - 114
Indeno[1,2,3-cd]pyrene	1.33	1.30		mg/Kg		98	68 - 130
Isophorone	1.33	1.27		mg/Kg		96	55 - 110
2-Methylnaphthalene	1.33	1.30		mg/Kg		97	69 - 112
2-Methylphenol	1.33	1.33		mg/Kg		100	60 - 120
3 & 4 Methylphenol	1.33	1.26		mg/Kg		94	57 - 120
Naphthalene	1.33	1.27		mg/Kg		95	63 - 110
2-Nitroaniline	1.33	1.31		mg/Kg		98	57 - 124
3-Nitroaniline	1.33	1.13		mg/Kg		85	40 - 122
4-Nitroaniline	1.33	1.20		mg/Kg		90	60 - 160
Nitrobenzene	1.33	1.27		mg/Kg		95	60 - 116
2-Nitrophenol	1.33	1.22		mg/Kg		92	60 - 120
4-Nitrophenol	2.67	2.66		mg/Kg		100	30 - 122
N-Nitrosodi-n-propylamine	1.33	1.26		mg/Kg		95	56 - 118
N-Nitrosodiphenylamine	1.33	1.33		mg/Kg		100	65 - 112
2,2'-oxybis[1-chloropropane]	1.33	1.18		mg/Kg		89	40 - 124
Pentachlorophenol	2.67	1.95		mg/Kg		73	13 - 112
Phenanthrene	1.33	1.33		mg/Kg		100	62 - 120
Phenol	1.33	1.30		mg/Kg		97	56 - 122
Pyrene	1.33	1.41		mg/Kg		106	61 - 128
1,2,4-Trichlorobenzene	1.33	1.21		mg/Kg		90	66 - 117
2,4,5-Trichlorophenol	1.33	1.36		mg/Kg		102	50 - 120
2,4,6-Trichlorophenol	1.33	1.23		mg/Kg		92	57 - 120

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-498485/2-A
Matrix: Solid
Analysis Batch: 498974

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 498485

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	105		43 - 145
2-Fluorophenol	90		31 - 166
Nitrobenzene-d5	93		37 - 147
Phenol-d5	89		30 - 153
Terphenyl-d14	116		42 - 157
2,4,6-Tribromophenol	102		31 - 143

Lab Sample ID: 500-167784-1 MS
Matrix: Solid
Analysis Batch: 498806

Client Sample ID: 2815V-1-B05 (0-5)
Prep Type: Total/NA
Prep Batch: 498485

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	<0.0064		1.43	1.61		mg/Kg	☼	113	65 - 124
Acenaphthylene	0.0078	J	1.43	1.54		mg/Kg	☼	107	68 - 120
Anthracene	0.0082	J F1	1.43	1.72	F1	mg/Kg	☼	120	70 - 114
Benzo[a]anthracene	0.061		1.43	1.48		mg/Kg	☼	99	67 - 122
Benzo[a]pyrene	0.088		1.43	1.40		mg/Kg	☼	92	65 - 133
Benzo[b]fluoranthene	0.13		1.43	1.90		mg/Kg	☼	124	69 - 129
Benzo[g,h,i]perylene	0.043	F1	1.43	0.839	F1	mg/Kg	☼	56	72 - 131
Benzo[k]fluoranthene	0.038	F1	1.43	1.89	F1	mg/Kg	☼	130	68 - 127
Bis(2-chloroethoxy)methane	<0.036		1.43	1.15		mg/Kg	☼	80	60 - 112
Bis(2-chloroethyl)ether	<0.053		1.43	1.30		mg/Kg	☼	91	55 - 111
Bis(2-ethylhexyl) phthalate	<0.065	F1	1.43	3.33	E F1	mg/Kg	☼	233	72 - 131
4-Bromophenyl phenyl ether	<0.047		1.43	1.42		mg/Kg	☼	99	68 - 118
Butyl benzyl phthalate	<0.068	F1	1.43	3.13	E F1	mg/Kg	☼	219	71 - 129
Carbazole	<0.089		1.43	1.94		mg/Kg	☼	136	65 - 142
4-Chloroaniline	<0.17		1.43	0.706	J	mg/Kg	☼	49	30 - 150
4-Chloro-3-methylphenol	<0.12		1.43	1.41		mg/Kg	☼	99	65 - 122
2-Chloronaphthalene	<0.039		1.43	1.49		mg/Kg	☼	104	69 - 114
2-Chlorophenol	<0.061		1.43	1.43		mg/Kg	☼	100	64 - 110
4-Chlorophenyl phenyl ether	<0.042		1.43	1.25		mg/Kg	☼	87	62 - 119
Chrysene	0.073		1.43	1.33		mg/Kg	☼	88	63 - 120
Dibenz(a,h)anthracene	<0.0069	F1	1.43	0.951		mg/Kg	☼	67	64 - 131
Dibenzofuran	<0.042	F1	1.43	1.67	F1	mg/Kg	☼	117	66 - 115
1,2-Dichlorobenzene	<0.042		1.43	1.30		mg/Kg	☼	91	62 - 110
1,3-Dichlorobenzene	<0.040		1.43	1.24		mg/Kg	☼	86	60 - 110
1,4-Dichlorobenzene	<0.046		1.43	1.29		mg/Kg	☼	90	61 - 110
3,3'-Dichlorobenzidine	<0.050		1.43	0.637		mg/Kg	☼	45	35 - 128
2,4-Dichlorophenol	<0.084		1.43	1.33		mg/Kg	☼	93	58 - 120
Diethyl phthalate	<0.060	F1	1.43	2.18	F1	mg/Kg	☼	152	58 - 120
2,4-Dimethylphenol	<0.13		1.43	1.24		mg/Kg	☼	87	60 - 110
Dimethyl phthalate	<0.046		1.43	1.52		mg/Kg	☼	107	69 - 116
Di-n-butyl phthalate	<0.054	F1	1.43	2.27	F1	mg/Kg	☼	159	65 - 120
4,6-Dinitro-2-methylphenol	<0.29		2.86	0.757		mg/Kg	☼	26	10 - 110
2,4-Dinitrophenol	<0.63	F1	2.86	<0.63	F1	mg/Kg	☼	0	10 - 100
2,4-Dinitrotoluene	<0.057		1.43	1.65		mg/Kg	☼	116	69 - 124
2,6-Dinitrotoluene	<0.070		1.43	1.52		mg/Kg	☼	107	70 - 123
Di-n-octyl phthalate	<0.058		1.43	1.42		mg/Kg	☼	99	68 - 134

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-167784-1 MS

Matrix: Solid

Analysis Batch: 498806

Client Sample ID: 2815V-1-B05 (0-5)

Prep Type: Total/NA

Prep Batch: 498485

Analyte	Sample	Sample Qualifier	Spike Added	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result			Result	Qualifier					
Fluoranthene	0.090		1.43	1.49		mg/Kg	☼	98		62 - 120
Fluorene	<0.0050		1.43	1.57		mg/Kg	☼	110		62 - 120
Hexachlorobenzene	<0.0082		1.43	1.75		mg/Kg	☼	122		63 - 124
Hexachlorobutadiene	<0.056		1.43	1.12		mg/Kg	☼	79		56 - 120
Hexachlorocyclopentadiene	<0.20	F1	1.43	<0.20	F1	mg/Kg	☼	0		10 - 133
Hexachloroethane	<0.054	F1	1.43	0.701	F1	mg/Kg	☼	49		60 - 114
Indeno[1,2,3-cd]pyrene	0.046	F1	1.43	0.845	F1	mg/Kg	☼	56		68 - 130
Isophorone	<0.040		1.43	1.09		mg/Kg	☼	76		55 - 110
2-Methylnaphthalene	<0.0065		1.43	1.43		mg/Kg	☼	100		69 - 112
2-Methylphenol	<0.057		1.43	1.18		mg/Kg	☼	83		60 - 120
3 & 4 Methylphenol	<0.059		1.43	1.23		mg/Kg	☼	86		57 - 120
Naphthalene	<0.0055		1.43	1.46		mg/Kg	☼	102		63 - 110
2-Nitroaniline	<0.048		1.43	1.39		mg/Kg	☼	97		57 - 124
3-Nitroaniline	<0.11		1.43	0.838		mg/Kg	☼	59		40 - 122
4-Nitroaniline	<0.15		1.43	1.18		mg/Kg	☼	83		60 - 160
Nitrobenzene	<0.0089		1.43	1.23		mg/Kg	☼	86		60 - 116
2-Nitrophenol	<0.084		1.43	1.25		mg/Kg	☼	87		60 - 120
4-Nitrophenol	<0.34	F1	2.86	5.45	E F1	mg/Kg	☼	191		30 - 122
N-Nitrosodi-n-propylamine	<0.043		1.43	1.17		mg/Kg	☼	82		56 - 118
N-Nitrosodiphenylamine	<0.042	F1	1.43	1.67	F1	mg/Kg	☼	116		65 - 112
2,2'-oxybis[1-chloropropane]	<0.041		1.43	0.782		mg/Kg	☼	55		40 - 124
Pentachlorophenol	<0.57		2.86	0.893		mg/Kg	☼	31		13 - 112
Phenanthrene	0.040		1.43	1.75		mg/Kg	☼	120		62 - 120
Phenol	<0.079		1.43	1.27		mg/Kg	☼	89		56 - 122
Pyrene	0.14	F1	1.43	2.30	F1	mg/Kg	☼	151		61 - 128
1,2,4-Trichlorobenzene	<0.038		1.43	1.20		mg/Kg	☼	84		66 - 117
2,4,5-Trichlorophenol	<0.081		1.43	1.50		mg/Kg	☼	105		50 - 120
2,4,6-Trichlorophenol	<0.12		1.43	1.25		mg/Kg	☼	88		57 - 120

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	121		43 - 145
2-Fluorophenol	99		31 - 166
Nitrobenzene-d5	85		37 - 147
Phenol-d5	94		30 - 153
Terphenyl-d14	167	X	42 - 157
2,4,6-Tribromophenol	132		31 - 143

Lab Sample ID: 500-167784-1 MSD

Matrix: Solid

Analysis Batch: 498806

Client Sample ID: 2815V-1-B05 (0-5)

Prep Type: Total/NA

Prep Batch: 498485

Analyte	Sample	Sample Qualifier	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result			Result	Qualifier						RPD	
Acenaphthene	<0.0064		1.42	1.49		mg/Kg	☼	105		65 - 124	8	30
Acenaphthylene	0.0078	J	1.42	1.43		mg/Kg	☼	100		68 - 120	7	30
Anthracene	0.0082	J F1	1.42	1.54		mg/Kg	☼	108		70 - 114	11	30
Benzo[a]anthracene	0.061		1.42	1.37		mg/Kg	☼	92		67 - 122	8	30
Benzo[a]pyrene	0.088		1.42	1.29		mg/Kg	☼	85		65 - 133	8	30
Benzo[b]fluoranthene	0.13		1.42	1.71		mg/Kg	☼	111		69 - 129	11	30

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-167784-1 MSD

Matrix: Solid

Analysis Batch: 498806

Client Sample ID: 2815V-1-B05 (0-5)

Prep Type: Total/NA

Prep Batch: 498485

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier		Result	Qualifier				Limits		Limit
Benzo[g,h,i]perylene	0.043	F1	1.42	0.801	F1	mg/Kg	☼	53	72 - 131	5	30
Benzo[k]fluoranthene	0.038	F1	1.42	1.68		mg/Kg	☼	116	68 - 127	12	30
Bis(2-chloroethoxy)methane	<0.036		1.42	1.06		mg/Kg	☼	75	60 - 112	8	30
Bis(2-chloroethyl)ether	<0.053		1.42	1.21		mg/Kg	☼	85	55 - 111	7	30
Bis(2-ethylhexyl) phthalate	<0.065	F1	1.42	3.17	E F1	mg/Kg	☼	223	72 - 131	5	30
4-Bromophenyl phenyl ether	<0.047		1.42	1.29		mg/Kg	☼	91	68 - 118	9	30
Butyl benzyl phthalate	<0.068	F1	1.42	2.98	E F1	mg/Kg	☼	210	71 - 129	5	30
Carbazole	<0.089		1.42	1.75		mg/Kg	☼	123	65 - 142	10	30
4-Chloroaniline	<0.17		1.42	0.707	J	mg/Kg	☼	50	30 - 150	0	30
4-Chloro-3-methylphenol	<0.12		1.42	1.34		mg/Kg	☼	94	65 - 122	5	30
2-Chloronaphthalene	<0.039		1.42	1.38		mg/Kg	☼	97	69 - 114	7	30
2-Chlorophenol	<0.061		1.42	1.32		mg/Kg	☼	93	64 - 110	8	30
4-Chlorophenyl phenyl ether	<0.042		1.42	1.16		mg/Kg	☼	81	62 - 119	8	30
Chrysene	0.073		1.42	1.22		mg/Kg	☼	81	63 - 120	8	30
Dibenz(a,h)anthracene	<0.0069	F1	1.42	0.899	F1	mg/Kg	☼	63	64 - 131	6	30
Dibenzofuran	<0.042	F1	1.42	1.58		mg/Kg	☼	111	66 - 115	6	30
1,2-Dichlorobenzene	<0.042		1.42	1.18		mg/Kg	☼	83	62 - 110	10	30
1,3-Dichlorobenzene	<0.040		1.42	1.16		mg/Kg	☼	81	60 - 110	7	30
1,4-Dichlorobenzene	<0.046		1.42	1.17		mg/Kg	☼	82	61 - 110	10	30
3,3'-Dichlorobenzidine	<0.050		1.42	0.740		mg/Kg	☼	52	35 - 128	15	30
2,4-Dichlorophenol	<0.084		1.42	1.24		mg/Kg	☼	87	58 - 120	7	30
Diethyl phthalate	<0.060	F1	1.42	2.00	F1	mg/Kg	☼	141	58 - 120	9	30
2,4-Dimethylphenol	<0.13		1.42	1.18		mg/Kg	☼	83	60 - 110	5	30
Dimethyl phthalate	<0.046		1.42	1.41		mg/Kg	☼	99	69 - 116	8	30
Di-n-butyl phthalate	<0.054	F1	1.42	2.04	F1	mg/Kg	☼	143	65 - 120	11	30
4,6-Dinitro-2-methylphenol	<0.29		2.84	0.625	J	mg/Kg	☼	22	10 - 110	19	30
2,4-Dinitrophenol	<0.63	F1	2.84	<0.62	F1	mg/Kg	☼	0	10 - 100	NC	30
2,4-Dinitrotoluene	<0.057		1.42	1.50		mg/Kg	☼	106	69 - 124	9	30
2,6-Dinitrotoluene	<0.070		1.42	1.38		mg/Kg	☼	97	70 - 123	10	30
Di-n-octyl phthalate	<0.058		1.42	1.28		mg/Kg	☼	90	68 - 134	10	30
Fluoranthene	0.090		1.42	1.28		mg/Kg	☼	84	62 - 120	15	30
Fluorene	<0.0050		1.42	1.47		mg/Kg	☼	103	62 - 120	7	30
Hexachlorobenzene	<0.0082		1.42	1.57		mg/Kg	☼	110	63 - 124	11	30
Hexachlorobutadiene	<0.056		1.42	1.05		mg/Kg	☼	74	56 - 120	7	30
Hexachlorocyclopentadiene	<0.20	F1	1.42	<0.20	F1	mg/Kg	☼	0	10 - 133	NC	30
Hexachloroethane	<0.054	F1	1.42	0.646	F1	mg/Kg	☼	45	60 - 114	8	30
Indeno[1,2,3-cd]pyrene	0.046	F1	1.42	0.806	F1	mg/Kg	☼	53	68 - 130	5	30
Isophorone	<0.040		1.42	1.02		mg/Kg	☼	72	55 - 110	6	30
2-Methylnaphthalene	<0.0065		1.42	1.34		mg/Kg	☼	94	69 - 112	6	30
2-Methylphenol	<0.057		1.42	1.10		mg/Kg	☼	77	60 - 120	7	30
3 & 4 Methylphenol	<0.059		1.42	1.15		mg/Kg	☼	81	57 - 120	7	30
Naphthalene	<0.0055		1.42	1.33		mg/Kg	☼	94	63 - 110	9	30
2-Nitroaniline	<0.048		1.42	1.28		mg/Kg	☼	90	57 - 124	8	30
3-Nitroaniline	<0.11		1.42	0.751		mg/Kg	☼	53	40 - 122	11	30
4-Nitroaniline	<0.15		1.42	1.07		mg/Kg	☼	75	60 - 160	10	30
Nitrobenzene	<0.0089		1.42	1.12		mg/Kg	☼	79	60 - 116	9	30
2-Nitrophenol	<0.084		1.42	1.14		mg/Kg	☼	80	60 - 120	10	30
4-Nitrophenol	<0.34	F1	2.84	4.95	F1	mg/Kg	☼	174	30 - 122	10	30
N-Nitrosodi-n-propylamine	<0.043		1.42	1.07		mg/Kg	☼	76	56 - 118	8	30

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-167784-1 MSD

Matrix: Solid

Analysis Batch: 498806

Client Sample ID: 2815V-1-B05 (0-5)

Prep Type: Total/NA

Prep Batch: 498485

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier		Added	Result						
N-Nitrosodiphenylamine	<0.042	F1	1.42	1.52		mg/Kg	☼	107	65 - 112	9	30
2,2'-oxybis[1-chloropropane]	<0.041		1.42	0.717		mg/Kg	☼	50	40 - 124	9	30
Pentachlorophenol	<0.57		2.84	0.710		mg/Kg	☼	25	13 - 112	23	30
Phenanthrene	0.040		1.42	1.56		mg/Kg	☼	107	62 - 120	12	30
Phenol	<0.079		1.42	1.19		mg/Kg	☼	84	56 - 122	6	30
Pyrene	0.14	F1	1.42	2.09	F1	mg/Kg	☼	137	61 - 128	10	30
1,2,4-Trichlorobenzene	<0.038		1.42	1.09		mg/Kg	☼	76	66 - 117	10	30
2,4,5-Trichlorophenol	<0.081		1.42	1.40		mg/Kg	☼	99	50 - 120	7	30
2,4,6-Trichlorophenol	<0.12		1.42	1.16		mg/Kg	☼	82	57 - 120	8	30

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	115		43 - 145
2-Fluorophenol	94		31 - 166
Nitrobenzene-d5	80		37 - 147
Phenol-d5	88		30 - 153
Terphenyl-d14	164	X	42 - 157
2,4,6-Tribromophenol	126		31 - 143

Lab Sample ID: MB 500-499527/1-A

Matrix: Solid

Analysis Batch: 499586

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 499527

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
	Result	Qualifier								
Acenaphthene	<0.0060		0.033	0.0060	mg/Kg		08/13/19 19:02	08/14/19 12:46		1
Acenaphthylene	<0.0044		0.033	0.0044	mg/Kg		08/13/19 19:02	08/14/19 12:46		1
Anthracene	<0.0056		0.033	0.0056	mg/Kg		08/13/19 19:02	08/14/19 12:46		1
Benzo[a]anthracene	<0.0045		0.033	0.0045	mg/Kg		08/13/19 19:02	08/14/19 12:46		1
Benzo[a]pyrene	<0.0064		0.033	0.0064	mg/Kg		08/13/19 19:02	08/14/19 12:46		1
Benzo[b]fluoranthene	<0.0072		0.033	0.0072	mg/Kg		08/13/19 19:02	08/14/19 12:46		1
Benzo[g,h,i]perylene	<0.011		0.033	0.011	mg/Kg		08/13/19 19:02	08/14/19 12:46		1
Benzo[k]fluoranthene	<0.0098		0.033	0.0098	mg/Kg		08/13/19 19:02	08/14/19 12:46		1
Bis(2-chloroethoxy)methane	<0.034		0.17	0.034	mg/Kg		08/13/19 19:02	08/14/19 12:46		1
Bis(2-chloroethyl)ether	<0.050		0.17	0.050	mg/Kg		08/13/19 19:02	08/14/19 12:46		1
Bis(2-ethylhexyl) phthalate	<0.061		0.17	0.061	mg/Kg		08/13/19 19:02	08/14/19 12:46		1
4-Bromophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		08/13/19 19:02	08/14/19 12:46		1
Butyl benzyl phthalate	<0.063		0.17	0.063	mg/Kg		08/13/19 19:02	08/14/19 12:46		1
Carbazole	<0.083		0.17	0.083	mg/Kg		08/13/19 19:02	08/14/19 12:46		1
4-Chloroaniline	<0.16		0.67	0.16	mg/Kg		08/13/19 19:02	08/14/19 12:46		1
4-Chloro-3-methylphenol	<0.11		0.33	0.11	mg/Kg		08/13/19 19:02	08/14/19 12:46		1
2-Chloronaphthalene	<0.037		0.17	0.037	mg/Kg		08/13/19 19:02	08/14/19 12:46		1
2-Chlorophenol	<0.057		0.17	0.057	mg/Kg		08/13/19 19:02	08/14/19 12:46		1
4-Chlorophenyl phenyl ether	<0.039		0.17	0.039	mg/Kg		08/13/19 19:02	08/14/19 12:46		1
Chrysene	<0.0091		0.033	0.0091	mg/Kg		08/13/19 19:02	08/14/19 12:46		1
Dibenz(a,h)anthracene	<0.0064		0.033	0.0064	mg/Kg		08/13/19 19:02	08/14/19 12:46		1
Dibenzofuran	<0.039		0.17	0.039	mg/Kg		08/13/19 19:02	08/14/19 12:46		1
1,2-Dichlorobenzene	<0.040		0.17	0.040	mg/Kg		08/13/19 19:02	08/14/19 12:46		1
1,3-Dichlorobenzene	<0.037		0.17	0.037	mg/Kg		08/13/19 19:02	08/14/19 12:46		1
1,4-Dichlorobenzene	<0.043		0.17	0.043	mg/Kg		08/13/19 19:02	08/14/19 12:46		1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-499527/1-A
Matrix: Solid
Analysis Batch: 499586

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 499527

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.047		0.17	0.047	mg/Kg		08/13/19 19:02	08/14/19 12:46	1
2,4-Dichlorophenol	<0.079		0.33	0.079	mg/Kg		08/13/19 19:02	08/14/19 12:46	1
Diethyl phthalate	<0.056		0.17	0.056	mg/Kg		08/13/19 19:02	08/14/19 12:46	1
2,4-Dimethylphenol	<0.13		0.33	0.13	mg/Kg		08/13/19 19:02	08/14/19 12:46	1
Dimethyl phthalate	<0.043		0.17	0.043	mg/Kg		08/13/19 19:02	08/14/19 12:46	1
Di-n-butyl phthalate	<0.051		0.17	0.051	mg/Kg		08/13/19 19:02	08/14/19 12:46	1
4,6-Dinitro-2-methylphenol	<0.27		0.67	0.27	mg/Kg		08/13/19 19:02	08/14/19 12:46	1
2,4-Dinitrophenol	<0.59		0.67	0.59	mg/Kg		08/13/19 19:02	08/14/19 12:46	1
2,4-Dinitrotoluene	<0.053		0.17	0.053	mg/Kg		08/13/19 19:02	08/14/19 12:46	1
2,6-Dinitrotoluene	<0.065		0.17	0.065	mg/Kg		08/13/19 19:02	08/14/19 12:46	1
Di-n-octyl phthalate	<0.054		0.17	0.054	mg/Kg		08/13/19 19:02	08/14/19 12:46	1
Fluoranthene	<0.0062		0.033	0.0062	mg/Kg		08/13/19 19:02	08/14/19 12:46	1
Fluorene	<0.0047		0.033	0.0047	mg/Kg		08/13/19 19:02	08/14/19 12:46	1
Hexachlorobenzene	<0.0077		0.067	0.0077	mg/Kg		08/13/19 19:02	08/14/19 12:46	1
Hexachlorobutadiene	<0.052		0.17	0.052	mg/Kg		08/13/19 19:02	08/14/19 12:46	1
Hexachlorocyclopentadiene	<0.19		0.67	0.19	mg/Kg		08/13/19 19:02	08/14/19 12:46	1
Hexachloroethane	<0.051		0.17	0.051	mg/Kg		08/13/19 19:02	08/14/19 12:46	1
Indeno[1,2,3-cd]pyrene	<0.0086		0.033	0.0086	mg/Kg		08/13/19 19:02	08/14/19 12:46	1
Isophorone	<0.037		0.17	0.037	mg/Kg		08/13/19 19:02	08/14/19 12:46	1
2-Methylnaphthalene	<0.0061		0.067	0.0061	mg/Kg		08/13/19 19:02	08/14/19 12:46	1
2-Methylphenol	<0.053		0.17	0.053	mg/Kg		08/13/19 19:02	08/14/19 12:46	1
3 & 4 Methylphenol	<0.055		0.17	0.055	mg/Kg		08/13/19 19:02	08/14/19 12:46	1
Naphthalene	<0.0051		0.033	0.0051	mg/Kg		08/13/19 19:02	08/14/19 12:46	1
2-Nitroaniline	<0.045		0.17	0.045	mg/Kg		08/13/19 19:02	08/14/19 12:46	1
3-Nitroaniline	<0.10		0.33	0.10	mg/Kg		08/13/19 19:02	08/14/19 12:46	1
4-Nitroaniline	<0.14		0.33	0.14	mg/Kg		08/13/19 19:02	08/14/19 12:46	1
Nitrobenzene	<0.0083		0.033	0.0083	mg/Kg		08/13/19 19:02	08/14/19 12:46	1
2-Nitrophenol	<0.079		0.33	0.079	mg/Kg		08/13/19 19:02	08/14/19 12:46	1
4-Nitrophenol	<0.32		0.67	0.32	mg/Kg		08/13/19 19:02	08/14/19 12:46	1
N-Nitrosodi-n-propylamine	<0.041		0.067	0.041	mg/Kg		08/13/19 19:02	08/14/19 12:46	1
N-Nitrosodiphenylamine	<0.039		0.17	0.039	mg/Kg		08/13/19 19:02	08/14/19 12:46	1
2,2'-oxybis[1-chloropropane]	<0.039		0.17	0.039	mg/Kg		08/13/19 19:02	08/14/19 12:46	1
Pentachlorophenol	<0.53		0.67	0.53	mg/Kg		08/13/19 19:02	08/14/19 12:46	1
Phenanthrene	<0.0046		0.033	0.0046	mg/Kg		08/13/19 19:02	08/14/19 12:46	1
Phenol	<0.074		0.17	0.074	mg/Kg		08/13/19 19:02	08/14/19 12:46	1
Pyrene	<0.0066		0.033	0.0066	mg/Kg		08/13/19 19:02	08/14/19 12:46	1
1,2,4-Trichlorobenzene	<0.036		0.17	0.036	mg/Kg		08/13/19 19:02	08/14/19 12:46	1
2,4,5-Trichlorophenol	<0.076		0.33	0.076	mg/Kg		08/13/19 19:02	08/14/19 12:46	1
2,4,6-Trichlorophenol	<0.11		0.33	0.11	mg/Kg		08/13/19 19:02	08/14/19 12:46	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	81		43 - 145	08/13/19 19:02	08/14/19 12:46	1
2-Fluorophenol	100		31 - 166	08/13/19 19:02	08/14/19 12:46	1
Nitrobenzene-d5	72		37 - 147	08/13/19 19:02	08/14/19 12:46	1
Phenol-d5	93		30 - 153	08/13/19 19:02	08/14/19 12:46	1
Terphenyl-d14	118		42 - 157	08/13/19 19:02	08/14/19 12:46	1
2,4,6-Tribromophenol	56		31 - 143	08/13/19 19:02	08/14/19 12:46	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-499527/2-A

Matrix: Solid

Analysis Batch: 499586

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 499527

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1.33	1.07		mg/Kg		80	65 - 124
Acenaphthylene	1.33	1.01		mg/Kg		76	68 - 120
Anthracene	1.33	1.12		mg/Kg		84	70 - 114
Benzo[a]anthracene	1.33	1.11		mg/Kg		83	67 - 122
Benzo[a]pyrene	1.33	1.05		mg/Kg		79	65 - 133
Benzo[b]fluoranthene	1.33	1.05		mg/Kg		79	69 - 129
Benzo[g,h,i]perylene	1.33	1.13		mg/Kg		84	72 - 131
Benzo[k]fluoranthene	1.33	1.02		mg/Kg		76	68 - 127
Bis(2-chloroethoxy)methane	1.33	0.921		mg/Kg		69	60 - 112
Bis(2-chloroethyl)ether	1.33	0.822		mg/Kg		62	55 - 111
Bis(2-ethylhexyl) phthalate	1.33	1.12		mg/Kg		84	72 - 131
4-Bromophenyl phenyl ether	1.33	0.999		mg/Kg		75	68 - 118
Butyl benzyl phthalate	1.33	1.02		mg/Kg		76	71 - 129
Carbazole	1.33	1.11		mg/Kg		83	65 - 142
4-Chloroaniline	1.33	0.871		mg/Kg		65	30 - 150
4-Chloro-3-methylphenol	1.33	0.986		mg/Kg		74	65 - 122
2-Chloronaphthalene	1.33	0.984		mg/Kg		74	69 - 114
2-Chlorophenol	1.33	0.964		mg/Kg		72	64 - 110
4-Chlorophenyl phenyl ether	1.33	0.983		mg/Kg		74	62 - 119
Chrysene	1.33	0.989		mg/Kg		74	63 - 120
Dibenz(a,h)anthracene	1.33	1.14		mg/Kg		85	64 - 131
Dibenzofuran	1.33	1.01		mg/Kg		76	66 - 115
1,2-Dichlorobenzene	1.33	0.885		mg/Kg		66	62 - 110
1,3-Dichlorobenzene	1.33	0.911		mg/Kg		68	65 - 124
1,4-Dichlorobenzene	1.33	0.915		mg/Kg		69	61 - 110
3,3'-Dichlorobenzidine	1.33	0.762		mg/Kg		57	35 - 128
2,4-Dichlorophenol	1.33	0.969		mg/Kg		73	58 - 120
Diethyl phthalate	1.33	1.11		mg/Kg		83	58 - 120
2,4-Dimethylphenol	1.33	0.945		mg/Kg		71	60 - 110
Dimethyl phthalate	1.33	0.956		mg/Kg		72	69 - 116
Di-n-butyl phthalate	1.33	1.08		mg/Kg		81	65 - 120
4,6-Dinitro-2-methylphenol	2.67	0.987		mg/Kg		37	10 - 110
2,4-Dinitrophenol	2.67	0.729		mg/Kg		27	10 - 100
2,4-Dinitrotoluene	1.33	1.05		mg/Kg		79	69 - 124
2,6-Dinitrotoluene	1.33	0.991		mg/Kg		74	70 - 123
Di-n-octyl phthalate	1.33	1.08		mg/Kg		81	68 - 134
Fluoranthene	1.33	1.09		mg/Kg		82	62 - 120
Fluorene	1.33	1.03		mg/Kg		77	62 - 120
Hexachlorobenzene	1.33	1.11		mg/Kg		83	63 - 124
Hexachlorobutadiene	1.33	0.990		mg/Kg		74	56 - 120
Hexachlorocyclopentadiene	1.33	0.205	J	mg/Kg		15	10 - 133
Hexachloroethane	1.33	0.940		mg/Kg		70	60 - 114
Indeno[1,2,3-cd]pyrene	1.33	1.12		mg/Kg		84	68 - 130
Isophorone	1.33	0.906		mg/Kg		68	55 - 110
2-Methylnaphthalene	1.33	1.00		mg/Kg		75	69 - 112
2-Methylphenol	1.33	0.971		mg/Kg		73	60 - 120
3 & 4 Methylphenol	1.33	0.944		mg/Kg		71	57 - 120
Naphthalene	1.33	0.983		mg/Kg		74	63 - 110

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-499527/2-A
Matrix: Solid
Analysis Batch: 499586

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 499527

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Nitroaniline	1.33	1.01		mg/Kg		76	57 - 124
3-Nitroaniline	1.33	0.766		mg/Kg		57	40 - 122
4-Nitroaniline	1.33	0.860		mg/Kg		65	60 - 160
Nitrobenzene	1.33	0.945		mg/Kg		71	60 - 116
2-Nitrophenol	1.33	0.990		mg/Kg		74	60 - 120
4-Nitrophenol	2.67	1.61		mg/Kg		60	30 - 122
N-Nitrosodi-n-propylamine	1.33	0.971		mg/Kg		73	56 - 118
N-Nitrosodiphenylamine	1.33	1.03		mg/Kg		78	65 - 112
2,2'-oxybis[1-chloropropane]	1.33	0.973		mg/Kg		73	40 - 124
Pentachlorophenol	2.67	1.11		mg/Kg		42	13 - 112
Phenanthrene	1.33	1.10		mg/Kg		82	62 - 120
Phenol	1.33	1.04		mg/Kg		78	56 - 122
Pyrene	1.33	1.01		mg/Kg		76	61 - 128
1,2,4-Trichlorobenzene	1.33	0.979		mg/Kg		73	66 - 117
2,4,5-Trichlorophenol	1.33	1.11		mg/Kg		84	50 - 120
2,4,6-Trichlorophenol	1.33	0.944		mg/Kg		71	57 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	95		43 - 145
2-Fluorophenol	92		31 - 166
Nitrobenzene-d5	70		37 - 147
Phenol-d5	82		30 - 153
Terphenyl-d14	93		42 - 157
2,4,6-Tribromophenol	72		31 - 143

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-498493/1-A
Matrix: Solid
Analysis Batch: 498664

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 498493

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.39		2.0	0.39	mg/Kg		08/07/19 07:49	08/08/19 00:21	1
Arsenic	<0.34		1.0	0.34	mg/Kg		08/07/19 07:49	08/08/19 00:21	1
Barium	<0.11		1.0	0.11	mg/Kg		08/07/19 07:49	08/08/19 00:21	1
Beryllium	<0.093		0.40	0.093	mg/Kg		08/07/19 07:49	08/08/19 00:21	1
Cadmium	0.0414	J	0.20	0.036	mg/Kg		08/07/19 07:49	08/08/19 00:21	1
Chromium	<0.50		1.0	0.50	mg/Kg		08/07/19 07:49	08/08/19 00:21	1
Cobalt	<0.13		0.50	0.13	mg/Kg		08/07/19 07:49	08/08/19 00:21	1
Copper	<0.28		1.0	0.28	mg/Kg		08/07/19 07:49	08/08/19 00:21	1
Iron	<10		20	10	mg/Kg		08/07/19 07:49	08/08/19 00:21	1
Lead	<0.23		0.50	0.23	mg/Kg		08/07/19 07:49	08/08/19 00:21	1
Magnesium	6.63	J	10	5.0	mg/Kg		08/07/19 07:49	08/08/19 00:21	1
Calcium	11.3	J	20	3.4	mg/Kg		08/07/19 07:49	08/08/19 00:21	1
Manganese	<0.15		1.0	0.15	mg/Kg		08/07/19 07:49	08/08/19 00:21	1
Nickel	<0.29		1.0	0.29	mg/Kg		08/07/19 07:49	08/08/19 00:21	1
Selenium	<0.59		1.0	0.59	mg/Kg		08/07/19 07:49	08/08/19 00:21	1
Silver	<0.13		0.50	0.13	mg/Kg		08/07/19 07:49	08/08/19 00:21	1
Thallium	<0.50		1.0	0.50	mg/Kg		08/07/19 07:49	08/08/19 00:21	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 500-498493/1-A
Matrix: Solid
Analysis Batch: 498664

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 498493

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	<0.12		0.50	0.12	mg/Kg		08/07/19 07:49	08/08/19 00:21	1
Zinc	<0.88		2.0	0.88	mg/Kg		08/07/19 07:49	08/08/19 00:21	1
Potassium	<18		50	18	mg/Kg		08/07/19 07:49	08/08/19 00:21	1
Sodium	<15		100	15	mg/Kg		08/07/19 07:49	08/08/19 00:21	1

Lab Sample ID: LCS 500-498493/2-A
Matrix: Solid
Analysis Batch: 498664

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 498493

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	50.0	46.5		mg/Kg		93	80 - 120
Arsenic	10.0	9.17		mg/Kg		92	80 - 120
Barium	200	201		mg/Kg		101	80 - 120
Beryllium	5.00	4.83		mg/Kg		97	80 - 120
Cadmium	5.00	4.70		mg/Kg		94	80 - 120
Chromium	20.0	19.8		mg/Kg		99	80 - 120
Cobalt	50.0	49.2		mg/Kg		98	80 - 120
Copper	25.0	25.3		mg/Kg		101	80 - 120
Iron	100	100		mg/Kg		100	80 - 120
Lead	10.0	9.37		mg/Kg		94	80 - 120
Magnesium	1000	939		mg/Kg		94	80 - 120
Calcium	1000	959		mg/Kg		96	80 - 120
Manganese	50.0	48.1		mg/Kg		96	80 - 120
Nickel	50.0	48.6		mg/Kg		97	80 - 120
Selenium	10.0	8.77		mg/Kg		88	80 - 120
Silver	5.00	4.59		mg/Kg		92	80 - 120
Thallium	10.0	9.12		mg/Kg		91	80 - 120
Vanadium	50.0	49.2		mg/Kg		98	80 - 120
Zinc	50.0	47.5		mg/Kg		95	80 - 120
Potassium	1000	940		mg/Kg		94	80 - 120
Sodium	1000	983		mg/Kg		98	80 - 120

Lab Sample ID: 500-167784-1 MS
Matrix: Solid
Analysis Batch: 498664

Client Sample ID: 2815V-1-B05 (0-5)
Prep Type: Total/NA
Prep Batch: 498493

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	0.62	J F1	26.7	10.0	F1	mg/Kg	☼	35	75 - 125
Arsenic	3.7		5.34	8.71		mg/Kg	☼	94	75 - 125
Barium	33		107	130		mg/Kg	☼	91	75 - 125
Beryllium	0.28		2.67	2.54		mg/Kg	☼	84	75 - 125
Cadmium	0.29	B	2.67	2.85		mg/Kg	☼	96	75 - 125
Chromium	6.7		10.7	18.0		mg/Kg	☼	106	75 - 125
Cobalt	4.3		26.7	31.1		mg/Kg	☼	100	75 - 125
Copper	19	F1	13.3	24.8	F1	mg/Kg	☼	41	75 - 125
Iron	6900		53.4	6410	4	mg/Kg	☼	-873	75 - 125
Lead	60		5.34	61.9	4	mg/Kg	☼	40	75 - 125
Manganese	260		26.7	236	4	mg/Kg	☼	-76	75 - 125
Nickel	9.2		26.7	34.2		mg/Kg	☼	94	75 - 125

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-167784-1 MS

Matrix: Solid

Analysis Batch: 498664

Client Sample ID: 2815V-1-B05 (0-5)

Prep Type: Total/NA

Prep Batch: 498493

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier		Result	Qualifier					
Selenium	0.34	J	5.34	4.85		mg/Kg	☼	84		75 - 125
Silver	1.0		2.67	3.83		mg/Kg	☼	105		75 - 125
Thallium	<0.25		5.34	4.14		mg/Kg	☼	78		75 - 125
Vanadium	9.9		26.7	32.4		mg/Kg	☼	84		75 - 125
Zinc	50	F1	26.7	77.7		mg/Kg	☼	105		75 - 125
Potassium	970	F1	534	2010	F1	mg/Kg	☼	196		75 - 125
Sodium	150		534	659		mg/Kg	☼	96		75 - 125

Lab Sample ID: 500-167784-1 MS

Matrix: Solid

Analysis Batch: 498805

Client Sample ID: 2815V-1-B05 (0-5)

Prep Type: Total/NA

Prep Batch: 498493

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier		Result	Qualifier					
Magnesium	89000	B	534	95400	4	mg/Kg	☼	1246		75 - 125
Calcium	130000	B	534	140000	4	mg/Kg	☼	1433		75 - 125

Lab Sample ID: 500-167784-1 MSD

Matrix: Solid

Analysis Batch: 498664

Client Sample ID: 2815V-1-B05 (0-5)

Prep Type: Total/NA

Prep Batch: 498493

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier							
Antimony	0.62	J F1	25.9	8.39	F1	mg/Kg	☼	30		75 - 125	18	20
Arsenic	3.7		5.18	8.56		mg/Kg	☼	94		75 - 125	2	20
Barium	33		104	133		mg/Kg	☼	97		75 - 125	3	20
Beryllium	0.28		2.59	2.57		mg/Kg	☼	88		75 - 125	1	20
Cadmium	0.29	B	2.59	2.76		mg/Kg	☼	95		75 - 125	3	20
Chromium	6.7		10.4	16.1		mg/Kg	☼	91		75 - 125	11	20
Cobalt	4.3		25.9	30.4		mg/Kg	☼	101		75 - 125	2	20
Copper	19	F1	12.9	29.0	F1	mg/Kg	☼	74		75 - 125	15	20
Iron	6900		51.8	7460	4	mg/Kg	☼	1131		75 - 125	15	20
Lead	60		5.18	66.9	4	mg/Kg	☼	139		75 - 125	8	20
Manganese	260		25.9	258	4	mg/Kg	☼	4		75 - 125	9	20
Nickel	9.2		25.9	34.1		mg/Kg	☼	96		75 - 125	0	20
Selenium	0.34	J	5.18	4.44		mg/Kg	☼	79		75 - 125	9	20
Silver	1.0		2.59	3.81		mg/Kg	☼	108		75 - 125	1	20
Thallium	<0.25		5.18	4.16		mg/Kg	☼	80		75 - 125	1	20
Vanadium	9.9		25.9	32.9		mg/Kg	☼	89		75 - 125	2	20
Zinc	50	F1	25.9	83.3	F1	mg/Kg	☼	130		75 - 125	7	20
Potassium	970	F1	518	2170	F1	mg/Kg	☼	232		75 - 125	8	20
Sodium	150		518	654		mg/Kg	☼	98		75 - 125	1	20

Lab Sample ID: 500-167784-1 MSD

Matrix: Solid

Analysis Batch: 498805

Client Sample ID: 2815V-1-B05 (0-5)

Prep Type: Total/NA

Prep Batch: 498493

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier							
Magnesium	89000	B	518	85600	4	mg/Kg	☼	-607		75 - 125	11	20
Calcium	130000	B	518	125000	4	mg/Kg	☼	-1371		75 - 125	11	20

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-167784-1 DU
Matrix: Solid
Analysis Batch: 498664

Client Sample ID: 2815V-1-B05 (0-5)
Prep Type: Total/NA
Prep Batch: 498493

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Antimony	0.62	J F1	0.591	J	mg/Kg	☼	5	20
Arsenic	3.7		4.38		mg/Kg	☼	16	20
Barium	33		34.2		mg/Kg	☼	5	20
Beryllium	0.28		0.251		mg/Kg	☼	12	20
Cadmium	0.29	B	0.297		mg/Kg	☼	2	20
Chromium	6.7		5.96		mg/Kg	☼	12	20
Cobalt	4.3		4.84		mg/Kg	☼	13	20
Copper	19	F1	18.6		mg/Kg	☼	4	20
Iron	6900		6550		mg/Kg	☼	5	20
Lead	60		51.1		mg/Kg	☼	16	20
Manganese	260		356	F3	mg/Kg	☼	32	20
Nickel	9.2		9.71		mg/Kg	☼	5	20
Selenium	0.34	J	<0.30		mg/Kg	☼	NC	20
Silver	1.0		1.03		mg/Kg	☼	2	20
Thallium	<0.25		<0.26		mg/Kg	☼	NC	20
Vanadium	9.9		8.62		mg/Kg	☼	14	20
Zinc	50	F1	46.0		mg/Kg	☼	8	20
Potassium	970	F1	869		mg/Kg	☼	11	20
Sodium	150		137		mg/Kg	☼	6	20

Lab Sample ID: 500-167784-1 DU
Matrix: Solid
Analysis Batch: 498805

Client Sample ID: 2815V-1-B05 (0-5)
Prep Type: Total/NA
Prep Batch: 498493

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Magnesium	89000	B	91800		mg/Kg	☼	3	20
Calcium	130000	B	135000		mg/Kg	☼	2	20

Lab Sample ID: LCS 500-498825/2-A
Matrix: Solid
Analysis Batch: 499129

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 498825
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Manganese	0.500	0.484		mg/L		97	80 - 120

Lab Sample ID: LCS 500-498827/2-A
Matrix: Solid
Analysis Batch: 499130

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 498827
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Barium	0.500	0.486	J	mg/L		97	80 - 120
Beryllium	0.0500	0.0471		mg/L		94	80 - 120
Cadmium	0.0500	0.0475		mg/L		95	80 - 120
Chromium	0.200	0.193		mg/L		97	80 - 120
Cobalt	0.500	0.484		mg/L		97	80 - 120
Copper	0.250	0.246		mg/L		99	80 - 120
Iron	1.00	1.04		mg/L		104	80 - 120

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-498827/2-A
Matrix: Solid
Analysis Batch: 499130

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 498827

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Lead	0.100	0.0947		mg/L		95	80 - 120
Magnesium	10.0	9.31		mg/L		93	80 - 120
Calcium	10.0	9.26		mg/L		93	80 - 120
Manganese	0.500	0.477		mg/L		95	80 - 120
Nickel	0.500	0.481		mg/L		96	80 - 120
Selenium	0.100	0.0817		mg/L		82	80 - 120
Silver	0.0500	0.0457		mg/L		91	80 - 120
Vanadium	0.500	0.483		mg/L		97	80 - 120
Zinc	0.500	0.468	J	mg/L		94	80 - 120
Potassium	10.0	10.1		mg/L		101	80 - 120

Lab Sample ID: LB 500-498602/1-B
Matrix: Solid
Analysis Batch: 499130

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 498827

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/08/19 14:42	08/10/19 06:54	1
Barium	<0.050		0.50	0.050	mg/L		08/08/19 14:42	08/10/19 06:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/08/19 14:42	08/10/19 06:54	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/08/19 14:42	08/10/19 06:54	1
Chromium	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 06:54	1
Cobalt	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 06:54	1
Copper	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 06:54	1
Iron	<0.20		0.40	0.20	mg/L		08/08/19 14:42	08/10/19 06:54	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/08/19 14:42	08/10/19 06:54	1
Magnesium	<0.50		2.5	0.50	mg/L		08/08/19 14:42	08/10/19 06:54	1
Calcium	<0.50		5.0	0.50	mg/L		08/08/19 14:42	08/10/19 06:54	1
Manganese	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 06:54	1
Nickel	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 06:54	1
Selenium	<0.020		0.050	0.020	mg/L		08/08/19 14:42	08/10/19 06:54	1
Silver	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 06:54	1
Vanadium	<0.010		0.025	0.010	mg/L		08/08/19 14:42	08/10/19 06:54	1
Zinc	<0.020		0.50	0.020	mg/L		08/08/19 14:42	08/10/19 06:54	1
Potassium	<0.50		2.5	0.50	mg/L		08/08/19 14:42	08/10/19 06:54	1

Lab Sample ID: 500-167784-15 MS
Matrix: Solid
Analysis Batch: 499130

Client Sample ID: 2815V-1-B10 (0-4)
Prep Type: TCLP
Prep Batch: 498827

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Arsenic	<0.010		0.100	0.114		mg/L		114	75 - 125
Barium	0.40	J	0.500	0.906		mg/L		101	75 - 125
Beryllium	<0.0040		0.0500	0.0519		mg/L		104	75 - 125
Cadmium	0.0037	J	0.0500	0.0591		mg/L		111	75 - 125
Chromium	<0.010		0.200	0.192		mg/L		96	75 - 125
Cobalt	<0.010		0.500	0.541		mg/L		108	75 - 125
Copper	<0.010		0.250	0.289		mg/L		116	75 - 125
Iron	<0.20		1.00	0.993		mg/L		99	75 - 125
Lead	<0.0075		0.100	0.106		mg/L		106	75 - 125

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-167784-15 MS
Matrix: Solid
Analysis Batch: 499130

Client Sample ID: 2815V-1-B10 (0-4)
Prep Type: TCLP
Prep Batch: 498827

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	%Rec.	
	Result	Qualifier		Result	Qualifier				Limits	Limits
Magnesium	110		10.0	125	4	mg/L		145	75 - 125	
Calcium	280		10.0	300	4	mg/L		199	75 - 125	
Manganese	0.31		0.500	0.803		mg/L		98	75 - 125	
Nickel	0.011	J	0.500	0.540		mg/L		106	75 - 125	
Selenium	<0.020		0.100	0.105		mg/L		105	75 - 125	
Silver	<0.010		0.0500	0.0581		mg/L		116	75 - 125	
Vanadium	<0.010		0.500	0.498		mg/L		100	75 - 125	
Zinc	0.083	J	0.500	0.655		mg/L		114	75 - 125	
Potassium	3.2		10.0	13.8		mg/L		106	75 - 125	

Lab Sample ID: 500-167784-15 DU
Matrix: Solid
Analysis Batch: 499130

Client Sample ID: 2815V-1-B10 (0-4)
Prep Type: TCLP
Prep Batch: 498827

Analyte	Sample	Sample	DU		Unit	D	RPD	RPD	
	Result	Qualifier	Result	Qualifier				RPD	Limit
Arsenic	<0.010		<0.010		mg/L		NC	20	
Barium	0.40	J	0.399	J	mg/L		0.2	20	
Beryllium	<0.0040		<0.0040		mg/L		NC	20	
Cadmium	0.0037	J	0.00340	J	mg/L		8	20	
Chromium	<0.010		<0.010		mg/L		NC	20	
Cobalt	<0.010		<0.010		mg/L		NC	20	
Copper	<0.010		<0.010		mg/L		NC	20	
Iron	<0.20		<0.20		mg/L		NC	20	
Lead	<0.0075		<0.0075		mg/L		NC	20	
Magnesium	110		109		mg/L		0.7	20	
Calcium	280		274		mg/L		2	20	
Manganese	0.31		0.306		mg/L		2	20	
Nickel	0.011	J	0.0101	J	mg/L		9	20	
Selenium	<0.020		<0.020		mg/L		NC	20	
Silver	<0.010		<0.010		mg/L		NC	20	
Vanadium	<0.010		<0.010		mg/L		NC	20	
Zinc	0.083	J	0.0799	J	mg/L		4	20	
Potassium	3.2		3.22		mg/L		2	20	

Lab Sample ID: LB 500-498601/1-B
Matrix: Solid
Analysis Batch: 499129

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 498825

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	<0.0075		0.0075	0.0075	mg/L		08/08/19 14:40	08/09/19 21:50	1
Manganese	<0.010		0.025	0.010	mg/L		08/08/19 14:40	08/09/19 21:50	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-498827/2-A
Matrix: Solid
Analysis Batch: 499204

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 498827

Analyte	Spike	LCS LCS		Unit	D	%Rec	%Rec.	
		Added	Result				Qualifier	Limits
Antimony	0.500	0.509		mg/L		102	80 - 120	

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-498827/2-A
Matrix: Solid
Analysis Batch: 499204

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 498827
%Rec. Limits

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Thallium	0.100	0.102		mg/L		102	80 - 120

Lab Sample ID: LB 500-498602/1-B
Matrix: Solid
Analysis Batch: 499204

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 498827

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/08/19 14:42	08/09/19 13:46	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/08/19 14:42	08/09/19 13:46	1

Lab Sample ID: 500-167784-15 MS
Matrix: Solid
Analysis Batch: 499204

Client Sample ID: 2815V-1-B10 (0-4)
Prep Type: TCLP
Prep Batch: 498827
%Rec. Limits

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	<0.0060		0.500	0.547		mg/L		109	75 - 125
Thallium	<0.0020		0.100	0.110		mg/L		110	75 - 125

Lab Sample ID: 500-167784-15 DU
Matrix: Solid
Analysis Batch: 499204

Client Sample ID: 2815V-1-B10 (0-4)
Prep Type: TCLP
Prep Batch: 498827
RPD Limit

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Antimony	<0.0060		<0.0060		mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-498963/12-A
Matrix: Solid
Analysis Batch: 499072

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 498963

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/09/19 10:05	08/09/19 16:00	1

Lab Sample ID: LCS 500-498963/13-A
Matrix: Solid
Analysis Batch: 499072

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 498963
%Rec. Limits

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00191		mg/L		96	80 - 120

Lab Sample ID: LB 500-498602/1-C
Matrix: Solid
Analysis Batch: 499072

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 498963

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/09/19 10:05	08/09/19 16:04	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Method: 7470A - TCLP Mercury (Continued)

Lab Sample ID: 500-167784-9 MS
Matrix: Solid
Analysis Batch: 499072

Client Sample ID: 2815V-1-B07 (10-13.5)
Prep Type: TCLP
Prep Batch: 498963

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00020		0.00100	0.00104		mg/L		104	75 - 125

Lab Sample ID: 500-167784-9 DU
Matrix: Solid
Analysis Batch: 499072

Client Sample ID: 2815V-1-B07 (10-13.5)
Prep Type: TCLP
Prep Batch: 498963

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	<0.00020		<0.00020		mg/L		NC	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-498513/12-A
Matrix: Solid
Analysis Batch: 498761

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 498513

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		08/07/19 11:20	08/08/19 08:07	1

Lab Sample ID: LCS 500-498513/13-A
Matrix: Solid
Analysis Batch: 498761

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 498513

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.162		mg/Kg		97	80 - 120

Lab Sample ID: MB 500-498521/12-A
Matrix: Solid
Analysis Batch: 498761

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 498521

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		08/07/19 11:20	08/08/19 09:09	1

Lab Sample ID: LCS 500-498521/13-A
Matrix: Solid
Analysis Batch: 498761

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 498521

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.160		mg/Kg		96	80 - 120

Method: 9014 - Cyanide

Lab Sample ID: MB 500-499858/1-A
Matrix: Solid
Analysis Batch: 499958

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 499858

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.25		0.50	0.25	mg/Kg		08/15/19 10:25	08/15/19 15:05	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Method: 9014 - Cyanide (Continued)

Lab Sample ID: HLCS 500-499858/2-A
Matrix: Solid
Analysis Batch: 499958

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 499858
%Rec.

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	20.0	19.4		mg/Kg		97	90 - 110

Lab Sample ID: LCS 500-499858/3-A
Matrix: Solid
Analysis Batch: 499958

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 499858
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	5.00	5.28		mg/Kg		106	85 - 115

Lab Sample ID: LLCS 500-499858/4-A
Matrix: Solid
Analysis Batch: 499958

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 499858
%Rec.

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	2.00	1.78		mg/Kg		89	75 - 125

Method: 9045D - pH

Lab Sample ID: 500-167784-4 DU
Matrix: Solid
Analysis Batch: 498341

Client Sample ID: 2815V-1-B06 (0-5)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	8.6		8.6		SU		0.7	

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B05 (0-5)

Lab Sample ID: 500-167784-1

Date Collected: 08/05/19 09:35

Matrix: Solid

Date Received: 08/05/19 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			498602	08/07/19 12:25	GCA	TAL CHI
TCLP	Prep	3010A			498827	08/08/19 14:42	BDE	TAL CHI
TCLP	Analysis	6010B		1	499130	08/10/19 07:02	JEF	TAL CHI
TCLP	Leach	1311			498602	08/07/19 12:25	GCA	TAL CHI
TCLP	Prep	3010A			498827	08/08/19 14:42	BDE	TAL CHI
TCLP	Analysis	6020A		1	499204	08/09/19 13:54	ASF	TAL CHI
TCLP	Leach	1311			498602	08/07/19 12:25	GCA	TAL CHI
TCLP	Prep	7470A			498963	08/09/19 10:05	MJG	TAL CHI
TCLP	Analysis	7470A		1	499072	08/09/19 16:11	MJG	TAL CHI
Total/NA	Analysis	9045D		1	498341		JJB	TAL CHI
					(Start)	08/06/19 13:00		
					(End)	08/06/19 13:04		
Total/NA	Analysis	Moisture		1	498328	08/06/19 09:21	LWN	TAL CHI

Client Sample ID: 2815V-1-B05 (0-5)

Lab Sample ID: 500-167784-1

Date Collected: 08/05/19 09:35

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 93.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			498524	08/05/19 15:50	WRE	TAL CHI
Total/NA	Analysis	8260B		1	498475	08/07/19 12:25	PMF	TAL CHI
Total/NA	Prep	3541			498485	08/07/19 07:34	DX	TAL CHI
Total/NA	Analysis	8270D		1	498806	08/08/19 22:10	NRJ	TAL CHI
Total/NA	Prep	3050B			498493	08/07/19 07:49	SAH	TAL CHI
Total/NA	Analysis	6010B		1	498664	08/08/19 00:29	EEN	TAL CHI
Total/NA	Prep	3050B			498493	08/07/19 07:49	SAH	TAL CHI
Total/NA	Analysis	6010B		5	498805	08/08/19 11:01	JEF	TAL CHI
Total/NA	Prep	7471B			498513	08/07/19 11:20	MJG	TAL CHI
Total/NA	Analysis	7471B		1	498761	08/08/19 08:56	MJG	TAL CHI
Total/NA	Prep	9010B			499858	08/15/19 10:25	MS	TAL CHI
Total/NA	Analysis	9014		1	499958		MS	TAL CHI
					(Start)	08/15/19 15:09		
					(End)	08/15/19 15:09		

Client Sample ID: 2815V-1-B05 (0-5) Dup

Lab Sample ID: 500-167784-2

Date Collected: 08/05/19 09:40

Matrix: Solid

Date Received: 08/05/19 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			498602	08/07/19 12:25	GCA	TAL CHI
TCLP	Prep	3010A			498827	08/08/19 14:42	BDE	TAL CHI
TCLP	Analysis	6010B		1	499130	08/10/19 07:07	JEF	TAL CHI
TCLP	Leach	1311			498602	08/07/19 12:25	GCA	TAL CHI
TCLP	Prep	3010A			498827	08/08/19 14:42	BDE	TAL CHI
TCLP	Analysis	6020A		1	499204	08/09/19 13:58	ASF	TAL CHI

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Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B05 (0-5) Dup

Lab Sample ID: 500-167784-2

Date Collected: 08/05/19 09:40

Matrix: Solid

Date Received: 08/05/19 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			498602	08/07/19 12:25	GCA	TAL CHI
TCLP	Prep	7470A			498963	08/09/19 10:05	MJG	TAL CHI
TCLP	Analysis	7470A		1	499072	08/09/19 16:13	MJG	TAL CHI
Total/NA	Analysis	9045D		1	498341		JJB	TAL CHI
					(Start)	08/06/19 13:04		
					(End)	08/06/19 13:09		
Total/NA	Analysis	Moisture		1	498328	08/06/19 09:21	LWN	TAL CHI

Client Sample ID: 2815V-1-B05 (0-5) Dup

Lab Sample ID: 500-167784-2

Date Collected: 08/05/19 09:40

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 92.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			498524	08/05/19 15:50	WRE	TAL CHI
Total/NA	Analysis	8260B		1	498475	08/07/19 12:51	PMF	TAL CHI
Total/NA	Prep	3541			498485	08/07/19 07:34	DX	TAL CHI
Total/NA	Analysis	8270D		1	499259	08/12/19 20:46	AJD	TAL CHI
Total/NA	Prep	3050B			498493	08/07/19 07:49	SAH	TAL CHI
Total/NA	Analysis	6010B		1	498664	08/08/19 00:58	EEN	TAL CHI
Total/NA	Prep	3050B			498493	08/07/19 07:49	SAH	TAL CHI
Total/NA	Analysis	6010B		5	498805	08/08/19 11:21	JEF	TAL CHI
Total/NA	Prep	7471B			498513	08/07/19 11:20	MJG	TAL CHI
Total/NA	Analysis	7471B		1	498761	08/08/19 08:58	MJG	TAL CHI
Total/NA	Prep	9010B			499858	08/15/19 10:25	MS	TAL CHI
Total/NA	Analysis	9014		1	499958		MS	TAL CHI
					(Start)	08/15/19 15:09		
					(End)	08/15/19 15:09		

Client Sample ID: 2815V-1-B05 (5-7)

Lab Sample ID: 500-167784-3

Date Collected: 08/05/19 09:45

Matrix: Solid

Date Received: 08/05/19 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			498601	08/07/19 12:25	GCA	TAL CHI
SPLP East	Prep	3010A			498825	08/08/19 14:40	BDE	TAL CHI
SPLP East	Analysis	6010B		1	499129	08/09/19 22:22	JEF	TAL CHI
TCLP	Leach	1311			498602	08/07/19 12:25	GCA	TAL CHI
TCLP	Prep	3010A			498827	08/08/19 14:42	BDE	TAL CHI
TCLP	Analysis	6010B		1	499130	08/10/19 07:11	JEF	TAL CHI
TCLP	Leach	1311			498602	08/07/19 12:25	GCA	TAL CHI
TCLP	Prep	3010A			498827	08/08/19 14:42	BDE	TAL CHI
TCLP	Analysis	6020A		1	499204	08/09/19 14:01	ASF	TAL CHI
TCLP	Leach	1311			498602	08/07/19 12:25	GCA	TAL CHI
TCLP	Prep	7470A			498963	08/09/19 10:05	MJG	TAL CHI
TCLP	Analysis	7470A		1	499072	08/09/19 16:14	MJG	TAL CHI

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Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B05 (5-7)

Lab Sample ID: 500-167784-3

Date Collected: 08/05/19 09:45

Matrix: Solid

Date Received: 08/05/19 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	498341		JJB	TAL CHI
Total/NA	Analysis	Moisture		1	498328	08/06/19 09:21	LWN	TAL CHI

Client Sample ID: 2815V-1-B05 (5-7)

Lab Sample ID: 500-167784-3

Date Collected: 08/05/19 09:45

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 96.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			498524	08/05/19 15:50	WRE	TAL CHI
Total/NA	Analysis	8260B		1	498475	08/07/19 13:17	PMF	TAL CHI
Total/NA	Prep	3541			499527	08/13/19 19:02	JP1	TAL CHI
Total/NA	Analysis	8270D		1	499586	08/14/19 13:15	STW	TAL CHI
Total/NA	Prep	3050B			498493	08/07/19 07:49	SAH	TAL CHI
Total/NA	Analysis	6010B		1	498664	08/08/19 01:02	EEN	TAL CHI
Total/NA	Prep	3050B			498493	08/07/19 07:49	SAH	TAL CHI
Total/NA	Analysis	6010B		5	498805	08/08/19 11:25	JEF	TAL CHI
Total/NA	Prep	3050B			498493	08/07/19 07:49	SAH	TAL CHI
Total/NA	Analysis	6010B		10	498893	08/08/19 20:55	JEF	TAL CHI
Total/NA	Prep	7471B			498513	08/07/19 11:20	MJG	TAL CHI
Total/NA	Analysis	7471B		1	498761	08/08/19 09:01	MJG	TAL CHI
Total/NA	Prep	9010B			499858	08/15/19 10:25	MS	TAL CHI
Total/NA	Analysis	9014		1	499958		MS	TAL CHI
					(Start)	08/15/19 15:09		
					(End)	08/15/19 15:10		

Client Sample ID: 2815V-1-B06 (0-5)

Lab Sample ID: 500-167784-4

Date Collected: 08/05/19 10:20

Matrix: Solid

Date Received: 08/05/19 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			498602	08/07/19 12:25	GCA	TAL CHI
TCLP	Prep	3010A			498827	08/08/19 14:42	BDE	TAL CHI
TCLP	Analysis	6010B		1	499130	08/10/19 07:15	JEF	TAL CHI
TCLP	Leach	1311			498602	08/07/19 12:25	GCA	TAL CHI
TCLP	Prep	3010A			498827	08/08/19 14:42	BDE	TAL CHI
TCLP	Analysis	6020A		1	499204	08/09/19 14:05	ASF	TAL CHI
TCLP	Leach	1311			498602	08/07/19 12:25	GCA	TAL CHI
TCLP	Prep	7470A			498963	08/09/19 10:05	MJG	TAL CHI
TCLP	Analysis	7470A		1	499072	08/09/19 16:16	MJG	TAL CHI
Total/NA	Analysis	9045D		1	498341		JJB	TAL CHI
					(Start)	08/06/19 13:17		
					(End)	08/06/19 13:22		
Total/NA	Analysis	Moisture		1	498328	08/06/19 09:21	LWN	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B06 (0-5)

Lab Sample ID: 500-167784-4

Date Collected: 08/05/19 10:20

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 94.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			498524	08/05/19 15:50	WRE	TAL CHI
Total/NA	Analysis	8260B		1	498662	08/08/19 10:24	PMF	TAL CHI
Total/NA	Prep	3541			498485	08/07/19 07:34	DX	TAL CHI
Total/NA	Analysis	8270D		1	498806	08/08/19 19:47	NRJ	TAL CHI
Total/NA	Prep	3050B			498493	08/07/19 07:49	SAH	TAL CHI
Total/NA	Analysis	6010B		1	498664	08/08/19 01:06	EEN	TAL CHI
Total/NA	Prep	3050B			498493	08/07/19 07:49	SAH	TAL CHI
Total/NA	Analysis	6010B		5	498805	08/08/19 11:37	JEF	TAL CHI
Total/NA	Prep	7471B			498513	08/07/19 11:20	MJG	TAL CHI
Total/NA	Analysis	7471B		1	498761	08/08/19 09:03	MJG	TAL CHI
Total/NA	Prep	9010B			499858	08/15/19 10:25	MS	TAL CHI
Total/NA	Analysis	9014		1	499958		MS	TAL CHI
					(Start)	08/15/19 15:10		
					(End)	08/15/19 15:10		

Client Sample ID: 2815V-1-B06 (5-10)

Lab Sample ID: 500-167784-5

Date Collected: 08/05/19 10:25

Matrix: Solid

Date Received: 08/05/19 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			498601	08/07/19 12:25	GCA	TAL CHI
SPLP East	Prep	3010A			498825	08/08/19 14:40	BDE	TAL CHI
SPLP East	Analysis	6010B		1	499129	08/09/19 22:30	JEF	TAL CHI
TCLP	Leach	1311			498602	08/07/19 12:25	GCA	TAL CHI
TCLP	Prep	3010A			498827	08/08/19 14:42	BDE	TAL CHI
TCLP	Analysis	6010B		1	499130	08/10/19 07:31	JEF	TAL CHI
TCLP	Leach	1311			498602	08/07/19 12:25	GCA	TAL CHI
TCLP	Prep	3010A			498827	08/08/19 14:42	BDE	TAL CHI
TCLP	Analysis	6020A		1	499204	08/09/19 14:09	ASF	TAL CHI
TCLP	Leach	1311			498602	08/07/19 12:25	GCA	TAL CHI
TCLP	Prep	7470A			498963	08/09/19 10:05	MJG	TAL CHI
TCLP	Analysis	7470A		1	499072	08/09/19 16:17	MJG	TAL CHI
Total/NA	Analysis	9045D		1	498341		JJB	TAL CHI
					(Start)	08/06/19 13:26		
					(End)	08/06/19 13:30		
Total/NA	Analysis	Moisture		1	498328	08/06/19 09:21	LWN	TAL CHI

Client Sample ID: 2815V-1-B06 (5-10)

Lab Sample ID: 500-167784-5

Date Collected: 08/05/19 10:25

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 96.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			498524	08/05/19 15:50	WRE	TAL CHI
Total/NA	Analysis	8260B		1	498475	08/07/19 13:43	PMF	TAL CHI
Total/NA	Prep	3541			498485	08/07/19 07:34	DX	TAL CHI
Total/NA	Analysis	8270D		1	498806	08/08/19 17:46	NRJ	TAL CHI

Eurofins TestAmerica, Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B06 (5-10)

Lab Sample ID: 500-167784-5

Date Collected: 08/05/19 10:25

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 96.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			498493	08/07/19 07:49	SAH	TAL CHI
Total/NA	Analysis	6010B		1	498664	08/08/19 01:10	EEN	TAL CHI
Total/NA	Prep	3050B			498493	08/07/19 07:49	SAH	TAL CHI
Total/NA	Analysis	6010B		5	498805	08/08/19 11:41	JEF	TAL CHI
Total/NA	Prep	3050B			498493	08/07/19 07:49	SAH	TAL CHI
Total/NA	Analysis	6010B		10	498893	08/08/19 20:59	JEF	TAL CHI
Total/NA	Prep	7471B			498513	08/07/19 11:20	MJG	TAL CHI
Total/NA	Analysis	7471B		1	498761	08/08/19 09:05	MJG	TAL CHI
Total/NA	Prep	9010B			499858	08/15/19 10:25	MS	TAL CHI
Total/NA	Analysis	9014		1	499958		MS	TAL CHI
					(Start)	08/15/19 15:10		
					(End)	08/15/19 15:10		

Client Sample ID: 2815V-1-B06 (10-13.5)

Lab Sample ID: 500-167784-6

Date Collected: 08/05/19 10:30

Matrix: Solid

Date Received: 08/05/19 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			498602	08/07/19 12:25	GCA	TAL CHI
TCLP	Prep	3010A			498827	08/08/19 14:42	BDE	TAL CHI
TCLP	Analysis	6010B		1	499130	08/10/19 07:36	JEF	TAL CHI
TCLP	Leach	1311			498602	08/07/19 12:25	GCA	TAL CHI
TCLP	Prep	3010A			498827	08/08/19 14:42	BDE	TAL CHI
TCLP	Analysis	6020A		1	499204	08/09/19 14:13	ASF	TAL CHI
TCLP	Leach	1311			498602	08/07/19 12:25	GCA	TAL CHI
TCLP	Prep	7470A			498963	08/09/19 10:05	MJG	TAL CHI
TCLP	Analysis	7470A		1	499072	08/09/19 16:19	MJG	TAL CHI
Total/NA	Analysis	9045D		1	498341		JJB	TAL CHI
					(Start)	08/06/19 13:30		
					(End)	08/06/19 13:34		
Total/NA	Analysis	Moisture		1	498328	08/06/19 09:21	LWN	TAL CHI

Client Sample ID: 2815V-1-B06 (10-13.5)

Lab Sample ID: 500-167784-6

Date Collected: 08/05/19 10:30

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 84.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			498524	08/05/19 15:50	WRE	TAL CHI
Total/NA	Analysis	8260B		1	498475	08/07/19 14:09	PMF	TAL CHI
Total/NA	Prep	3541			498485	08/07/19 07:34	DX	TAL CHI
Total/NA	Analysis	8270D		1	498806	08/08/19 18:10	NRJ	TAL CHI
Total/NA	Prep	3050B			498493	08/07/19 07:49	SAH	TAL CHI
Total/NA	Analysis	6010B		1	498664	08/08/19 01:14	EEN	TAL CHI
Total/NA	Prep	3050B			498493	08/07/19 07:49	SAH	TAL CHI
Total/NA	Analysis	6010B		5	498805	08/08/19 11:45	JEF	TAL CHI

Eurofins TestAmerica, Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B06 (10-13.5)

Lab Sample ID: 500-167784-6

Date Collected: 08/05/19 10:30

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 84.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			498513	08/07/19 11:20	MJG	TAL CHI
Total/NA	Analysis	7471B		1	498761	08/08/19 09:07	MJG	TAL CHI
Total/NA	Prep	9010B			499858	08/15/19 10:25	MS	TAL CHI
Total/NA	Analysis	9014		1	499958	08/15/19 15:10 (Start) 08/15/19 15:11 (End)	MS	TAL CHI

Client Sample ID: 2815V-1-B07 (0-5)

Lab Sample ID: 500-167784-7

Date Collected: 08/05/19 11:05

Matrix: Solid

Date Received: 08/05/19 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			498602	08/07/19 12:25	GCA	TAL CHI
TCLP	Prep	3010A			498827	08/08/19 14:42	BDE	TAL CHI
TCLP	Analysis	6010B		1	499130	08/10/19 07:40	JEF	TAL CHI
TCLP	Leach	1311			498602	08/07/19 12:25	GCA	TAL CHI
TCLP	Prep	3010A			498827	08/08/19 14:42	BDE	TAL CHI
TCLP	Analysis	6020A		1	499204	08/09/19 14:24	ASF	TAL CHI
TCLP	Leach	1311			498602	08/07/19 12:25	GCA	TAL CHI
TCLP	Prep	7470A			498963	08/09/19 10:05	MJG	TAL CHI
TCLP	Analysis	7470A		1	499072	08/09/19 16:20	MJG	TAL CHI
Total/NA	Analysis	9045D		1	498341	08/06/19 13:34 (Start) 08/06/19 13:39 (End)	JJB	TAL CHI
Total/NA	Analysis	Moisture		1	498328	08/06/19 09:21	LWN	TAL CHI

Client Sample ID: 2815V-1-B07 (0-5)

Lab Sample ID: 500-167784-7

Date Collected: 08/05/19 11:05

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 83.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			498524	08/05/19 15:50	WRE	TAL CHI
Total/NA	Analysis	8260B		1	498475	08/07/19 14:35	PMF	TAL CHI
Total/NA	Prep	3541			498485	08/07/19 07:34	DX	TAL CHI
Total/NA	Analysis	8270D		1	498806	08/08/19 18:59	NRJ	TAL CHI
Total/NA	Prep	3050B			498493	08/07/19 07:49	SAH	TAL CHI
Total/NA	Analysis	6010B		1	498664	08/08/19 01:18	EEN	TAL CHI
Total/NA	Prep	3050B			498493	08/07/19 07:49	SAH	TAL CHI
Total/NA	Analysis	6010B		5	498805	08/08/19 11:50	JEF	TAL CHI
Total/NA	Prep	7471B			498521	08/07/19 11:20	MJG	TAL CHI
Total/NA	Analysis	7471B		1	498761	08/08/19 09:49	MJG	TAL CHI
Total/NA	Prep	9010B			499858	08/15/19 10:25	MS	TAL CHI
Total/NA	Analysis	9014		1	499958	08/15/19 15:10 (Start) 08/15/19 15:11 (End)	MS	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B07 (5-10)

Lab Sample ID: 500-167784-8

Date Collected: 08/05/19 11:10

Matrix: Solid

Date Received: 08/05/19 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			498602	08/07/19 12:25	GCA	TAL CHI
TCLP	Prep	3010A			498827	08/08/19 14:42	BDE	TAL CHI
TCLP	Analysis	6010B		1	499130	08/10/19 07:44	JEF	TAL CHI
TCLP	Leach	1311			498602	08/07/19 12:25	GCA	TAL CHI
TCLP	Prep	3010A			498827	08/08/19 14:42	BDE	TAL CHI
TCLP	Analysis	6020A		1	499204	08/09/19 14:28	ASF	TAL CHI
TCLP	Leach	1311			498602	08/07/19 12:25	GCA	TAL CHI
TCLP	Prep	7470A			498963	08/09/19 10:05	MJG	TAL CHI
TCLP	Analysis	7470A		1	499072	08/09/19 16:22	MJG	TAL CHI
Total/NA	Analysis	9045D		1	498341		JJB	TAL CHI
					(Start)	08/06/19 13:39		
					(End)	08/06/19 13:43		
Total/NA	Analysis	Moisture		1	498328	08/06/19 09:21	LWN	TAL CHI

Client Sample ID: 2815V-1-B07 (5-10)

Lab Sample ID: 500-167784-8

Date Collected: 08/05/19 11:10

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 88.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			498524	08/05/19 15:50	WRE	TAL CHI
Total/NA	Analysis	8260B		1	498475	08/07/19 15:01	PMF	TAL CHI
Total/NA	Prep	3541			498485	08/07/19 07:34	DX	TAL CHI
Total/NA	Analysis	8270D		1	498806	08/08/19 17:22	NRJ	TAL CHI
Total/NA	Prep	3050B			498493	08/07/19 07:49	SAH	TAL CHI
Total/NA	Analysis	6010B		1	498664	08/08/19 01:22	EEN	TAL CHI
Total/NA	Prep	3050B			498493	08/07/19 07:49	SAH	TAL CHI
Total/NA	Analysis	6010B		5	498805	08/08/19 11:54	JEF	TAL CHI
Total/NA	Prep	7471B			498521	08/07/19 11:20	MJG	TAL CHI
Total/NA	Analysis	7471B		1	498761	08/08/19 09:51	MJG	TAL CHI
Total/NA	Prep	9010B			499858	08/15/19 10:25	MS	TAL CHI
Total/NA	Analysis	9014		1	499958		MS	TAL CHI
					(Start)	08/15/19 15:11		
					(End)	08/15/19 15:11		

Client Sample ID: 2815V-1-B07 (10-13.5)

Lab Sample ID: 500-167784-9

Date Collected: 08/05/19 11:15

Matrix: Solid

Date Received: 08/05/19 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			498602	08/07/19 12:25	GCA	TAL CHI
TCLP	Prep	3010A			498827	08/08/19 14:42	BDE	TAL CHI
TCLP	Analysis	6010B		1	499130	08/10/19 07:48	JEF	TAL CHI
TCLP	Leach	1311			498602	08/07/19 12:25	GCA	TAL CHI
TCLP	Prep	3010A			498827	08/08/19 14:42	BDE	TAL CHI
TCLP	Analysis	6020A		1	499204	08/09/19 14:32	ASF	TAL CHI

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Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B07 (10-13.5)

Lab Sample ID: 500-167784-9

Date Collected: 08/05/19 11:15

Matrix: Solid

Date Received: 08/05/19 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			498602	08/07/19 12:25	GCA	TAL CHI
TCLP	Prep	7470A			498963	08/09/19 10:05	MJG	TAL CHI
TCLP	Analysis	7470A		1	499072	08/09/19 16:23	MJG	TAL CHI
Total/NA	Analysis	9045D		1	498341		JJB	TAL CHI
					(Start)	08/06/19 13:43		
					(End)	08/06/19 13:47		
Total/NA	Analysis	Moisture		1	498328	08/06/19 09:21	LWN	TAL CHI

Client Sample ID: 2815V-1-B07 (10-13.5)

Lab Sample ID: 500-167784-9

Date Collected: 08/05/19 11:15

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 83.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			498524	08/05/19 15:50	WRE	TAL CHI
Total/NA	Analysis	8260B		1	498475	08/07/19 15:28	PMF	TAL CHI
Total/NA	Prep	3541			498485	08/07/19 07:34	DX	TAL CHI
Total/NA	Analysis	8270D		1	498806	08/08/19 16:57	NRJ	TAL CHI
Total/NA	Prep	3050B			498493	08/07/19 07:49	SAH	TAL CHI
Total/NA	Analysis	6010B		1	498664	08/08/19 01:34	EEN	TAL CHI
Total/NA	Prep	3050B			498493	08/07/19 07:49	SAH	TAL CHI
Total/NA	Analysis	6010B		1	498805	08/08/19 11:58	JEF	TAL CHI
Total/NA	Prep	3050B			498493	08/07/19 07:49	SAH	TAL CHI
Total/NA	Analysis	6010B		5	498805	08/08/19 12:02	JEF	TAL CHI
Total/NA	Prep	7471B			498521	08/07/19 11:20	MJG	TAL CHI
Total/NA	Analysis	7471B		1	498761	08/08/19 09:54	MJG	TAL CHI
Total/NA	Prep	9010B			499858	08/15/19 10:25	MS	TAL CHI
Total/NA	Analysis	9014		1	499958		MS	TAL CHI
					(Start)	08/15/19 15:11		
					(End)	08/15/19 15:11		

Client Sample ID: 2815V-1-B08 (0-5)

Lab Sample ID: 500-167784-10

Date Collected: 08/05/19 11:50

Matrix: Solid

Date Received: 08/05/19 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			498602	08/07/19 12:25	GCA	TAL CHI
TCLP	Prep	3010A			498827	08/08/19 14:42	BDE	TAL CHI
TCLP	Analysis	6010B		1	499130	08/10/19 07:52	JEF	TAL CHI
TCLP	Leach	1311			498602	08/07/19 12:25	GCA	TAL CHI
TCLP	Prep	3010A			498827	08/08/19 14:42	BDE	TAL CHI
TCLP	Analysis	6020A		1	499204	08/09/19 14:35	ASF	TAL CHI
TCLP	Leach	1311			498602	08/07/19 12:25	GCA	TAL CHI
TCLP	Prep	7470A			498963	08/09/19 10:05	MJG	TAL CHI
TCLP	Analysis	7470A		1	499072	08/09/19 16:32	MJG	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B08 (0-5)

Lab Sample ID: 500-167784-10

Date Collected: 08/05/19 11:50

Matrix: Solid

Date Received: 08/05/19 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	498341		JJB	TAL CHI
Total/NA	Analysis	Moisture		1	498328	08/06/19 09:21	LWN	TAL CHI

Client Sample ID: 2815V-1-B08 (0-5)

Lab Sample ID: 500-167784-10

Date Collected: 08/05/19 11:50

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 94.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			498524	08/05/19 15:50	WRE	TAL CHI
Total/NA	Analysis	8260B		1	498475	08/07/19 15:54	PMF	TAL CHI
Total/NA	Prep	3541			498485	08/07/19 07:34	DX	TAL CHI
Total/NA	Analysis	8270D		1	498806	08/08/19 20:11	NRJ	TAL CHI
Total/NA	Prep	3541	DL		498485	08/07/19 07:34	DX	TAL CHI
Total/NA	Analysis	8270D	DL	5	499358	08/13/19 11:12	STW	TAL CHI
Total/NA	Prep	3050B			498493	08/07/19 07:49	SAH	TAL CHI
Total/NA	Analysis	6010B		1	498664	08/08/19 01:39	EEN	TAL CHI
Total/NA	Prep	3050B			498493	08/07/19 07:49	SAH	TAL CHI
Total/NA	Analysis	6010B		1	498805	08/08/19 12:06	JEF	TAL CHI
Total/NA	Prep	3050B			498493	08/07/19 07:49	SAH	TAL CHI
Total/NA	Analysis	6010B		5	498805	08/08/19 12:10	JEF	TAL CHI
Total/NA	Prep	7471B			498521	08/07/19 11:20	MJG	TAL CHI
Total/NA	Analysis	7471B		1	498761	08/08/19 09:56	MJG	TAL CHI
Total/NA	Prep	9010B			499858	08/15/19 10:25	MS	TAL CHI
Total/NA	Analysis	9014		1	499958		MS	TAL CHI
					(Start)	08/15/19 15:11		
					(End)	08/15/19 15:12		

Client Sample ID: 2815V-1-B08 (5-10)

Lab Sample ID: 500-167784-11

Date Collected: 08/05/19 12:00

Matrix: Solid

Date Received: 08/05/19 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			498601	08/07/19 12:25	GCA	TAL CHI
SPLP East	Prep	3010A			498825	08/08/19 14:40	BDE	TAL CHI
SPLP East	Analysis	6010B		1	499129	08/09/19 23:02	JEF	TAL CHI
TCLP	Leach	1311			498602	08/07/19 12:25	GCA	TAL CHI
TCLP	Prep	3010A			498827	08/08/19 14:42	BDE	TAL CHI
TCLP	Analysis	6010B		1	499130	08/10/19 07:57	JEF	TAL CHI
TCLP	Leach	1311			498602	08/07/19 12:25	GCA	TAL CHI
TCLP	Prep	3010A			498827	08/08/19 14:42	BDE	TAL CHI
TCLP	Analysis	6020A		1	499204	08/09/19 14:39	ASF	TAL CHI
TCLP	Leach	1311			498602	08/07/19 12:25	GCA	TAL CHI
TCLP	Prep	7470A			498963	08/09/19 10:05	MJG	TAL CHI
TCLP	Analysis	7470A		1	499072	08/09/19 16:34	MJG	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B08 (5-10)

Lab Sample ID: 500-167784-11

Date Collected: 08/05/19 12:00

Matrix: Solid

Date Received: 08/05/19 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	498341		JJB	TAL CHI
Total/NA	Analysis	Moisture		1	498328	08/06/19 09:21	LWN	TAL CHI

Client Sample ID: 2815V-1-B08 (5-10)

Lab Sample ID: 500-167784-11

Date Collected: 08/05/19 12:00

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 95.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			498524	08/05/19 15:50	WRE	TAL CHI
Total/NA	Analysis	8260B		1	498475	08/07/19 16:20	PMF	TAL CHI
Total/NA	Prep	3541			498485	08/07/19 07:34	DX	TAL CHI
Total/NA	Analysis	8270D		1	498806	08/08/19 18:34	NRJ	TAL CHI
Total/NA	Prep	3050B			498493	08/07/19 07:49	SAH	TAL CHI
Total/NA	Analysis	6010B		1	498664	08/08/19 01:43	EEN	TAL CHI
Total/NA	Prep	3050B			498493	08/07/19 07:49	SAH	TAL CHI
Total/NA	Analysis	6010B		10	499032	08/09/19 12:19	JEF	TAL CHI
Total/NA	Prep	3050B			498493	08/07/19 07:49	SAH	TAL CHI
Total/NA	Analysis	6010B		1	498805	08/08/19 12:14	JEF	TAL CHI
Total/NA	Prep	3050B			498493	08/07/19 07:49	SAH	TAL CHI
Total/NA	Analysis	6010B		5	498805	08/08/19 12:26	JEF	TAL CHI
Total/NA	Prep	7471B			498521	08/07/19 11:20	MJG	TAL CHI
Total/NA	Analysis	7471B		1	498761	08/08/19 09:58	MJG	TAL CHI
Total/NA	Prep	9010B			499858	08/15/19 10:25	MS	TAL CHI
Total/NA	Analysis	9014		1	499958		MS	TAL CHI
					(Start)	08/15/19 15:12		
					(End)	08/15/19 15:13		

Client Sample ID: 2815V-1-B09 (0-5)

Lab Sample ID: 500-167784-12

Date Collected: 08/05/19 12:30

Matrix: Solid

Date Received: 08/05/19 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			498601	08/07/19 12:25	GCA	TAL CHI
SPLP East	Prep	3010A			498825	08/08/19 14:40	BDE	TAL CHI
SPLP East	Analysis	6010B		1	499129	08/09/19 23:06	JEF	TAL CHI
TCLP	Leach	1311			498602	08/07/19 12:25	GCA	TAL CHI
TCLP	Prep	3010A			498827	08/08/19 14:42	BDE	TAL CHI
TCLP	Analysis	6010B		1	499130	08/10/19 08:01	JEF	TAL CHI
TCLP	Leach	1311			498602	08/07/19 12:25	GCA	TAL CHI
TCLP	Prep	3010A			498827	08/08/19 14:42	BDE	TAL CHI
TCLP	Analysis	6020A		1	499204	08/09/19 14:43	ASF	TAL CHI
TCLP	Leach	1311			498602	08/07/19 12:25	GCA	TAL CHI
TCLP	Prep	7470A			498963	08/09/19 10:05	MJG	TAL CHI
TCLP	Analysis	7470A		1	499072	08/09/19 16:35	MJG	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B09 (0-5)

Lab Sample ID: 500-167784-12

Date Collected: 08/05/19 12:30

Matrix: Solid

Date Received: 08/05/19 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	498341		JJB	TAL CHI
Total/NA	Analysis	Moisture		1	498328	08/06/19 09:21	LWN	TAL CHI

Client Sample ID: 2815V-1-B09 (0-5)

Lab Sample ID: 500-167784-12

Date Collected: 08/05/19 12:30

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 92.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			498524	08/05/19 15:50	WRE	TAL CHI
Total/NA	Analysis	8260B		1	498475	08/07/19 16:46	PMF	TAL CHI
Total/NA	Prep	3541			498485	08/07/19 07:34	DX	TAL CHI
Total/NA	Analysis	8270D		1	499259	08/12/19 21:15	AJD	TAL CHI
Total/NA	Prep	3050B			498493	08/07/19 07:49	SAH	TAL CHI
Total/NA	Analysis	6010B		1	498664	08/08/19 01:47	EEN	TAL CHI
Total/NA	Prep	3050B			498493	08/07/19 07:49	SAH	TAL CHI
Total/NA	Analysis	6010B		1	498805	08/08/19 12:30	JEF	TAL CHI
Total/NA	Prep	3050B			498493	08/07/19 07:49	SAH	TAL CHI
Total/NA	Analysis	6010B		5	498805	08/08/19 12:34	JEF	TAL CHI
Total/NA	Prep	3050B			498493	08/07/19 07:49	SAH	TAL CHI
Total/NA	Analysis	6010B		5	498893	08/08/19 21:07	JEF	TAL CHI
Total/NA	Prep	7471B			498521	08/07/19 11:20	MJG	TAL CHI
Total/NA	Analysis	7471B		1	498761	08/08/19 10:00	MJG	TAL CHI
Total/NA	Prep	9010B			499858	08/15/19 10:25	MS	TAL CHI
Total/NA	Analysis	9014		1	499958		MS	TAL CHI
					(Start)	08/15/19 15:12		
					(End)	08/15/19 15:13		

Client Sample ID: 2815V-1-B09 (0-5) Dup

Lab Sample ID: 500-167784-13

Date Collected: 08/05/19 12:35

Matrix: Solid

Date Received: 08/05/19 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			498601	08/07/19 12:25	GCA	TAL CHI
SPLP East	Prep	3010A			498825	08/08/19 14:40	BDE	TAL CHI
SPLP East	Analysis	6010B		1	499129	08/09/19 23:10	JEF	TAL CHI
TCLP	Leach	1311			498602	08/07/19 12:25	GCA	TAL CHI
TCLP	Prep	3010A			498827	08/08/19 14:42	BDE	TAL CHI
TCLP	Analysis	6010B		1	499130	08/10/19 08:05	JEF	TAL CHI
TCLP	Leach	1311			498602	08/07/19 12:25	GCA	TAL CHI
TCLP	Prep	3010A			498827	08/08/19 14:42	BDE	TAL CHI
TCLP	Analysis	6020A		1	499204	08/09/19 14:47	ASF	TAL CHI
TCLP	Leach	1311			498602	08/07/19 12:25	GCA	TAL CHI
TCLP	Prep	7470A			498963	08/09/19 10:05	MJG	TAL CHI
TCLP	Analysis	7470A		1	499072	08/09/19 16:37	MJG	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B09 (0-5) Dup

Lab Sample ID: 500-167784-13

Date Collected: 08/05/19 12:35

Matrix: Solid

Date Received: 08/05/19 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	498341		JJB	TAL CHI
Total/NA	Analysis	Moisture		1	498328	08/06/19 09:21	LWN	TAL CHI

Client Sample ID: 2815V-1-B09 (0-5) Dup

Lab Sample ID: 500-167784-13

Date Collected: 08/05/19 12:35

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 94.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			498524	08/05/19 15:50	WRE	TAL CHI
Total/NA	Analysis	8260B		1	498662	08/08/19 10:51	PMF	TAL CHI
Total/NA	Prep	3541			498485	08/07/19 07:34	DX	TAL CHI
Total/NA	Analysis	8270D		1	499259	08/12/19 21:45	AJD	TAL CHI
Total/NA	Prep	3050B			498493	08/07/19 07:49	SAH	TAL CHI
Total/NA	Analysis	6010B		1	498664	08/08/19 01:51	EEN	TAL CHI
Total/NA	Prep	3050B			498493	08/07/19 07:49	SAH	TAL CHI
Total/NA	Analysis	6010B		1	498805	08/08/19 12:38	JEF	TAL CHI
Total/NA	Prep	3050B			498493	08/07/19 07:49	SAH	TAL CHI
Total/NA	Analysis	6010B		5	498805	08/08/19 12:42	JEF	TAL CHI
Total/NA	Prep	3050B			498493	08/07/19 07:49	SAH	TAL CHI
Total/NA	Analysis	6010B		5	498893	08/08/19 21:11	JEF	TAL CHI
Total/NA	Prep	7471B			498521	08/07/19 11:20	MJG	TAL CHI
Total/NA	Analysis	7471B		1	498761	08/08/19 10:02	MJG	TAL CHI
Total/NA	Prep	9010B			499858	08/15/19 10:25	MS	TAL CHI
Total/NA	Analysis	9014		1	499958		MS	TAL CHI
					(Start)	08/15/19 15:13		
					(End)	08/15/19 15:13		

Client Sample ID: 2815V-1-B09 (5-7)

Lab Sample ID: 500-167784-14

Date Collected: 08/05/19 12:40

Matrix: Solid

Date Received: 08/05/19 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			498601	08/07/19 12:25	GCA	TAL CHI
SPLP East	Prep	3010A			498825	08/08/19 14:40	BDE	TAL CHI
SPLP East	Analysis	6010B		1	499129	08/09/19 23:14	JEF	TAL CHI
TCLP	Leach	1311			498602	08/07/19 12:25	GCA	TAL CHI
TCLP	Prep	3010A			498827	08/08/19 14:42	BDE	TAL CHI
TCLP	Analysis	6010B		1	499130	08/10/19 08:09	JEF	TAL CHI
TCLP	Leach	1311			498602	08/07/19 12:25	GCA	TAL CHI
TCLP	Prep	3010A			498827	08/08/19 14:42	BDE	TAL CHI
TCLP	Analysis	6020A		1	499204	08/09/19 14:58	ASF	TAL CHI
TCLP	Leach	1311			498602	08/07/19 12:25	GCA	TAL CHI
TCLP	Prep	7470A			498963	08/09/19 10:05	MJG	TAL CHI
TCLP	Analysis	7470A		1	499072	08/09/19 16:39	MJG	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B09 (5-7)

Lab Sample ID: 500-167784-14

Date Collected: 08/05/19 12:40

Matrix: Solid

Date Received: 08/05/19 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	498341		JJB	TAL CHI
Total/NA	Analysis	Moisture		1	498328	08/06/19 09:21	LWN	TAL CHI

Client Sample ID: 2815V-1-B09 (5-7)

Lab Sample ID: 500-167784-14

Date Collected: 08/05/19 12:40

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 93.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			498524	08/05/19 15:50	WRE	TAL CHI
Total/NA	Analysis	8260B		1	498475	08/07/19 17:12	PMF	TAL CHI
Total/NA	Prep	3541			498485	08/07/19 07:34	DX	TAL CHI
Total/NA	Analysis	8270D		1	498806	08/08/19 20:59	NRJ	TAL CHI
Total/NA	Prep	3050B			498493	08/07/19 07:49	SAH	TAL CHI
Total/NA	Analysis	6010B		1	498664	08/08/19 01:55	EEN	TAL CHI
Total/NA	Prep	3050B			498493	08/07/19 07:49	SAH	TAL CHI
Total/NA	Analysis	6010B		10	499032	08/09/19 12:23	JEF	TAL CHI
Total/NA	Prep	3050B			498493	08/07/19 07:49	SAH	TAL CHI
Total/NA	Analysis	6010B		1	498805	08/08/19 12:46	JEF	TAL CHI
Total/NA	Prep	3050B			498493	08/07/19 07:49	SAH	TAL CHI
Total/NA	Analysis	6010B		5	498805	08/08/19 12:50	JEF	TAL CHI
Total/NA	Prep	7471B			498521	08/07/19 11:20	MJG	TAL CHI
Total/NA	Analysis	7471B		1	498761	08/08/19 10:04	MJG	TAL CHI
Total/NA	Prep	9010B			499858	08/15/19 10:25	MS	TAL CHI
Total/NA	Analysis	9014		1	499958		MS	TAL CHI
					(Start)	08/15/19 15:13		
					(End)	08/15/19 15:13		

Client Sample ID: 2815V-1-B10 (0-4)

Lab Sample ID: 500-167784-15

Date Collected: 08/05/19 13:00

Matrix: Solid

Date Received: 08/05/19 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			498601	08/07/19 12:25	GCA	TAL CHI
SPLP East	Prep	3010A			498825	08/08/19 14:40	BDE	TAL CHI
SPLP East	Analysis	6010B		1	499129	08/09/19 23:18	JEF	TAL CHI
TCLP	Leach	1311			498602	08/07/19 12:25	GCA	TAL CHI
TCLP	Prep	3010A			498827	08/08/19 14:42	BDE	TAL CHI
TCLP	Analysis	6010B		1	499130	08/10/19 08:26	JEF	TAL CHI
TCLP	Leach	1311			498602	08/07/19 12:25	GCA	TAL CHI
TCLP	Prep	3010A			498827	08/08/19 14:42	BDE	TAL CHI
TCLP	Analysis	6020A		1	499204	08/09/19 15:02	ASF	TAL CHI
TCLP	Leach	1311			498602	08/07/19 12:25	GCA	TAL CHI
TCLP	Prep	7470A			498963	08/09/19 10:05	MJG	TAL CHI
TCLP	Analysis	7470A		1	499072	08/09/19 16:40	MJG	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B10 (0-4)

Lab Sample ID: 500-167784-15

Date Collected: 08/05/19 13:00

Matrix: Solid

Date Received: 08/05/19 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	498341		JJB	TAL CHI
Total/NA	Analysis	Moisture		1	498328	08/06/19 09:21	LWN	TAL CHI

Client Sample ID: 2815V-1-B10 (0-4)

Lab Sample ID: 500-167784-15

Date Collected: 08/05/19 13:00

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 95.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			498524	08/05/19 15:50	WRE	TAL CHI
Total/NA	Analysis	8260B		1	498475	08/07/19 17:38	PMF	TAL CHI
Total/NA	Prep	3541			498485	08/07/19 07:34	DX	TAL CHI
Total/NA	Analysis	8270D		1	498806	08/08/19 21:23	NRJ	TAL CHI
Total/NA	Prep	3050B			498493	08/07/19 07:49	SAH	TAL CHI
Total/NA	Analysis	6010B		1	498664	08/08/19 01:59	EEN	TAL CHI
Total/NA	Prep	3050B			498493	08/07/19 07:49	SAH	TAL CHI
Total/NA	Analysis	6010B		1	498805	08/08/19 12:55	JEF	TAL CHI
Total/NA	Prep	3050B			498493	08/07/19 07:49	SAH	TAL CHI
Total/NA	Analysis	6010B		5	498805	08/08/19 12:59	JEF	TAL CHI
Total/NA	Prep	3050B			498493	08/07/19 07:49	SAH	TAL CHI
Total/NA	Analysis	6010B		5	498893	08/08/19 21:19	JEF	TAL CHI
Total/NA	Prep	7471B			498521	08/07/19 11:20	MJG	TAL CHI
Total/NA	Analysis	7471B		1	498761	08/08/19 10:06	MJG	TAL CHI
Total/NA	Prep	9010B			499858	08/15/19 10:25	MS	TAL CHI
Total/NA	Analysis	9014		1	499958		MS	TAL CHI
					(Start)	08/15/19 15:13		
					(End)	08/15/19 15:14		

Client Sample ID: 2815V-1-B11 (0-4.5)

Lab Sample ID: 500-167784-16

Date Collected: 08/05/19 13:20

Matrix: Solid

Date Received: 08/05/19 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			498602	08/07/19 12:25	GCA	TAL CHI
TCLP	Prep	3010A			498827	08/08/19 14:42	BDE	TAL CHI
TCLP	Analysis	6010B		1	499130	08/10/19 08:42	JEF	TAL CHI
TCLP	Leach	1311			498602	08/07/19 12:25	GCA	TAL CHI
TCLP	Prep	3010A			498827	08/08/19 14:42	BDE	TAL CHI
TCLP	Analysis	6020A		1	499204	08/09/19 15:17	ASF	TAL CHI
TCLP	Leach	1311			498602	08/07/19 12:25	GCA	TAL CHI
TCLP	Prep	7470A			498963	08/09/19 10:05	MJG	TAL CHI
TCLP	Analysis	7470A		1	499072	08/09/19 16:42	MJG	TAL CHI
Total/NA	Analysis	9045D		1	498341		JJB	TAL CHI
					(Start)	08/06/19 14:17		
					(End)	08/06/19 14:22		
Total/NA	Analysis	Moisture		1	498328	08/06/19 09:21	LWN	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Client Sample ID: 2815V-1-B11 (0-4.5)

Lab Sample ID: 500-167784-16

Date Collected: 08/05/19 13:20

Matrix: Solid

Date Received: 08/05/19 14:55

Percent Solids: 89.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			498524	08/05/19 15:50	WRE	TAL CHI
Total/NA	Analysis	8260B		1	498475	08/07/19 18:04	PMF	TAL CHI
Total/NA	Prep	3541			498485	08/07/19 07:34	DX	TAL CHI
Total/NA	Analysis	8270D		1	498806	08/08/19 21:47	NRJ	TAL CHI
Total/NA	Prep	3050B			498493	08/07/19 07:49	SAH	TAL CHI
Total/NA	Analysis	6010B		1	498664	08/08/19 02:03	EEN	TAL CHI
Total/NA	Prep	3050B			498493	08/07/19 07:49	SAH	TAL CHI
Total/NA	Analysis	6010B		1	498805	08/08/19 13:03	JEF	TAL CHI
Total/NA	Prep	3050B			498493	08/07/19 07:49	SAH	TAL CHI
Total/NA	Analysis	6010B		5	498805	08/08/19 13:15	JEF	TAL CHI
Total/NA	Prep	3050B			498493	08/07/19 07:49	SAH	TAL CHI
Total/NA	Analysis	6010B		5	498893	08/08/19 21:23	JEF	TAL CHI
Total/NA	Prep	7471B			498521	08/07/19 11:20	MJG	TAL CHI
Total/NA	Analysis	7471B		1	498761	08/08/19 10:13	MJG	TAL CHI
Total/NA	Prep	9010B			499858	08/15/19 10:25	MS	TAL CHI
Total/NA	Analysis	9014		1	499958		MS	TAL CHI
					(Start)	08/15/19 15:14		
					(End)	08/15/19 15:14		

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167784-1

Laboratory: Eurofins TestAmerica, Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
Illinois	NELAP	5	100201	04-30-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
7470A	7470A	Solid	Mercury
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids



TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 604
Phone: 708.534.5200 Fax: 708.534.1



500-167784 COC

Report To Contact: <u>Matt Weiss@Terracon.com</u> Company: <u>Terracon</u> Address: <u>192 Exchange Blvd</u> Address: <u>Glendale Heights, IL</u> Phone: <u>630-445-0160</u> Fax: E-Mail: <u>Matt.Weiss@Terracon.com</u>	(optional)	Bill To Contact: <u>Matt Weiss</u> Company: <u>Terracon</u> Address: <u>192 Exchange Blvd</u> Address: Phone: <u>630-445-0160</u> Fax: PO#/Reference#	(optional)
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Chain of Custody Record

Lab Job #: 500-167784
Chain of Custody Number: _____
Page 1 of 2
Temperature °C of Cooler: 10, 4, 3, 9, 6

Client		Client Project #		Preservative		Parameter		Matrix		Comments	
IDOT		11197084F				VOCs		SVOCs		Total 23 Inorganics	
Project Name		Project Location/State		Lab Project #		Sampler		Lab PM		Preservative Key	
11197084F		McCook, IL				Juan Robles				1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix					
1		2815V-1-B05 (0-5)	8/5/19	935	5	S	X	X	X	X	X
2		2815V-1-B05 Dup (0-5)	8/5/19	940	5	S	X	X	X	X	X
3		2815V-1-B05 (5-7)	8/5/19	945	5	S	X	X	X	X	X
4		2815V-1-B06 (0-5)	8/5/19	1020	5	S	X	X	X	X	X
5		2815V-1-B06 (5-10)	8/5/19	1025	5	S	X	X	X	X	X
6		2815V-1-B06 (10-13.5)	8/5/19	1030	5	S	X	X	X	X	X
7		2815V-1-B07 (0-5)	8/5/19	1105	5	S	X	X	X	X	X
8		2815V-1-B07 (5-10)	8/5/19	1110	5	S	X	X	X	X	X
9		2815V-1-B07 (10-13.5)	8/5/19	1115	5	S	X	X	X	X	X
10		2815V-1-B08 (0-5)	8/5/19	1150	5	S	X	X	X	X	X

Turnaround Time Required (Business Days): 1 Day 2 Days 5 Days 7 Days X 10 Days 15 Days Other

Requested Due Date: _____

Sample Disposal: Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>Juan Robles</u> Company: <u>Terracon</u> Date: <u>8/5/19</u> Time: <u>1400</u>	Received By: <u>JTA</u> Company: <u>JTA</u> Date: <u>8/5/19</u> Time: <u>1500</u>	Lab Courier: <u>JTA</u>
Relinquished By: <u>JTA</u> Company: <u>JTA</u> Date: <u>8/5/19</u> Time: <u>1455</u>	Received By: <u>Juan Robles</u> Company: <u>JTA</u> Date: <u>8/5/19</u> Time: <u>1455</u>	Shipped: _____
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____	Hand Delivered: _____

- Matrix Key
- WW - Wastewater
 - W - Water
 - S - Soil
 - SL - Sludge
 - MS - Miscellaneous
 - OL - Oil
 - A - Air
 - SE - Sediment
 - SO - Soil
 - L - Leachate
 - WI - Wipe
 - DW - Drinking Water
 - O - Other

Client Comments: ***Note no Aluminum.**
*** Note hold SPLP 23 Inorganics per Terracon Instructions.**

Lab Comments: _____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)	Bill To (optional)
Contact: <u>Matt Weiss @ Terracon.com</u>	Contact: <u>Matt Weiss</u>
Company: <u>Terracon</u>	Company: <u>Terracon</u>
Address: <u>192 Exchange Blvd</u>	Address: <u>192 Exchange Blvd</u>
Address: <u>Glendale Heights, IL</u>	Address: <u>Glendale Heights, IL</u>
Phone: <u>630-445-8160</u>	Phone: <u>630-445-0160</u>
Fax:	Fax:
E-Mail: <u>Matt.Weiss @ Terracon.com</u>	PO#/Reference#

Chain of Custody Record

Lab Job #: 500-167784

Chain of Custody Number: _____

Page 2 of 2

Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter		Matrix		Comments			
<u>IDOT</u>		<u>11197084F</u>								Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other			
Project Name <u>Asst</u>		Lab Project # <u>11197084F</u>											
Project Location/State <u>McCook, IL</u>		Lab PM											
Sampler <u>Juan Rojas</u>													
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOC'S	SVOC'S	Total 23 Inorganics	PH	TCLP 23 Inorganics	SPLP 23 Inorganics	Comments
			Date	Time									
<u>11</u>		<u>2815V-1-B08 (5-10)</u>	<u>8/5/19</u>	<u>1200</u>	<u>5</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		
<u>12</u>		<u>2815V-1-B09 (0-5)</u>	<u>8/5/19</u>	<u>1230</u>	<u>5</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		
<u>13</u>		<u>2815V-1-B09 Dup (0-5)</u>	<u>8/5/19</u>	<u>1235</u>	<u>5</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		
<u>14</u>		<u>2815V-1-B09 (5-7)</u>	<u>8/5/19</u>	<u>1240</u>	<u>5</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		
<u>15</u>		<u>2815V-1-B10 (0-4)</u>	<u>8/5/19</u>	<u>1300</u>	<u>5</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		
<u>16</u>		<u>2815V-1-B11 (0-4.5)</u>	<u>8/5/19</u>	<u>1320</u>	<u>5</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		

Turnaround Time Required (Business Days)

___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days X 10 Days ___ 15 Days ___ Other

Sample Disposal

Return to Client Disposal by Lab Archive for ___ Months (A fee may be assessed if samples are retained longer than 1 month)

Requested Due Date

Relinquished By <u>Juan Rojas</u>	Company <u>Terracon</u>	Date <u>8/5/19</u>	Time <u>1400</u>	Received By <u>[Signature]</u>	Company <u>Terracon</u>	Date <u>8/5/19</u>	Time <u>1400</u>
Relinquished By <u>[Signature]</u>	Company <u>Terracon</u>	Date <u>8/5/19</u>	Time <u>1455</u>	Received By <u>[Signature]</u>	Company <u>Terracon</u>	Date <u>8/5/19</u>	Time <u>1455</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: [Signature]

Shipped: _____

Hand Delivered: _____

Matrix Key

- WW - Wastewater
- W - Water
- S - Soil
- SL - Sludge
- MS - Miscellaneous
- OL - Oil
- A - Air
- SE - Sediment
- SO - Soil
- L - Leachate
- WI - Wipe
- DW - Drinking Water
- O - Other

Client Comments

* Note no Aluminum.
* Note hold SPLP 23 Inorganics per Terracon instructions.

Lab Comments:

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-167784-1

Login Number: 167784

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	Received same day of collection; chilling process has begun.
Cooler Temperature is recorded.	True	10.1,4.3,9.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAU 3562-Joliet Rd at 55th Street Office Phone Number, if available: _____

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

55th St (Eastbound) IDOT STA 297+00 to 300+00; Joliet Rd (Southbound) IDOT STA 548+00 to 550+00 (ISGS Site 2815V-2)

City: McCook State: IL Zip Code: 60525

County: Cook Township: Lyons

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

Latitude: 41.79102 Longitude: - 87.84208

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

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

Estimated Volume of debris (cu. Yd.): 56

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West 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 Department of Transportation

Street Address: 201 West 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):

Soil from borings B03 and B04 were sampled adjacent to ISGS Site No 2815V-2.
See Exhibit 2 and Table 3 of the Preliminary Site Investigation Report prepared by Terracon.

- 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]:

TestAmerica Lab Report No J167743-1, J167744-1.

Also see Preliminary Site Investigation Report prepared by Terracon. CCDD/USFO facility in MSA County (excluding Chicago).

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

I, Matt Weiss (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.

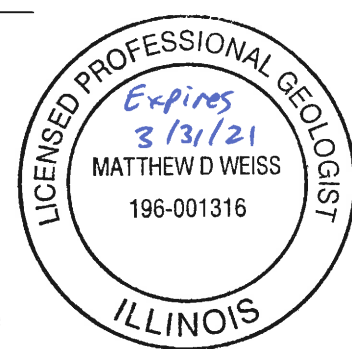
Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Terracon Consultants, Inc.
 Street Address: 192 Exchange Boulevard
 City: Glendale Heights State: IL Zip Code: 60139
 Phone: 630-717-4263

Matt Weiss
Printed Name:

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

9/25/19
Date:



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



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)

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

I. Source Location Information

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

Project Name: FAU 3562-Joliet Rd at 55th Street Office Phone Number, if available: _____

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

Joliet Rd (Northbound) IDOT STA 551+40 to 552+30; IDOT STA 554+60 to 555+90 (ISGS Site 2815V-2)

City: McCook State: IL Zip Code: 60525

County: Cook Township: Lyons

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

Latitude: 41.79102 Longitude: - 87.84208

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

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

Estimated Volume of debris (cu. Yd.): 56

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West 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

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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):

Soil from borings B07 and B10 were sampled adjacent to ISGS Site No 2815V-2.
See Exhibit 2 and Table 3 of the Preliminary Site Investigation Report prepared by Terracon.

- 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]:

TestAmerica Lab Report No J167743-1, J167744-1.
Also see Preliminary Site Investigation Report prepared by Terracon. CCDD/USFO facility in MSA County.

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

I, Matt Weiss (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: Terracon Consultants, Inc.
Street Address: 192 Exchange Boulevard
City: Glendale Heights State: IL Zip Code: 60139
Phone: 630-717-4263

Matt Weiss
Printed Name:

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

9/25/19
Date:



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

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2815V-2-B03 (0-4)	2815V-2-B04 (0-4)	2815V-2-B07 (0-3.5)	2815V-2-B10 (0-3.5)	2815V-2-B10 (0-3.5) Dup
				CCDD	Sample Depth (feet)	(0-4)	(0-4)	(0-3.5)	(0-3.5)	(0-3.5)
		mg/kg	Date Collected	08/02/2019	08/02/2019	08/02/2019	08/02/2019	08/02/2019		
		Chicago	MSAs	pH 6.25-9.0						
Volatile Organic Analytical Parameters										
Acetone	mg/kg	---	---	25		<0.0079	<0.0071	0.015	0.026	0.041
Methylene Chloride	mg/kg	---	---	0.02		<0.0018	<0.0016	0.0044	0.0032	0.0024
Semivolatile Organic Analytical Parameters										
Acenaphthene	mg/kg	0.09	0.13	570		0.14	0.043	0.0096	0.051	0.05
Acenaphthylene	mg/kg	0.03	0.07	85		0.016	0.0093	0.16	0.025	0.033
Anthracene	mg/kg	0.25	0.4	12000		0.22	0.091	0.093	0.18	0.22
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		1.2	0.85	0.26	0.56	0.96
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		1.5	1	0.3	0.55	0.95
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		2	1.5	0.41	0.73	1.2
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		1.1	0.52	0.098	0.23	0.36
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.68	0.44	0.14	0.23	0.34
Chrysene	mg/kg	1.2	2.7	88		1.5	1	0.31	0.56	0.91
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		0.25	0.13	0.033	0.053	0.088
Fluoranthene	mg/kg	2.7	4.1	3100		3.7	1.9	0.38	1.3	1.9
Fluorene	mg/kg	0.1	0.18	560		0.13	0.039	0.015	0.044	0.047
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.93	0.51	0.1	0.2	0.33
Naphthalene	mg/kg	0.04	0.2	1.8		0.028	0.0088	0.071	0.037	0.02
Phenanthrene	mg/kg	1.3	2.5	210		1.9	0.81	0.21	0.74	0.83
Pyrene	mg/kg	1.9	3.0	2300		2.8	1.6	0.44	1.1	1.8
bis(2-Ethylhexyl)phthalate	mg/kg	---	---	46		<0.062	<0.064	<0.070	0.081	0.21
Carbazole	mg/kg	---	---	0.6		0.31	0.096	<0.095	<0.090	<0.087
Dibenzofuran	mg/kg	---	---	---		0.059	<0.041	<0.045	<0.042	<0.041
2-Methylnaphthalene	mg/kg	---	0.14	---		0.01	0.0068	0.18	0.042	0.021
Inorganic Analytical Parameters										
Arsenic	mg/kg	---	13	11.3		2.5	4.1	7.9	2.8	3.2
Barium	mg/kg	---	110	1500		12	49	61	34	28
Cadmium	mg/kg	---	0.6	5.2		0.21	0.32	0.25	0.39	0.34
Chromium, total	mg/kg	---	16.2	21		3.6	9.3	12	7.1	7.5
Lead	mg/kg	---	36	107		19	26	24	45	52
Mercury	mg/kg	---	0.06	0.1		<0.0055	0.013	0.022	0.025	0.033
Selenium	mg/kg	---	0.48	1.3		0.49	0.63	0.32	0.52	<0.29
Silver	mg/kg	---	0.55	4.4		0.46	0.94	2.4	0.82	0.7
Antimony	mg/kg	---	4.0	5		0.47	0.3	<0.20	0.41	0.31
Beryllium	mg/kg	---	0.59	22		0.11	0.28	0.47	0.23	0.21
Calcium	mg/kg	---	9,300	---		170000	140000	18000	150000	150000
Cobalt	mg/kg	---	8.9	20		2.1	4.1	8.3	2.9	2.8
Copper	mg/kg	---	19.6	2900		4.2	12	26	13	15
Cyanide	mg/kg	---	0.51	---		<0.19	<0.24	<0.23	<0.20	<0.26
Iron	mg/kg	---	15,900	15000		2900	6300	14000	5100	7700
Magnesium	mg/kg	---	4,820	325000		120000	91000	11000	100000	100000
Manganese	mg/kg	---	636	630		120	210	360	300	220
Nickel	mg/kg	---	18	100		3.3	8.8	18	6.5	8.4
Potassium	mg/kg	---	1,268	---		460	960	1200	730	690
Sodium	mg/kg	---	130	---		230	200	3700	250	270
Thallium	mg/kg	---	0.32	2.6		<0.25	<0.25	0.65	<0.26	<0.25
Vanadium	mg/kg	---	25.2	550		4.9	11	20	7.9	7.4
Zinc	mg/kg	---	95	5100		47	71	60	110	110
pH			6.25	9		8.9	8.7	7.8	9	8.9

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2815V-2-B03 (0-4)	2815V-2-B04 (0-4)	2815V-2-B07 (0-3.5)	2815V-2-B10 (0-3.5)	2815V-2-B10 (0-3.5) Dup
				CCDD	Sample Depth (feet)	(0-4)	(0-4)	(0-3.5)	(0-3.5)	(0-3.5)
				mg/kg pH 6.25-9.0	Date Collected	08/02/2019	08/02/2019	08/02/2019	08/02/2019	08/02/2019
		Chicago	MSAs							
Inorganic Analytical Parameters (SPLP)										
Antimony,SPLP	mg/L	---	---	---		--	--	--	--	--
Arsenic,SPLP	mg/L	---	---	---		--	--	--	--	--
Barium,SPLP	mg/L	---	---	---		--	--	--	--	--
Beryllium,SPLP	mg/L	---	---	---		--	--	--	--	--
Cadmium,SPLP	mg/L	---	---	---		--	--	--	--	--
Calcium,SPLP	mg/L	---	---	---		--	--	--	--	--
Chromium,SPLP	mg/L	---	---	---		--	--	--	--	--
Cobalt,SPLP	mg/L	---	---	---		--	--	--	--	--
Copper,SPLP	mg/L	---	---	---		--	--	--	--	--
Iron,SPLP	mg/L	---	---	---		--	--	--	--	--
Lead,SPLP	mg/L	---	---	---		--	--	--	--	--
Magnesium,SPLP	mg/L	---	---	---		--	--	--	--	--
Manganese,SPLP	mg/L	---	---	---		0.029	0.1	1.2	0.087	0.13
Mercury,SPLP	mg/L	---	---	---		--	--	--	--	--
Nickel,SPLP	mg/L	---	---	---		--	--	--	--	--
Potassium,SPLP	mg/L	---	---	---		--	--	--	--	--
Selenium,SPLP	mg/L	---	---	---		--	--	--	--	--
Silver,SPLP	mg/L	---	---	---		--	--	--	--	--
Sodium,SPLP	mg/L	---	---	---		--	--	--	--	--
Thallium,SPLP	mg/L	---	---	---		--	--	--	--	--
Vanadium,SPLP	mg/L	---	---	---		--	--	--	--	--
Zinc,SPLP	mg/L	---	---	---		--	--	--	--	--
Cyanide,SPLP	mg/L	---	---	---		--	--	--	--	--
Inorganic Analytical Parameters (TCLP)										
Arsenic,TCLP	mg/L	---	---	---		<0.010	<0.010	<0.010	<0.010	<0.010
Barium,TCLP	mg/L	---	---	---		0.2	0.33	0.41	0.38	0.33
Cadmium,TCLP	mg/L	---	---	---		<0.0020	<0.0020	<0.0020	0.0023	<0.0020
Chromium,TCLP	mg/L	---	---	---		<0.010	<0.010	<0.010	<0.010	<0.010
Lead,TCLP	mg/L	---	---	---		<0.0075	<0.0075	<0.0075	<0.0075	<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.020	<0.020	<0.020	<0.020	<0.020
Silver,TCLP	mg/L	---	---	---		<0.010	<0.010	<0.010	<0.010	<0.010
Antimony,TCLP	mg/L	---	---	---		<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Calcium,TCLP	mg/L	---	---	---		320	410	260	350	340
Cobalt,TCLP	mg/L	---	---	---		<0.010	<0.010	<0.010	0.013	<0.010
Copper,TCLP	mg/L	---	---	---		<0.010	<0.010	<0.010	<0.010	<0.010
Cyanide,TCLP	mg/L	---	---	---		---	---	---	---	---
Iron,TCLP	mg/L	---	---	---		<0.20	<0.20	<0.20	<0.20	<0.20
Magnesium,TCLP	mg/L	---	---	---		180	130	130	130	130
Manganese,TCLP	mg/L	---	---	---		0.29	0.24	1.2	2.2	2.4
Nickel,TCLP	mg/L	---	---	---		<0.010	<0.010	<0.010	0.015	0.012
Potassium,TCLP	mg/L	---	---	---		1.8	1.9	6	2.6	2.5
Sodium,TCLP	mg/L	---	---	---		---	---	---	---	---
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.010	<0.010	<0.010	<0.010	<0.010
Zinc,TCLP	mg/L	---	---	---		0.11	0.12	0.56	0.49	0.22

ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-167743-1
Client Project/Site: IDOT - McCook - WO 061

For:

Terracon Consulting Eng & Scientists
192 Exchange Blvd
Glendale Heights, Illinois 60139

Attn: Mr. Matthew Weiss



Authorized for release by:
8/15/2019 9:17:17 AM

Richard Wright, Senior Project Manager
(708)534-5200
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LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - McCook - WO 061

Job ID: 500-167743-1

Job ID: 500-167743-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-167743-1

Receipt

The samples were received on 8/2/2019 4:15 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 6.1° C, 6.3° C and 8.4° C.

GC/MS VOA

One Surrogate (Dibromofluoromethane) recovery for the following sample was outside control limits: 9C-ALSF-5+49 (4-5) (500-167741-6). Evidence of matrix interference is present due to the basic pH 11 of the sample; therefore, no re-analysis was not performed.

The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for 498117 recovered outside control limits for the following analytes: Vinyl chloride and Methylene chloride. Vinyl chloride was biased high in the LCS/ LCSD while Methylene chloride was biased high in the LCSD. Vinyl chloride was not detected while Methylene chloride was detected below the reporting limit in the associated samples; therefore, the data have been reported.

The laboratory control sample (LCS) for 498284 recovered outside control limits for the following analyte: Chloroethane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - McCook - WO 061

Job ID: 500-167743-1

Client Sample ID: 2815V-2-B01 (0-5)

Lab Sample ID: 500-167743-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.0021	J*	0.0045	0.0018	mg/Kg	1	☼	8260B	Total/NA
Anthracene	0.0091	J	0.035	0.0059	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.063		0.035	0.0048	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.072		0.035	0.0068	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.11		0.035	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.065		0.035	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.038		0.035	0.010	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.080		0.035	0.0096	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.014	J	0.035	0.0068	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.14		0.035	0.0066	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.055		0.035	0.0092	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.053		0.035	0.0049	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.12		0.035	0.0070	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.58	J	1.1	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	3.1		0.53	0.18	mg/Kg	1	☼	6010B	Total/NA
Barium	31		0.53	0.060	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.26		0.21	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.30	B	0.11	0.019	mg/Kg	1	☼	6010B	Total/NA
Chromium	6.5		0.53	0.26	mg/Kg	1	☼	6010B	Total/NA
Cobalt	3.3		0.27	0.069	mg/Kg	1	☼	6010B	Total/NA
Copper	12		0.53	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	5200		11	5.5	mg/Kg	1	☼	6010B	Total/NA
Lead	35		0.27	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	100000		27	13	mg/Kg	5	☼	6010B	Total/NA
Calcium	150000	B	53	9.0	mg/Kg	5	☼	6010B	Total/NA
Manganese	170		0.53	0.077	mg/Kg	1	☼	6010B	Total/NA
Nickel	6.4		0.53	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.58		0.53	0.31	mg/Kg	1	☼	6010B	Total/NA
Silver	0.90		0.27	0.068	mg/Kg	1	☼	6010B	Total/NA
Vanadium	10		0.27	0.063	mg/Kg	1	☼	6010B	Total/NA
Zinc	78		1.1	0.47	mg/Kg	1	☼	6010B	Total/NA
Potassium	910		27	9.4	mg/Kg	1	☼	6010B	Total/NA
Sodium	290	B	53	7.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.35	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	320		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	170		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.21		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.3		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.094	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.18		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.012	J	0.017	0.0058	mg/Kg	1	☼	7471B	Total/NA
pH	9.0		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2815V-2-B01 (0-5) Dup

Lab Sample ID: 500-167743-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.0036	J*	0.0047	0.0019	mg/Kg	1	☼	8260B	Total/NA
Acenaphthene	0.014	J	0.035	0.0064	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.0068	J	0.035	0.0047	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.038		0.035	0.0059	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.26		0.035	0.0048	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167743-1

Client Sample ID: 2815V-2-B01 (0-5) Dup (Continued)

Lab Sample ID: 500-167743-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	0.32		0.035	0.0069	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.45		0.035	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.20		0.035	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.15		0.035	0.010	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.32		0.035	0.0097	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.045		0.035	0.0069	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.63		0.035	0.0066	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.014	J	0.035	0.0050	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.18		0.035	0.0092	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.24		0.035	0.0050	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.48		0.035	0.0071	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.33	J	1.1	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	3.1		0.53	0.18	mg/Kg	1	☼	6010B	Total/NA
Barium	29		0.53	0.060	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.23		0.21	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.33	B	0.11	0.019	mg/Kg	1	☼	6010B	Total/NA
Chromium	7.0		0.53	0.26	mg/Kg	1	☼	6010B	Total/NA
Cobalt	3.3		0.26	0.069	mg/Kg	1	☼	6010B	Total/NA
Copper	14		0.53	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	4800		11	5.5	mg/Kg	1	☼	6010B	Total/NA
Lead	32		0.26	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	100000		26	13	mg/Kg	5	☼	6010B	Total/NA
Calcium	150000	B	53	8.9	mg/Kg	5	☼	6010B	Total/NA
Manganese	170		0.53	0.076	mg/Kg	1	☼	6010B	Total/NA
Nickel	5.7		0.53	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.50	J	0.53	0.31	mg/Kg	1	☼	6010B	Total/NA
Silver	0.84		0.26	0.068	mg/Kg	1	☼	6010B	Total/NA
Vanadium	9.4		0.26	0.062	mg/Kg	1	☼	6010B	Total/NA
Zinc	110		1.1	0.46	mg/Kg	1	☼	6010B	Total/NA
Potassium	820		26	9.3	mg/Kg	1	☼	6010B	Total/NA
Sodium	240	B	53	7.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.32	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	310		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	170		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.27		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.6		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.24	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.20		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.013	J	0.017	0.0058	mg/Kg	1	☼	7471B	Total/NA
pH	8.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2815V-2-B01 (5-10)

Lab Sample ID: 500-167743-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0096	J	0.016	0.0071	mg/Kg	1	☼	8260B	Total/NA
Benzo[a]anthracene	0.019	J	0.035	0.0047	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.022	J	0.035	0.0068	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.030	J	0.035	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.019	J	0.035	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.024	J	0.035	0.0095	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.038		0.035	0.0065	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167743-1

Client Sample ID: 2815V-2-B01 (5-10) (Continued)

Lab Sample ID: 500-167743-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Indeno[1,2,3-cd]pyrene	0.016	J	0.035	0.0091	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.017	J	0.035	0.0049	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.033	J	0.035	0.0069	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.25	J	0.99	0.19	mg/Kg	1	☼	6010B	Total/NA
Arsenic	1.7		0.49	0.17	mg/Kg	1	☼	6010B	Total/NA
Barium	16		0.49	0.056	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.13	J	0.20	0.046	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.19	B	0.099	0.018	mg/Kg	1	☼	6010B	Total/NA
Chromium	3.7		0.49	0.24	mg/Kg	1	☼	6010B	Total/NA
Cobalt	2.2		0.25	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	4.5		0.49	0.14	mg/Kg	1	☼	6010B	Total/NA
Iron	2600		9.9	5.1	mg/Kg	1	☼	6010B	Total/NA
Lead	10		0.25	0.11	mg/Kg	1	☼	6010B	Total/NA
Magnesium	120000		25	12	mg/Kg	5	☼	6010B	Total/NA
Calcium	180000	B	99	17	mg/Kg	10	☼	6010B	Total/NA
Manganese	110		0.49	0.072	mg/Kg	1	☼	6010B	Total/NA
Nickel	2.9		0.49	0.14	mg/Kg	1	☼	6010B	Total/NA
Silver	0.34		0.25	0.064	mg/Kg	1	☼	6010B	Total/NA
Vanadium	4.8		0.25	0.058	mg/Kg	1	☼	6010B	Total/NA
Zinc	18		0.99	0.43	mg/Kg	1	☼	6010B	Total/NA
Potassium	590		25	8.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	250	B	49	7.3	mg/Kg	1	☼	6010B	Total/NA
Barium	0.19	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	310		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	170		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.45		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.0	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.036	J	0.50	0.020	mg/L	1		6010B	TCLP
pH	9.2		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2815V-2-B02 (0-4)

Lab Sample ID: 500-167743-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.15		0.035	0.0063	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.031	J	0.035	0.0046	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.27		0.035	0.0059	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	2.3		0.035	0.0047	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.10	J	0.18	0.064	mg/Kg	1	☼	8270D	Total/NA
Carbazole	0.38		0.18	0.088	mg/Kg	1	☼	8270D	Total/NA
Dibenzofuran	0.058	J	0.18	0.041	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.14		0.035	0.0049	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.013	J	0.071	0.0065	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.018	J	0.035	0.0054	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene - DL	2.4		0.17	0.034	mg/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene - DL	3.7		0.17	0.038	mg/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene - DL	1.2		0.17	0.057	mg/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene - DL	1.1		0.17	0.052	mg/Kg	5	☼	8270D	Total/NA
Chrysene - DL	2.4		0.17	0.048	mg/Kg	5	☼	8270D	Total/NA
Dibenz(a,h)anthracene - DL	0.32		0.17	0.034	mg/Kg	5	☼	8270D	Total/NA
Fluoranthene - DL	5.2		0.17	0.033	mg/Kg	5	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167743-1

Client Sample ID: 2815V-2-B02 (0-4) (Continued)

Lab Sample ID: 500-167743-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Indeno[1,2,3-cd]pyrene - DL	1.1		0.17	0.046	mg/Kg	5	☼	8270D	Total/NA
Phenanthrene - DL	2.1		0.17	0.025	mg/Kg	5	☼	8270D	Total/NA
Pyrene - DL	4.1		0.17	0.035	mg/Kg	5	☼	8270D	Total/NA
Antimony	0.59	J	1.0	0.20	mg/Kg	1	☼	6010B	Total/NA
Arsenic	3.1		0.51	0.17	mg/Kg	1	☼	6010B	Total/NA
Barium	32		0.51	0.058	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.28		0.20	0.048	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.33	B	0.10	0.018	mg/Kg	1	☼	6010B	Total/NA
Chromium	13		0.51	0.25	mg/Kg	1	☼	6010B	Total/NA
Cobalt	3.3		0.25	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	19		0.51	0.14	mg/Kg	1	☼	6010B	Total/NA
Iron	6500		10	5.3	mg/Kg	1	☼	6010B	Total/NA
Lead	33		0.25	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	89000		25	13	mg/Kg	5	☼	6010B	Total/NA
Calcium	130000	B	51	8.6	mg/Kg	5	☼	6010B	Total/NA
Manganese	200		0.51	0.074	mg/Kg	1	☼	6010B	Total/NA
Nickel	8.2		0.51	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.79		0.51	0.30	mg/Kg	1	☼	6010B	Total/NA
Silver	0.97		0.25	0.066	mg/Kg	1	☼	6010B	Total/NA
Vanadium	12		0.25	0.060	mg/Kg	1	☼	6010B	Total/NA
Zinc	100		1.0	0.45	mg/Kg	1	☼	6010B	Total/NA
Potassium	940		25	9.0	mg/Kg	1	☼	6010B	Total/NA
Sodium	220	B	51	7.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.35	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	310		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	160		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.28		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.1		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.20	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.20		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.010	J	0.017	0.0055	mg/Kg	1	☼	7471B	Total/NA
pH	8.5		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2815V-2-B03 (0-4)

Lab Sample ID: 500-167743-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.14		0.034	0.0061	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.016	J	0.034	0.0045	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.22		0.034	0.0057	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	1.2		0.034	0.0046	mg/Kg	1	☼	8270D	Total/NA
Carbazole	0.31		0.17	0.085	mg/Kg	1	☼	8270D	Total/NA
Chrysene	1.5		0.034	0.0092	mg/Kg	1	☼	8270D	Total/NA
Dibenzofuran	0.059	J	0.17	0.040	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.13		0.034	0.0048	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.010	J	0.068	0.0062	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.028	J	0.034	0.0052	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	1.9		0.034	0.0047	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene - DL	1.5		0.067	0.013	mg/Kg	2	☼	8270D	Total/NA
Benzo[b]fluoranthene - DL	2.0		0.067	0.015	mg/Kg	2	☼	8270D	Total/NA
Benzo[g,h,i]perylene - DL	1.1		0.067	0.022	mg/Kg	2	☼	8270D	Total/NA
Benzo[k]fluoranthene - DL	0.68		0.067	0.020	mg/Kg	2	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167743-1

Client Sample ID: 2815V-2-B03 (0-4) (Continued)

Lab Sample ID: 500-167743-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dibenz(a,h)anthracene - DL	0.25		0.067	0.013	mg/Kg	2	☼	8270D	Total/NA
Fluoranthene - DL	3.7		0.067	0.013	mg/Kg	2	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene - DL	0.93		0.067	0.018	mg/Kg	2	☼	8270D	Total/NA
Pyrene - DL	2.8		0.067	0.013	mg/Kg	2	☼	8270D	Total/NA
Antimony	0.47	J	0.99	0.19	mg/Kg	1	☼	6010B	Total/NA
Arsenic	2.5		0.49	0.17	mg/Kg	1	☼	6010B	Total/NA
Barium	12		0.49	0.056	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.11	J	0.20	0.046	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.21	B	0.099	0.018	mg/Kg	1	☼	6010B	Total/NA
Chromium	3.6		0.49	0.24	mg/Kg	1	☼	6010B	Total/NA
Cobalt	2.1		0.25	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	4.2		0.49	0.14	mg/Kg	1	☼	6010B	Total/NA
Iron	2900		9.9	5.1	mg/Kg	1	☼	6010B	Total/NA
Lead	19		0.25	0.11	mg/Kg	1	☼	6010B	Total/NA
Magnesium	120000		25	12	mg/Kg	5	☼	6010B	Total/NA
Calcium	170000	B	99	17	mg/Kg	10	☼	6010B	Total/NA
Manganese	120		0.49	0.072	mg/Kg	1	☼	6010B	Total/NA
Nickel	3.3		0.49	0.14	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.49		0.49	0.29	mg/Kg	1	☼	6010B	Total/NA
Silver	0.46		0.25	0.064	mg/Kg	1	☼	6010B	Total/NA
Vanadium	4.9		0.25	0.058	mg/Kg	1	☼	6010B	Total/NA
Zinc	47		0.99	0.43	mg/Kg	1	☼	6010B	Total/NA
Potassium	460		25	8.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	230	B	49	7.3	mg/Kg	1	☼	6010B	Total/NA
Barium	0.20	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	320		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	180		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.29		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.8	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.11	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.029		0.025	0.010	mg/L	1		6010B	SPLP East
pH	8.9		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2815V-2-B09 (0-3.5)

Lab Sample ID: 500-167743-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.0033	J*	0.0038	0.0015	mg/Kg	1	☼	8260B	Total/NA
Acenaphthene	0.052		0.034	0.0062	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.26		0.034	0.0046	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.26		0.034	0.0058	mg/Kg	1	☼	8270D	Total/NA
Dibenzofuran	0.22		0.17	0.041	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.86		0.034	0.0064	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.044		0.034	0.0049	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.54		0.070	0.0064	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.11		0.034	0.0053	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.98		0.034	0.0048	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene - DL	0.48		0.069	0.0093	mg/Kg	2	☼	8270D	Total/NA
Benzo[a]pyrene - DL	0.56		0.069	0.013	mg/Kg	2	☼	8270D	Total/NA
Benzo[b]fluoranthene - DL	0.46		0.069	0.015	mg/Kg	2	☼	8270D	Total/NA
Benzo[g,h,i]perylene - DL	0.19		0.069	0.022	mg/Kg	2	☼	8270D	Total/NA
Benzo[k]fluoranthene - DL	0.56		0.069	0.020	mg/Kg	2	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167743-1

Client Sample ID: 2815V-2-B09 (0-3.5) (Continued)

Lab Sample ID: 500-167743-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysene - DL	0.69		0.069	0.019	mg/Kg	2	☼	8270D	Total/NA
Dibenz(a,h)anthracene - DL	0.064	J	0.069	0.013	mg/Kg	2	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene - DL	0.18		0.069	0.018	mg/Kg	2	☼	8270D	Total/NA
Pyrene - DL	0.87		0.069	0.014	mg/Kg	2	☼	8270D	Total/NA
Antimony	0.55	J	1.0	0.20	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.2		0.51	0.18	mg/Kg	1	☼	6010B	Total/NA
Barium	25		0.51	0.059	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.31		0.21	0.048	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.31	B	0.10	0.019	mg/Kg	1	☼	6010B	Total/NA
Chromium	3.8		0.51	0.25	mg/Kg	1	☼	6010B	Total/NA
Cobalt	3.7		0.26	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	9.0		0.51	0.14	mg/Kg	1	☼	6010B	Total/NA
Iron	5600		10	5.4	mg/Kg	1	☼	6010B	Total/NA
Lead	41		0.26	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	86000		26	13	mg/Kg	5	☼	6010B	Total/NA
Calcium	120000	B	51	8.7	mg/Kg	5	☼	6010B	Total/NA
Manganese	200		0.51	0.075	mg/Kg	1	☼	6010B	Total/NA
Nickel	6.0		0.51	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.63		0.51	0.30	mg/Kg	1	☼	6010B	Total/NA
Silver	0.75		0.26	0.066	mg/Kg	1	☼	6010B	Total/NA
Vanadium	7.7		0.26	0.061	mg/Kg	1	☼	6010B	Total/NA
Zinc	31		1.0	0.45	mg/Kg	1	☼	6010B	Total/NA
Potassium	620		26	9.1	mg/Kg	1	☼	6010B	Total/NA
Sodium	2000	B	51	7.6	mg/Kg	1	☼	6010B	Total/NA
Barium	0.22	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	330		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	130		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.95		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	4.2		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.33	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.11		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.028		0.017	0.0056	mg/Kg	1	☼	7471B	Total/NA
pH	9.1		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2815V-2-B10 (0-3.5)

Lab Sample ID: 500-167743-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.026		0.016	0.0071	mg/Kg	1	☼	8260B	Total/NA
Methylene Chloride	0.0032	J	0.0041	0.0016	mg/Kg	1	☼	8260B	Total/NA
Acenaphthene	0.051		0.036	0.0065	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.025	J	0.036	0.0047	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.18		0.036	0.0060	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.081	J	0.18	0.066	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	1.3		0.036	0.0067	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.044		0.036	0.0050	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.042	J	0.072	0.0066	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.037		0.036	0.0055	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.74		0.036	0.0050	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene - DL	0.56		0.071	0.0097	mg/Kg	2	☼	8270D	Total/NA
Benzo[a]pyrene - DL	0.55		0.071	0.014	mg/Kg	2	☼	8270D	Total/NA
Benzo[b]fluoranthene - DL	0.73		0.071	0.016	mg/Kg	2	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167743-1

Client Sample ID: 2815V-2-B10 (0-3.5) (Continued)

Lab Sample ID: 500-167743-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[g,h,i]perylene - DL	0.23		0.071	0.023	mg/Kg	2	☼	8270D	Total/NA
Benzo[k]fluoranthene - DL	0.23		0.071	0.021	mg/Kg	2	☼	8270D	Total/NA
Chrysene - DL	0.56		0.071	0.020	mg/Kg	2	☼	8270D	Total/NA
Dibenz(a,h)anthracene - DL	0.053	J	0.071	0.014	mg/Kg	2	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene - DL	0.20		0.071	0.019	mg/Kg	2	☼	8270D	Total/NA
Pyrene - DL	1.1		0.071	0.014	mg/Kg	2	☼	8270D	Total/NA
Antimony	0.41	J	1.0	0.20	mg/Kg	1	☼	6010B	Total/NA
Arsenic	2.8		0.52	0.18	mg/Kg	1	☼	6010B	Total/NA
Barium	34		0.52	0.060	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.23		0.21	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.39	B	0.10	0.019	mg/Kg	1	☼	6010B	Total/NA
Chromium	7.1		0.52	0.26	mg/Kg	1	☼	6010B	Total/NA
Cobalt	2.9		0.26	0.069	mg/Kg	1	☼	6010B	Total/NA
Copper	13		0.52	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	5100		10	5.4	mg/Kg	1	☼	6010B	Total/NA
Lead	45		0.26	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	100000		26	13	mg/Kg	5	☼	6010B	Total/NA
Calcium	150000	B	52	8.9	mg/Kg	5	☼	6010B	Total/NA
Manganese	300		0.52	0.076	mg/Kg	1	☼	6010B	Total/NA
Nickel	6.5		0.52	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.52		0.52	0.31	mg/Kg	1	☼	6010B	Total/NA
Silver	0.82		0.26	0.068	mg/Kg	1	☼	6010B	Total/NA
Vanadium	7.9		0.26	0.062	mg/Kg	1	☼	6010B	Total/NA
Zinc	110		1.0	0.46	mg/Kg	1	☼	6010B	Total/NA
Potassium	730		26	9.3	mg/Kg	1	☼	6010B	Total/NA
Sodium	250	B	52	7.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.38	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0023	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	350		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	130		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	2.2		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.6		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.49	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.087		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.025		0.017	0.0058	mg/Kg	1	☼	7471B	Total/NA
pH	9.0		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2815V-2-B10 (0-3.5) Dup

Lab Sample ID: 500-167743-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.041		0.016	0.0070	mg/Kg	1	☼	8260B	Total/NA
Methylene Chloride	0.0024	J	0.0040	0.0016	mg/Kg	1	☼	8260B	Total/NA
Acenaphthene	0.050		0.035	0.0063	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.033	J	0.035	0.0046	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.22		0.035	0.0058	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	1.9		0.035	0.0065	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.047		0.035	0.0049	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.021	J	0.070	0.0064	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.020	J	0.035	0.0054	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167743-1

Client Sample ID: 2815V-2-B10 (0-3.5) Dup (Continued)

Lab Sample ID: 500-167743-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.83		0.035	0.0049	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene - DL	0.96		0.069	0.0094	mg/Kg	2	☼	8270D	Total/NA
Benzo[a]pyrene - DL	0.95		0.069	0.014	mg/Kg	2	☼	8270D	Total/NA
Benzo[b]fluoranthene - DL	1.2		0.069	0.015	mg/Kg	2	☼	8270D	Total/NA
Benzo[g,h,i]perylene - DL	0.36		0.069	0.022	mg/Kg	2	☼	8270D	Total/NA
Benzo[k]fluoranthene - DL	0.34		0.069	0.021	mg/Kg	2	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate - DL	0.21	J	0.35	0.13	mg/Kg	2	☼	8270D	Total/NA
Chrysene - DL	0.91		0.069	0.019	mg/Kg	2	☼	8270D	Total/NA
Dibenz(a,h)anthracene - DL	0.088		0.069	0.013	mg/Kg	2	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene - DL	0.33		0.069	0.018	mg/Kg	2	☼	8270D	Total/NA
Pyrene - DL	1.8		0.069	0.014	mg/Kg	2	☼	8270D	Total/NA
Antimony	0.31	J	1.0	0.19	mg/Kg	1	☼	6010B	Total/NA
Arsenic	3.2		0.50	0.17	mg/Kg	1	☼	6010B	Total/NA
Barium	28		0.50	0.057	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.21		0.20	0.047	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.34	B	0.10	0.018	mg/Kg	1	☼	6010B	Total/NA
Chromium	7.5		0.50	0.25	mg/Kg	1	☼	6010B	Total/NA
Cobalt	2.8		0.25	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	15		0.50	0.14	mg/Kg	1	☼	6010B	Total/NA
Iron	7700		10	5.2	mg/Kg	1	☼	6010B	Total/NA
Lead	52		0.25	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	100000		25	12	mg/Kg	5	☼	6010B	Total/NA
Calcium	150000	B	50	8.5	mg/Kg	5	☼	6010B	Total/NA
Manganese	220		0.50	0.073	mg/Kg	1	☼	6010B	Total/NA
Nickel	8.4		0.50	0.15	mg/Kg	1	☼	6010B	Total/NA
Silver	0.70		0.25	0.065	mg/Kg	1	☼	6010B	Total/NA
Vanadium	7.4		0.25	0.059	mg/Kg	1	☼	6010B	Total/NA
Zinc	110		1.0	0.44	mg/Kg	1	☼	6010B	Total/NA
Potassium	690		25	8.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	270	B	50	7.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.33	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	340		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	130		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	2.4		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.5		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.22	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.13		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.033		0.016	0.0055	mg/Kg	1	☼	7471B	Total/NA
pH	8.9		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - McCook - WO 061

Job ID: 500-167743-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-167743-1	2815V-2-B01 (0-5)	Solid	08/02/19 09:10	08/02/19 16:15	
500-167743-2	2815V-2-B01 (0-5) Dup	Solid	08/02/19 09:15	08/02/19 16:15	
500-167743-3	2815V-2-B01 (5-10)	Solid	08/02/19 09:20	08/02/19 16:15	
500-167743-4	2815V-2-B02 (0-4)	Solid	08/02/19 09:35	08/02/19 16:15	
500-167743-5	2815V-2-B03 (0-4)	Solid	08/02/19 10:30	08/02/19 16:15	
500-167743-6	2815V-2-B09 (0-3.5)	Solid	08/02/19 11:50	08/02/19 16:15	
500-167743-7	2815V-2-B10 (0-3.5)	Solid	08/02/19 11:10	08/02/19 16:15	
500-167743-8	2815V-2-B10 (0-3.5) Dup	Solid	08/02/19 11:15	08/02/19 16:15	

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - McCook - WO 061

Job ID: 500-167743-1

Client Sample ID: 2815V-2-B01 (0-5)

Lab Sample ID: 500-167743-1

Date Collected: 08/02/19 09:10

Matrix: Solid

Date Received: 08/02/19 16:15

Percent Solids: 91.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0078		0.018	0.0078	mg/Kg	☼	08/02/19 17:22	08/05/19 16:09	1
Benzene	<0.00046		0.0018	0.00046	mg/Kg	☼	08/02/19 17:22	08/05/19 16:09	1
Bromodichloromethane	<0.00037		0.0018	0.00037	mg/Kg	☼	08/02/19 17:22	08/05/19 16:09	1
Bromoform	<0.00053		0.0018	0.00053	mg/Kg	☼	08/02/19 17:22	08/05/19 16:09	1
Bromomethane	<0.0017		0.0045	0.0017	mg/Kg	☼	08/02/19 17:22	08/05/19 16:09	1
2-Butanone (MEK)	<0.0020		0.0045	0.0020	mg/Kg	☼	08/02/19 17:22	08/05/19 16:09	1
Carbon disulfide	<0.00094		0.0045	0.00094	mg/Kg	☼	08/02/19 17:22	08/05/19 16:09	1
Carbon tetrachloride	<0.00052		0.0018	0.00052	mg/Kg	☼	08/02/19 17:22	08/05/19 16:09	1
Chlorobenzene	<0.00066		0.0018	0.00066	mg/Kg	☼	08/02/19 17:22	08/05/19 16:09	1
Chloroethane	<0.0013		0.0045	0.0013	mg/Kg	☼	08/02/19 17:22	08/05/19 16:09	1
Chloroform	<0.00063		0.0018	0.00063	mg/Kg	☼	08/02/19 17:22	08/05/19 16:09	1
Chloromethane	<0.0018		0.0045	0.0018	mg/Kg	☼	08/02/19 17:22	08/05/19 16:09	1
cis-1,2-Dichloroethene	<0.00050		0.0018	0.00050	mg/Kg	☼	08/02/19 17:22	08/05/19 16:09	1
cis-1,3-Dichloropropene	<0.00054		0.0018	0.00054	mg/Kg	☼	08/02/19 17:22	08/05/19 16:09	1
Dibromochloromethane	<0.00059		0.0018	0.00059	mg/Kg	☼	08/02/19 17:22	08/05/19 16:09	1
1,1-Dichloroethane	<0.00062		0.0018	0.00062	mg/Kg	☼	08/02/19 17:22	08/05/19 16:09	1
1,2-Dichloroethane	<0.0014		0.0045	0.0014	mg/Kg	☼	08/02/19 17:22	08/05/19 16:09	1
1,1-Dichloroethene	<0.00062		0.0018	0.00062	mg/Kg	☼	08/02/19 17:22	08/05/19 16:09	1
1,2-Dichloropropene	<0.00047		0.0018	0.00047	mg/Kg	☼	08/02/19 17:22	08/05/19 16:09	1
1,3-Dichloropropene, Total	<0.00063		0.0018	0.00063	mg/Kg	☼	08/02/19 17:22	08/05/19 16:09	1
Ethylbenzene	<0.00086		0.0018	0.00086	mg/Kg	☼	08/02/19 17:22	08/05/19 16:09	1
2-Hexanone	<0.0014		0.0045	0.0014	mg/Kg	☼	08/02/19 17:22	08/05/19 16:09	1
Methylene Chloride	0.0021	J *	0.0045	0.0018	mg/Kg	☼	08/02/19 17:22	08/05/19 16:09	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0045	0.0013	mg/Kg	☼	08/02/19 17:22	08/05/19 16:09	1
Methyl tert-butyl ether	<0.00053		0.0018	0.00053	mg/Kg	☼	08/02/19 17:22	08/05/19 16:09	1
Styrene	<0.00054		0.0018	0.00054	mg/Kg	☼	08/02/19 17:22	08/05/19 16:09	1
1,1,2,2-Tetrachloroethane	<0.00058		0.0018	0.00058	mg/Kg	☼	08/02/19 17:22	08/05/19 16:09	1
Tetrachloroethene	<0.00061		0.0018	0.00061	mg/Kg	☼	08/02/19 17:22	08/05/19 16:09	1
Toluene	<0.00045		0.0018	0.00045	mg/Kg	☼	08/02/19 17:22	08/05/19 16:09	1
trans-1,2-Dichloroethene	<0.00080		0.0018	0.00080	mg/Kg	☼	08/02/19 17:22	08/05/19 16:09	1
trans-1,3-Dichloropropene	<0.00063		0.0018	0.00063	mg/Kg	☼	08/02/19 17:22	08/05/19 16:09	1
1,1,1-Trichloroethane	<0.00060		0.0018	0.00060	mg/Kg	☼	08/02/19 17:22	08/05/19 16:09	1
1,1,2-Trichloroethane	<0.00077		0.0018	0.00077	mg/Kg	☼	08/02/19 17:22	08/05/19 16:09	1
Trichloroethene	<0.00061		0.0018	0.00061	mg/Kg	☼	08/02/19 17:22	08/05/19 16:09	1
Vinyl acetate	<0.0016		0.0045	0.0016	mg/Kg	☼	08/02/19 17:22	08/05/19 16:09	1
Vinyl chloride	<0.00080	*	0.0018	0.00080	mg/Kg	☼	08/02/19 17:22	08/05/19 16:09	1
Xylenes, Total	<0.00058		0.0036	0.00058	mg/Kg	☼	08/02/19 17:22	08/05/19 16:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		75 - 131	08/02/19 17:22	08/05/19 16:09	1
Dibromofluoromethane	109		75 - 126	08/02/19 17:22	08/05/19 16:09	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 134	08/02/19 17:22	08/05/19 16:09	1
Toluene-d8 (Surr)	98		75 - 124	08/02/19 17:22	08/05/19 16:09	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0064		0.035	0.0064	mg/Kg	☼	08/05/19 19:44	08/06/19 12:41	1
Acenaphthylene	<0.0047		0.035	0.0047	mg/Kg	☼	08/05/19 19:44	08/06/19 12:41	1
Anthracene	0.0091	J	0.035	0.0059	mg/Kg	☼	08/05/19 19:44	08/06/19 12:41	1
Benzo[a]anthracene	0.063		0.035	0.0048	mg/Kg	☼	08/05/19 19:44	08/06/19 12:41	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167743-1

Client Sample ID: 2815V-2-B01 (0-5)

Lab Sample ID: 500-167743-1

Date Collected: 08/02/19 09:10

Matrix: Solid

Date Received: 08/02/19 16:15

Percent Solids: 91.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.072		0.035	0.0068	mg/Kg	☼	08/05/19 19:44	08/06/19 12:41	1
Benzo[b]fluoranthene	0.11		0.035	0.0076	mg/Kg	☼	08/05/19 19:44	08/06/19 12:41	1
Benzo[g,h,i]perylene	0.065		0.035	0.011	mg/Kg	☼	08/05/19 19:44	08/06/19 12:41	1
Benzo[k]fluoranthene	0.038		0.035	0.010	mg/Kg	☼	08/05/19 19:44	08/06/19 12:41	1
Bis(2-chloroethoxy)methane	<0.036		0.18	0.036	mg/Kg	☼	08/05/19 19:44	08/06/19 12:41	1
Bis(2-chloroethyl)ether	<0.053		0.18	0.053	mg/Kg	☼	08/05/19 19:44	08/06/19 12:41	1
Bis(2-ethylhexyl) phthalate	<0.065		0.18	0.065	mg/Kg	☼	08/05/19 19:44	08/06/19 12:41	1
4-Bromophenyl phenyl ether	<0.047		0.18	0.047	mg/Kg	☼	08/05/19 19:44	08/06/19 12:41	1
Butyl benzyl phthalate	<0.067		0.18	0.067	mg/Kg	☼	08/05/19 19:44	08/06/19 12:41	1
Carbazole	<0.088		0.18	0.088	mg/Kg	☼	08/05/19 19:44	08/06/19 12:41	1
4-Chloroaniline	<0.17		0.71	0.17	mg/Kg	☼	08/05/19 19:44	08/06/19 12:41	1
4-Chloro-3-methylphenol	<0.12		0.35	0.12	mg/Kg	☼	08/05/19 19:44	08/06/19 12:41	1
2-Chloronaphthalene	<0.039		0.18	0.039	mg/Kg	☼	08/05/19 19:44	08/06/19 12:41	1
2-Chlorophenol	<0.060		0.18	0.060	mg/Kg	☼	08/05/19 19:44	08/06/19 12:41	1
4-Chlorophenyl phenyl ether	<0.041		0.18	0.041	mg/Kg	☼	08/05/19 19:44	08/06/19 12:41	1
Chrysene	0.080		0.035	0.0096	mg/Kg	☼	08/05/19 19:44	08/06/19 12:41	1
Dibenz(a,h)anthracene	0.014 J		0.035	0.0068	mg/Kg	☼	08/05/19 19:44	08/06/19 12:41	1
Dibenzofuran	<0.041		0.18	0.041	mg/Kg	☼	08/05/19 19:44	08/06/19 12:41	1
1,2-Dichlorobenzene	<0.042		0.18	0.042	mg/Kg	☼	08/05/19 19:44	08/06/19 12:41	1
1,3-Dichlorobenzene	<0.040		0.18	0.040	mg/Kg	☼	08/05/19 19:44	08/06/19 12:41	1
1,4-Dichlorobenzene	<0.045		0.18	0.045	mg/Kg	☼	08/05/19 19:44	08/06/19 12:41	1
3,3'-Dichlorobenzidine	<0.049		0.18	0.049	mg/Kg	☼	08/05/19 19:44	08/06/19 12:41	1
2,4-Dichlorophenol	<0.084		0.35	0.084	mg/Kg	☼	08/05/19 19:44	08/06/19 12:41	1
Diethyl phthalate	<0.060		0.18	0.060	mg/Kg	☼	08/05/19 19:44	08/06/19 12:41	1
2,4-Dimethylphenol	<0.13		0.35	0.13	mg/Kg	☼	08/05/19 19:44	08/06/19 12:41	1
Dimethyl phthalate	<0.046		0.18	0.046	mg/Kg	☼	08/05/19 19:44	08/06/19 12:41	1
Di-n-butyl phthalate	<0.054		0.18	0.054	mg/Kg	☼	08/05/19 19:44	08/06/19 12:41	1
4,6-Dinitro-2-methylphenol	<0.28		0.71	0.28	mg/Kg	☼	08/05/19 19:44	08/06/19 12:41	1
2,4-Dinitrophenol	<0.62		0.71	0.62	mg/Kg	☼	08/05/19 19:44	08/06/19 12:41	1
2,4-Dinitrotoluene	<0.056		0.18	0.056	mg/Kg	☼	08/05/19 19:44	08/06/19 12:41	1
2,6-Dinitrotoluene	<0.069		0.18	0.069	mg/Kg	☼	08/05/19 19:44	08/06/19 12:41	1
Di-n-octyl phthalate	<0.058		0.18	0.058	mg/Kg	☼	08/05/19 19:44	08/06/19 12:41	1
Fluoranthene	0.14		0.035	0.0066	mg/Kg	☼	08/05/19 19:44	08/06/19 12:41	1
Fluorene	<0.0050		0.035	0.0050	mg/Kg	☼	08/05/19 19:44	08/06/19 12:41	1
Hexachlorobenzene	<0.0082		0.071	0.0082	mg/Kg	☼	08/05/19 19:44	08/06/19 12:41	1
Hexachlorobutadiene	<0.056		0.18	0.056	mg/Kg	☼	08/05/19 19:44	08/06/19 12:41	1
Hexachlorocyclopentadiene	<0.20		0.71	0.20	mg/Kg	☼	08/05/19 19:44	08/06/19 12:41	1
Hexachloroethane	<0.054		0.18	0.054	mg/Kg	☼	08/05/19 19:44	08/06/19 12:41	1
Indeno[1,2,3-cd]pyrene	0.055		0.035	0.0092	mg/Kg	☼	08/05/19 19:44	08/06/19 12:41	1
Isophorone	<0.040		0.18	0.040	mg/Kg	☼	08/05/19 19:44	08/06/19 12:41	1
2-Methylnaphthalene	<0.0065		0.071	0.0065	mg/Kg	☼	08/05/19 19:44	08/06/19 12:41	1
2-Methylphenol	<0.057		0.18	0.057	mg/Kg	☼	08/05/19 19:44	08/06/19 12:41	1
3 & 4 Methylphenol	<0.059		0.18	0.059	mg/Kg	☼	08/05/19 19:44	08/06/19 12:41	1
Naphthalene	<0.0054		0.035	0.0054	mg/Kg	☼	08/05/19 19:44	08/06/19 12:41	1
2-Nitroaniline	<0.048		0.18	0.048	mg/Kg	☼	08/05/19 19:44	08/06/19 12:41	1
3-Nitroaniline	<0.11		0.35	0.11	mg/Kg	☼	08/05/19 19:44	08/06/19 12:41	1
4-Nitroaniline	<0.15		0.35	0.15	mg/Kg	☼	08/05/19 19:44	08/06/19 12:41	1
Nitrobenzene	<0.0088		0.035	0.0088	mg/Kg	☼	08/05/19 19:44	08/06/19 12:41	1
2-Nitrophenol	<0.084		0.35	0.084	mg/Kg	☼	08/05/19 19:44	08/06/19 12:41	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167743-1

Client Sample ID: 2815V-2-B01 (0-5)

Lab Sample ID: 500-167743-1

Date Collected: 08/02/19 09:10

Matrix: Solid

Date Received: 08/02/19 16:15

Percent Solids: 91.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.34		0.71	0.34	mg/Kg	☼	08/05/19 19:44	08/06/19 12:41	1
N-Nitrosodi-n-propylamine	<0.043		0.071	0.043	mg/Kg	☼	08/05/19 19:44	08/06/19 12:41	1
N-Nitrosodiphenylamine	<0.042		0.18	0.042	mg/Kg	☼	08/05/19 19:44	08/06/19 12:41	1
2,2'-oxybis[1-chloropropane]	<0.041		0.18	0.041	mg/Kg	☼	08/05/19 19:44	08/06/19 12:41	1
Pentachlorophenol	<0.57		0.71	0.57	mg/Kg	☼	08/05/19 19:44	08/06/19 12:41	1
Phenanthrene	0.053		0.035	0.0049	mg/Kg	☼	08/05/19 19:44	08/06/19 12:41	1
Phenol	<0.079		0.18	0.079	mg/Kg	☼	08/05/19 19:44	08/06/19 12:41	1
Pyrene	0.12		0.035	0.0070	mg/Kg	☼	08/05/19 19:44	08/06/19 12:41	1
1,2,4-Trichlorobenzene	<0.038		0.18	0.038	mg/Kg	☼	08/05/19 19:44	08/06/19 12:41	1
2,4,5-Trichlorophenol	<0.081		0.35	0.081	mg/Kg	☼	08/05/19 19:44	08/06/19 12:41	1
2,4,6-Trichlorophenol	<0.12		0.35	0.12	mg/Kg	☼	08/05/19 19:44	08/06/19 12:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	74		43 - 145	08/05/19 19:44	08/06/19 12:41	1
2-Fluorophenol	80		31 - 166	08/05/19 19:44	08/06/19 12:41	1
Nitrobenzene-d5	64		37 - 147	08/05/19 19:44	08/06/19 12:41	1
Phenol-d5	64		30 - 153	08/05/19 19:44	08/06/19 12:41	1
Terphenyl-d14	91		42 - 157	08/05/19 19:44	08/06/19 12:41	1
2,4,6-Tribromophenol	89		31 - 143	08/05/19 19:44	08/06/19 12:41	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.58	J	1.1	0.21	mg/Kg	☼	08/05/19 07:50	08/05/19 17:48	1
Arsenic	3.1		0.53	0.18	mg/Kg	☼	08/05/19 07:50	08/05/19 17:48	1
Barium	31		0.53	0.060	mg/Kg	☼	08/05/19 07:50	08/05/19 17:48	1
Beryllium	0.26		0.21	0.050	mg/Kg	☼	08/05/19 07:50	08/07/19 10:52	1
Cadmium	0.30	B	0.11	0.019	mg/Kg	☼	08/05/19 07:50	08/05/19 17:48	1
Chromium	6.5		0.53	0.26	mg/Kg	☼	08/05/19 07:50	08/05/19 17:48	1
Cobalt	3.3		0.27	0.069	mg/Kg	☼	08/05/19 07:50	08/05/19 17:48	1
Copper	12		0.53	0.15	mg/Kg	☼	08/05/19 07:50	08/05/19 17:48	1
Iron	5200		11	5.5	mg/Kg	☼	08/05/19 07:50	08/05/19 17:48	1
Lead	35		0.27	0.12	mg/Kg	☼	08/05/19 07:50	08/05/19 17:48	1
Magnesium	100000		27	13	mg/Kg	☼	08/05/19 07:50	08/07/19 09:27	5
Calcium	150000	B	53	9.0	mg/Kg	☼	08/05/19 07:50	08/06/19 12:18	5
Manganese	170		0.53	0.077	mg/Kg	☼	08/05/19 07:50	08/05/19 17:48	1
Nickel	6.4		0.53	0.15	mg/Kg	☼	08/05/19 07:50	08/05/19 17:48	1
Selenium	0.58		0.53	0.31	mg/Kg	☼	08/05/19 07:50	08/05/19 17:48	1
Silver	0.90		0.27	0.068	mg/Kg	☼	08/05/19 07:50	08/05/19 17:48	1
Thallium	<0.26		0.53	0.26	mg/Kg	☼	08/05/19 07:50	08/05/19 17:48	1
Vanadium	10		0.27	0.063	mg/Kg	☼	08/05/19 07:50	08/05/19 17:48	1
Zinc	78		1.1	0.47	mg/Kg	☼	08/05/19 07:50	08/05/19 17:48	1
Potassium	910		27	9.4	mg/Kg	☼	08/05/19 07:50	08/05/19 17:48	1
Sodium	290	B	53	7.8	mg/Kg	☼	08/05/19 07:50	08/05/19 17:48	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/07/19 09:01	08/07/19 18:07	1
Barium	0.35	J	0.50	0.050	mg/L		08/07/19 09:01	08/07/19 18:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/07/19 09:01	08/07/19 18:07	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/07/19 09:01	08/07/19 18:07	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167743-1

Client Sample ID: 2815V-2-B01 (0-5)

Lab Sample ID: 500-167743-1

Date Collected: 08/02/19 09:10

Matrix: Solid

Date Received: 08/02/19 16:15

Percent Solids: 91.9

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	320		5.0	0.50	mg/L		08/07/19 09:01	08/07/19 18:07	1
Chromium	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 18:07	1
Cobalt	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 18:07	1
Copper	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 18:07	1
Iron	<0.20		0.40	0.20	mg/L		08/07/19 09:01	08/07/19 18:07	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/07/19 09:01	08/07/19 18:07	1
Magnesium	170		2.5	0.50	mg/L		08/07/19 09:01	08/07/19 18:07	1
Manganese	0.21		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 18:07	1
Nickel	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 18:07	1
Potassium	3.3		2.5	0.50	mg/L		08/07/19 09:01	08/07/19 18:07	1
Selenium	<0.020		0.050	0.020	mg/L		08/07/19 09:01	08/07/19 18:07	1
Silver	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 18:07	1
Vanadium	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 18:07	1
Zinc	0.094	J	0.50	0.020	mg/L		08/07/19 09:01	08/07/19 18:07	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.18		0.025	0.010	mg/L		08/07/19 14:43	08/08/19 16:51	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/07/19 09:01	08/08/19 17:16	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/07/19 09:01	08/08/19 17:16	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/07/19 13:25	08/08/19 09:30	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.012	J	0.017	0.0058	mg/Kg	☼	08/07/19 11:20	08/08/19 09:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.22		0.43	0.22	mg/Kg	☼	08/13/19 16:30	08/13/19 18:55	1
pH	9.0		0.2	0.2	SU			08/06/19 11:17	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - McCook - WO 061

Job ID: 500-167743-1

Client Sample ID: 2815V-2-B01 (0-5) Dup

Lab Sample ID: 500-167743-2

Date Collected: 08/02/19 09:15

Matrix: Solid

Date Received: 08/02/19 16:15

Percent Solids: 91.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0083		0.019	0.0083	mg/Kg	☼	08/02/19 17:22	08/05/19 16:35	1
Benzene	<0.00048		0.0019	0.00048	mg/Kg	☼	08/02/19 17:22	08/05/19 16:35	1
Bromodichloromethane	<0.00039		0.0019	0.00039	mg/Kg	☼	08/02/19 17:22	08/05/19 16:35	1
Bromoform	<0.00055		0.0019	0.00055	mg/Kg	☼	08/02/19 17:22	08/05/19 16:35	1
Bromomethane	<0.0018		0.0047	0.0018	mg/Kg	☼	08/02/19 17:22	08/05/19 16:35	1
2-Butanone (MEK)	<0.0021		0.0047	0.0021	mg/Kg	☼	08/02/19 17:22	08/05/19 16:35	1
Carbon disulfide	<0.00099		0.0047	0.00099	mg/Kg	☼	08/02/19 17:22	08/05/19 16:35	1
Carbon tetrachloride	<0.00055		0.0019	0.00055	mg/Kg	☼	08/02/19 17:22	08/05/19 16:35	1
Chlorobenzene	<0.00070		0.0019	0.00070	mg/Kg	☼	08/02/19 17:22	08/05/19 16:35	1
Chloroethane	<0.0014		0.0047	0.0014	mg/Kg	☼	08/02/19 17:22	08/05/19 16:35	1
Chloroform	<0.00066		0.0019	0.00066	mg/Kg	☼	08/02/19 17:22	08/05/19 16:35	1
Chloromethane	<0.0019		0.0047	0.0019	mg/Kg	☼	08/02/19 17:22	08/05/19 16:35	1
cis-1,2-Dichloroethene	<0.00053		0.0019	0.00053	mg/Kg	☼	08/02/19 17:22	08/05/19 16:35	1
cis-1,3-Dichloropropene	<0.00057		0.0019	0.00057	mg/Kg	☼	08/02/19 17:22	08/05/19 16:35	1
Dibromochloromethane	<0.00062		0.0019	0.00062	mg/Kg	☼	08/02/19 17:22	08/05/19 16:35	1
1,1-Dichloroethane	<0.00065		0.0019	0.00065	mg/Kg	☼	08/02/19 17:22	08/05/19 16:35	1
1,2-Dichloroethane	<0.0015		0.0047	0.0015	mg/Kg	☼	08/02/19 17:22	08/05/19 16:35	1
1,1-Dichloroethene	<0.00065		0.0019	0.00065	mg/Kg	☼	08/02/19 17:22	08/05/19 16:35	1
1,2-Dichloropropane	<0.00049		0.0019	0.00049	mg/Kg	☼	08/02/19 17:22	08/05/19 16:35	1
1,3-Dichloropropane, Total	<0.00067		0.0019	0.00067	mg/Kg	☼	08/02/19 17:22	08/05/19 16:35	1
Ethylbenzene	<0.00091		0.0019	0.00091	mg/Kg	☼	08/02/19 17:22	08/05/19 16:35	1
2-Hexanone	<0.0015		0.0047	0.0015	mg/Kg	☼	08/02/19 17:22	08/05/19 16:35	1
Methylene Chloride	0.0036	J*	0.0047	0.0019	mg/Kg	☼	08/02/19 17:22	08/05/19 16:35	1
4-Methyl-2-pentanone (MIBK)	<0.0014		0.0047	0.0014	mg/Kg	☼	08/02/19 17:22	08/05/19 16:35	1
Methyl tert-butyl ether	<0.00056		0.0019	0.00056	mg/Kg	☼	08/02/19 17:22	08/05/19 16:35	1
Styrene	<0.00057		0.0019	0.00057	mg/Kg	☼	08/02/19 17:22	08/05/19 16:35	1
1,1,2,2-Tetrachloroethane	<0.00061		0.0019	0.00061	mg/Kg	☼	08/02/19 17:22	08/05/19 16:35	1
Tetrachloroethene	<0.00065		0.0019	0.00065	mg/Kg	☼	08/02/19 17:22	08/05/19 16:35	1
Toluene	<0.00048		0.0019	0.00048	mg/Kg	☼	08/02/19 17:22	08/05/19 16:35	1
trans-1,2-Dichloroethene	<0.00084		0.0019	0.00084	mg/Kg	☼	08/02/19 17:22	08/05/19 16:35	1
trans-1,3-Dichloropropene	<0.00067		0.0019	0.00067	mg/Kg	☼	08/02/19 17:22	08/05/19 16:35	1
1,1,1-Trichloroethane	<0.00064		0.0019	0.00064	mg/Kg	☼	08/02/19 17:22	08/05/19 16:35	1
1,1,2-Trichloroethane	<0.00081		0.0019	0.00081	mg/Kg	☼	08/02/19 17:22	08/05/19 16:35	1
Trichloroethene	<0.00064		0.0019	0.00064	mg/Kg	☼	08/02/19 17:22	08/05/19 16:35	1
Vinyl acetate	<0.0016		0.0047	0.0016	mg/Kg	☼	08/02/19 17:22	08/05/19 16:35	1
Vinyl chloride	<0.00084	*	0.0019	0.00084	mg/Kg	☼	08/02/19 17:22	08/05/19 16:35	1
Xylenes, Total	<0.00061		0.0038	0.00061	mg/Kg	☼	08/02/19 17:22	08/05/19 16:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		75 - 131	08/02/19 17:22	08/05/19 16:35	1
Dibromofluoromethane	114		75 - 126	08/02/19 17:22	08/05/19 16:35	1
1,2-Dichloroethane-d4 (Surr)	113		70 - 134	08/02/19 17:22	08/05/19 16:35	1
Toluene-d8 (Surr)	97		75 - 124	08/02/19 17:22	08/05/19 16:35	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.014	J	0.035	0.0064	mg/Kg	☼	08/05/19 19:44	08/06/19 14:06	1
Acenaphthylene	0.0068	J	0.035	0.0047	mg/Kg	☼	08/05/19 19:44	08/06/19 14:06	1
Anthracene	0.038		0.035	0.0059	mg/Kg	☼	08/05/19 19:44	08/06/19 14:06	1
Benzo[a]anthracene	0.26		0.035	0.0048	mg/Kg	☼	08/05/19 19:44	08/06/19 14:06	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167743-1

Client Sample ID: 2815V-2-B01 (0-5) Dup

Lab Sample ID: 500-167743-2

Date Collected: 08/02/19 09:15

Matrix: Solid

Date Received: 08/02/19 16:15

Percent Solids: 91.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.32		0.035	0.0069	mg/Kg	☼	08/05/19 19:44	08/06/19 14:06	1
Benzo[b]fluoranthene	0.45		0.035	0.0077	mg/Kg	☼	08/05/19 19:44	08/06/19 14:06	1
Benzo[g,h,i]perylene	0.20		0.035	0.011	mg/Kg	☼	08/05/19 19:44	08/06/19 14:06	1
Benzo[k]fluoranthene	0.15		0.035	0.010	mg/Kg	☼	08/05/19 19:44	08/06/19 14:06	1
Bis(2-chloroethoxy)methane	<0.036		0.18	0.036	mg/Kg	☼	08/05/19 19:44	08/06/19 14:06	1
Bis(2-chloroethyl)ether	<0.053		0.18	0.053	mg/Kg	☼	08/05/19 19:44	08/06/19 14:06	1
Bis(2-ethylhexyl) phthalate	<0.065		0.18	0.065	mg/Kg	☼	08/05/19 19:44	08/06/19 14:06	1
4-Bromophenyl phenyl ether	<0.047		0.18	0.047	mg/Kg	☼	08/05/19 19:44	08/06/19 14:06	1
Butyl benzyl phthalate	<0.068		0.18	0.068	mg/Kg	☼	08/05/19 19:44	08/06/19 14:06	1
Carbazole	<0.089		0.18	0.089	mg/Kg	☼	08/05/19 19:44	08/06/19 14:06	1
4-Chloroaniline	<0.17		0.72	0.17	mg/Kg	☼	08/05/19 19:44	08/06/19 14:06	1
4-Chloro-3-methylphenol	<0.12		0.35	0.12	mg/Kg	☼	08/05/19 19:44	08/06/19 14:06	1
2-Chloronaphthalene	<0.039		0.18	0.039	mg/Kg	☼	08/05/19 19:44	08/06/19 14:06	1
2-Chlorophenol	<0.061		0.18	0.061	mg/Kg	☼	08/05/19 19:44	08/06/19 14:06	1
4-Chlorophenyl phenyl ether	<0.042		0.18	0.042	mg/Kg	☼	08/05/19 19:44	08/06/19 14:06	1
Chrysene	0.32		0.035	0.0097	mg/Kg	☼	08/05/19 19:44	08/06/19 14:06	1
Dibenz(a,h)anthracene	0.045		0.035	0.0069	mg/Kg	☼	08/05/19 19:44	08/06/19 14:06	1
Dibenzofuran	<0.042		0.18	0.042	mg/Kg	☼	08/05/19 19:44	08/06/19 14:06	1
1,2-Dichlorobenzene	<0.043		0.18	0.043	mg/Kg	☼	08/05/19 19:44	08/06/19 14:06	1
1,3-Dichlorobenzene	<0.040		0.18	0.040	mg/Kg	☼	08/05/19 19:44	08/06/19 14:06	1
1,4-Dichlorobenzene	<0.046		0.18	0.046	mg/Kg	☼	08/05/19 19:44	08/06/19 14:06	1
3,3'-Dichlorobenzidine	<0.050		0.18	0.050	mg/Kg	☼	08/05/19 19:44	08/06/19 14:06	1
2,4-Dichlorophenol	<0.085		0.35	0.085	mg/Kg	☼	08/05/19 19:44	08/06/19 14:06	1
Diethyl phthalate	<0.060		0.18	0.060	mg/Kg	☼	08/05/19 19:44	08/06/19 14:06	1
2,4-Dimethylphenol	<0.13		0.35	0.13	mg/Kg	☼	08/05/19 19:44	08/06/19 14:06	1
Dimethyl phthalate	<0.046		0.18	0.046	mg/Kg	☼	08/05/19 19:44	08/06/19 14:06	1
Di-n-butyl phthalate	<0.054		0.18	0.054	mg/Kg	☼	08/05/19 19:44	08/06/19 14:06	1
4,6-Dinitro-2-methylphenol	<0.29		0.72	0.29	mg/Kg	☼	08/05/19 19:44	08/06/19 14:06	1
2,4-Dinitrophenol	<0.63		0.72	0.63	mg/Kg	☼	08/05/19 19:44	08/06/19 14:06	1
2,4-Dinitrotoluene	<0.057		0.18	0.057	mg/Kg	☼	08/05/19 19:44	08/06/19 14:06	1
2,6-Dinitrotoluene	<0.070		0.18	0.070	mg/Kg	☼	08/05/19 19:44	08/06/19 14:06	1
Di-n-octyl phthalate	<0.058		0.18	0.058	mg/Kg	☼	08/05/19 19:44	08/06/19 14:06	1
Fluoranthene	0.63		0.035	0.0066	mg/Kg	☼	08/05/19 19:44	08/06/19 14:06	1
Fluorene	0.014 J		0.035	0.0050	mg/Kg	☼	08/05/19 19:44	08/06/19 14:06	1
Hexachlorobenzene	<0.0082		0.072	0.0082	mg/Kg	☼	08/05/19 19:44	08/06/19 14:06	1
Hexachlorobutadiene	<0.056		0.18	0.056	mg/Kg	☼	08/05/19 19:44	08/06/19 14:06	1
Hexachlorocyclopentadiene	<0.20		0.72	0.20	mg/Kg	☼	08/05/19 19:44	08/06/19 14:06	1
Hexachloroethane	<0.054		0.18	0.054	mg/Kg	☼	08/05/19 19:44	08/06/19 14:06	1
Indeno[1,2,3-cd]pyrene	0.18		0.035	0.0092	mg/Kg	☼	08/05/19 19:44	08/06/19 14:06	1
Isophorone	<0.040		0.18	0.040	mg/Kg	☼	08/05/19 19:44	08/06/19 14:06	1
2-Methylnaphthalene	<0.0065		0.072	0.0065	mg/Kg	☼	08/05/19 19:44	08/06/19 14:06	1
2-Methylphenol	<0.057		0.18	0.057	mg/Kg	☼	08/05/19 19:44	08/06/19 14:06	1
3 & 4 Methylphenol	<0.059		0.18	0.059	mg/Kg	☼	08/05/19 19:44	08/06/19 14:06	1
Naphthalene	<0.0055		0.035	0.0055	mg/Kg	☼	08/05/19 19:44	08/06/19 14:06	1
2-Nitroaniline	<0.048		0.18	0.048	mg/Kg	☼	08/05/19 19:44	08/06/19 14:06	1
3-Nitroaniline	<0.11		0.35	0.11	mg/Kg	☼	08/05/19 19:44	08/06/19 14:06	1
4-Nitroaniline	<0.15		0.35	0.15	mg/Kg	☼	08/05/19 19:44	08/06/19 14:06	1
Nitrobenzene	<0.0089		0.035	0.0089	mg/Kg	☼	08/05/19 19:44	08/06/19 14:06	1
2-Nitrophenol	<0.084		0.35	0.084	mg/Kg	☼	08/05/19 19:44	08/06/19 14:06	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167743-1

Client Sample ID: 2815V-2-B01 (0-5) Dup

Lab Sample ID: 500-167743-2

Date Collected: 08/02/19 09:15

Matrix: Solid

Date Received: 08/02/19 16:15

Percent Solids: 91.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.34		0.72	0.34	mg/Kg	☼	08/05/19 19:44	08/06/19 14:06	1
N-Nitrosodi-n-propylamine	<0.043		0.072	0.043	mg/Kg	☼	08/05/19 19:44	08/06/19 14:06	1
N-Nitrosodiphenylamine	<0.042		0.18	0.042	mg/Kg	☼	08/05/19 19:44	08/06/19 14:06	1
2,2'-oxybis[1-chloropropane]	<0.041		0.18	0.041	mg/Kg	☼	08/05/19 19:44	08/06/19 14:06	1
Pentachlorophenol	<0.57		0.72	0.57	mg/Kg	☼	08/05/19 19:44	08/06/19 14:06	1
Phenanthrene	0.24		0.035	0.0050	mg/Kg	☼	08/05/19 19:44	08/06/19 14:06	1
Phenol	<0.079		0.18	0.079	mg/Kg	☼	08/05/19 19:44	08/06/19 14:06	1
Pyrene	0.48		0.035	0.0071	mg/Kg	☼	08/05/19 19:44	08/06/19 14:06	1
1,2,4-Trichlorobenzene	<0.038		0.18	0.038	mg/Kg	☼	08/05/19 19:44	08/06/19 14:06	1
2,4,5-Trichlorophenol	<0.081		0.35	0.081	mg/Kg	☼	08/05/19 19:44	08/06/19 14:06	1
2,4,6-Trichlorophenol	<0.12		0.35	0.12	mg/Kg	☼	08/05/19 19:44	08/06/19 14:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	93		43 - 145	08/05/19 19:44	08/06/19 14:06	1
2-Fluorophenol	91		31 - 166	08/05/19 19:44	08/06/19 14:06	1
Nitrobenzene-d5	79		37 - 147	08/05/19 19:44	08/06/19 14:06	1
Phenol-d5	72		30 - 153	08/05/19 19:44	08/06/19 14:06	1
Terphenyl-d14	100		42 - 157	08/05/19 19:44	08/06/19 14:06	1
2,4,6-Tribromophenol	112		31 - 143	08/05/19 19:44	08/06/19 14:06	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.33	J	1.1	0.21	mg/Kg	☼	08/05/19 07:50	08/05/19 17:52	1
Arsenic	3.1		0.53	0.18	mg/Kg	☼	08/05/19 07:50	08/05/19 17:52	1
Barium	29		0.53	0.060	mg/Kg	☼	08/05/19 07:50	08/05/19 17:52	1
Beryllium	0.23		0.21	0.049	mg/Kg	☼	08/05/19 07:50	08/07/19 10:56	1
Cadmium	0.33	B	0.11	0.019	mg/Kg	☼	08/05/19 07:50	08/05/19 17:52	1
Chromium	7.0		0.53	0.26	mg/Kg	☼	08/05/19 07:50	08/05/19 17:52	1
Cobalt	3.3		0.26	0.069	mg/Kg	☼	08/05/19 07:50	08/05/19 17:52	1
Copper	14		0.53	0.15	mg/Kg	☼	08/05/19 07:50	08/05/19 17:52	1
Iron	4800		11	5.5	mg/Kg	☼	08/05/19 07:50	08/05/19 17:52	1
Lead	32		0.26	0.12	mg/Kg	☼	08/05/19 07:50	08/05/19 17:52	1
Magnesium	100000		26	13	mg/Kg	☼	08/05/19 07:50	08/07/19 09:31	5
Calcium	150000	B	53	8.9	mg/Kg	☼	08/05/19 07:50	08/06/19 12:26	5
Manganese	170		0.53	0.076	mg/Kg	☼	08/05/19 07:50	08/05/19 17:52	1
Nickel	5.7		0.53	0.15	mg/Kg	☼	08/05/19 07:50	08/05/19 17:52	1
Selenium	0.50	J	0.53	0.31	mg/Kg	☼	08/05/19 07:50	08/05/19 17:52	1
Silver	0.84		0.26	0.068	mg/Kg	☼	08/05/19 07:50	08/05/19 17:52	1
Thallium	<0.26		0.53	0.26	mg/Kg	☼	08/05/19 07:50	08/05/19 17:52	1
Vanadium	9.4		0.26	0.062	mg/Kg	☼	08/05/19 07:50	08/05/19 17:52	1
Zinc	110		1.1	0.46	mg/Kg	☼	08/05/19 07:50	08/05/19 17:52	1
Potassium	820		26	9.3	mg/Kg	☼	08/05/19 07:50	08/05/19 17:52	1
Sodium	240	B	53	7.8	mg/Kg	☼	08/05/19 07:50	08/05/19 17:52	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/07/19 09:01	08/07/19 18:11	1
Barium	0.32	J	0.50	0.050	mg/L		08/07/19 09:01	08/07/19 18:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/07/19 09:01	08/07/19 18:11	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/07/19 09:01	08/07/19 18:11	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167743-1

Client Sample ID: 2815V-2-B01 (0-5) Dup

Lab Sample ID: 500-167743-2

Date Collected: 08/02/19 09:15

Matrix: Solid

Date Received: 08/02/19 16:15

Percent Solids: 91.6

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	310		5.0	0.50	mg/L		08/07/19 09:01	08/07/19 18:11	1
Chromium	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 18:11	1
Cobalt	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 18:11	1
Copper	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 18:11	1
Iron	<0.20		0.40	0.20	mg/L		08/07/19 09:01	08/07/19 18:11	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/07/19 09:01	08/07/19 18:11	1
Magnesium	170		2.5	0.50	mg/L		08/07/19 09:01	08/07/19 18:11	1
Manganese	0.27		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 18:11	1
Nickel	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 18:11	1
Potassium	3.6		2.5	0.50	mg/L		08/07/19 09:01	08/07/19 18:11	1
Selenium	<0.020		0.050	0.020	mg/L		08/07/19 09:01	08/07/19 18:11	1
Silver	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 18:11	1
Vanadium	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 18:11	1
Zinc	0.24 J		0.50	0.020	mg/L		08/07/19 09:01	08/07/19 18:11	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.20		0.025	0.010	mg/L		08/07/19 14:43	08/08/19 16:55	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/07/19 09:01	08/08/19 17:20	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/07/19 09:01	08/08/19 17:20	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/07/19 13:25	08/08/19 09:31	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013 J		0.017	0.0058	mg/Kg	☼	08/07/19 11:20	08/08/19 09:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.19		0.39	0.19	mg/Kg	☼	08/13/19 16:30	08/13/19 18:55	1
pH	8.6		0.2	0.2	SU			08/06/19 11:21	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167743-1

Client Sample ID: 2815V-2-B01 (5-10)

Lab Sample ID: 500-167743-3

Date Collected: 08/02/19 09:20

Matrix: Solid

Date Received: 08/02/19 16:15

Percent Solids: 93.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0096	J	0.016	0.0071	mg/Kg	☼	08/02/19 17:22	08/06/19 11:03	1
Benzene	<0.00042		0.0016	0.00042	mg/Kg	☼	08/02/19 17:22	08/06/19 11:03	1
Bromodichloromethane	<0.00033		0.0016	0.00033	mg/Kg	☼	08/02/19 17:22	08/06/19 11:03	1
Bromoform	<0.00048		0.0016	0.00048	mg/Kg	☼	08/02/19 17:22	08/06/19 11:03	1
Bromomethane	<0.0015		0.0041	0.0015	mg/Kg	☼	08/02/19 17:22	08/06/19 11:03	1
2-Butanone (MEK)	<0.0018		0.0041	0.0018	mg/Kg	☼	08/02/19 17:22	08/06/19 11:03	1
Carbon disulfide	<0.00085		0.0041	0.00085	mg/Kg	☼	08/02/19 17:22	08/06/19 11:03	1
Carbon tetrachloride	<0.00047		0.0016	0.00047	mg/Kg	☼	08/02/19 17:22	08/06/19 11:03	1
Chlorobenzene	<0.00060		0.0016	0.00060	mg/Kg	☼	08/02/19 17:22	08/06/19 11:03	1
Chloroethane	<0.0012	*	0.0041	0.0012	mg/Kg	☼	08/02/19 17:22	08/06/19 11:03	1
Chloroform	<0.00056		0.0016	0.00056	mg/Kg	☼	08/02/19 17:22	08/06/19 11:03	1
Chloromethane	<0.0016		0.0041	0.0016	mg/Kg	☼	08/02/19 17:22	08/06/19 11:03	1
cis-1,2-Dichloroethene	<0.00046		0.0016	0.00046	mg/Kg	☼	08/02/19 17:22	08/06/19 11:03	1
cis-1,3-Dichloropropene	<0.00049		0.0016	0.00049	mg/Kg	☼	08/02/19 17:22	08/06/19 11:03	1
Dibromochloromethane	<0.00053		0.0016	0.00053	mg/Kg	☼	08/02/19 17:22	08/06/19 11:03	1
1,1-Dichloroethane	<0.00056		0.0016	0.00056	mg/Kg	☼	08/02/19 17:22	08/06/19 11:03	1
1,2-Dichloroethane	<0.0013		0.0041	0.0013	mg/Kg	☼	08/02/19 17:22	08/06/19 11:03	1
1,1-Dichloroethene	<0.00056		0.0016	0.00056	mg/Kg	☼	08/02/19 17:22	08/06/19 11:03	1
1,2-Dichloropropene	<0.00042		0.0016	0.00042	mg/Kg	☼	08/02/19 17:22	08/06/19 11:03	1
1,3-Dichloropropene, Total	<0.00057		0.0016	0.00057	mg/Kg	☼	08/02/19 17:22	08/06/19 11:03	1
Ethylbenzene	<0.00078		0.0016	0.00078	mg/Kg	☼	08/02/19 17:22	08/06/19 11:03	1
2-Hexanone	<0.0013		0.0041	0.0013	mg/Kg	☼	08/02/19 17:22	08/06/19 11:03	1
Methylene Chloride	<0.0016		0.0041	0.0016	mg/Kg	☼	08/02/19 17:22	08/06/19 11:03	1
4-Methyl-2-pentanone (MIBK)	<0.0012		0.0041	0.0012	mg/Kg	☼	08/02/19 17:22	08/06/19 11:03	1
Methyl tert-butyl ether	<0.00048		0.0016	0.00048	mg/Kg	☼	08/02/19 17:22	08/06/19 11:03	1
Styrene	<0.00049		0.0016	0.00049	mg/Kg	☼	08/02/19 17:22	08/06/19 11:03	1
1,1,2,2-Tetrachloroethane	<0.00052		0.0016	0.00052	mg/Kg	☼	08/02/19 17:22	08/06/19 11:03	1
Tetrachloroethene	<0.00055		0.0016	0.00055	mg/Kg	☼	08/02/19 17:22	08/06/19 11:03	1
Toluene	<0.00041		0.0016	0.00041	mg/Kg	☼	08/02/19 17:22	08/06/19 11:03	1
trans-1,2-Dichloroethene	<0.00072		0.0016	0.00072	mg/Kg	☼	08/02/19 17:22	08/06/19 11:03	1
trans-1,3-Dichloropropene	<0.00057		0.0016	0.00057	mg/Kg	☼	08/02/19 17:22	08/06/19 11:03	1
1,1,1-Trichloroethane	<0.00055		0.0016	0.00055	mg/Kg	☼	08/02/19 17:22	08/06/19 11:03	1
1,1,2-Trichloroethane	<0.00070		0.0016	0.00070	mg/Kg	☼	08/02/19 17:22	08/06/19 11:03	1
Trichloroethene	<0.00055		0.0016	0.00055	mg/Kg	☼	08/02/19 17:22	08/06/19 11:03	1
Vinyl acetate	<0.0014		0.0041	0.0014	mg/Kg	☼	08/02/19 17:22	08/06/19 11:03	1
Vinyl chloride	<0.00072		0.0016	0.00072	mg/Kg	☼	08/02/19 17:22	08/06/19 11:03	1
Xylenes, Total	<0.00052		0.0033	0.00052	mg/Kg	☼	08/02/19 17:22	08/06/19 11:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		75 - 131	08/02/19 17:22	08/06/19 11:03	1
Dibromofluoromethane	96		75 - 126	08/02/19 17:22	08/06/19 11:03	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	08/02/19 17:22	08/06/19 11:03	1
Toluene-d8 (Surr)	95		75 - 124	08/02/19 17:22	08/06/19 11:03	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0063		0.035	0.0063	mg/Kg	☼	08/05/19 19:44	08/06/19 12:13	1
Acenaphthylene	<0.0046		0.035	0.0046	mg/Kg	☼	08/05/19 19:44	08/06/19 12:13	1
Anthracene	<0.0058		0.035	0.0058	mg/Kg	☼	08/05/19 19:44	08/06/19 12:13	1
Benzo[a]anthracene	0.019	J	0.035	0.0047	mg/Kg	☼	08/05/19 19:44	08/06/19 12:13	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167743-1

Client Sample ID: 2815V-2-B01 (5-10)

Lab Sample ID: 500-167743-3

Date Collected: 08/02/19 09:20

Matrix: Solid

Date Received: 08/02/19 16:15

Percent Solids: 93.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.022	J	0.035	0.0068	mg/Kg	☼	08/05/19 19:44	08/06/19 12:13	1
Benzo[b]fluoranthene	0.030	J	0.035	0.0075	mg/Kg	☼	08/05/19 19:44	08/06/19 12:13	1
Benzo[g,h,i]perylene	0.019	J	0.035	0.011	mg/Kg	☼	08/05/19 19:44	08/06/19 12:13	1
Benzo[k]fluoranthene	<0.010		0.035	0.010	mg/Kg	☼	08/05/19 19:44	08/06/19 12:13	1
Bis(2-chloroethoxy)methane	<0.036		0.18	0.036	mg/Kg	☼	08/05/19 19:44	08/06/19 12:13	1
Bis(2-chloroethyl)ether	<0.052		0.18	0.052	mg/Kg	☼	08/05/19 19:44	08/06/19 12:13	1
Bis(2-ethylhexyl) phthalate	<0.064		0.18	0.064	mg/Kg	☼	08/05/19 19:44	08/06/19 12:13	1
4-Bromophenyl phenyl ether	<0.046		0.18	0.046	mg/Kg	☼	08/05/19 19:44	08/06/19 12:13	1
Butyl benzyl phthalate	<0.067		0.18	0.067	mg/Kg	☼	08/05/19 19:44	08/06/19 12:13	1
Carbazole	<0.087		0.18	0.087	mg/Kg	☼	08/05/19 19:44	08/06/19 12:13	1
4-Chloroaniline	<0.16		0.71	0.16	mg/Kg	☼	08/05/19 19:44	08/06/19 12:13	1
4-Chloro-3-methylphenol	<0.12		0.35	0.12	mg/Kg	☼	08/05/19 19:44	08/06/19 12:13	1
2-Chloronaphthalene	<0.039		0.18	0.039	mg/Kg	☼	08/05/19 19:44	08/06/19 12:13	1
2-Chlorophenol	<0.060		0.18	0.060	mg/Kg	☼	08/05/19 19:44	08/06/19 12:13	1
4-Chlorophenyl phenyl ether	<0.041		0.18	0.041	mg/Kg	☼	08/05/19 19:44	08/06/19 12:13	1
Chrysene	0.024	J	0.035	0.0095	mg/Kg	☼	08/05/19 19:44	08/06/19 12:13	1
Dibenz(a,h)anthracene	<0.0068		0.035	0.0068	mg/Kg	☼	08/05/19 19:44	08/06/19 12:13	1
Dibenzofuran	<0.041		0.18	0.041	mg/Kg	☼	08/05/19 19:44	08/06/19 12:13	1
1,2-Dichlorobenzene	<0.042		0.18	0.042	mg/Kg	☼	08/05/19 19:44	08/06/19 12:13	1
1,3-Dichlorobenzene	<0.039		0.18	0.039	mg/Kg	☼	08/05/19 19:44	08/06/19 12:13	1
1,4-Dichlorobenzene	<0.045		0.18	0.045	mg/Kg	☼	08/05/19 19:44	08/06/19 12:13	1
3,3'-Dichlorobenzidine	<0.049		0.18	0.049	mg/Kg	☼	08/05/19 19:44	08/06/19 12:13	1
2,4-Dichlorophenol	<0.083		0.35	0.083	mg/Kg	☼	08/05/19 19:44	08/06/19 12:13	1
Diethyl phthalate	<0.059		0.18	0.059	mg/Kg	☼	08/05/19 19:44	08/06/19 12:13	1
2,4-Dimethylphenol	<0.13		0.35	0.13	mg/Kg	☼	08/05/19 19:44	08/06/19 12:13	1
Dimethyl phthalate	<0.046		0.18	0.046	mg/Kg	☼	08/05/19 19:44	08/06/19 12:13	1
Di-n-butyl phthalate	<0.053		0.18	0.053	mg/Kg	☼	08/05/19 19:44	08/06/19 12:13	1
4,6-Dinitro-2-methylphenol	<0.28		0.71	0.28	mg/Kg	☼	08/05/19 19:44	08/06/19 12:13	1
2,4-Dinitrophenol	<0.62		0.71	0.62	mg/Kg	☼	08/05/19 19:44	08/06/19 12:13	1
2,4-Dinitrotoluene	<0.056		0.18	0.056	mg/Kg	☼	08/05/19 19:44	08/06/19 12:13	1
2,6-Dinitrotoluene	<0.069		0.18	0.069	mg/Kg	☼	08/05/19 19:44	08/06/19 12:13	1
Di-n-octyl phthalate	<0.057		0.18	0.057	mg/Kg	☼	08/05/19 19:44	08/06/19 12:13	1
Fluoranthene	0.038		0.035	0.0065	mg/Kg	☼	08/05/19 19:44	08/06/19 12:13	1
Fluorene	<0.0049		0.035	0.0049	mg/Kg	☼	08/05/19 19:44	08/06/19 12:13	1
Hexachlorobenzene	<0.0081		0.071	0.0081	mg/Kg	☼	08/05/19 19:44	08/06/19 12:13	1
Hexachlorobutadiene	<0.055		0.18	0.055	mg/Kg	☼	08/05/19 19:44	08/06/19 12:13	1
Hexachlorocyclopentadiene	<0.20		0.71	0.20	mg/Kg	☼	08/05/19 19:44	08/06/19 12:13	1
Hexachloroethane	<0.053		0.18	0.053	mg/Kg	☼	08/05/19 19:44	08/06/19 12:13	1
Indeno[1,2,3-cd]pyrene	0.016	J	0.035	0.0091	mg/Kg	☼	08/05/19 19:44	08/06/19 12:13	1
Isophorone	<0.039		0.18	0.039	mg/Kg	☼	08/05/19 19:44	08/06/19 12:13	1
2-Methylnaphthalene	<0.0064		0.071	0.0064	mg/Kg	☼	08/05/19 19:44	08/06/19 12:13	1
2-Methylphenol	<0.056		0.18	0.056	mg/Kg	☼	08/05/19 19:44	08/06/19 12:13	1
3 & 4 Methylphenol	<0.058		0.18	0.058	mg/Kg	☼	08/05/19 19:44	08/06/19 12:13	1
Naphthalene	<0.0054		0.035	0.0054	mg/Kg	☼	08/05/19 19:44	08/06/19 12:13	1
2-Nitroaniline	<0.047		0.18	0.047	mg/Kg	☼	08/05/19 19:44	08/06/19 12:13	1
3-Nitroaniline	<0.11		0.35	0.11	mg/Kg	☼	08/05/19 19:44	08/06/19 12:13	1
4-Nitroaniline	<0.15		0.35	0.15	mg/Kg	☼	08/05/19 19:44	08/06/19 12:13	1
Nitrobenzene	<0.0087		0.035	0.0087	mg/Kg	☼	08/05/19 19:44	08/06/19 12:13	1
2-Nitrophenol	<0.083		0.35	0.083	mg/Kg	☼	08/05/19 19:44	08/06/19 12:13	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167743-1

Client Sample ID: 2815V-2-B01 (5-10)

Lab Sample ID: 500-167743-3

Date Collected: 08/02/19 09:20

Matrix: Solid

Date Received: 08/02/19 16:15

Percent Solids: 93.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.33		0.71	0.33	mg/Kg	☼	08/05/19 19:44	08/06/19 12:13	1
N-Nitrosodi-n-propylamine	<0.043		0.071	0.043	mg/Kg	☼	08/05/19 19:44	08/06/19 12:13	1
N-Nitrosodiphenylamine	<0.041		0.18	0.041	mg/Kg	☼	08/05/19 19:44	08/06/19 12:13	1
2,2'-oxybis[1-chloropropane]	<0.041		0.18	0.041	mg/Kg	☼	08/05/19 19:44	08/06/19 12:13	1
Pentachlorophenol	<0.56		0.71	0.56	mg/Kg	☼	08/05/19 19:44	08/06/19 12:13	1
Phenanthrene	0.017	J	0.035	0.0049	mg/Kg	☼	08/05/19 19:44	08/06/19 12:13	1
Phenol	<0.078		0.18	0.078	mg/Kg	☼	08/05/19 19:44	08/06/19 12:13	1
Pyrene	0.033	J	0.035	0.0069	mg/Kg	☼	08/05/19 19:44	08/06/19 12:13	1
1,2,4-Trichlorobenzene	<0.038		0.18	0.038	mg/Kg	☼	08/05/19 19:44	08/06/19 12:13	1
2,4,5-Trichlorophenol	<0.080		0.35	0.080	mg/Kg	☼	08/05/19 19:44	08/06/19 12:13	1
2,4,6-Trichlorophenol	<0.12		0.35	0.12	mg/Kg	☼	08/05/19 19:44	08/06/19 12:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	100		43 - 145	08/05/19 19:44	08/06/19 12:13	1
2-Fluorophenol	101		31 - 166	08/05/19 19:44	08/06/19 12:13	1
Nitrobenzene-d5	84		37 - 147	08/05/19 19:44	08/06/19 12:13	1
Phenol-d5	86		30 - 153	08/05/19 19:44	08/06/19 12:13	1
Terphenyl-d14	119		42 - 157	08/05/19 19:44	08/06/19 12:13	1
2,4,6-Tribromophenol	102		31 - 143	08/05/19 19:44	08/06/19 12:13	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.25	J	0.99	0.19	mg/Kg	☼	08/05/19 07:50	08/05/19 17:56	1
Arsenic	1.7		0.49	0.17	mg/Kg	☼	08/05/19 07:50	08/05/19 17:56	1
Barium	16		0.49	0.056	mg/Kg	☼	08/05/19 07:50	08/05/19 17:56	1
Beryllium	0.13	J	0.20	0.046	mg/Kg	☼	08/05/19 07:50	08/07/19 11:00	1
Cadmium	0.19	B	0.099	0.018	mg/Kg	☼	08/05/19 07:50	08/05/19 17:56	1
Chromium	3.7		0.49	0.24	mg/Kg	☼	08/05/19 07:50	08/05/19 17:56	1
Cobalt	2.2		0.25	0.065	mg/Kg	☼	08/05/19 07:50	08/05/19 17:56	1
Copper	4.5		0.49	0.14	mg/Kg	☼	08/05/19 07:50	08/05/19 17:56	1
Iron	2600		9.9	5.1	mg/Kg	☼	08/05/19 07:50	08/05/19 17:56	1
Lead	10		0.25	0.11	mg/Kg	☼	08/05/19 07:50	08/05/19 17:56	1
Magnesium	120000		25	12	mg/Kg	☼	08/05/19 07:50	08/07/19 09:51	5
Calcium	180000	B	99	17	mg/Kg	☼	08/05/19 07:50	08/07/19 09:55	10
Manganese	110		0.49	0.072	mg/Kg	☼	08/05/19 07:50	08/05/19 17:56	1
Nickel	2.9		0.49	0.14	mg/Kg	☼	08/05/19 07:50	08/05/19 17:56	1
Selenium	<0.29		0.49	0.29	mg/Kg	☼	08/05/19 07:50	08/05/19 17:56	1
Silver	0.34		0.25	0.064	mg/Kg	☼	08/05/19 07:50	08/05/19 17:56	1
Thallium	<0.25		0.49	0.25	mg/Kg	☼	08/05/19 07:50	08/05/19 17:56	1
Vanadium	4.8		0.25	0.058	mg/Kg	☼	08/05/19 07:50	08/05/19 17:56	1
Zinc	18		0.99	0.43	mg/Kg	☼	08/05/19 07:50	08/05/19 17:56	1
Potassium	590		25	8.7	mg/Kg	☼	08/05/19 07:50	08/05/19 17:56	1
Sodium	250	B	49	7.3	mg/Kg	☼	08/05/19 07:50	08/05/19 17:56	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/07/19 09:01	08/07/19 18:15	1
Barium	0.19	J	0.50	0.050	mg/L		08/07/19 09:01	08/07/19 18:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/07/19 09:01	08/07/19 18:15	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/07/19 09:01	08/07/19 18:15	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167743-1

Client Sample ID: 2815V-2-B01 (5-10)

Lab Sample ID: 500-167743-3

Date Collected: 08/02/19 09:20

Matrix: Solid

Date Received: 08/02/19 16:15

Percent Solids: 93.7

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	310		5.0	0.50	mg/L		08/07/19 09:01	08/07/19 18:15	1
Chromium	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 18:15	1
Cobalt	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 18:15	1
Copper	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 18:15	1
Iron	<0.20		0.40	0.20	mg/L		08/07/19 09:01	08/07/19 18:15	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/07/19 09:01	08/07/19 18:15	1
Magnesium	170		2.5	0.50	mg/L		08/07/19 09:01	08/07/19 18:15	1
Manganese	0.45		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 18:15	1
Nickel	0.014	J	0.025	0.010	mg/L		08/07/19 09:01	08/07/19 18:15	1
Potassium	1.0	J	2.5	0.50	mg/L		08/07/19 09:01	08/07/19 18:15	1
Selenium	<0.020		0.050	0.020	mg/L		08/07/19 09:01	08/07/19 18:15	1
Silver	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 18:15	1
Vanadium	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 18:15	1
Zinc	0.036	J	0.50	0.020	mg/L		08/07/19 09:01	08/07/19 18:15	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.010		0.025	0.010	mg/L		08/07/19 14:43	08/08/19 16:59	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/07/19 09:01	08/08/19 17:24	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/07/19 09:01	08/08/19 17:24	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/07/19 13:25	08/08/19 09:33	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0054		0.016	0.0054	mg/Kg	☼	08/07/19 11:20	08/08/19 09:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.21		0.41	0.21	mg/Kg	☼	08/13/19 16:30	08/13/19 18:55	1
pH	9.2		0.2	0.2	SU			08/06/19 11:26	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - McCook - WO 061

Job ID: 500-167743-1

Client Sample ID: 2815V-2-B02 (0-4)

Lab Sample ID: 500-167743-4

Date Collected: 08/02/19 09:35

Matrix: Solid

Date Received: 08/02/19 16:15

Percent Solids: 92.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0077		0.018	0.0077	mg/Kg	☼	08/02/19 17:22	08/05/19 17:26	1
Benzene	<0.00045		0.0018	0.00045	mg/Kg	☼	08/02/19 17:22	08/05/19 17:26	1
Bromodichloromethane	<0.00036		0.0018	0.00036	mg/Kg	☼	08/02/19 17:22	08/05/19 17:26	1
Bromoform	<0.00052		0.0018	0.00052	mg/Kg	☼	08/02/19 17:22	08/05/19 17:26	1
Bromomethane	<0.0017		0.0044	0.0017	mg/Kg	☼	08/02/19 17:22	08/05/19 17:26	1
2-Butanone (MEK)	<0.0020		0.0044	0.0020	mg/Kg	☼	08/02/19 17:22	08/05/19 17:26	1
Carbon disulfide	<0.00092		0.0044	0.00092	mg/Kg	☼	08/02/19 17:22	08/05/19 17:26	1
Carbon tetrachloride	<0.00051		0.0018	0.00051	mg/Kg	☼	08/02/19 17:22	08/05/19 17:26	1
Chlorobenzene	<0.00065		0.0018	0.00065	mg/Kg	☼	08/02/19 17:22	08/05/19 17:26	1
Chloroethane	<0.0013		0.0044	0.0013	mg/Kg	☼	08/02/19 17:22	08/05/19 17:26	1
Chloroform	<0.00061		0.0018	0.00061	mg/Kg	☼	08/02/19 17:22	08/05/19 17:26	1
Chloromethane	<0.0018		0.0044	0.0018	mg/Kg	☼	08/02/19 17:22	08/05/19 17:26	1
cis-1,2-Dichloroethene	<0.00049		0.0018	0.00049	mg/Kg	☼	08/02/19 17:22	08/05/19 17:26	1
cis-1,3-Dichloropropene	<0.00053		0.0018	0.00053	mg/Kg	☼	08/02/19 17:22	08/05/19 17:26	1
Dibromochloromethane	<0.00058		0.0018	0.00058	mg/Kg	☼	08/02/19 17:22	08/05/19 17:26	1
1,1-Dichloroethane	<0.00060		0.0018	0.00060	mg/Kg	☼	08/02/19 17:22	08/05/19 17:26	1
1,2-Dichloroethane	<0.0014		0.0044	0.0014	mg/Kg	☼	08/02/19 17:22	08/05/19 17:26	1
1,1-Dichloroethene	<0.00061		0.0018	0.00061	mg/Kg	☼	08/02/19 17:22	08/05/19 17:26	1
1,2-Dichloropropane	<0.00046		0.0018	0.00046	mg/Kg	☼	08/02/19 17:22	08/05/19 17:26	1
1,3-Dichloropropane, Total	<0.00062		0.0018	0.00062	mg/Kg	☼	08/02/19 17:22	08/05/19 17:26	1
Ethylbenzene	<0.00085		0.0018	0.00085	mg/Kg	☼	08/02/19 17:22	08/05/19 17:26	1
2-Hexanone	<0.0014		0.0044	0.0014	mg/Kg	☼	08/02/19 17:22	08/05/19 17:26	1
Methylene Chloride	<0.0017 *		0.0044	0.0017	mg/Kg	☼	08/02/19 17:22	08/05/19 17:26	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0044	0.0013	mg/Kg	☼	08/02/19 17:22	08/05/19 17:26	1
Methyl tert-butyl ether	<0.00052		0.0018	0.00052	mg/Kg	☼	08/02/19 17:22	08/05/19 17:26	1
Styrene	<0.00053		0.0018	0.00053	mg/Kg	☼	08/02/19 17:22	08/05/19 17:26	1
1,1,2,2-Tetrachloroethane	<0.00056		0.0018	0.00056	mg/Kg	☼	08/02/19 17:22	08/05/19 17:26	1
Tetrachloroethene	<0.00060		0.0018	0.00060	mg/Kg	☼	08/02/19 17:22	08/05/19 17:26	1
Toluene	<0.00045		0.0018	0.00045	mg/Kg	☼	08/02/19 17:22	08/05/19 17:26	1
trans-1,2-Dichloroethene	<0.00078		0.0018	0.00078	mg/Kg	☼	08/02/19 17:22	08/05/19 17:26	1
trans-1,3-Dichloropropene	<0.00062		0.0018	0.00062	mg/Kg	☼	08/02/19 17:22	08/05/19 17:26	1
1,1,1-Trichloroethane	<0.00059		0.0018	0.00059	mg/Kg	☼	08/02/19 17:22	08/05/19 17:26	1
1,1,2-Trichloroethane	<0.00076		0.0018	0.00076	mg/Kg	☼	08/02/19 17:22	08/05/19 17:26	1
Trichloroethene	<0.00060		0.0018	0.00060	mg/Kg	☼	08/02/19 17:22	08/05/19 17:26	1
Vinyl acetate	<0.0015		0.0044	0.0015	mg/Kg	☼	08/02/19 17:22	08/05/19 17:26	1
Vinyl chloride	<0.00078 *		0.0018	0.00078	mg/Kg	☼	08/02/19 17:22	08/05/19 17:26	1
Xylenes, Total	<0.00057		0.0035	0.00057	mg/Kg	☼	08/02/19 17:22	08/05/19 17:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		75 - 131	08/02/19 17:22	08/05/19 17:26	1
Dibromofluoromethane	110		75 - 126	08/02/19 17:22	08/05/19 17:26	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 134	08/02/19 17:22	08/05/19 17:26	1
Toluene-d8 (Surr)	95		75 - 124	08/02/19 17:22	08/05/19 17:26	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.15		0.035	0.0063	mg/Kg	☼	08/05/19 19:44	08/06/19 17:26	1
Acenaphthylene	0.031 J		0.035	0.0046	mg/Kg	☼	08/05/19 19:44	08/06/19 17:26	1
Anthracene	0.27		0.035	0.0059	mg/Kg	☼	08/05/19 19:44	08/06/19 17:26	1
Benzo[a]anthracene	2.3		0.035	0.0047	mg/Kg	☼	08/05/19 19:44	08/06/19 17:26	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167743-1

Client Sample ID: 2815V-2-B02 (0-4)

Lab Sample ID: 500-167743-4

Date Collected: 08/02/19 09:35

Matrix: Solid

Date Received: 08/02/19 16:15

Percent Solids: 92.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	<0.036		0.18	0.036	mg/Kg	☼	08/05/19 19:44	08/06/19 17:26	1
Bis(2-chloroethyl)ether	<0.053		0.18	0.053	mg/Kg	☼	08/05/19 19:44	08/06/19 17:26	1
Bis(2-ethylhexyl) phthalate	0.10	J	0.18	0.064	mg/Kg	☼	08/05/19 19:44	08/06/19 17:26	1
4-Bromophenyl phenyl ether	<0.046		0.18	0.046	mg/Kg	☼	08/05/19 19:44	08/06/19 17:26	1
Butyl benzyl phthalate	<0.067		0.18	0.067	mg/Kg	☼	08/05/19 19:44	08/06/19 17:26	1
Carbazole	0.38		0.18	0.088	mg/Kg	☼	08/05/19 19:44	08/06/19 17:26	1
4-Chloroaniline	<0.17		0.71	0.17	mg/Kg	☼	08/05/19 19:44	08/06/19 17:26	1
4-Chloro-3-methylphenol	<0.12		0.35	0.12	mg/Kg	☼	08/05/19 19:44	08/06/19 17:26	1
2-Chloronaphthalene	<0.039		0.18	0.039	mg/Kg	☼	08/05/19 19:44	08/06/19 17:26	1
2-Chlorophenol	<0.060		0.18	0.060	mg/Kg	☼	08/05/19 19:44	08/06/19 17:26	1
4-Chlorophenyl phenyl ether	<0.041		0.18	0.041	mg/Kg	☼	08/05/19 19:44	08/06/19 17:26	1
Dibenzofuran	0.058	J	0.18	0.041	mg/Kg	☼	08/05/19 19:44	08/06/19 17:26	1
1,2-Dichlorobenzene	<0.042		0.18	0.042	mg/Kg	☼	08/05/19 19:44	08/06/19 17:26	1
1,3-Dichlorobenzene	<0.040		0.18	0.040	mg/Kg	☼	08/05/19 19:44	08/06/19 17:26	1
1,4-Dichlorobenzene	<0.045		0.18	0.045	mg/Kg	☼	08/05/19 19:44	08/06/19 17:26	1
3,3'-Dichlorobenzidine	<0.049		0.18	0.049	mg/Kg	☼	08/05/19 19:44	08/06/19 17:26	1
2,4-Dichlorophenol	<0.084		0.35	0.084	mg/Kg	☼	08/05/19 19:44	08/06/19 17:26	1
Diethyl phthalate	<0.060		0.18	0.060	mg/Kg	☼	08/05/19 19:44	08/06/19 17:26	1
2,4-Dimethylphenol	<0.13		0.35	0.13	mg/Kg	☼	08/05/19 19:44	08/06/19 17:26	1
Dimethyl phthalate	<0.046		0.18	0.046	mg/Kg	☼	08/05/19 19:44	08/06/19 17:26	1
Di-n-butyl phthalate	<0.054		0.18	0.054	mg/Kg	☼	08/05/19 19:44	08/06/19 17:26	1
4,6-Dinitro-2-methylphenol	<0.28		0.71	0.28	mg/Kg	☼	08/05/19 19:44	08/06/19 17:26	1
2,4-Dinitrophenol	<0.62		0.71	0.62	mg/Kg	☼	08/05/19 19:44	08/06/19 17:26	1
2,4-Dinitrotoluene	<0.056		0.18	0.056	mg/Kg	☼	08/05/19 19:44	08/06/19 17:26	1
2,6-Dinitrotoluene	<0.069		0.18	0.069	mg/Kg	☼	08/05/19 19:44	08/06/19 17:26	1
Di-n-octyl phthalate	<0.057		0.18	0.057	mg/Kg	☼	08/05/19 19:44	08/06/19 17:26	1
Fluorene	0.14		0.035	0.0049	mg/Kg	☼	08/05/19 19:44	08/06/19 17:26	1
Hexachlorobenzene	<0.0082		0.071	0.0082	mg/Kg	☼	08/05/19 19:44	08/06/19 17:26	1
Hexachlorobutadiene	<0.055		0.18	0.055	mg/Kg	☼	08/05/19 19:44	08/06/19 17:26	1
Hexachlorocyclopentadiene	<0.20		0.71	0.20	mg/Kg	☼	08/05/19 19:44	08/06/19 17:26	1
Hexachloroethane	<0.053		0.18	0.053	mg/Kg	☼	08/05/19 19:44	08/06/19 17:26	1
Isophorone	<0.040		0.18	0.040	mg/Kg	☼	08/05/19 19:44	08/06/19 17:26	1
2-Methylnaphthalene	0.013	J	0.071	0.0065	mg/Kg	☼	08/05/19 19:44	08/06/19 17:26	1
2-Methylphenol	<0.056		0.18	0.056	mg/Kg	☼	08/05/19 19:44	08/06/19 17:26	1
3 & 4 Methylphenol	<0.059		0.18	0.059	mg/Kg	☼	08/05/19 19:44	08/06/19 17:26	1
Naphthalene	0.018	J	0.035	0.0054	mg/Kg	☼	08/05/19 19:44	08/06/19 17:26	1
2-Nitroaniline	<0.047		0.18	0.047	mg/Kg	☼	08/05/19 19:44	08/06/19 17:26	1
3-Nitroaniline	<0.11		0.35	0.11	mg/Kg	☼	08/05/19 19:44	08/06/19 17:26	1
4-Nitroaniline	<0.15		0.35	0.15	mg/Kg	☼	08/05/19 19:44	08/06/19 17:26	1
Nitrobenzene	<0.0088		0.035	0.0088	mg/Kg	☼	08/05/19 19:44	08/06/19 17:26	1
2-Nitrophenol	<0.083		0.35	0.083	mg/Kg	☼	08/05/19 19:44	08/06/19 17:26	1
4-Nitrophenol	<0.33		0.71	0.33	mg/Kg	☼	08/05/19 19:44	08/06/19 17:26	1
N-Nitrosodi-n-propylamine	<0.043		0.071	0.043	mg/Kg	☼	08/05/19 19:44	08/06/19 17:26	1
N-Nitrosodiphenylamine	<0.042		0.18	0.042	mg/Kg	☼	08/05/19 19:44	08/06/19 17:26	1
2,2'-oxybis[1-chloropropane]	<0.041		0.18	0.041	mg/Kg	☼	08/05/19 19:44	08/06/19 17:26	1
Pentachlorophenol	<0.56		0.71	0.56	mg/Kg	☼	08/05/19 19:44	08/06/19 17:26	1
Phenol	<0.078		0.18	0.078	mg/Kg	☼	08/05/19 19:44	08/06/19 17:26	1
1,2,4-Trichlorobenzene	<0.038		0.18	0.038	mg/Kg	☼	08/05/19 19:44	08/06/19 17:26	1
2,4,5-Trichlorophenol	<0.080		0.35	0.080	mg/Kg	☼	08/05/19 19:44	08/06/19 17:26	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - McCook - WO 061

Job ID: 500-167743-1

Client Sample ID: 2815V-2-B02 (0-4)

Lab Sample ID: 500-167743-4

Date Collected: 08/02/19 09:35

Matrix: Solid

Date Received: 08/02/19 16:15

Percent Solids: 92.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	<0.12		0.35	0.12	mg/Kg	☼	08/05/19 19:44	08/06/19 17:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	85		43 - 145				08/05/19 19:44	08/06/19 17:26	1
2-Fluorophenol	82		31 - 166				08/05/19 19:44	08/06/19 17:26	1
Nitrobenzene-d5	70		37 - 147				08/05/19 19:44	08/06/19 17:26	1
Phenol-d5	70		30 - 153				08/05/19 19:44	08/06/19 17:26	1
Terphenyl-d14	103		42 - 157				08/05/19 19:44	08/06/19 17:26	1
2,4,6-Tribromophenol	113		31 - 143				08/05/19 19:44	08/06/19 17:26	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	2.4		0.17	0.034	mg/Kg	☼	08/05/19 19:44	08/07/19 12:41	5
Benzo[b]fluoranthene	3.7		0.17	0.038	mg/Kg	☼	08/05/19 19:44	08/07/19 12:41	5
Benzo[g,h,i]perylene	1.2		0.17	0.057	mg/Kg	☼	08/05/19 19:44	08/07/19 12:41	5
Benzo[k]fluoranthene	1.1		0.17	0.052	mg/Kg	☼	08/05/19 19:44	08/07/19 12:41	5
Chrysene	2.4		0.17	0.048	mg/Kg	☼	08/05/19 19:44	08/07/19 12:41	5
Dibenz(a,h)anthracene	0.32		0.17	0.034	mg/Kg	☼	08/05/19 19:44	08/07/19 12:41	5
Fluoranthene	5.2		0.17	0.033	mg/Kg	☼	08/05/19 19:44	08/07/19 12:41	5
Indeno[1,2,3-cd]pyrene	1.1		0.17	0.046	mg/Kg	☼	08/05/19 19:44	08/07/19 12:41	5
Phenanthrene	2.1		0.17	0.025	mg/Kg	☼	08/05/19 19:44	08/07/19 12:41	5
Pyrene	4.1		0.17	0.035	mg/Kg	☼	08/05/19 19:44	08/07/19 12:41	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.59	J	1.0	0.20	mg/Kg	☼	08/05/19 07:50	08/05/19 18:12	1
Arsenic	3.1		0.51	0.17	mg/Kg	☼	08/05/19 07:50	08/05/19 18:12	1
Barium	32		0.51	0.058	mg/Kg	☼	08/05/19 07:50	08/05/19 18:12	1
Beryllium	0.28		0.20	0.048	mg/Kg	☼	08/05/19 07:50	08/07/19 11:05	1
Cadmium	0.33	B	0.10	0.018	mg/Kg	☼	08/05/19 07:50	08/05/19 18:12	1
Chromium	13		0.51	0.25	mg/Kg	☼	08/05/19 07:50	08/05/19 18:12	1
Cobalt	3.3		0.25	0.067	mg/Kg	☼	08/05/19 07:50	08/05/19 18:12	1
Copper	19		0.51	0.14	mg/Kg	☼	08/05/19 07:50	08/05/19 18:12	1
Iron	6500		10	5.3	mg/Kg	☼	08/05/19 07:50	08/05/19 18:12	1
Lead	33		0.25	0.12	mg/Kg	☼	08/05/19 07:50	08/05/19 18:12	1
Magnesium	89000		25	13	mg/Kg	☼	08/05/19 07:50	08/07/19 10:00	5
Calcium	130000	B	51	8.6	mg/Kg	☼	08/05/19 07:50	08/06/19 12:42	5
Manganese	200		0.51	0.074	mg/Kg	☼	08/05/19 07:50	08/05/19 18:12	1
Nickel	8.2		0.51	0.15	mg/Kg	☼	08/05/19 07:50	08/05/19 18:12	1
Selenium	0.79		0.51	0.30	mg/Kg	☼	08/05/19 07:50	08/05/19 18:12	1
Silver	0.97		0.25	0.066	mg/Kg	☼	08/05/19 07:50	08/05/19 18:12	1
Thallium	<0.25		0.51	0.25	mg/Kg	☼	08/05/19 07:50	08/05/19 18:12	1
Vanadium	12		0.25	0.060	mg/Kg	☼	08/05/19 07:50	08/05/19 18:12	1
Zinc	100		1.0	0.45	mg/Kg	☼	08/05/19 07:50	08/06/19 12:38	1
Potassium	940		25	9.0	mg/Kg	☼	08/05/19 07:50	08/05/19 18:12	1
Sodium	220	B	51	7.5	mg/Kg	☼	08/05/19 07:50	08/05/19 18:12	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/07/19 09:01	08/07/19 18:20	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167743-1

Client Sample ID: 2815V-2-B02 (0-4)

Lab Sample ID: 500-167743-4

Date Collected: 08/02/19 09:35

Matrix: Solid

Date Received: 08/02/19 16:15

Percent Solids: 92.1

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.35	J	0.50	0.050	mg/L	-	08/07/19 09:01	08/07/19 18:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L	-	08/07/19 09:01	08/07/19 18:20	1
Cadmium	<0.0020		0.0050	0.0020	mg/L	-	08/07/19 09:01	08/07/19 18:20	1
Calcium	310		5.0	0.50	mg/L	-	08/07/19 09:01	08/07/19 18:20	1
Chromium	<0.010		0.025	0.010	mg/L	-	08/07/19 09:01	08/07/19 18:20	1
Cobalt	<0.010		0.025	0.010	mg/L	-	08/07/19 09:01	08/07/19 18:20	1
Copper	<0.010		0.025	0.010	mg/L	-	08/07/19 09:01	08/07/19 18:20	1
Iron	<0.20		0.40	0.20	mg/L	-	08/07/19 09:01	08/07/19 18:20	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	08/07/19 09:01	08/07/19 18:20	1
Magnesium	160		2.5	0.50	mg/L	-	08/07/19 09:01	08/07/19 18:20	1
Manganese	0.28		0.025	0.010	mg/L	-	08/07/19 09:01	08/07/19 18:20	1
Nickel	<0.010		0.025	0.010	mg/L	-	08/07/19 09:01	08/07/19 18:20	1
Potassium	3.1		2.5	0.50	mg/L	-	08/07/19 09:01	08/07/19 18:20	1
Selenium	<0.020		0.050	0.020	mg/L	-	08/07/19 09:01	08/07/19 18:20	1
Silver	<0.010		0.025	0.010	mg/L	-	08/07/19 09:01	08/07/19 18:20	1
Vanadium	<0.010		0.025	0.010	mg/L	-	08/07/19 09:01	08/07/19 18:20	1
Zinc	0.20	J	0.50	0.020	mg/L	-	08/07/19 09:01	08/07/19 18:20	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.20		0.025	0.010	mg/L	-	08/07/19 14:43	08/08/19 17:03	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	08/07/19 09:01	08/08/19 17:28	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	08/07/19 09:01	08/08/19 17:28	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	08/07/19 13:25	08/08/19 09:34	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.010	J	0.017	0.0055	mg/Kg	☼	08/07/19 11:20	08/08/19 09:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.24		0.47	0.24	mg/Kg	☼	08/13/19 16:30	08/13/19 18:56	1
pH	8.5		0.2	0.2	SU			08/06/19 11:30	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - McCook - WO 061

Job ID: 500-167743-1

Client Sample ID: 2815V-2-B03 (0-4)

Lab Sample ID: 500-167743-5

Date Collected: 08/02/19 10:30

Matrix: Solid

Date Received: 08/02/19 16:15

Percent Solids: 95.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0079		0.018	0.0079	mg/Kg	☼	08/02/19 17:22	08/05/19 17:52	1
Benzene	<0.00047		0.0018	0.00047	mg/Kg	☼	08/02/19 17:22	08/05/19 17:52	1
Bromodichloromethane	<0.00037		0.0018	0.00037	mg/Kg	☼	08/02/19 17:22	08/05/19 17:52	1
Bromoform	<0.00053		0.0018	0.00053	mg/Kg	☼	08/02/19 17:22	08/05/19 17:52	1
Bromomethane	<0.0017		0.0046	0.0017	mg/Kg	☼	08/02/19 17:22	08/05/19 17:52	1
2-Butanone (MEK)	<0.0020		0.0046	0.0020	mg/Kg	☼	08/02/19 17:22	08/05/19 17:52	1
Carbon disulfide	<0.00095		0.0046	0.00095	mg/Kg	☼	08/02/19 17:22	08/05/19 17:52	1
Carbon tetrachloride	<0.00053		0.0018	0.00053	mg/Kg	☼	08/02/19 17:22	08/05/19 17:52	1
Chlorobenzene	<0.00067		0.0018	0.00067	mg/Kg	☼	08/02/19 17:22	08/05/19 17:52	1
Chloroethane	<0.0014		0.0046	0.0014	mg/Kg	☼	08/02/19 17:22	08/05/19 17:52	1
Chloroform	<0.00063		0.0018	0.00063	mg/Kg	☼	08/02/19 17:22	08/05/19 17:52	1
Chloromethane	<0.0018		0.0046	0.0018	mg/Kg	☼	08/02/19 17:22	08/05/19 17:52	1
cis-1,2-Dichloroethene	<0.00051		0.0018	0.00051	mg/Kg	☼	08/02/19 17:22	08/05/19 17:52	1
cis-1,3-Dichloropropene	<0.00055		0.0018	0.00055	mg/Kg	☼	08/02/19 17:22	08/05/19 17:52	1
Dibromochloromethane	<0.00060		0.0018	0.00060	mg/Kg	☼	08/02/19 17:22	08/05/19 17:52	1
1,1-Dichloroethane	<0.00062		0.0018	0.00062	mg/Kg	☼	08/02/19 17:22	08/05/19 17:52	1
1,2-Dichloroethane	<0.0014		0.0046	0.0014	mg/Kg	☼	08/02/19 17:22	08/05/19 17:52	1
1,1-Dichloroethene	<0.00063		0.0018	0.00063	mg/Kg	☼	08/02/19 17:22	08/05/19 17:52	1
1,2-Dichloropropene	<0.00047		0.0018	0.00047	mg/Kg	☼	08/02/19 17:22	08/05/19 17:52	1
1,3-Dichloropropene, Total	<0.00064		0.0018	0.00064	mg/Kg	☼	08/02/19 17:22	08/05/19 17:52	1
Ethylbenzene	<0.00087		0.0018	0.00087	mg/Kg	☼	08/02/19 17:22	08/05/19 17:52	1
2-Hexanone	<0.0014		0.0046	0.0014	mg/Kg	☼	08/02/19 17:22	08/05/19 17:52	1
Methylene Chloride	<0.0018 *		0.0046	0.0018	mg/Kg	☼	08/02/19 17:22	08/05/19 17:52	1
4-Methyl-2-pentanone (MIBK)	<0.0014		0.0046	0.0014	mg/Kg	☼	08/02/19 17:22	08/05/19 17:52	1
Methyl tert-butyl ether	<0.00054		0.0018	0.00054	mg/Kg	☼	08/02/19 17:22	08/05/19 17:52	1
Styrene	<0.00055		0.0018	0.00055	mg/Kg	☼	08/02/19 17:22	08/05/19 17:52	1
1,1,2,2-Tetrachloroethane	<0.00058		0.0018	0.00058	mg/Kg	☼	08/02/19 17:22	08/05/19 17:52	1
Tetrachloroethene	<0.00062		0.0018	0.00062	mg/Kg	☼	08/02/19 17:22	08/05/19 17:52	1
Toluene	<0.00046		0.0018	0.00046	mg/Kg	☼	08/02/19 17:22	08/05/19 17:52	1
trans-1,2-Dichloroethene	<0.00081		0.0018	0.00081	mg/Kg	☼	08/02/19 17:22	08/05/19 17:52	1
trans-1,3-Dichloropropene	<0.00064		0.0018	0.00064	mg/Kg	☼	08/02/19 17:22	08/05/19 17:52	1
1,1,1-Trichloroethane	<0.00061		0.0018	0.00061	mg/Kg	☼	08/02/19 17:22	08/05/19 17:52	1
1,1,2-Trichloroethane	<0.00078		0.0018	0.00078	mg/Kg	☼	08/02/19 17:22	08/05/19 17:52	1
Trichloroethene	<0.00062		0.0018	0.00062	mg/Kg	☼	08/02/19 17:22	08/05/19 17:52	1
Vinyl acetate	<0.0016		0.0046	0.0016	mg/Kg	☼	08/02/19 17:22	08/05/19 17:52	1
Vinyl chloride	<0.00081 *		0.0018	0.00081	mg/Kg	☼	08/02/19 17:22	08/05/19 17:52	1
Xylenes, Total	<0.00058		0.0036	0.00058	mg/Kg	☼	08/02/19 17:22	08/05/19 17:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		75 - 131	08/02/19 17:22	08/05/19 17:52	1
Dibromofluoromethane	111		75 - 126	08/02/19 17:22	08/05/19 17:52	1
1,2-Dichloroethane-d4 (Surr)	112		70 - 134	08/02/19 17:22	08/05/19 17:52	1
Toluene-d8 (Surr)	96		75 - 124	08/02/19 17:22	08/05/19 17:52	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.14		0.034	0.0061	mg/Kg	☼	08/05/19 19:44	08/06/19 17:54	1
Acenaphthylene	0.016	J	0.034	0.0045	mg/Kg	☼	08/05/19 19:44	08/06/19 17:54	1
Anthracene	0.22		0.034	0.0057	mg/Kg	☼	08/05/19 19:44	08/06/19 17:54	1
Benzo[a]anthracene	1.2		0.034	0.0046	mg/Kg	☼	08/05/19 19:44	08/06/19 17:54	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167743-1

Client Sample ID: 2815V-2-B03 (0-4)

Lab Sample ID: 500-167743-5

Date Collected: 08/02/19 10:30

Matrix: Solid

Date Received: 08/02/19 16:15

Percent Solids: 95.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	<0.035		0.17	0.035	mg/Kg	☼	08/05/19 19:44	08/06/19 17:54	1
Bis(2-chloroethyl)ether	<0.051		0.17	0.051	mg/Kg	☼	08/05/19 19:44	08/06/19 17:54	1
Bis(2-ethylhexyl) phthalate	<0.062		0.17	0.062	mg/Kg	☼	08/05/19 19:44	08/06/19 17:54	1
4-Bromophenyl phenyl ether	<0.045		0.17	0.045	mg/Kg	☼	08/05/19 19:44	08/06/19 17:54	1
Butyl benzyl phthalate	<0.065		0.17	0.065	mg/Kg	☼	08/05/19 19:44	08/06/19 17:54	1
Carbazole	0.31		0.17	0.085	mg/Kg	☼	08/05/19 19:44	08/06/19 17:54	1
4-Chloroaniline	<0.16		0.68	0.16	mg/Kg	☼	08/05/19 19:44	08/06/19 17:54	1
4-Chloro-3-methylphenol	<0.12		0.34	0.12	mg/Kg	☼	08/05/19 19:44	08/06/19 17:54	1
2-Chloronaphthalene	<0.037		0.17	0.037	mg/Kg	☼	08/05/19 19:44	08/06/19 17:54	1
2-Chlorophenol	<0.058		0.17	0.058	mg/Kg	☼	08/05/19 19:44	08/06/19 17:54	1
4-Chlorophenyl phenyl ether	<0.040		0.17	0.040	mg/Kg	☼	08/05/19 19:44	08/06/19 17:54	1
Chrysene	1.5		0.034	0.0092	mg/Kg	☼	08/05/19 19:44	08/06/19 17:54	1
Dibenzofuran	0.059 J		0.17	0.040	mg/Kg	☼	08/05/19 19:44	08/06/19 17:54	1
1,2-Dichlorobenzene	<0.041		0.17	0.041	mg/Kg	☼	08/05/19 19:44	08/06/19 17:54	1
1,3-Dichlorobenzene	<0.038		0.17	0.038	mg/Kg	☼	08/05/19 19:44	08/06/19 17:54	1
1,4-Dichlorobenzene	<0.043		0.17	0.043	mg/Kg	☼	08/05/19 19:44	08/06/19 17:54	1
3,3'-Dichlorobenzidine	<0.047		0.17	0.047	mg/Kg	☼	08/05/19 19:44	08/06/19 17:54	1
2,4-Dichlorophenol	<0.081		0.34	0.081	mg/Kg	☼	08/05/19 19:44	08/06/19 17:54	1
Diethyl phthalate	<0.057		0.17	0.057	mg/Kg	☼	08/05/19 19:44	08/06/19 17:54	1
2,4-Dimethylphenol	<0.13		0.34	0.13	mg/Kg	☼	08/05/19 19:44	08/06/19 17:54	1
Dimethyl phthalate	<0.044		0.17	0.044	mg/Kg	☼	08/05/19 19:44	08/06/19 17:54	1
Di-n-butyl phthalate	<0.052		0.17	0.052	mg/Kg	☼	08/05/19 19:44	08/06/19 17:54	1
4,6-Dinitro-2-methylphenol	<0.27		0.68	0.27	mg/Kg	☼	08/05/19 19:44	08/06/19 17:54	1
2,4-Dinitrophenol	<0.60		0.68	0.60	mg/Kg	☼	08/05/19 19:44	08/06/19 17:54	1
2,4-Dinitrotoluene	<0.054		0.17	0.054	mg/Kg	☼	08/05/19 19:44	08/06/19 17:54	1
2,6-Dinitrotoluene	<0.067		0.17	0.067	mg/Kg	☼	08/05/19 19:44	08/06/19 17:54	1
Di-n-octyl phthalate	<0.055		0.17	0.055	mg/Kg	☼	08/05/19 19:44	08/06/19 17:54	1
Fluorene	0.13		0.034	0.0048	mg/Kg	☼	08/05/19 19:44	08/06/19 17:54	1
Hexachlorobenzene	<0.0079		0.068	0.0079	mg/Kg	☼	08/05/19 19:44	08/06/19 17:54	1
Hexachlorobutadiene	<0.053		0.17	0.053	mg/Kg	☼	08/05/19 19:44	08/06/19 17:54	1
Hexachlorocyclopentadiene	<0.19		0.68	0.19	mg/Kg	☼	08/05/19 19:44	08/06/19 17:54	1
Hexachloroethane	<0.052		0.17	0.052	mg/Kg	☼	08/05/19 19:44	08/06/19 17:54	1
Isophorone	<0.038		0.17	0.038	mg/Kg	☼	08/05/19 19:44	08/06/19 17:54	1
2-Methylnaphthalene	0.010 J		0.068	0.0062	mg/Kg	☼	08/05/19 19:44	08/06/19 17:54	1
2-Methylphenol	<0.054		0.17	0.054	mg/Kg	☼	08/05/19 19:44	08/06/19 17:54	1
3 & 4 Methylphenol	<0.057		0.17	0.057	mg/Kg	☼	08/05/19 19:44	08/06/19 17:54	1
Naphthalene	0.028 J		0.034	0.0052	mg/Kg	☼	08/05/19 19:44	08/06/19 17:54	1
2-Nitroaniline	<0.046		0.17	0.046	mg/Kg	☼	08/05/19 19:44	08/06/19 17:54	1
3-Nitroaniline	<0.11		0.34	0.11	mg/Kg	☼	08/05/19 19:44	08/06/19 17:54	1
4-Nitroaniline	<0.14		0.34	0.14	mg/Kg	☼	08/05/19 19:44	08/06/19 17:54	1
Nitrobenzene	<0.0085		0.034	0.0085	mg/Kg	☼	08/05/19 19:44	08/06/19 17:54	1
2-Nitrophenol	<0.080		0.34	0.080	mg/Kg	☼	08/05/19 19:44	08/06/19 17:54	1
4-Nitrophenol	<0.32		0.68	0.32	mg/Kg	☼	08/05/19 19:44	08/06/19 17:54	1
N-Nitrosodi-n-propylamine	<0.041		0.068	0.041	mg/Kg	☼	08/05/19 19:44	08/06/19 17:54	1
N-Nitrosodiphenylamine	<0.040		0.17	0.040	mg/Kg	☼	08/05/19 19:44	08/06/19 17:54	1
2,2'-oxybis[1-chloropropane]	<0.039		0.17	0.039	mg/Kg	☼	08/05/19 19:44	08/06/19 17:54	1
Pentachlorophenol	<0.54		0.68	0.54	mg/Kg	☼	08/05/19 19:44	08/06/19 17:54	1
Phenanthrene	1.9		0.034	0.0047	mg/Kg	☼	08/05/19 19:44	08/06/19 17:54	1
Phenol	<0.075		0.17	0.075	mg/Kg	☼	08/05/19 19:44	08/06/19 17:54	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - McCook - WO 061

Job ID: 500-167743-1

Client Sample ID: 2815V-2-B03 (0-4)

Lab Sample ID: 500-167743-5

Date Collected: 08/02/19 10:30

Matrix: Solid

Date Received: 08/02/19 16:15

Percent Solids: 95.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.037		0.17	0.037	mg/Kg	☼	08/05/19 19:44	08/06/19 17:54	1
2,4,5-Trichlorophenol	<0.077		0.34	0.077	mg/Kg	☼	08/05/19 19:44	08/06/19 17:54	1
2,4,6-Trichlorophenol	<0.12		0.34	0.12	mg/Kg	☼	08/05/19 19:44	08/06/19 17:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	87		43 - 145				08/05/19 19:44	08/06/19 17:54	1
2-Fluorophenol	88		31 - 166				08/05/19 19:44	08/06/19 17:54	1
Nitrobenzene-d5	72		37 - 147				08/05/19 19:44	08/06/19 17:54	1
Phenol-d5	77		30 - 153				08/05/19 19:44	08/06/19 17:54	1
Terphenyl-d14	115		42 - 157				08/05/19 19:44	08/06/19 17:54	1
2,4,6-Tribromophenol	104		31 - 143				08/05/19 19:44	08/06/19 17:54	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	1.5		0.067	0.013	mg/Kg	☼	08/05/19 19:44	08/07/19 10:48	2
Benzo[b]fluoranthene	2.0		0.067	0.015	mg/Kg	☼	08/05/19 19:44	08/07/19 10:48	2
Benzo[g,h,i]perylene	1.1		0.067	0.022	mg/Kg	☼	08/05/19 19:44	08/07/19 10:48	2
Benzo[k]fluoranthene	0.68		0.067	0.020	mg/Kg	☼	08/05/19 19:44	08/07/19 10:48	2
Dibenz(a,h)anthracene	0.25		0.067	0.013	mg/Kg	☼	08/05/19 19:44	08/07/19 10:48	2
Fluoranthene	3.7		0.067	0.013	mg/Kg	☼	08/05/19 19:44	08/07/19 10:48	2
Indeno[1,2,3-cd]pyrene	0.93		0.067	0.018	mg/Kg	☼	08/05/19 19:44	08/07/19 10:48	2
Pyrene	2.8		0.067	0.013	mg/Kg	☼	08/05/19 19:44	08/07/19 10:48	2

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.47	J	0.99	0.19	mg/Kg	☼	08/05/19 07:50	08/05/19 18:16	1
Arsenic	2.5		0.49	0.17	mg/Kg	☼	08/05/19 07:50	08/05/19 18:16	1
Barium	12		0.49	0.056	mg/Kg	☼	08/05/19 07:50	08/05/19 18:16	1
Beryllium	0.11	J	0.20	0.046	mg/Kg	☼	08/05/19 07:50	08/07/19 11:09	1
Cadmium	0.21	B	0.099	0.018	mg/Kg	☼	08/05/19 07:50	08/05/19 18:16	1
Chromium	3.6		0.49	0.24	mg/Kg	☼	08/05/19 07:50	08/05/19 18:16	1
Cobalt	2.1		0.25	0.065	mg/Kg	☼	08/05/19 07:50	08/05/19 18:16	1
Copper	4.2		0.49	0.14	mg/Kg	☼	08/05/19 07:50	08/05/19 18:16	1
Iron	2900		9.9	5.1	mg/Kg	☼	08/05/19 07:50	08/05/19 18:16	1
Lead	19		0.25	0.11	mg/Kg	☼	08/05/19 07:50	08/05/19 18:16	1
Magnesium	120000		25	12	mg/Kg	☼	08/05/19 07:50	08/07/19 10:04	5
Calcium	170000	B	99	17	mg/Kg	☼	08/05/19 07:50	08/07/19 10:08	10
Manganese	120		0.49	0.072	mg/Kg	☼	08/05/19 07:50	08/05/19 18:16	1
Nickel	3.3		0.49	0.14	mg/Kg	☼	08/05/19 07:50	08/05/19 18:16	1
Selenium	0.49		0.49	0.29	mg/Kg	☼	08/05/19 07:50	08/05/19 18:16	1
Silver	0.46		0.25	0.064	mg/Kg	☼	08/05/19 07:50	08/05/19 18:16	1
Thallium	<0.25		0.49	0.25	mg/Kg	☼	08/05/19 07:50	08/05/19 18:16	1
Vanadium	4.9		0.25	0.058	mg/Kg	☼	08/05/19 07:50	08/05/19 18:16	1
Zinc	47		0.99	0.43	mg/Kg	☼	08/05/19 07:50	08/06/19 12:47	1
Potassium	460		25	8.8	mg/Kg	☼	08/05/19 07:50	08/05/19 18:16	1
Sodium	230	B	49	7.3	mg/Kg	☼	08/05/19 07:50	08/05/19 18:16	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/07/19 09:01	08/07/19 18:24	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167743-1

Client Sample ID: 2815V-2-B03 (0-4)

Lab Sample ID: 500-167743-5

Date Collected: 08/02/19 10:30

Matrix: Solid

Date Received: 08/02/19 16:15

Percent Solids: 95.2

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.20	J	0.50	0.050	mg/L	-	08/07/19 09:01	08/07/19 18:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L	-	08/07/19 09:01	08/07/19 18:24	1
Cadmium	<0.0020		0.0050	0.0020	mg/L	-	08/07/19 09:01	08/07/19 18:24	1
Calcium	320		5.0	0.50	mg/L	-	08/07/19 09:01	08/07/19 18:24	1
Chromium	<0.010		0.025	0.010	mg/L	-	08/07/19 09:01	08/07/19 18:24	1
Cobalt	<0.010		0.025	0.010	mg/L	-	08/07/19 09:01	08/07/19 18:24	1
Copper	<0.010		0.025	0.010	mg/L	-	08/07/19 09:01	08/07/19 18:24	1
Iron	<0.20		0.40	0.20	mg/L	-	08/07/19 09:01	08/07/19 18:24	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	08/07/19 09:01	08/07/19 18:24	1
Magnesium	180		2.5	0.50	mg/L	-	08/07/19 09:01	08/07/19 18:24	1
Manganese	0.29		0.025	0.010	mg/L	-	08/07/19 09:01	08/07/19 18:24	1
Nickel	<0.010		0.025	0.010	mg/L	-	08/07/19 09:01	08/07/19 18:24	1
Potassium	1.8	J	2.5	0.50	mg/L	-	08/07/19 09:01	08/07/19 18:24	1
Selenium	<0.020		0.050	0.020	mg/L	-	08/07/19 09:01	08/07/19 18:24	1
Silver	<0.010		0.025	0.010	mg/L	-	08/07/19 09:01	08/07/19 18:24	1
Vanadium	<0.010		0.025	0.010	mg/L	-	08/07/19 09:01	08/07/19 18:24	1
Zinc	0.11	J	0.50	0.020	mg/L	-	08/07/19 09:01	08/07/19 18:24	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.029		0.025	0.010	mg/L	-	08/07/19 14:43	08/08/19 17:07	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	08/07/19 09:01	08/08/19 17:32	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	08/07/19 09:01	08/08/19 17:32	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	08/07/19 13:25	08/08/19 09:56	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0055		0.017	0.0055	mg/Kg	☼	08/07/19 11:20	08/08/19 09:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.19		0.38	0.19	mg/Kg	☼	08/13/19 16:30	08/13/19 18:56	1
pH	8.9		0.2	0.2	SU			08/06/19 11:34	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167743-1

Client Sample ID: 2815V-2-B09 (0-3.5)

Lab Sample ID: 500-167743-6

Date Collected: 08/02/19 11:50

Matrix: Solid

Date Received: 08/02/19 16:15

Percent Solids: 93.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0066		0.015	0.0066	mg/Kg	☼	08/02/19 17:22	08/05/19 18:17	1
Benzene	<0.00039		0.0015	0.00039	mg/Kg	☼	08/02/19 17:22	08/05/19 18:17	1
Bromodichloromethane	<0.00031		0.0015	0.00031	mg/Kg	☼	08/02/19 17:22	08/05/19 18:17	1
Bromoform	<0.00044		0.0015	0.00044	mg/Kg	☼	08/02/19 17:22	08/05/19 18:17	1
Bromomethane	<0.0014		0.0038	0.0014	mg/Kg	☼	08/02/19 17:22	08/05/19 18:17	1
2-Butanone (MEK)	<0.0017		0.0038	0.0017	mg/Kg	☼	08/02/19 17:22	08/05/19 18:17	1
Carbon disulfide	<0.00079		0.0038	0.00079	mg/Kg	☼	08/02/19 17:22	08/05/19 18:17	1
Carbon tetrachloride	<0.00044		0.0015	0.00044	mg/Kg	☼	08/02/19 17:22	08/05/19 18:17	1
Chlorobenzene	<0.00056		0.0015	0.00056	mg/Kg	☼	08/02/19 17:22	08/05/19 18:17	1
Chloroethane	<0.0011		0.0038	0.0011	mg/Kg	☼	08/02/19 17:22	08/05/19 18:17	1
Chloroform	<0.00052		0.0015	0.00052	mg/Kg	☼	08/02/19 17:22	08/05/19 18:17	1
Chloromethane	<0.0015		0.0038	0.0015	mg/Kg	☼	08/02/19 17:22	08/05/19 18:17	1
cis-1,2-Dichloroethene	<0.00042		0.0015	0.00042	mg/Kg	☼	08/02/19 17:22	08/05/19 18:17	1
cis-1,3-Dichloropropene	<0.00046		0.0015	0.00046	mg/Kg	☼	08/02/19 17:22	08/05/19 18:17	1
Dibromochloromethane	<0.00049		0.0015	0.00049	mg/Kg	☼	08/02/19 17:22	08/05/19 18:17	1
1,1-Dichloroethane	<0.00052		0.0015	0.00052	mg/Kg	☼	08/02/19 17:22	08/05/19 18:17	1
1,2-Dichloroethane	<0.0012		0.0038	0.0012	mg/Kg	☼	08/02/19 17:22	08/05/19 18:17	1
1,1-Dichloroethene	<0.00052		0.0015	0.00052	mg/Kg	☼	08/02/19 17:22	08/05/19 18:17	1
1,2-Dichloropropane	<0.00039		0.0015	0.00039	mg/Kg	☼	08/02/19 17:22	08/05/19 18:17	1
1,3-Dichloropropane, Total	<0.00053		0.0015	0.00053	mg/Kg	☼	08/02/19 17:22	08/05/19 18:17	1
Ethylbenzene	<0.00072		0.0015	0.00072	mg/Kg	☼	08/02/19 17:22	08/05/19 18:17	1
2-Hexanone	<0.0012		0.0038	0.0012	mg/Kg	☼	08/02/19 17:22	08/05/19 18:17	1
Methylene Chloride	0.0033	J *	0.0038	0.0015	mg/Kg	☼	08/02/19 17:22	08/05/19 18:17	1
4-Methyl-2-pentanone (MIBK)	<0.0011		0.0038	0.0011	mg/Kg	☼	08/02/19 17:22	08/05/19 18:17	1
Methyl tert-butyl ether	<0.00044		0.0015	0.00044	mg/Kg	☼	08/02/19 17:22	08/05/19 18:17	1
Styrene	<0.00046		0.0015	0.00046	mg/Kg	☼	08/02/19 17:22	08/05/19 18:17	1
1,1,2,2-Tetrachloroethane	<0.00048		0.0015	0.00048	mg/Kg	☼	08/02/19 17:22	08/05/19 18:17	1
Tetrachloroethene	<0.00051		0.0015	0.00051	mg/Kg	☼	08/02/19 17:22	08/05/19 18:17	1
Toluene	<0.00038		0.0015	0.00038	mg/Kg	☼	08/02/19 17:22	08/05/19 18:17	1
trans-1,2-Dichloroethene	<0.00067		0.0015	0.00067	mg/Kg	☼	08/02/19 17:22	08/05/19 18:17	1
trans-1,3-Dichloropropene	<0.00053		0.0015	0.00053	mg/Kg	☼	08/02/19 17:22	08/05/19 18:17	1
1,1,1-Trichloroethane	<0.00051		0.0015	0.00051	mg/Kg	☼	08/02/19 17:22	08/05/19 18:17	1
1,1,2-Trichloroethane	<0.00065		0.0015	0.00065	mg/Kg	☼	08/02/19 17:22	08/05/19 18:17	1
Trichloroethene	<0.00051		0.0015	0.00051	mg/Kg	☼	08/02/19 17:22	08/05/19 18:17	1
Vinyl acetate	<0.0013		0.0038	0.0013	mg/Kg	☼	08/02/19 17:22	08/05/19 18:17	1
Vinyl chloride	<0.00067	*	0.0015	0.00067	mg/Kg	☼	08/02/19 17:22	08/05/19 18:17	1
Xylenes, Total	<0.00048		0.0030	0.00048	mg/Kg	☼	08/02/19 17:22	08/05/19 18:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		75 - 131	08/02/19 17:22	08/05/19 18:17	1
Dibromofluoromethane	113		75 - 126	08/02/19 17:22	08/05/19 18:17	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 134	08/02/19 17:22	08/05/19 18:17	1
Toluene-d8 (Surr)	97		75 - 124	08/02/19 17:22	08/05/19 18:17	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.052		0.034	0.0062	mg/Kg	☼	08/05/19 19:44	08/06/19 18:22	1
Acenaphthylene	0.26		0.034	0.0046	mg/Kg	☼	08/05/19 19:44	08/06/19 18:22	1
Anthracene	0.26		0.034	0.0058	mg/Kg	☼	08/05/19 19:44	08/06/19 18:22	1
Bis(2-chloroethoxy)methane	<0.035		0.17	0.035	mg/Kg	☼	08/05/19 19:44	08/06/19 18:22	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167743-1

Client Sample ID: 2815V-2-B09 (0-3.5)

Lab Sample ID: 500-167743-6

Date Collected: 08/02/19 11:50

Matrix: Solid

Date Received: 08/02/19 16:15

Percent Solids: 93.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	<0.052		0.17	0.052	mg/Kg	☼	08/05/19 19:44	08/06/19 18:22	1
Bis(2-ethylhexyl) phthalate	<0.063		0.17	0.063	mg/Kg	☼	08/05/19 19:44	08/06/19 18:22	1
4-Bromophenyl phenyl ether	<0.046		0.17	0.046	mg/Kg	☼	08/05/19 19:44	08/06/19 18:22	1
Butyl benzyl phthalate	<0.066		0.17	0.066	mg/Kg	☼	08/05/19 19:44	08/06/19 18:22	1
Carbazole	<0.087		0.17	0.087	mg/Kg	☼	08/05/19 19:44	08/06/19 18:22	1
4-Chloroaniline	<0.16		0.70	0.16	mg/Kg	☼	08/05/19 19:44	08/06/19 18:22	1
4-Chloro-3-methylphenol	<0.12		0.34	0.12	mg/Kg	☼	08/05/19 19:44	08/06/19 18:22	1
2-Chloronaphthalene	<0.038		0.17	0.038	mg/Kg	☼	08/05/19 19:44	08/06/19 18:22	1
2-Chlorophenol	<0.059		0.17	0.059	mg/Kg	☼	08/05/19 19:44	08/06/19 18:22	1
4-Chlorophenyl phenyl ether	<0.041		0.17	0.041	mg/Kg	☼	08/05/19 19:44	08/06/19 18:22	1
Dibenzofuran	0.22		0.17	0.041	mg/Kg	☼	08/05/19 19:44	08/06/19 18:22	1
1,2-Dichlorobenzene	<0.041		0.17	0.041	mg/Kg	☼	08/05/19 19:44	08/06/19 18:22	1
1,3-Dichlorobenzene	<0.039		0.17	0.039	mg/Kg	☼	08/05/19 19:44	08/06/19 18:22	1
1,4-Dichlorobenzene	<0.045		0.17	0.045	mg/Kg	☼	08/05/19 19:44	08/06/19 18:22	1
3,3'-Dichlorobenzidine	<0.049		0.17	0.049	mg/Kg	☼	08/05/19 19:44	08/06/19 18:22	1
2,4-Dichlorophenol	<0.082		0.34	0.082	mg/Kg	☼	08/05/19 19:44	08/06/19 18:22	1
Diethyl phthalate	<0.059		0.17	0.059	mg/Kg	☼	08/05/19 19:44	08/06/19 18:22	1
2,4-Dimethylphenol	<0.13		0.34	0.13	mg/Kg	☼	08/05/19 19:44	08/06/19 18:22	1
Dimethyl phthalate	<0.045		0.17	0.045	mg/Kg	☼	08/05/19 19:44	08/06/19 18:22	1
Di-n-butyl phthalate	<0.053		0.17	0.053	mg/Kg	☼	08/05/19 19:44	08/06/19 18:22	1
4,6-Dinitro-2-methylphenol	<0.28		0.70	0.28	mg/Kg	☼	08/05/19 19:44	08/06/19 18:22	1
2,4-Dinitrophenol	<0.61		0.70	0.61	mg/Kg	☼	08/05/19 19:44	08/06/19 18:22	1
2,4-Dinitrotoluene	<0.055		0.17	0.055	mg/Kg	☼	08/05/19 19:44	08/06/19 18:22	1
2,6-Dinitrotoluene	<0.068		0.17	0.068	mg/Kg	☼	08/05/19 19:44	08/06/19 18:22	1
Di-n-octyl phthalate	<0.057		0.17	0.057	mg/Kg	☼	08/05/19 19:44	08/06/19 18:22	1
Fluoranthene	0.86		0.034	0.0064	mg/Kg	☼	08/05/19 19:44	08/06/19 18:22	1
Fluorene	0.044		0.034	0.0049	mg/Kg	☼	08/05/19 19:44	08/06/19 18:22	1
Hexachlorobenzene	<0.0080		0.070	0.0080	mg/Kg	☼	08/05/19 19:44	08/06/19 18:22	1
Hexachlorobutadiene	<0.055		0.17	0.055	mg/Kg	☼	08/05/19 19:44	08/06/19 18:22	1
Hexachlorocyclopentadiene	<0.20		0.70	0.20	mg/Kg	☼	08/05/19 19:44	08/06/19 18:22	1
Hexachloroethane	<0.053		0.17	0.053	mg/Kg	☼	08/05/19 19:44	08/06/19 18:22	1
Isophorone	<0.039		0.17	0.039	mg/Kg	☼	08/05/19 19:44	08/06/19 18:22	1
2-Methylnaphthalene	0.54		0.070	0.0064	mg/Kg	☼	08/05/19 19:44	08/06/19 18:22	1
2-Methylphenol	<0.056		0.17	0.056	mg/Kg	☼	08/05/19 19:44	08/06/19 18:22	1
3 & 4 Methylphenol	<0.058		0.17	0.058	mg/Kg	☼	08/05/19 19:44	08/06/19 18:22	1
Naphthalene	0.11		0.034	0.0053	mg/Kg	☼	08/05/19 19:44	08/06/19 18:22	1
2-Nitroaniline	<0.047		0.17	0.047	mg/Kg	☼	08/05/19 19:44	08/06/19 18:22	1
3-Nitroaniline	<0.11		0.34	0.11	mg/Kg	☼	08/05/19 19:44	08/06/19 18:22	1
4-Nitroaniline	<0.15		0.34	0.15	mg/Kg	☼	08/05/19 19:44	08/06/19 18:22	1
Nitrobenzene	<0.0087		0.034	0.0087	mg/Kg	☼	08/05/19 19:44	08/06/19 18:22	1
2-Nitrophenol	<0.082		0.34	0.082	mg/Kg	☼	08/05/19 19:44	08/06/19 18:22	1
4-Nitrophenol	<0.33		0.70	0.33	mg/Kg	☼	08/05/19 19:44	08/06/19 18:22	1
N-Nitrosodi-n-propylamine	<0.042		0.070	0.042	mg/Kg	☼	08/05/19 19:44	08/06/19 18:22	1
N-Nitrosodiphenylamine	<0.041		0.17	0.041	mg/Kg	☼	08/05/19 19:44	08/06/19 18:22	1
2,2'-oxybis[1-chloropropane]	<0.040		0.17	0.040	mg/Kg	☼	08/05/19 19:44	08/06/19 18:22	1
Pentachlorophenol	<0.56		0.70	0.56	mg/Kg	☼	08/05/19 19:44	08/06/19 18:22	1
Phenanthrene	0.98		0.034	0.0048	mg/Kg	☼	08/05/19 19:44	08/06/19 18:22	1
Phenol	<0.077		0.17	0.077	mg/Kg	☼	08/05/19 19:44	08/06/19 18:22	1
1,2,4-Trichlorobenzene	<0.037		0.17	0.037	mg/Kg	☼	08/05/19 19:44	08/06/19 18:22	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167743-1

Client Sample ID: 2815V-2-B09 (0-3.5)

Lab Sample ID: 500-167743-6

Date Collected: 08/02/19 11:50

Matrix: Solid

Date Received: 08/02/19 16:15

Percent Solids: 93.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.079		0.34	0.079	mg/Kg	☼	08/05/19 19:44	08/06/19 18:22	1
2,4,6-Trichlorophenol	<0.12		0.34	0.12	mg/Kg	☼	08/05/19 19:44	08/06/19 18:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	78		43 - 145				08/05/19 19:44	08/06/19 18:22	1
2-Fluorophenol	79		31 - 166				08/05/19 19:44	08/06/19 18:22	1
Nitrobenzene-d5	67		37 - 147				08/05/19 19:44	08/06/19 18:22	1
Phenol-d5	67		30 - 153				08/05/19 19:44	08/06/19 18:22	1
Terphenyl-d14	130		42 - 157				08/05/19 19:44	08/06/19 18:22	1
2,4,6-Tribromophenol	99		31 - 143				08/05/19 19:44	08/06/19 18:22	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	0.48		0.069	0.0093	mg/Kg	☼	08/05/19 19:44	08/07/19 11:16	2
Benzo[a]pyrene	0.56		0.069	0.013	mg/Kg	☼	08/05/19 19:44	08/07/19 11:16	2
Benzo[b]fluoranthene	0.46		0.069	0.015	mg/Kg	☼	08/05/19 19:44	08/07/19 11:16	2
Benzo[g,h,i]perylene	0.19		0.069	0.022	mg/Kg	☼	08/05/19 19:44	08/07/19 11:16	2
Benzo[k]fluoranthene	0.56		0.069	0.020	mg/Kg	☼	08/05/19 19:44	08/07/19 11:16	2
Chrysene	0.69		0.069	0.019	mg/Kg	☼	08/05/19 19:44	08/07/19 11:16	2
Dibenz(a,h)anthracene	0.064	J	0.069	0.013	mg/Kg	☼	08/05/19 19:44	08/07/19 11:16	2
Indeno[1,2,3-cd]pyrene	0.18		0.069	0.018	mg/Kg	☼	08/05/19 19:44	08/07/19 11:16	2
Pyrene	0.87		0.069	0.014	mg/Kg	☼	08/05/19 19:44	08/07/19 11:16	2

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.55	J	1.0	0.20	mg/Kg	☼	08/05/19 07:50	08/05/19 18:20	1
Arsenic	4.2		0.51	0.18	mg/Kg	☼	08/05/19 07:50	08/05/19 18:20	1
Barium	25		0.51	0.059	mg/Kg	☼	08/05/19 07:50	08/05/19 18:20	1
Beryllium	0.31		0.21	0.048	mg/Kg	☼	08/05/19 07:50	08/07/19 11:13	1
Cadmium	0.31	B	0.10	0.019	mg/Kg	☼	08/05/19 07:50	08/05/19 18:20	1
Chromium	3.8		0.51	0.25	mg/Kg	☼	08/05/19 07:50	08/05/19 18:20	1
Cobalt	3.7		0.26	0.067	mg/Kg	☼	08/05/19 07:50	08/05/19 18:20	1
Copper	9.0		0.51	0.14	mg/Kg	☼	08/05/19 07:50	08/05/19 18:20	1
Iron	5600		10	5.4	mg/Kg	☼	08/05/19 07:50	08/05/19 18:20	1
Lead	41		0.26	0.12	mg/Kg	☼	08/05/19 07:50	08/05/19 18:20	1
Magnesium	86000		26	13	mg/Kg	☼	08/05/19 07:50	08/07/19 10:12	5
Calcium	120000	B	51	8.7	mg/Kg	☼	08/05/19 07:50	08/06/19 13:36	5
Manganese	200		0.51	0.075	mg/Kg	☼	08/05/19 07:50	08/05/19 18:20	1
Nickel	6.0		0.51	0.15	mg/Kg	☼	08/05/19 07:50	08/05/19 18:20	1
Selenium	0.63		0.51	0.30	mg/Kg	☼	08/05/19 07:50	08/05/19 18:20	1
Silver	0.75		0.26	0.066	mg/Kg	☼	08/05/19 07:50	08/05/19 18:20	1
Thallium	<0.26		0.51	0.26	mg/Kg	☼	08/05/19 07:50	08/05/19 18:20	1
Vanadium	7.7		0.26	0.061	mg/Kg	☼	08/05/19 07:50	08/05/19 18:20	1
Zinc	31		1.0	0.45	mg/Kg	☼	08/05/19 07:50	08/06/19 13:32	1
Potassium	620		26	9.1	mg/Kg	☼	08/05/19 07:50	08/05/19 18:20	1
Sodium	2000	B	51	7.6	mg/Kg	☼	08/05/19 07:50	08/05/19 18:20	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/07/19 09:01	08/07/19 18:28	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167743-1

Client Sample ID: 2815V-2-B09 (0-3.5)

Lab Sample ID: 500-167743-6

Date Collected: 08/02/19 11:50

Matrix: Solid

Date Received: 08/02/19 16:15

Percent Solids: 93.8

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.22	J	0.50	0.050	mg/L	-	08/07/19 09:01	08/07/19 18:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L	-	08/07/19 09:01	08/07/19 18:28	1
Cadmium	<0.0020		0.0050	0.0020	mg/L	-	08/07/19 09:01	08/07/19 18:28	1
Calcium	330		5.0	0.50	mg/L	-	08/07/19 09:01	08/07/19 18:28	1
Chromium	<0.010		0.025	0.010	mg/L	-	08/07/19 09:01	08/07/19 18:28	1
Cobalt	<0.010		0.025	0.010	mg/L	-	08/07/19 09:01	08/07/19 18:28	1
Copper	<0.010		0.025	0.010	mg/L	-	08/07/19 09:01	08/07/19 18:28	1
Iron	<0.20		0.40	0.20	mg/L	-	08/07/19 09:01	08/07/19 18:28	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	08/07/19 09:01	08/07/19 18:28	1
Magnesium	130		2.5	0.50	mg/L	-	08/07/19 09:01	08/07/19 18:28	1
Manganese	0.95		0.025	0.010	mg/L	-	08/07/19 09:01	08/07/19 18:28	1
Nickel	<0.010		0.025	0.010	mg/L	-	08/07/19 09:01	08/07/19 18:28	1
Potassium	4.2		2.5	0.50	mg/L	-	08/07/19 09:01	08/07/19 18:28	1
Selenium	<0.020		0.050	0.020	mg/L	-	08/07/19 09:01	08/07/19 18:28	1
Silver	<0.010		0.025	0.010	mg/L	-	08/07/19 09:01	08/07/19 18:28	1
Vanadium	<0.010		0.025	0.010	mg/L	-	08/07/19 09:01	08/07/19 18:28	1
Zinc	0.33	J	0.50	0.020	mg/L	-	08/07/19 09:01	08/07/19 18:28	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.11		0.025	0.010	mg/L	-	08/07/19 14:43	08/08/19 17:11	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	08/07/19 09:01	08/08/19 17:35	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	08/07/19 09:01	08/08/19 17:35	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	08/07/19 13:25	08/08/19 09:57	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.017	0.0056	mg/Kg	☼	08/07/19 11:20	08/08/19 09:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.23		0.45	0.23	mg/Kg	☼	08/13/19 16:30	08/13/19 18:57	1
pH	9.1		0.2	0.2	SU			08/06/19 11:43	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167743-1

Client Sample ID: 2815V-2-B10 (0-3.5)

Lab Sample ID: 500-167743-7

Date Collected: 08/02/19 11:10

Matrix: Solid

Date Received: 08/02/19 16:15

Percent Solids: 90.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.026		0.016	0.0071	mg/Kg	☼	08/02/19 17:22	08/06/19 11:29	1
Benzene	<0.00042		0.0016	0.00042	mg/Kg	☼	08/02/19 17:22	08/06/19 11:29	1
Bromodichloromethane	<0.00033		0.0016	0.00033	mg/Kg	☼	08/02/19 17:22	08/06/19 11:29	1
Bromoform	<0.00048		0.0016	0.00048	mg/Kg	☼	08/02/19 17:22	08/06/19 11:29	1
Bromomethane	<0.0015		0.0041	0.0015	mg/Kg	☼	08/02/19 17:22	08/06/19 11:29	1
2-Butanone (MEK)	<0.0018		0.0041	0.0018	mg/Kg	☼	08/02/19 17:22	08/06/19 11:29	1
Carbon disulfide	<0.00085		0.0041	0.00085	mg/Kg	☼	08/02/19 17:22	08/06/19 11:29	1
Carbon tetrachloride	<0.00047		0.0016	0.00047	mg/Kg	☼	08/02/19 17:22	08/06/19 11:29	1
Chlorobenzene	<0.00060		0.0016	0.00060	mg/Kg	☼	08/02/19 17:22	08/06/19 11:29	1
Chloroethane	<0.0012 *		0.0041	0.0012	mg/Kg	☼	08/02/19 17:22	08/06/19 11:29	1
Chloroform	<0.00057		0.0016	0.00057	mg/Kg	☼	08/02/19 17:22	08/06/19 11:29	1
Chloromethane	<0.0016		0.0041	0.0016	mg/Kg	☼	08/02/19 17:22	08/06/19 11:29	1
cis-1,2-Dichloroethene	<0.00046		0.0016	0.00046	mg/Kg	☼	08/02/19 17:22	08/06/19 11:29	1
cis-1,3-Dichloropropene	<0.00049		0.0016	0.00049	mg/Kg	☼	08/02/19 17:22	08/06/19 11:29	1
Dibromochloromethane	<0.00053		0.0016	0.00053	mg/Kg	☼	08/02/19 17:22	08/06/19 11:29	1
1,1-Dichloroethane	<0.00056		0.0016	0.00056	mg/Kg	☼	08/02/19 17:22	08/06/19 11:29	1
1,2-Dichloroethane	<0.0013		0.0041	0.0013	mg/Kg	☼	08/02/19 17:22	08/06/19 11:29	1
1,1-Dichloroethene	<0.00056		0.0016	0.00056	mg/Kg	☼	08/02/19 17:22	08/06/19 11:29	1
1,2-Dichloropropene	<0.00042		0.0016	0.00042	mg/Kg	☼	08/02/19 17:22	08/06/19 11:29	1
1,3-Dichloropropene, Total	<0.00057		0.0016	0.00057	mg/Kg	☼	08/02/19 17:22	08/06/19 11:29	1
Ethylbenzene	<0.00078		0.0016	0.00078	mg/Kg	☼	08/02/19 17:22	08/06/19 11:29	1
2-Hexanone	<0.0013		0.0041	0.0013	mg/Kg	☼	08/02/19 17:22	08/06/19 11:29	1
Methylene Chloride	0.0032 J		0.0041	0.0016	mg/Kg	☼	08/02/19 17:22	08/06/19 11:29	1
4-Methyl-2-pentanone (MIBK)	<0.0012		0.0041	0.0012	mg/Kg	☼	08/02/19 17:22	08/06/19 11:29	1
Methyl tert-butyl ether	<0.00048		0.0016	0.00048	mg/Kg	☼	08/02/19 17:22	08/06/19 11:29	1
Styrene	<0.00049		0.0016	0.00049	mg/Kg	☼	08/02/19 17:22	08/06/19 11:29	1
1,1,2,2-Tetrachloroethane	<0.00052		0.0016	0.00052	mg/Kg	☼	08/02/19 17:22	08/06/19 11:29	1
Tetrachloroethene	<0.00056		0.0016	0.00056	mg/Kg	☼	08/02/19 17:22	08/06/19 11:29	1
Toluene	<0.00041		0.0016	0.00041	mg/Kg	☼	08/02/19 17:22	08/06/19 11:29	1
trans-1,2-Dichloroethene	<0.00072		0.0016	0.00072	mg/Kg	☼	08/02/19 17:22	08/06/19 11:29	1
trans-1,3-Dichloropropene	<0.00057		0.0016	0.00057	mg/Kg	☼	08/02/19 17:22	08/06/19 11:29	1
1,1,1-Trichloroethane	<0.00055		0.0016	0.00055	mg/Kg	☼	08/02/19 17:22	08/06/19 11:29	1
1,1,2-Trichloroethane	<0.00070		0.0016	0.00070	mg/Kg	☼	08/02/19 17:22	08/06/19 11:29	1
Trichloroethene	<0.00055		0.0016	0.00055	mg/Kg	☼	08/02/19 17:22	08/06/19 11:29	1
Vinyl acetate	<0.0014		0.0041	0.0014	mg/Kg	☼	08/02/19 17:22	08/06/19 11:29	1
Vinyl chloride	<0.00072		0.0016	0.00072	mg/Kg	☼	08/02/19 17:22	08/06/19 11:29	1
Xylenes, Total	<0.00052		0.0033	0.00052	mg/Kg	☼	08/02/19 17:22	08/06/19 11:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		75 - 131	08/02/19 17:22	08/05/19 18:43	1
4-Bromofluorobenzene (Surr)	88		75 - 131	08/02/19 17:22	08/06/19 11:29	1
Dibromofluoromethane	113		75 - 126	08/02/19 17:22	08/05/19 18:43	1
Dibromofluoromethane	98		75 - 126	08/02/19 17:22	08/06/19 11:29	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134	08/02/19 17:22	08/05/19 18:43	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	08/02/19 17:22	08/06/19 11:29	1
Toluene-d8 (Surr)	97		75 - 124	08/02/19 17:22	08/05/19 18:43	1
Toluene-d8 (Surr)	93		75 - 124	08/02/19 17:22	08/06/19 11:29	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167743-1

Client Sample ID: 2815V-2-B10 (0-3.5)

Lab Sample ID: 500-167743-7

Date Collected: 08/02/19 11:10

Matrix: Solid

Date Received: 08/02/19 16:15

Percent Solids: 90.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.051		0.036	0.0065	mg/Kg	☼	08/05/19 19:44	08/06/19 18:51	1
Acenaphthylene	0.025	J	0.036	0.0047	mg/Kg	☼	08/05/19 19:44	08/06/19 18:51	1
Anthracene	0.18		0.036	0.0060	mg/Kg	☼	08/05/19 19:44	08/06/19 18:51	1
Bis(2-chloroethoxy)methane	<0.037		0.18	0.037	mg/Kg	☼	08/05/19 19:44	08/06/19 18:51	1
Bis(2-chloroethyl)ether	<0.054		0.18	0.054	mg/Kg	☼	08/05/19 19:44	08/06/19 18:51	1
Bis(2-ethylhexyl) phthalate	0.081	J	0.18	0.066	mg/Kg	☼	08/05/19 19:44	08/06/19 18:51	1
4-Bromophenyl phenyl ether	<0.047		0.18	0.047	mg/Kg	☼	08/05/19 19:44	08/06/19 18:51	1
Butyl benzyl phthalate	<0.068		0.18	0.068	mg/Kg	☼	08/05/19 19:44	08/06/19 18:51	1
Carbazole	<0.090		0.18	0.090	mg/Kg	☼	08/05/19 19:44	08/06/19 18:51	1
4-Chloroaniline	<0.17		0.72	0.17	mg/Kg	☼	08/05/19 19:44	08/06/19 18:51	1
4-Chloro-3-methylphenol	<0.12		0.36	0.12	mg/Kg	☼	08/05/19 19:44	08/06/19 18:51	1
2-Chloronaphthalene	<0.040		0.18	0.040	mg/Kg	☼	08/05/19 19:44	08/06/19 18:51	1
2-Chlorophenol	<0.061		0.18	0.061	mg/Kg	☼	08/05/19 19:44	08/06/19 18:51	1
4-Chlorophenyl phenyl ether	<0.042		0.18	0.042	mg/Kg	☼	08/05/19 19:44	08/06/19 18:51	1
Dibenzofuran	<0.042		0.18	0.042	mg/Kg	☼	08/05/19 19:44	08/06/19 18:51	1
1,2-Dichlorobenzene	<0.043		0.18	0.043	mg/Kg	☼	08/05/19 19:44	08/06/19 18:51	1
1,3-Dichlorobenzene	<0.040		0.18	0.040	mg/Kg	☼	08/05/19 19:44	08/06/19 18:51	1
1,4-Dichlorobenzene	<0.046		0.18	0.046	mg/Kg	☼	08/05/19 19:44	08/06/19 18:51	1
3,3'-Dichlorobenzidine	<0.050		0.18	0.050	mg/Kg	☼	08/05/19 19:44	08/06/19 18:51	1
2,4-Dichlorophenol	<0.085		0.36	0.085	mg/Kg	☼	08/05/19 19:44	08/06/19 18:51	1
Diethyl phthalate	<0.061		0.18	0.061	mg/Kg	☼	08/05/19 19:44	08/06/19 18:51	1
2,4-Dimethylphenol	<0.14		0.36	0.14	mg/Kg	☼	08/05/19 19:44	08/06/19 18:51	1
Dimethyl phthalate	<0.047		0.18	0.047	mg/Kg	☼	08/05/19 19:44	08/06/19 18:51	1
Di-n-butyl phthalate	<0.055		0.18	0.055	mg/Kg	☼	08/05/19 19:44	08/06/19 18:51	1
4,6-Dinitro-2-methylphenol	<0.29		0.72	0.29	mg/Kg	☼	08/05/19 19:44	08/06/19 18:51	1
2,4-Dinitrophenol	<0.63		0.72	0.63	mg/Kg	☼	08/05/19 19:44	08/06/19 18:51	1
2,4-Dinitrotoluene	<0.057		0.18	0.057	mg/Kg	☼	08/05/19 19:44	08/06/19 18:51	1
2,6-Dinitrotoluene	<0.071		0.18	0.071	mg/Kg	☼	08/05/19 19:44	08/06/19 18:51	1
Di-n-octyl phthalate	<0.059		0.18	0.059	mg/Kg	☼	08/05/19 19:44	08/06/19 18:51	1
Fluoranthene	1.3		0.036	0.0067	mg/Kg	☼	08/05/19 19:44	08/06/19 18:51	1
Fluorene	0.044		0.036	0.0050	mg/Kg	☼	08/05/19 19:44	08/06/19 18:51	1
Hexachlorobenzene	<0.0083		0.072	0.0083	mg/Kg	☼	08/05/19 19:44	08/06/19 18:51	1
Hexachlorobutadiene	<0.056		0.18	0.056	mg/Kg	☼	08/05/19 19:44	08/06/19 18:51	1
Hexachlorocyclopentadiene	<0.21		0.72	0.21	mg/Kg	☼	08/05/19 19:44	08/06/19 18:51	1
Hexachloroethane	<0.055		0.18	0.055	mg/Kg	☼	08/05/19 19:44	08/06/19 18:51	1
Isophorone	<0.040		0.18	0.040	mg/Kg	☼	08/05/19 19:44	08/06/19 18:51	1
2-Methylnaphthalene	0.042	J	0.072	0.0066	mg/Kg	☼	08/05/19 19:44	08/06/19 18:51	1
2-Methylphenol	<0.058		0.18	0.058	mg/Kg	☼	08/05/19 19:44	08/06/19 18:51	1
3 & 4 Methylphenol	<0.060		0.18	0.060	mg/Kg	☼	08/05/19 19:44	08/06/19 18:51	1
Naphthalene	0.037		0.036	0.0055	mg/Kg	☼	08/05/19 19:44	08/06/19 18:51	1
2-Nitroaniline	<0.048		0.18	0.048	mg/Kg	☼	08/05/19 19:44	08/06/19 18:51	1
3-Nitroaniline	<0.11		0.36	0.11	mg/Kg	☼	08/05/19 19:44	08/06/19 18:51	1
4-Nitroaniline	<0.15		0.36	0.15	mg/Kg	☼	08/05/19 19:44	08/06/19 18:51	1
Nitrobenzene	<0.0090		0.036	0.0090	mg/Kg	☼	08/05/19 19:44	08/06/19 18:51	1
2-Nitrophenol	<0.085		0.36	0.085	mg/Kg	☼	08/05/19 19:44	08/06/19 18:51	1
4-Nitrophenol	<0.34		0.72	0.34	mg/Kg	☼	08/05/19 19:44	08/06/19 18:51	1
N-Nitrosodi-n-propylamine	<0.044		0.072	0.044	mg/Kg	☼	08/05/19 19:44	08/06/19 18:51	1
N-Nitrosodiphenylamine	<0.042		0.18	0.042	mg/Kg	☼	08/05/19 19:44	08/06/19 18:51	1
2,2'-oxybis[1-chloropropane]	<0.042		0.18	0.042	mg/Kg	☼	08/05/19 19:44	08/06/19 18:51	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167743-1

Client Sample ID: 2815V-2-B10 (0-3.5)

Lab Sample ID: 500-167743-7

Date Collected: 08/02/19 11:10

Matrix: Solid

Date Received: 08/02/19 16:15

Percent Solids: 90.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.58		0.72	0.58	mg/Kg	☼	08/05/19 19:44	08/06/19 18:51	1
Phenanthrene	0.74		0.036	0.0050	mg/Kg	☼	08/05/19 19:44	08/06/19 18:51	1
Phenol	<0.080		0.18	0.080	mg/Kg	☼	08/05/19 19:44	08/06/19 18:51	1
1,2,4-Trichlorobenzene	<0.039		0.18	0.039	mg/Kg	☼	08/05/19 19:44	08/06/19 18:51	1
2,4,5-Trichlorophenol	<0.082		0.36	0.082	mg/Kg	☼	08/05/19 19:44	08/06/19 18:51	1
2,4,6-Trichlorophenol	<0.12		0.36	0.12	mg/Kg	☼	08/05/19 19:44	08/06/19 18:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	83		43 - 145				08/05/19 19:44	08/06/19 18:51	1
2-Fluorophenol	82		31 - 166				08/05/19 19:44	08/06/19 18:51	1
Nitrobenzene-d5	66		37 - 147				08/05/19 19:44	08/06/19 18:51	1
Phenol-d5	70		30 - 153				08/05/19 19:44	08/06/19 18:51	1
Terphenyl-d14	135		42 - 157				08/05/19 19:44	08/06/19 18:51	1
2,4,6-Tribromophenol	113		31 - 143				08/05/19 19:44	08/06/19 18:51	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	0.56		0.071	0.0097	mg/Kg	☼	08/05/19 19:44	08/07/19 11:44	2
Benzo[a]pyrene	0.55		0.071	0.014	mg/Kg	☼	08/05/19 19:44	08/07/19 11:44	2
Benzo[b]fluoranthene	0.73		0.071	0.016	mg/Kg	☼	08/05/19 19:44	08/07/19 11:44	2
Benzo[g,h,i]perylene	0.23		0.071	0.023	mg/Kg	☼	08/05/19 19:44	08/07/19 11:44	2
Benzo[k]fluoranthene	0.23		0.071	0.021	mg/Kg	☼	08/05/19 19:44	08/07/19 11:44	2
Chrysene	0.56		0.071	0.020	mg/Kg	☼	08/05/19 19:44	08/07/19 11:44	2
Dibenz(a,h)anthracene	0.053	J	0.071	0.014	mg/Kg	☼	08/05/19 19:44	08/07/19 11:44	2
Indeno[1,2,3-cd]pyrene	0.20		0.071	0.019	mg/Kg	☼	08/05/19 19:44	08/07/19 11:44	2
Pyrene	1.1		0.071	0.014	mg/Kg	☼	08/05/19 19:44	08/07/19 11:44	2

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.41	J	1.0	0.20	mg/Kg	☼	08/05/19 07:50	08/05/19 18:24	1
Arsenic	2.8		0.52	0.18	mg/Kg	☼	08/05/19 07:50	08/05/19 18:24	1
Barium	34		0.52	0.060	mg/Kg	☼	08/05/19 07:50	08/05/19 18:24	1
Beryllium	0.23		0.21	0.049	mg/Kg	☼	08/05/19 07:50	08/07/19 11:17	1
Cadmium	0.39	B	0.10	0.019	mg/Kg	☼	08/05/19 07:50	08/05/19 18:24	1
Chromium	7.1		0.52	0.26	mg/Kg	☼	08/05/19 07:50	08/05/19 18:24	1
Cobalt	2.9		0.26	0.069	mg/Kg	☼	08/05/19 07:50	08/05/19 18:24	1
Copper	13		0.52	0.15	mg/Kg	☼	08/05/19 07:50	08/05/19 18:24	1
Iron	5100		10	5.4	mg/Kg	☼	08/05/19 07:50	08/05/19 18:24	1
Lead	45		0.26	0.12	mg/Kg	☼	08/05/19 07:50	08/05/19 18:24	1
Magnesium	100000		26	13	mg/Kg	☼	08/05/19 07:50	08/07/19 10:16	5
Calcium	150000	B	52	8.9	mg/Kg	☼	08/05/19 07:50	08/06/19 13:44	5
Manganese	300		0.52	0.076	mg/Kg	☼	08/05/19 07:50	08/05/19 18:24	1
Nickel	6.5		0.52	0.15	mg/Kg	☼	08/05/19 07:50	08/05/19 18:24	1
Selenium	0.52		0.52	0.31	mg/Kg	☼	08/05/19 07:50	08/05/19 18:24	1
Silver	0.82		0.26	0.068	mg/Kg	☼	08/05/19 07:50	08/05/19 18:24	1
Thallium	<0.26		0.52	0.26	mg/Kg	☼	08/05/19 07:50	08/05/19 18:24	1
Vanadium	7.9		0.26	0.062	mg/Kg	☼	08/05/19 07:50	08/05/19 18:24	1
Zinc	110		1.0	0.46	mg/Kg	☼	08/05/19 07:50	08/06/19 13:40	1
Potassium	730		26	9.3	mg/Kg	☼	08/05/19 07:50	08/05/19 18:24	1
Sodium	250	B	52	7.7	mg/Kg	☼	08/05/19 07:50	08/05/19 18:24	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167743-1

Client Sample ID: 2815V-2-B10 (0-3.5)

Lab Sample ID: 500-167743-7

Date Collected: 08/02/19 11:10

Matrix: Solid

Date Received: 08/02/19 16:15

Percent Solids: 90.3

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/07/19 09:01	08/07/19 18:32	1
Barium	0.38	J	0.50	0.050	mg/L		08/07/19 09:01	08/07/19 18:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/07/19 09:01	08/07/19 18:32	1
Cadmium	0.0023	J	0.0050	0.0020	mg/L		08/07/19 09:01	08/07/19 18:32	1
Calcium	350		5.0	0.50	mg/L		08/07/19 09:01	08/07/19 18:32	1
Chromium	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 18:32	1
Cobalt	0.013	J	0.025	0.010	mg/L		08/07/19 09:01	08/07/19 18:32	1
Copper	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 18:32	1
Iron	<0.20		0.40	0.20	mg/L		08/07/19 09:01	08/07/19 18:32	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/07/19 09:01	08/07/19 18:32	1
Magnesium	130		2.5	0.50	mg/L		08/07/19 09:01	08/07/19 18:32	1
Manganese	2.2		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 18:32	1
Nickel	0.015	J	0.025	0.010	mg/L		08/07/19 09:01	08/07/19 18:32	1
Potassium	2.6		2.5	0.50	mg/L		08/07/19 09:01	08/07/19 18:32	1
Selenium	<0.020		0.050	0.020	mg/L		08/07/19 09:01	08/07/19 18:32	1
Silver	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 18:32	1
Vanadium	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 18:32	1
Zinc	0.49	J	0.50	0.020	mg/L		08/07/19 09:01	08/07/19 18:32	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.087		0.025	0.010	mg/L		08/07/19 14:43	08/08/19 17:15	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/07/19 09:01	08/08/19 17:39	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/07/19 09:01	08/08/19 17:39	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/07/19 13:25	08/08/19 09:59	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.017	0.0058	mg/Kg	☼	08/07/19 11:20	08/08/19 09:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.20		0.39	0.20	mg/Kg	☼	08/13/19 16:30	08/13/19 18:57	1
pH	9.0		0.2	0.2	SU			08/06/19 11:51	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167743-1

Client Sample ID: 2815V-2-B10 (0-3.5) Dup

Lab Sample ID: 500-167743-8

Date Collected: 08/02/19 11:15

Matrix: Solid

Date Received: 08/02/19 16:15

Percent Solids: 93.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.041		0.016	0.0070	mg/Kg	☼	08/02/19 17:22	08/06/19 11:56	1
Benzene	<0.00041		0.0016	0.00041	mg/Kg	☼	08/02/19 17:22	08/06/19 11:56	1
Bromodichloromethane	<0.00033		0.0016	0.00033	mg/Kg	☼	08/02/19 17:22	08/06/19 11:56	1
Bromoform	<0.00047		0.0016	0.00047	mg/Kg	☼	08/02/19 17:22	08/06/19 11:56	1
Bromomethane	<0.0015		0.0040	0.0015	mg/Kg	☼	08/02/19 17:22	08/06/19 11:56	1
2-Butanone (MEK)	<0.0018		0.0040	0.0018	mg/Kg	☼	08/02/19 17:22	08/06/19 11:56	1
Carbon disulfide	<0.00083		0.0040	0.00083	mg/Kg	☼	08/02/19 17:22	08/06/19 11:56	1
Carbon tetrachloride	<0.00046		0.0016	0.00046	mg/Kg	☼	08/02/19 17:22	08/06/19 11:56	1
Chlorobenzene	<0.00059		0.0016	0.00059	mg/Kg	☼	08/02/19 17:22	08/06/19 11:56	1
Chloroethane	<0.0012 *		0.0040	0.0012	mg/Kg	☼	08/02/19 17:22	08/06/19 11:56	1
Chloroform	<0.00055		0.0016	0.00055	mg/Kg	☼	08/02/19 17:22	08/06/19 11:56	1
Chloromethane	<0.0016		0.0040	0.0016	mg/Kg	☼	08/02/19 17:22	08/06/19 11:56	1
cis-1,2-Dichloroethene	<0.00045		0.0016	0.00045	mg/Kg	☼	08/02/19 17:22	08/06/19 11:56	1
cis-1,3-Dichloropropene	<0.00048		0.0016	0.00048	mg/Kg	☼	08/02/19 17:22	08/06/19 11:56	1
Dibromochloromethane	<0.00052		0.0016	0.00052	mg/Kg	☼	08/02/19 17:22	08/06/19 11:56	1
1,1-Dichloroethane	<0.00055		0.0016	0.00055	mg/Kg	☼	08/02/19 17:22	08/06/19 11:56	1
1,2-Dichloroethane	<0.0012		0.0040	0.0012	mg/Kg	☼	08/02/19 17:22	08/06/19 11:56	1
1,1-Dichloroethene	<0.00055		0.0016	0.00055	mg/Kg	☼	08/02/19 17:22	08/06/19 11:56	1
1,2-Dichloropropene	<0.00041		0.0016	0.00041	mg/Kg	☼	08/02/19 17:22	08/06/19 11:56	1
1,3-Dichloropropene, Total	<0.00056		0.0016	0.00056	mg/Kg	☼	08/02/19 17:22	08/06/19 11:56	1
Ethylbenzene	<0.00077		0.0016	0.00077	mg/Kg	☼	08/02/19 17:22	08/06/19 11:56	1
2-Hexanone	<0.0012		0.0040	0.0012	mg/Kg	☼	08/02/19 17:22	08/06/19 11:56	1
Methylene Chloride	0.0024 J		0.0040	0.0016	mg/Kg	☼	08/02/19 17:22	08/06/19 11:56	1
4-Methyl-2-pentanone (MIBK)	<0.0012		0.0040	0.0012	mg/Kg	☼	08/02/19 17:22	08/06/19 11:56	1
Methyl tert-butyl ether	<0.00047		0.0016	0.00047	mg/Kg	☼	08/02/19 17:22	08/06/19 11:56	1
Styrene	<0.00048		0.0016	0.00048	mg/Kg	☼	08/02/19 17:22	08/06/19 11:56	1
1,1,2,2-Tetrachloroethane	<0.00051		0.0016	0.00051	mg/Kg	☼	08/02/19 17:22	08/06/19 11:56	1
Tetrachloroethene	<0.00054		0.0016	0.00054	mg/Kg	☼	08/02/19 17:22	08/06/19 11:56	1
Toluene	<0.00040		0.0016	0.00040	mg/Kg	☼	08/02/19 17:22	08/06/19 11:56	1
trans-1,2-Dichloroethene	<0.00071		0.0016	0.00071	mg/Kg	☼	08/02/19 17:22	08/06/19 11:56	1
trans-1,3-Dichloropropene	<0.00056		0.0016	0.00056	mg/Kg	☼	08/02/19 17:22	08/06/19 11:56	1
1,1,1-Trichloroethane	<0.00054		0.0016	0.00054	mg/Kg	☼	08/02/19 17:22	08/06/19 11:56	1
1,1,2-Trichloroethane	<0.00069		0.0016	0.00069	mg/Kg	☼	08/02/19 17:22	08/06/19 11:56	1
Trichloroethene	<0.00054		0.0016	0.00054	mg/Kg	☼	08/02/19 17:22	08/06/19 11:56	1
Vinyl acetate	<0.0014		0.0040	0.0014	mg/Kg	☼	08/02/19 17:22	08/06/19 11:56	1
Vinyl chloride	<0.00071		0.0016	0.00071	mg/Kg	☼	08/02/19 17:22	08/06/19 11:56	1
Xylenes, Total	<0.00051		0.0032	0.00051	mg/Kg	☼	08/02/19 17:22	08/06/19 11:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		75 - 131	08/02/19 17:22	08/05/19 19:08	1
4-Bromofluorobenzene (Surr)	89		75 - 131	08/02/19 17:22	08/06/19 11:56	1
Dibromofluoromethane	109		75 - 126	08/02/19 17:22	08/05/19 19:08	1
Dibromofluoromethane	102		75 - 126	08/02/19 17:22	08/06/19 11:56	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134	08/02/19 17:22	08/05/19 19:08	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	08/02/19 17:22	08/06/19 11:56	1
Toluene-d8 (Surr)	98		75 - 124	08/02/19 17:22	08/05/19 19:08	1
Toluene-d8 (Surr)	91		75 - 124	08/02/19 17:22	08/06/19 11:56	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167743-1

Client Sample ID: 2815V-2-B10 (0-3.5) Dup

Lab Sample ID: 500-167743-8

Date Collected: 08/02/19 11:15

Matrix: Solid

Date Received: 08/02/19 16:15

Percent Solids: 93.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.050		0.035	0.0063	mg/Kg	☼	08/05/19 19:44	08/06/19 19:19	1
Acenaphthylene	0.033	J	0.035	0.0046	mg/Kg	☼	08/05/19 19:44	08/06/19 19:19	1
Anthracene	0.22		0.035	0.0058	mg/Kg	☼	08/05/19 19:44	08/06/19 19:19	1
Bis(2-chloroethoxy)methane	<0.036		0.18	0.036	mg/Kg	☼	08/05/19 19:44	08/06/19 19:19	1
Bis(2-chloroethyl)ether	<0.052		0.18	0.052	mg/Kg	☼	08/05/19 19:44	08/06/19 19:19	1
4-Bromophenyl phenyl ether	<0.046		0.18	0.046	mg/Kg	☼	08/05/19 19:44	08/06/19 19:19	1
Butyl benzyl phthalate	<0.066		0.18	0.066	mg/Kg	☼	08/05/19 19:44	08/06/19 19:19	1
Carbazole	<0.087		0.18	0.087	mg/Kg	☼	08/05/19 19:44	08/06/19 19:19	1
4-Chloroaniline	<0.16		0.70	0.16	mg/Kg	☼	08/05/19 19:44	08/06/19 19:19	1
4-Chloro-3-methylphenol	<0.12		0.35	0.12	mg/Kg	☼	08/05/19 19:44	08/06/19 19:19	1
2-Chloronaphthalene	<0.039		0.18	0.039	mg/Kg	☼	08/05/19 19:44	08/06/19 19:19	1
2-Chlorophenol	<0.060		0.18	0.060	mg/Kg	☼	08/05/19 19:44	08/06/19 19:19	1
4-Chlorophenyl phenyl ether	<0.041		0.18	0.041	mg/Kg	☼	08/05/19 19:44	08/06/19 19:19	1
Dibenzofuran	<0.041		0.18	0.041	mg/Kg	☼	08/05/19 19:44	08/06/19 19:19	1
1,2-Dichlorobenzene	<0.042		0.18	0.042	mg/Kg	☼	08/05/19 19:44	08/06/19 19:19	1
1,3-Dichlorobenzene	<0.039		0.18	0.039	mg/Kg	☼	08/05/19 19:44	08/06/19 19:19	1
1,4-Dichlorobenzene	<0.045		0.18	0.045	mg/Kg	☼	08/05/19 19:44	08/06/19 19:19	1
3,3'-Dichlorobenzidine	<0.049		0.18	0.049	mg/Kg	☼	08/05/19 19:44	08/06/19 19:19	1
2,4-Dichlorophenol	<0.083		0.35	0.083	mg/Kg	☼	08/05/19 19:44	08/06/19 19:19	1
Diethyl phthalate	<0.059		0.18	0.059	mg/Kg	☼	08/05/19 19:44	08/06/19 19:19	1
2,4-Dimethylphenol	<0.13		0.35	0.13	mg/Kg	☼	08/05/19 19:44	08/06/19 19:19	1
Dimethyl phthalate	<0.046		0.18	0.046	mg/Kg	☼	08/05/19 19:44	08/06/19 19:19	1
Di-n-butyl phthalate	<0.053		0.18	0.053	mg/Kg	☼	08/05/19 19:44	08/06/19 19:19	1
4,6-Dinitro-2-methylphenol	<0.28		0.70	0.28	mg/Kg	☼	08/05/19 19:44	08/06/19 19:19	1
2,4-Dinitrophenol	<0.61		0.70	0.61	mg/Kg	☼	08/05/19 19:44	08/06/19 19:19	1
2,4-Dinitrotoluene	<0.055		0.18	0.055	mg/Kg	☼	08/05/19 19:44	08/06/19 19:19	1
2,6-Dinitrotoluene	<0.069		0.18	0.069	mg/Kg	☼	08/05/19 19:44	08/06/19 19:19	1
Di-n-octyl phthalate	<0.057		0.18	0.057	mg/Kg	☼	08/05/19 19:44	08/06/19 19:19	1
Fluoranthene	1.9		0.035	0.0065	mg/Kg	☼	08/05/19 19:44	08/06/19 19:19	1
Fluorene	0.047		0.035	0.0049	mg/Kg	☼	08/05/19 19:44	08/06/19 19:19	1
Hexachlorobenzene	<0.0081		0.070	0.0081	mg/Kg	☼	08/05/19 19:44	08/06/19 19:19	1
Hexachlorobutadiene	<0.055		0.18	0.055	mg/Kg	☼	08/05/19 19:44	08/06/19 19:19	1
Hexachlorocyclopentadiene	<0.20		0.70	0.20	mg/Kg	☼	08/05/19 19:44	08/06/19 19:19	1
Hexachloroethane	<0.053		0.18	0.053	mg/Kg	☼	08/05/19 19:44	08/06/19 19:19	1
Isophorone	<0.039		0.18	0.039	mg/Kg	☼	08/05/19 19:44	08/06/19 19:19	1
2-Methylnaphthalene	0.021	J	0.070	0.0064	mg/Kg	☼	08/05/19 19:44	08/06/19 19:19	1
2-Methylphenol	<0.056		0.18	0.056	mg/Kg	☼	08/05/19 19:44	08/06/19 19:19	1
3 & 4 Methylphenol	<0.058		0.18	0.058	mg/Kg	☼	08/05/19 19:44	08/06/19 19:19	1
Naphthalene	0.020	J	0.035	0.0054	mg/Kg	☼	08/05/19 19:44	08/06/19 19:19	1
2-Nitroaniline	<0.047		0.18	0.047	mg/Kg	☼	08/05/19 19:44	08/06/19 19:19	1
3-Nitroaniline	<0.11		0.35	0.11	mg/Kg	☼	08/05/19 19:44	08/06/19 19:19	1
4-Nitroaniline	<0.15		0.35	0.15	mg/Kg	☼	08/05/19 19:44	08/06/19 19:19	1
Nitrobenzene	<0.0087		0.035	0.0087	mg/Kg	☼	08/05/19 19:44	08/06/19 19:19	1
2-Nitrophenol	<0.082		0.35	0.082	mg/Kg	☼	08/05/19 19:44	08/06/19 19:19	1
4-Nitrophenol	<0.33		0.70	0.33	mg/Kg	☼	08/05/19 19:44	08/06/19 19:19	1
N-Nitrosodi-n-propylamine	<0.043		0.070	0.043	mg/Kg	☼	08/05/19 19:44	08/06/19 19:19	1
N-Nitrosodiphenylamine	<0.041		0.18	0.041	mg/Kg	☼	08/05/19 19:44	08/06/19 19:19	1
2,2'-oxybis[1-chloropropane]	<0.040		0.18	0.040	mg/Kg	☼	08/05/19 19:44	08/06/19 19:19	1
Pentachlorophenol	<0.56		0.70	0.56	mg/Kg	☼	08/05/19 19:44	08/06/19 19:19	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - McCook - WO 061

Job ID: 500-167743-1

Client Sample ID: 2815V-2-B10 (0-3.5) Dup

Lab Sample ID: 500-167743-8

Date Collected: 08/02/19 11:15

Matrix: Solid

Date Received: 08/02/19 16:15

Percent Solids: 93.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	0.83		0.035	0.0049	mg/Kg	☼	08/05/19 19:44	08/06/19 19:19	1
Phenol	<0.077		0.18	0.077	mg/Kg	☼	08/05/19 19:44	08/06/19 19:19	1
1,2,4-Trichlorobenzene	<0.038		0.18	0.038	mg/Kg	☼	08/05/19 19:44	08/06/19 19:19	1
2,4,5-Trichlorophenol	<0.080		0.35	0.080	mg/Kg	☼	08/05/19 19:44	08/06/19 19:19	1
2,4,6-Trichlorophenol	<0.12		0.35	0.12	mg/Kg	☼	08/05/19 19:44	08/06/19 19:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	78		43 - 145	08/05/19 19:44	08/06/19 19:19	1
2-Fluorophenol	78		31 - 166	08/05/19 19:44	08/06/19 19:19	1
Nitrobenzene-d5	63		37 - 147	08/05/19 19:44	08/06/19 19:19	1
Phenol-d5	70		30 - 153	08/05/19 19:44	08/06/19 19:19	1
Terphenyl-d14	137		42 - 157	08/05/19 19:44	08/06/19 19:19	1
2,4,6-Tribromophenol	118		31 - 143	08/05/19 19:44	08/06/19 19:19	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	0.96		0.069	0.0094	mg/Kg	☼	08/05/19 19:44	08/07/19 12:13	2
Benzo[a]pyrene	0.95		0.069	0.014	mg/Kg	☼	08/05/19 19:44	08/07/19 12:13	2
Benzo[b]fluoranthene	1.2		0.069	0.015	mg/Kg	☼	08/05/19 19:44	08/07/19 12:13	2
Benzo[g,h,i]perylene	0.36		0.069	0.022	mg/Kg	☼	08/05/19 19:44	08/07/19 12:13	2
Benzo[k]fluoranthene	0.34		0.069	0.021	mg/Kg	☼	08/05/19 19:44	08/07/19 12:13	2
Bis(2-ethylhexyl) phthalate	0.21	J	0.35	0.13	mg/Kg	☼	08/05/19 19:44	08/07/19 12:13	2
Chrysene	0.91		0.069	0.019	mg/Kg	☼	08/05/19 19:44	08/07/19 12:13	2
Dibenz(a,h)anthracene	0.088		0.069	0.013	mg/Kg	☼	08/05/19 19:44	08/07/19 12:13	2
Indeno[1,2,3-cd]pyrene	0.33		0.069	0.018	mg/Kg	☼	08/05/19 19:44	08/07/19 12:13	2
Pyrene	1.8		0.069	0.014	mg/Kg	☼	08/05/19 19:44	08/07/19 12:13	2

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.31	J	1.0	0.19	mg/Kg	☼	08/05/19 07:50	08/05/19 18:29	1
Arsenic	3.2		0.50	0.17	mg/Kg	☼	08/05/19 07:50	08/05/19 18:29	1
Barium	28		0.50	0.057	mg/Kg	☼	08/05/19 07:50	08/05/19 18:29	1
Beryllium	0.21		0.20	0.047	mg/Kg	☼	08/05/19 07:50	08/07/19 11:21	1
Cadmium	0.34	B	0.10	0.018	mg/Kg	☼	08/05/19 07:50	08/05/19 18:29	1
Chromium	7.5		0.50	0.25	mg/Kg	☼	08/05/19 07:50	08/05/19 18:29	1
Cobalt	2.8		0.25	0.066	mg/Kg	☼	08/05/19 07:50	08/05/19 18:29	1
Copper	15		0.50	0.14	mg/Kg	☼	08/05/19 07:50	08/05/19 18:29	1
Iron	7700		10	5.2	mg/Kg	☼	08/05/19 07:50	08/05/19 18:29	1
Lead	52		0.25	0.12	mg/Kg	☼	08/05/19 07:50	08/05/19 18:29	1
Magnesium	100000		25	12	mg/Kg	☼	08/05/19 07:50	08/07/19 10:20	5
Calcium	150000	B	50	8.5	mg/Kg	☼	08/05/19 07:50	08/06/19 13:52	5
Manganese	220		0.50	0.073	mg/Kg	☼	08/05/19 07:50	08/05/19 18:29	1
Nickel	8.4		0.50	0.15	mg/Kg	☼	08/05/19 07:50	08/05/19 18:29	1
Selenium	<0.29		0.50	0.29	mg/Kg	☼	08/05/19 07:50	08/05/19 18:29	1
Silver	0.70		0.25	0.065	mg/Kg	☼	08/05/19 07:50	08/05/19 18:29	1
Thallium	<0.25		0.50	0.25	mg/Kg	☼	08/05/19 07:50	08/05/19 18:29	1
Vanadium	7.4		0.25	0.059	mg/Kg	☼	08/05/19 07:50	08/05/19 18:29	1
Zinc	110		1.0	0.44	mg/Kg	☼	08/05/19 07:50	08/06/19 13:48	1
Potassium	690		25	8.9	mg/Kg	☼	08/05/19 07:50	08/05/19 18:29	1
Sodium	270	B	50	7.4	mg/Kg	☼	08/05/19 07:50	08/05/19 18:29	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167743-1

Client Sample ID: 2815V-2-B10 (0-3.5) Dup

Lab Sample ID: 500-167743-8

Date Collected: 08/02/19 11:15

Matrix: Solid

Date Received: 08/02/19 16:15

Percent Solids: 93.5

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/07/19 09:01	08/07/19 18:36	1
Barium	0.33	J	0.50	0.050	mg/L		08/07/19 09:01	08/07/19 18:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/07/19 09:01	08/07/19 18:36	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/07/19 09:01	08/07/19 18:36	1
Calcium	340		5.0	0.50	mg/L		08/07/19 09:01	08/07/19 18:36	1
Chromium	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 18:36	1
Cobalt	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 18:36	1
Copper	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 18:36	1
Iron	<0.20		0.40	0.20	mg/L		08/07/19 09:01	08/07/19 18:36	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/07/19 09:01	08/07/19 18:36	1
Magnesium	130		2.5	0.50	mg/L		08/07/19 09:01	08/07/19 18:36	1
Manganese	2.4		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 18:36	1
Nickel	0.012	J	0.025	0.010	mg/L		08/07/19 09:01	08/07/19 18:36	1
Potassium	2.5		2.5	0.50	mg/L		08/07/19 09:01	08/07/19 18:36	1
Selenium	<0.020		0.050	0.020	mg/L		08/07/19 09:01	08/07/19 18:36	1
Silver	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 18:36	1
Vanadium	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 18:36	1
Zinc	0.22	J	0.50	0.020	mg/L		08/07/19 09:01	08/07/19 18:36	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.13		0.025	0.010	mg/L		08/07/19 14:43	08/08/19 17:19	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/07/19 09:01	08/08/19 17:43	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/07/19 09:01	08/08/19 17:43	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/07/19 13:25	08/08/19 10:00	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.016	0.0055	mg/Kg	☼	08/07/19 11:20	08/08/19 09:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.26		0.51	0.26	mg/Kg	☼	08/13/19 16:30	08/13/19 18:58	1
pH	8.9		0.2	0.2	SU			08/06/19 11:56	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - McCook - WO 061

Job ID: 500-167743-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - McCook - WO 061

Job ID: 500-167743-1

Laboratory: Eurofins TestAmerica, Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
Illinois	NELAP	5	100201	04-30-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
7470A	7470A	Solid	Mercury
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 604
Phone: 708.534.5200 Fax: 708.534.



500-167743 COC

Report To (optional)
Contact: Matt Weiss @ Terracon.com
Company: Terracon
Address: 192 Exchange Blvd
Address: Glendale Heights IL
Phone: 630-445-0160
Fax:
E-Mail: Matt.Weiss @ Terracon . Com

Bill To (optional)
Contact: Matt Weiss
Company: Terracon
Address: 192 Exchange Blvd
Address:
Phone: 630-445-0160
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-167743
Chain of Custody Number:
Page 1 of 1
Temperature °C of Cooler: 43/6, 1, 8, 4

Client		Client Project #		Preservative		Parameter										Preservative Key		
IDOT		11197084F				VOC's		SVOC's		Total 23 Inorganics		PH		TUP 23 Inorganics		SAP 23 Inorganics		1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other
Project Name		11197084F																
Project Location/State		Lab Project #																
Sampler		Lab PM																
Lab ID	MS/MSD	Sample ID		Sampling		# of Containers	Matrix									Comments		
		Date	Time															
1		2815V-2-B01 (0-5)	8/2/19 910	5	S	X	X	X	X	X	X							
2		2815V-2-B01 Dup (0-5)	8/2/19 915	5	S	X	X	X	X	X	X							
3		2815V-2-B01 (5-10)	8/2/19 920	5	S	X	X	X	X	X	X							
4		2815V-2-B02 (0-4)	8/2/19 935	5	S	X	X	X	X	X	X							
5		2815V-2-B03 (0-4)	8/2/19 1030	5	S	X	X	X	X	X	X							
6		2815V-2-B09 (0-3.5)	8/2/19 1150	5	S	X	X	X	X	X	X							
7		2815V-2-B10 (0-3.5)	8/2/19 1110	5	S	X	X	X	X	X	X							
8		2815V-2-B10 Dup (0-3.5)	8/2/19 1115	5	S	X	X	X	X	X	X							

Turnaround Time Required (Business Days)
 1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other
 Requested Due Date _____
 Sample Disposal: Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>Juan Pae</u>	Company: <u>Terracon</u>	Date: <u>8/2/19</u>	Time: <u>1515</u>	Received By: <u>[Signature]</u>	Company: <u>TA</u>	Date: <u>8/2/19</u>	Time: <u>1515</u>
Relinquished By: <u>[Signature]</u>	Company: <u>TA</u>	Date: <u>8/2/19</u>	Time: <u>1605</u>	Received By: <u>[Signature]</u>	Company: <u>TA</u>	Date: <u>8/2/19</u>	Time: <u>1615</u>
Relinquished By:	Company:	Date:	Time:	Received By:	Company:	Date:	Time:

Lab Courier: TA
 Shipped: _____
 Hand Delivered: _____

Matrix Key
 WW - Wastewater SE - Sediment
 W - Water SO - Soil
 S - Soil L - Leachate
 SL - Sludge WI - Wipe
 MS - Miscellaneous DW - Drinking Water
 OL - Oil O - Other
 A - Air

Client Comments:
 * Note no Aluminum
 * Note Hold SPLP 23 Inorganics
 Per Terracon Instructions

Lab Comments:

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-167743-1

Login Number: 167743

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	Received same day of collection; chilling process has begun.
Cooler Temperature is recorded.	True	6.3,6.1,8.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-167744-1
Client Project/Site: IDOT - McCook - WO 061

For:

Terracon Consulting Eng & Scientists
192 Exchange Blvd
Glendale Heights, Illinois 60139

Attn: Mr. Matthew Weiss



Authorized for release by:
8/15/2019 4:52:22 PM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

LINKS

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results through
TotalAccess

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - McCook - WO 061

Job ID: 500-167744-1

Job ID: 500-167744-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-167744-1

Receipt

The samples were received on 8/2/2019 4:05 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 6.1° C, 6.3° C and 8.4° C.

GC/MS VOA

The laboratory control sample duplicate (LCSD) for 498104 recovered outside control limits for the following analyte: Chloroethane. This analyte was biased high in the LCSD and was not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method(s) 8270D: The following sample was diluted due to the nature of the sample matrix: 2815V-2-B06 (5-9) (500-167744-5). Elevated reporting limits (RLs) are provided.

Method(s) 8270D: The laboratory control sample (LCS) for preparation batch 500-498857 and analytical batch 500-498920 recovered outside control limits for the following analyte: 2,2'-oxybis[1-chloropropane]. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method(s) 8270D: The laboratory control sample (LCS) for preparation batch 500-498306 and analytical batch 500-498404 recovered outside control limits for the following analytes: 4-Nitrophenol, Anthracene, Diethyl phthalate, Di-n-butyl phthalate, Hexachlorobenzene, 2,4-Dinitrotoluene, 2-Chlorophenol, Dibenzofuran and Hexachlorobutadiene. These analytes were biased high in the LCS and were not detected above the reporting limit in the associated samples; therefore, the data have been reported.

Method(s) 8270D: The following sample contained one acid surrogate outside acceptance limits: (LCS 500-498306/2-A). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167744-1

Client Sample ID: 2815V-2-B04 (0-4)

Lab Sample ID: 500-167744-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.043		0.035	0.0063	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.0093	J	0.035	0.0046	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.091		0.035	0.0059	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.85		0.035	0.0047	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	1.0		0.035	0.0068	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	1.5		0.035	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.52		0.035	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.44		0.035	0.010	mg/Kg	1	☼	8270D	Total/NA
Carbazole	0.096	J	0.18	0.088	mg/Kg	1	☼	8270D	Total/NA
Chrysene	1.0		0.035	0.0096	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.13		0.035	0.0068	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	1.9		0.035	0.0065	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.039		0.035	0.0049	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.51		0.035	0.0091	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.0068	J	0.071	0.0065	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.0088	J	0.035	0.0054	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.81		0.035	0.0049	mg/Kg	1	☼	8270D	Total/NA
Pyrene	1.6		0.035	0.0070	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.30	J	1.0	0.19	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.1		0.50	0.17	mg/Kg	1	☼	6010B	Total/NA
Barium	49		0.50	0.057	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.28		0.20	0.047	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.32	B	0.10	0.018	mg/Kg	1	☼	6010B	Total/NA
Chromium	9.3		0.50	0.25	mg/Kg	1	☼	6010B	Total/NA
Cobalt	4.1		0.25	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	12		0.50	0.14	mg/Kg	1	☼	6010B	Total/NA
Iron	6300		10	5.2	mg/Kg	1	☼	6010B	Total/NA
Lead	26		0.25	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	91000		25	12	mg/Kg	5	☼	6010B	Total/NA
Calcium	140000	B	50	8.5	mg/Kg	5	☼	6010B	Total/NA
Manganese	210		0.50	0.073	mg/Kg	1	☼	6010B	Total/NA
Nickel	8.8		0.50	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.63		0.50	0.29	mg/Kg	1	☼	6010B	Total/NA
Silver	0.94		0.25	0.065	mg/Kg	1	☼	6010B	Total/NA
Vanadium	11		0.25	0.059	mg/Kg	1	☼	6010B	Total/NA
Zinc	71		1.0	0.44	mg/Kg	1	☼	6010B	Total/NA
Potassium	960		25	8.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	200	B	50	7.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.33	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	410		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	130		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.24		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.9	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.12	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.10		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.013	J	0.017	0.0055	mg/Kg	1	☼	7471B	Total/NA
pH	8.7		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167744-1

Client Sample ID: 2815V-2-B05 (0-4)

Lab Sample ID: 500-167744-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.048		0.015	0.0065	mg/Kg	1	☼	8260B	Total/NA
2-Butanone (MEK)	0.0087		0.0037	0.0017	mg/Kg	1	☼	8260B	Total/NA
Acenaphthene	0.033	J	0.036	0.0065	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.45		0.036	0.0048	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.33		0.036	0.0060	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	1.1		0.036	0.0049	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	1.3		0.036	0.0070	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	1.1		0.036	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.39		0.036	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	1.0		0.036	0.011	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.18		0.18	0.066	mg/Kg	1	☼	8270D	Total/NA
Chrysene	1.2		0.036	0.0099	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.11		0.036	0.0070	mg/Kg	1	☼	8270D	Total/NA
Di-n-butyl phthalate	0.072	J	0.18	0.055	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	1.6		0.036	0.0067	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.057		0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.41		0.036	0.0094	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.082		0.073	0.0067	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.052		0.036	0.0056	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.62		0.036	0.0050	mg/Kg	1	☼	8270D	Total/NA
Pyrene	1.8		0.036	0.0072	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.72	J	1.1	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.4		0.54	0.18	mg/Kg	1	☼	6010B	Total/NA
Barium	40		0.54	0.061	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.21		0.21	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.83	B	0.11	0.019	mg/Kg	1	☼	6010B	Total/NA
Chromium	10		0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	2.9		0.27	0.070	mg/Kg	1	☼	6010B	Total/NA
Copper	27		0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	6300		11	5.6	mg/Kg	1	☼	6010B	Total/NA
Lead	140		0.27	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	100000		27	13	mg/Kg	5	☼	6010B	Total/NA
Calcium	160000	B	54	9.1	mg/Kg	5	☼	6010B	Total/NA
Manganese	230		0.54	0.078	mg/Kg	1	☼	6010B	Total/NA
Nickel	16		0.54	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.44	J	0.54	0.32	mg/Kg	1	☼	6010B	Total/NA
Silver	0.62		0.27	0.069	mg/Kg	1	☼	6010B	Total/NA
Vanadium	7.1		0.27	0.063	mg/Kg	1	☼	6010B	Total/NA
Zinc	680		1.1	0.47	mg/Kg	1	☼	6010B	Total/NA
Potassium	690		27	9.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	680	B	54	7.9	mg/Kg	1	☼	6010B	Total/NA
Barium	0.63		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.010		0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	280		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.030		0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.35	J	0.40	0.20	mg/L	1		6010B	TCLP
Lead	0.39		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	85		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	6.0		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.11		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.4		2.5	0.50	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167744-1

Client Sample ID: 2815V-2-B05 (0-4) (Continued)

Lab Sample ID: 500-167744-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	17		0.50	0.020	mg/L	1		6010B	TCLP
Cadmium	0.0034	J	0.0050	0.0020	mg/L	1		6010B	SPLP East
Lead	0.44		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.46		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.041		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	1.5	B	0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.050		0.017	0.0058	mg/Kg	1	☼	7471B	Total/NA
pH	8.9		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2815V-2-B05 (0-4) Dup

Lab Sample ID: 500-167744-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.034		0.014	0.0063	mg/Kg	1	☼	8260B	Total/NA
2-Butanone (MEK)	0.0044		0.0036	0.0016	mg/Kg	1	☼	8260B	Total/NA
Methylene Chloride	0.0014	J	0.0036	0.0014	mg/Kg	1	☼	8260B	Total/NA
Acenaphthene	0.035	J	0.036	0.0064	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.32		0.036	0.0047	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.24		0.036	0.0060	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.88		0.036	0.0048	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.98		0.036	0.0069	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.86		0.036	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.31		0.036	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.89		0.036	0.011	mg/Kg	1	☼	8270D	Total/NA
Butyl benzyl phthalate	0.14	J	0.18	0.068	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.92		0.036	0.0098	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.096		0.036	0.0069	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	1.2		0.036	0.0066	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.065		0.036	0.0050	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.32		0.036	0.0093	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.065	J	0.072	0.0066	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.051		0.036	0.0055	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.54		0.036	0.0050	mg/Kg	1	☼	8270D	Total/NA
Pyrene	1.4		0.036	0.0071	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.42	J	1.0	0.20	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.3		0.52	0.18	mg/Kg	1	☼	6010B	Total/NA
Barium	43		0.52	0.060	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.23		0.21	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.63	B	0.10	0.019	mg/Kg	1	☼	6010B	Total/NA
Chromium	10		0.52	0.26	mg/Kg	1	☼	6010B	Total/NA
Cobalt	2.9		0.26	0.069	mg/Kg	1	☼	6010B	Total/NA
Copper	44		0.52	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	6200		10	5.4	mg/Kg	1	☼	6010B	Total/NA
Lead	160		0.26	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	99000		26	13	mg/Kg	5	☼	6010B	Total/NA
Calcium	150000	B	52	8.9	mg/Kg	5	☼	6010B	Total/NA
Manganese	300		0.52	0.076	mg/Kg	1	☼	6010B	Total/NA
Nickel	17		0.52	0.15	mg/Kg	1	☼	6010B	Total/NA
Silver	0.67		0.26	0.068	mg/Kg	1	☼	6010B	Total/NA
Vanadium	8.6		0.26	0.062	mg/Kg	1	☼	6010B	Total/NA
Zinc	280		1.0	0.46	mg/Kg	1	☼	6010B	Total/NA
Potassium	760		26	9.3	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167744-1

Client Sample ID: 2815V-2-B05 (0-4) Dup (Continued)

Lab Sample ID: 500-167744-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	690	B	52	7.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.75		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.011		0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	260		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.037		0.025	0.010	mg/L	1		6010B	TCLP
Copper	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.61		0.40	0.20	mg/L	1		6010B	TCLP
Lead	0.46		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	84		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	6.7		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.18		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.2		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	9.4		0.50	0.020	mg/L	1		6010B	TCLP
Cadmium	0.0037	J	0.0050	0.0020	mg/L	1		6010B	SPLP East
Lead	0.41		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.41		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.033		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	1.2	B	0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.051		0.017	0.0058	mg/Kg	1	☼	7471B	Total/NA
pH	8.9		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2815V-2-B06 (0-5)

Lab Sample ID: 500-167744-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.025	J	0.038	0.0068	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.029	J	0.038	0.0050	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.081		0.038	0.0063	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.29		0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.40		0.038	0.0073	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.27		0.038	0.0082	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.18		0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.55		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Butyl benzyl phthalate	0.13	J	0.19	0.072	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.50		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.033	J	0.038	0.0073	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.62		0.038	0.0070	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.022	J	0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.15		0.038	0.0098	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.088		0.076	0.0070	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.061		0.038	0.0058	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.43		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.66		0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.60	J	1.1	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	3.5		0.54	0.18	mg/Kg	1	☼	6010B	Total/NA
Barium	52		0.54	0.061	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.23		0.22	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.80	B	0.11	0.019	mg/Kg	1	☼	6010B	Total/NA
Chromium	12		0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	2.7		0.27	0.071	mg/Kg	1	☼	6010B	Total/NA
Copper	30		0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	7000		11	5.6	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167744-1

Client Sample ID: 2815V-2-B06 (0-5) (Continued)

Lab Sample ID: 500-167744-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	200		0.27	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	99000		27	13	mg/Kg	5	☼	6010B	Total/NA
Calcium	150000	B	54	9.1	mg/Kg	5	☼	6010B	Total/NA
Manganese	180		0.54	0.078	mg/Kg	1	☼	6010B	Total/NA
Nickel	9.9		0.54	0.16	mg/Kg	1	☼	6010B	Total/NA
Silver	0.83		0.27	0.069	mg/Kg	1	☼	6010B	Total/NA
Vanadium	8.5		0.27	0.064	mg/Kg	1	☼	6010B	Total/NA
Zinc	170		1.1	0.47	mg/Kg	1	☼	6010B	Total/NA
Potassium	910		27	9.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	210	B	54	8.0	mg/Kg	1	☼	6010B	Total/NA
Barium	0.45	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0068		0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	300		5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.023	J	0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.10		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	120		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.55		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.5		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	1.2		0.50	0.020	mg/L	1		6010B	TCLP
Cadmium	0.0021	J	0.0050	0.0020	mg/L	1		6010B	SPLP East
Lead	0.23		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.10		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.035		0.018	0.0060	mg/Kg	1	☼	7471B	Total/NA
pH	8.9		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2815V-2-B06 (5-9)

Lab Sample ID: 500-167744-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.060	J	0.074	0.013	mg/Kg	2	☼	8270D	Total/NA
Acenaphthylene	0.096		0.074	0.0098	mg/Kg	2	☼	8270D	Total/NA
Anthracene	0.19		0.074	0.012	mg/Kg	2	☼	8270D	Total/NA
Benzo[a]anthracene	0.70		0.074	0.010	mg/Kg	2	☼	8270D	Total/NA
Benzo[a]pyrene	0.66		0.074	0.014	mg/Kg	2	☼	8270D	Total/NA
Benzo[b]fluoranthene	1.0		0.074	0.016	mg/Kg	2	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.23		0.074	0.024	mg/Kg	2	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.31		0.074	0.022	mg/Kg	2	☼	8270D	Total/NA
Chrysene	0.94		0.074	0.020	mg/Kg	2	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.077		0.074	0.014	mg/Kg	2	☼	8270D	Total/NA
Dibenzofuran	0.40		0.37	0.087	mg/Kg	2	☼	8270D	Total/NA
Fluoranthene	0.96		0.074	0.014	mg/Kg	2	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.21		0.074	0.019	mg/Kg	2	☼	8270D	Total/NA
2-Methylnaphthalene	0.83		0.15	0.014	mg/Kg	2	☼	8270D	Total/NA
Naphthalene	0.49		0.074	0.011	mg/Kg	2	☼	8270D	Total/NA
Phenanthrene	1.8		0.074	0.010	mg/Kg	2	☼	8270D	Total/NA
Pyrene	1.3		0.074	0.015	mg/Kg	2	☼	8270D	Total/NA
Antimony	1.4		1.0	0.20	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.5		0.52	0.18	mg/Kg	1	☼	6010B	Total/NA
Barium	60		0.52	0.059	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.48		0.21	0.048	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.79	B	0.10	0.019	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167744-1

Client Sample ID: 2815V-2-B06 (5-9) (Continued)

Lab Sample ID: 500-167744-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	10		0.52	0.26	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.0		0.26	0.068	mg/Kg	1	☼	6010B	Total/NA
Copper	110		0.52	0.14	mg/Kg	1	☼	6010B	Total/NA
Iron	20000		10	5.4	mg/Kg	1	☼	6010B	Total/NA
Lead	140		0.26	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	16000		5.2	2.6	mg/Kg	1	☼	6010B	Total/NA
Calcium	30000	B	10	1.7	mg/Kg	1	☼	6010B	Total/NA
Manganese	250		0.52	0.075	mg/Kg	1	☼	6010B	Total/NA
Nickel	15		0.52	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	1.0		0.52	0.30	mg/Kg	1	☼	6010B	Total/NA
Silver	1.2		0.26	0.066	mg/Kg	1	☼	6010B	Total/NA
Vanadium	13		0.26	0.061	mg/Kg	1	☼	6010B	Total/NA
Zinc	230		1.0	0.45	mg/Kg	1	☼	6010B	Total/NA
Potassium	520		26	9.1	mg/Kg	1	☼	6010B	Total/NA
Sodium	290	B	52	7.6	mg/Kg	1	☼	6010B	Total/NA
Barium	0.48	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0043	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	340		5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.087		0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.029		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	86		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.75		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.026		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.7		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	1.1		0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.15		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.17		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.13		0.018	0.0059	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	1.1		0.44	0.22	mg/Kg	1	☼	9014	Total/NA
pH	6.9		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2815V-2-B07 (0-3.5)

Lab Sample ID: 500-167744-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.015	J	0.017	0.0074	mg/Kg	1	☼	8260B	Total/NA
Methylene Chloride	0.0044		0.0042	0.0017	mg/Kg	1	☼	8260B	Total/NA
Acenaphthene	0.0096	J	0.038	0.0068	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.16		0.038	0.0050	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.093		0.038	0.0064	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.26		0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.30		0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.41		0.038	0.0082	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.098		0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.14		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.31		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.033	J	0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.38		0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.015	J	0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.10		0.038	0.0099	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.18		0.077	0.0070	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.071		0.038	0.0059	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - McCook - WO 061

Job ID: 500-167744-1

Client Sample ID: 2815V-2-B07 (0-3.5) (Continued)

Lab Sample ID: 500-167744-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.21		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.44		0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Arsenic	7.9		0.53	0.18	mg/Kg	1	☼	6010B	Total/NA
Barium	61		0.53	0.060	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.47		0.21	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.25	B	0.11	0.019	mg/Kg	1	☼	6010B	Total/NA
Chromium	12		0.53	0.26	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.3		0.26	0.069	mg/Kg	1	☼	6010B	Total/NA
Copper	26		0.53	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	14000		11	5.5	mg/Kg	1	☼	6010B	Total/NA
Lead	24		0.26	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	11000		5.3	2.6	mg/Kg	1	☼	6010B	Total/NA
Calcium	18000	B	11	1.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	360		0.53	0.076	mg/Kg	1	☼	6010B	Total/NA
Nickel	18		0.53	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.32	J	0.53	0.31	mg/Kg	1	☼	6010B	Total/NA
Silver	2.4		0.26	0.068	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.65		0.53	0.26	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.26	0.062	mg/Kg	1	☼	6010B	Total/NA
Zinc	60		1.1	0.46	mg/Kg	1	☼	6010B	Total/NA
Potassium	1200		26	9.3	mg/Kg	1	☼	6010B	Total/NA
Sodium	3700	B	53	7.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.41	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	260		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	130		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.2		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	6.0		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.56		0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.2		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.022		0.018	0.0060	mg/Kg	1	☼	7471B	Total/NA
pH	7.8		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2815V-2-B08 (0-3.5)

Lab Sample ID: 500-167744-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.015	J	0.019	0.0083	mg/Kg	1	☼	8260B	Total/NA
Methylene Chloride	0.0055		0.0047	0.0019	mg/Kg	1	☼	8260B	Total/NA
Acenaphthene	0.0098	J	0.035	0.0062	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.0090	J	0.035	0.0046	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.022	J*	0.035	0.0058	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.058		0.035	0.0047	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.062		0.035	0.0067	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.066		0.035	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.036		0.035	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.021	J	0.035	0.010	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.057		0.035	0.0095	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.0073	J	0.035	0.0067	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.089		0.035	0.0064	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0092	J	0.035	0.0049	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.033	J	0.035	0.0090	mg/Kg	1	☼	8270D	Total/NA
Isophorone	0.060	J	0.17	0.039	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167744-1

Client Sample ID: 2815V-2-B08 (0-3.5) (Continued)

Lab Sample ID: 500-167744-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	0.025	J	0.070	0.0064	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.018	J	0.035	0.0053	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.11		0.035	0.0048	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.089		0.035	0.0069	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.36	J	0.98	0.19	mg/Kg	1	☼	6010B	Total/NA
Arsenic	2.7		0.49	0.17	mg/Kg	1	☼	6010B	Total/NA
Barium	13		0.49	0.056	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.11	J	0.20	0.046	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.19	B	0.098	0.018	mg/Kg	1	☼	6010B	Total/NA
Chromium	2.6		0.49	0.24	mg/Kg	1	☼	6010B	Total/NA
Cobalt	2.0		0.25	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	2.7		0.49	0.14	mg/Kg	1	☼	6010B	Total/NA
Iron	3500		9.8	5.1	mg/Kg	1	☼	6010B	Total/NA
Lead	7.6		0.25	0.11	mg/Kg	1	☼	6010B	Total/NA
Magnesium	110000		25	12	mg/Kg	5	☼	6010B	Total/NA
Calcium	180000	B	98	17	mg/Kg	10	☼	6010B	Total/NA
Manganese	130		0.49	0.071	mg/Kg	1	☼	6010B	Total/NA
Nickel	3.0		0.49	0.14	mg/Kg	1	☼	6010B	Total/NA
Silver	0.36		0.25	0.063	mg/Kg	1	☼	6010B	Total/NA
Vanadium	4.5		0.25	0.058	mg/Kg	1	☼	6010B	Total/NA
Zinc	13		0.98	0.43	mg/Kg	1	☼	6010B	Total/NA
Potassium	400		25	8.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	940	B	49	7.3	mg/Kg	1	☼	6010B	Total/NA
Barium	0.17	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	370		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	150		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.31		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	4.3		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.029	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.011	J	0.025	0.010	mg/L	1		6010B	SPLP East
pH	9.2		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - McCook - WO 061

Job ID: 500-167744-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-167744-1	2815V-2-B04 (0-4)	Solid	08/02/19 09:45	08/02/19 16:05	
500-167744-2	2815V-2-B05 (0-4)	Solid	08/02/19 09:15	08/02/19 16:05	
500-167744-3	2815V-2-B05 (0-4) Dup	Solid	08/02/19 09:20	08/02/19 16:05	
500-167744-4	2815V-2-B06 (0-5)	Solid	08/02/19 10:30	08/02/19 16:05	
500-167744-5	2815V-2-B06 (5-9)	Solid	08/02/19 10:40	08/02/19 16:05	
500-167744-6	2815V-2-B07 (0-3.5)	Solid	08/02/19 11:20	08/02/19 16:05	
500-167744-7	2815V-2-B08 (0-3.5)	Solid	08/02/19 11:50	08/02/19 16:05	

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - McCook - WO 061

Job ID: 500-167744-1

Client Sample ID: 2815V-2-B04 (0-4)

Lab Sample ID: 500-167744-1

Date Collected: 08/02/19 09:45

Matrix: Solid

Date Received: 08/02/19 16:05

Percent Solids: 94.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0071		0.016	0.0071	mg/Kg	☼	08/02/19 17:22	08/05/19 16:01	1
Benzene	<0.00042		0.0016	0.00042	mg/Kg	☼	08/02/19 17:22	08/05/19 16:01	1
Bromodichloromethane	<0.00033		0.0016	0.00033	mg/Kg	☼	08/02/19 17:22	08/05/19 16:01	1
Bromoform	<0.00048		0.0016	0.00048	mg/Kg	☼	08/02/19 17:22	08/05/19 16:01	1
Bromomethane	<0.0015		0.0041	0.0015	mg/Kg	☼	08/02/19 17:22	08/05/19 16:01	1
2-Butanone (MEK)	<0.0018		0.0041	0.0018	mg/Kg	☼	08/02/19 17:22	08/05/19 16:01	1
Carbon disulfide	<0.00085		0.0041	0.00085	mg/Kg	☼	08/02/19 17:22	08/05/19 16:01	1
Carbon tetrachloride	<0.00047		0.0016	0.00047	mg/Kg	☼	08/02/19 17:22	08/05/19 16:01	1
Chlorobenzene	<0.00060		0.0016	0.00060	mg/Kg	☼	08/02/19 17:22	08/05/19 16:01	1
Chloroethane	<0.0012 *		0.0041	0.0012	mg/Kg	☼	08/02/19 17:22	08/05/19 16:01	1
Chloroform	<0.00057		0.0016	0.00057	mg/Kg	☼	08/02/19 17:22	08/05/19 16:01	1
Chloromethane	<0.0016		0.0041	0.0016	mg/Kg	☼	08/02/19 17:22	08/05/19 16:01	1
cis-1,2-Dichloroethene	<0.00046		0.0016	0.00046	mg/Kg	☼	08/02/19 17:22	08/05/19 16:01	1
cis-1,3-Dichloropropene	<0.00049		0.0016	0.00049	mg/Kg	☼	08/02/19 17:22	08/05/19 16:01	1
Dibromochloromethane	<0.00053		0.0016	0.00053	mg/Kg	☼	08/02/19 17:22	08/05/19 16:01	1
1,1-Dichloroethane	<0.00056		0.0016	0.00056	mg/Kg	☼	08/02/19 17:22	08/05/19 16:01	1
1,2-Dichloroethane	<0.0013		0.0041	0.0013	mg/Kg	☼	08/02/19 17:22	08/05/19 16:01	1
1,1-Dichloroethene	<0.00056		0.0016	0.00056	mg/Kg	☼	08/02/19 17:22	08/05/19 16:01	1
1,2-Dichloropropene	<0.00042		0.0016	0.00042	mg/Kg	☼	08/02/19 17:22	08/05/19 16:01	1
1,3-Dichloropropene, Total	<0.00057		0.0016	0.00057	mg/Kg	☼	08/02/19 17:22	08/05/19 16:01	1
Ethylbenzene	<0.00078		0.0016	0.00078	mg/Kg	☼	08/02/19 17:22	08/05/19 16:01	1
2-Hexanone	<0.0013		0.0041	0.0013	mg/Kg	☼	08/02/19 17:22	08/05/19 16:01	1
Methylene Chloride	<0.0016		0.0041	0.0016	mg/Kg	☼	08/02/19 17:22	08/05/19 16:01	1
4-Methyl-2-pentanone (MIBK)	<0.0012		0.0041	0.0012	mg/Kg	☼	08/02/19 17:22	08/05/19 16:01	1
Methyl tert-butyl ether	<0.00048		0.0016	0.00048	mg/Kg	☼	08/02/19 17:22	08/05/19 16:01	1
Styrene	<0.00049		0.0016	0.00049	mg/Kg	☼	08/02/19 17:22	08/05/19 16:01	1
1,1,2,2-Tetrachloroethane	<0.00052		0.0016	0.00052	mg/Kg	☼	08/02/19 17:22	08/05/19 16:01	1
Tetrachloroethene	<0.00056		0.0016	0.00056	mg/Kg	☼	08/02/19 17:22	08/05/19 16:01	1
Toluene	<0.00041		0.0016	0.00041	mg/Kg	☼	08/02/19 17:22	08/05/19 16:01	1
trans-1,2-Dichloroethene	<0.00072		0.0016	0.00072	mg/Kg	☼	08/02/19 17:22	08/05/19 16:01	1
trans-1,3-Dichloropropene	<0.00057		0.0016	0.00057	mg/Kg	☼	08/02/19 17:22	08/05/19 16:01	1
1,1,1-Trichloroethane	<0.00055		0.0016	0.00055	mg/Kg	☼	08/02/19 17:22	08/05/19 16:01	1
1,1,2-Trichloroethane	<0.00070		0.0016	0.00070	mg/Kg	☼	08/02/19 17:22	08/05/19 16:01	1
Trichloroethene	<0.00055		0.0016	0.00055	mg/Kg	☼	08/02/19 17:22	08/05/19 16:01	1
Vinyl acetate	<0.0014		0.0041	0.0014	mg/Kg	☼	08/02/19 17:22	08/05/19 16:01	1
Vinyl chloride	<0.00072		0.0016	0.00072	mg/Kg	☼	08/02/19 17:22	08/05/19 16:01	1
Xylenes, Total	<0.00052		0.0033	0.00052	mg/Kg	☼	08/02/19 17:22	08/05/19 16:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		75 - 131	08/02/19 17:22	08/05/19 16:01	1
Dibromofluoromethane	99		75 - 126	08/02/19 17:22	08/05/19 16:01	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	08/02/19 17:22	08/05/19 16:01	1
Toluene-d8 (Surr)	93		75 - 124	08/02/19 17:22	08/05/19 16:01	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.043		0.035	0.0063	mg/Kg	☼	08/08/19 21:30	08/09/19 17:45	1
Acenaphthylene	0.0093	J	0.035	0.0046	mg/Kg	☼	08/08/19 21:30	08/09/19 17:45	1
Anthracene	0.091		0.035	0.0059	mg/Kg	☼	08/08/19 21:30	08/09/19 17:45	1
Benzo[a]anthracene	0.85		0.035	0.0047	mg/Kg	☼	08/08/19 21:30	08/09/19 17:45	1

Eurolins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167744-1

Client Sample ID: 2815V-2-B04 (0-4)

Lab Sample ID: 500-167744-1

Date Collected: 08/02/19 09:45

Matrix: Solid

Date Received: 08/02/19 16:05

Percent Solids: 94.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	1.0		0.035	0.0068	mg/Kg	☼	08/08/19 21:30	08/09/19 17:45	1
Benzo[b]fluoranthene	1.5		0.035	0.0076	mg/Kg	☼	08/08/19 21:30	08/09/19 17:45	1
Benzo[g,h,i]perylene	0.52		0.035	0.011	mg/Kg	☼	08/08/19 21:30	08/09/19 17:45	1
Benzo[k]fluoranthene	0.44		0.035	0.010	mg/Kg	☼	08/08/19 21:30	08/09/19 17:45	1
Bis(2-chloroethoxy)methane	<0.036		0.18	0.036	mg/Kg	☼	08/08/19 21:30	08/09/19 17:45	1
Bis(2-chloroethyl)ether	<0.053		0.18	0.053	mg/Kg	☼	08/08/19 21:30	08/09/19 17:45	1
Bis(2-ethylhexyl) phthalate	<0.064		0.18	0.064	mg/Kg	☼	08/08/19 21:30	08/09/19 17:45	1
4-Bromophenyl phenyl ether	<0.046		0.18	0.046	mg/Kg	☼	08/08/19 21:30	08/09/19 17:45	1
Butyl benzyl phthalate	<0.067		0.18	0.067	mg/Kg	☼	08/08/19 21:30	08/09/19 17:45	1
Carbazole	0.096	J	0.18	0.088	mg/Kg	☼	08/08/19 21:30	08/09/19 17:45	1
4-Chloroaniline	<0.16		0.71	0.16	mg/Kg	☼	08/08/19 21:30	08/09/19 17:45	1
4-Chloro-3-methylphenol	<0.12		0.35	0.12	mg/Kg	☼	08/08/19 21:30	08/09/19 17:45	1
2-Chloronaphthalene	<0.039		0.18	0.039	mg/Kg	☼	08/08/19 21:30	08/09/19 17:45	1
2-Chlorophenol	<0.060		0.18	0.060	mg/Kg	☼	08/08/19 21:30	08/09/19 17:45	1
4-Chlorophenyl phenyl ether	<0.041		0.18	0.041	mg/Kg	☼	08/08/19 21:30	08/09/19 17:45	1
Chrysene	1.0		0.035	0.0096	mg/Kg	☼	08/08/19 21:30	08/09/19 17:45	1
Dibenz(a,h)anthracene	0.13		0.035	0.0068	mg/Kg	☼	08/08/19 21:30	08/09/19 17:45	1
Dibenzofuran	<0.041		0.18	0.041	mg/Kg	☼	08/08/19 21:30	08/09/19 17:45	1
1,2-Dichlorobenzene	<0.042		0.18	0.042	mg/Kg	☼	08/08/19 21:30	08/09/19 17:45	1
1,3-Dichlorobenzene	<0.040		0.18	0.040	mg/Kg	☼	08/08/19 21:30	08/09/19 17:45	1
1,4-Dichlorobenzene	<0.045		0.18	0.045	mg/Kg	☼	08/08/19 21:30	08/09/19 17:45	1
3,3'-Dichlorobenzidine	<0.049		0.18	0.049	mg/Kg	☼	08/08/19 21:30	08/09/19 17:45	1
2,4-Dichlorophenol	<0.083		0.35	0.083	mg/Kg	☼	08/08/19 21:30	08/09/19 17:45	1
Diethyl phthalate	<0.059		0.18	0.059	mg/Kg	☼	08/08/19 21:30	08/09/19 17:45	1
2,4-Dimethylphenol	<0.13		0.35	0.13	mg/Kg	☼	08/08/19 21:30	08/09/19 17:45	1
Dimethyl phthalate	<0.046		0.18	0.046	mg/Kg	☼	08/08/19 21:30	08/09/19 17:45	1
Di-n-butyl phthalate	<0.053		0.18	0.053	mg/Kg	☼	08/08/19 21:30	08/09/19 17:45	1
4,6-Dinitro-2-methylphenol	<0.28		0.71	0.28	mg/Kg	☼	08/08/19 21:30	08/09/19 17:45	1
2,4-Dinitrophenol	<0.62		0.71	0.62	mg/Kg	☼	08/08/19 21:30	08/09/19 17:45	1
2,4-Dinitrotoluene	<0.056		0.18	0.056	mg/Kg	☼	08/08/19 21:30	08/09/19 17:45	1
2,6-Dinitrotoluene	<0.069		0.18	0.069	mg/Kg	☼	08/08/19 21:30	08/09/19 17:45	1
Di-n-octyl phthalate	<0.057		0.18	0.057	mg/Kg	☼	08/08/19 21:30	08/09/19 17:45	1
Fluoranthene	1.9		0.035	0.0065	mg/Kg	☼	08/08/19 21:30	08/09/19 17:45	1
Fluorene	0.039		0.035	0.0049	mg/Kg	☼	08/08/19 21:30	08/09/19 17:45	1
Hexachlorobenzene	<0.0081		0.071	0.0081	mg/Kg	☼	08/08/19 21:30	08/09/19 17:45	1
Hexachlorobutadiene	<0.055		0.18	0.055	mg/Kg	☼	08/08/19 21:30	08/09/19 17:45	1
Hexachlorocyclopentadiene	<0.20		0.71	0.20	mg/Kg	☼	08/08/19 21:30	08/09/19 17:45	1
Hexachloroethane	<0.053		0.18	0.053	mg/Kg	☼	08/08/19 21:30	08/09/19 17:45	1
Indeno[1,2,3-cd]pyrene	0.51		0.035	0.0091	mg/Kg	☼	08/08/19 21:30	08/09/19 17:45	1
Isophorone	<0.039		0.18	0.039	mg/Kg	☼	08/08/19 21:30	08/09/19 17:45	1
2-Methylnaphthalene	0.0068	J	0.071	0.0065	mg/Kg	☼	08/08/19 21:30	08/09/19 17:45	1
2-Methylphenol	<0.056		0.18	0.056	mg/Kg	☼	08/08/19 21:30	08/09/19 17:45	1
3 & 4 Methylphenol	<0.059		0.18	0.059	mg/Kg	☼	08/08/19 21:30	08/09/19 17:45	1
Naphthalene	0.0088	J	0.035	0.0054	mg/Kg	☼	08/08/19 21:30	08/09/19 17:45	1
2-Nitroaniline	<0.047		0.18	0.047	mg/Kg	☼	08/08/19 21:30	08/09/19 17:45	1
3-Nitroaniline	<0.11		0.35	0.11	mg/Kg	☼	08/08/19 21:30	08/09/19 17:45	1
4-Nitroaniline	<0.15		0.35	0.15	mg/Kg	☼	08/08/19 21:30	08/09/19 17:45	1
Nitrobenzene	<0.0088		0.035	0.0088	mg/Kg	☼	08/08/19 21:30	08/09/19 17:45	1
2-Nitrophenol	<0.083		0.35	0.083	mg/Kg	☼	08/08/19 21:30	08/09/19 17:45	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - McCook - WO 061

Job ID: 500-167744-1

Client Sample ID: 2815V-2-B04 (0-4)**Lab Sample ID: 500-167744-1**

Date Collected: 08/02/19 09:45

Matrix: Solid

Date Received: 08/02/19 16:05

Percent Solids: 94.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.33		0.71	0.33	mg/Kg	☼	08/08/19 21:30	08/09/19 17:45	1
N-Nitrosodi-n-propylamine	<0.043		0.071	0.043	mg/Kg	☼	08/08/19 21:30	08/09/19 17:45	1
N-Nitrosodiphenylamine	<0.041		0.18	0.041	mg/Kg	☼	08/08/19 21:30	08/09/19 17:45	1
2,2'-oxybis[1-chloropropane]	<0.041	*	0.18	0.041	mg/Kg	☼	08/08/19 21:30	08/09/19 17:45	1
Pentachlorophenol	<0.56		0.71	0.56	mg/Kg	☼	08/08/19 21:30	08/09/19 17:45	1
Phenanthrene	0.81		0.035	0.0049	mg/Kg	☼	08/08/19 21:30	08/09/19 17:45	1
Phenol	<0.078		0.18	0.078	mg/Kg	☼	08/08/19 21:30	08/09/19 17:45	1
Pyrene	1.6		0.035	0.0070	mg/Kg	☼	08/08/19 21:30	08/09/19 17:45	1
1,2,4-Trichlorobenzene	<0.038		0.18	0.038	mg/Kg	☼	08/08/19 21:30	08/09/19 17:45	1
2,4,5-Trichlorophenol	<0.080		0.35	0.080	mg/Kg	☼	08/08/19 21:30	08/09/19 17:45	1
2,4,6-Trichlorophenol	<0.12		0.35	0.12	mg/Kg	☼	08/08/19 21:30	08/09/19 17:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	80		43 - 145	08/08/19 21:30	08/09/19 17:45	1
2-Fluorophenol	117		31 - 166	08/08/19 21:30	08/09/19 17:45	1
Nitrobenzene-d5	78		37 - 147	08/08/19 21:30	08/09/19 17:45	1
Phenol-d5	96		30 - 153	08/08/19 21:30	08/09/19 17:45	1
Terphenyl-d14	92		42 - 157	08/08/19 21:30	08/09/19 17:45	1
2,4,6-Tribromophenol	67		31 - 143	08/08/19 21:30	08/09/19 17:45	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.30	J	1.0	0.19	mg/Kg	☼	08/05/19 07:50	08/05/19 18:41	1
Arsenic	4.1		0.50	0.17	mg/Kg	☼	08/05/19 07:50	08/05/19 18:41	1
Barium	49		0.50	0.057	mg/Kg	☼	08/05/19 07:50	08/05/19 18:41	1
Beryllium	0.28		0.20	0.047	mg/Kg	☼	08/05/19 07:50	08/07/19 11:45	1
Cadmium	0.32	B	0.10	0.018	mg/Kg	☼	08/05/19 07:50	08/05/19 18:41	1
Chromium	9.3		0.50	0.25	mg/Kg	☼	08/05/19 07:50	08/05/19 18:41	1
Cobalt	4.1		0.25	0.066	mg/Kg	☼	08/05/19 07:50	08/05/19 18:41	1
Copper	12		0.50	0.14	mg/Kg	☼	08/05/19 07:50	08/05/19 18:41	1
Iron	6300		10	5.2	mg/Kg	☼	08/05/19 07:50	08/05/19 18:41	1
Lead	26		0.25	0.12	mg/Kg	☼	08/05/19 07:50	08/05/19 18:41	1
Magnesium	91000		25	12	mg/Kg	☼	08/05/19 07:50	08/06/19 14:20	5
Calcium	140000	B	50	8.5	mg/Kg	☼	08/05/19 07:50	08/06/19 14:20	5
Manganese	210		0.50	0.073	mg/Kg	☼	08/05/19 07:50	08/05/19 18:41	1
Nickel	8.8		0.50	0.15	mg/Kg	☼	08/05/19 07:50	08/05/19 18:41	1
Selenium	0.63		0.50	0.29	mg/Kg	☼	08/05/19 07:50	08/05/19 18:41	1
Silver	0.94		0.25	0.065	mg/Kg	☼	08/05/19 07:50	08/05/19 18:41	1
Thallium	<0.25		0.50	0.25	mg/Kg	☼	08/05/19 07:50	08/05/19 18:41	1
Vanadium	11		0.25	0.059	mg/Kg	☼	08/05/19 07:50	08/05/19 18:41	1
Zinc	71		1.0	0.44	mg/Kg	☼	08/05/19 07:50	08/06/19 14:08	1
Potassium	960		25	8.9	mg/Kg	☼	08/05/19 07:50	08/05/19 18:41	1
Sodium	200	B	50	7.4	mg/Kg	☼	08/05/19 07:50	08/05/19 18:41	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/07/19 09:01	08/07/19 19:01	1
Barium	0.33	J	0.50	0.050	mg/L		08/07/19 09:01	08/07/19 19:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/07/19 09:01	08/07/19 19:01	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/07/19 09:01	08/07/19 19:01	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167744-1

Client Sample ID: 2815V-2-B04 (0-4)

Lab Sample ID: 500-167744-1

Date Collected: 08/02/19 09:45

Matrix: Solid

Date Received: 08/02/19 16:05

Percent Solids: 94.1

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	410		5.0	0.50	mg/L		08/07/19 09:01	08/07/19 19:01	1
Chromium	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 19:01	1
Cobalt	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 19:01	1
Copper	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 19:01	1
Iron	<0.20		0.40	0.20	mg/L		08/07/19 09:01	08/07/19 19:01	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/07/19 09:01	08/07/19 19:01	1
Magnesium	130		2.5	0.50	mg/L		08/07/19 09:01	08/07/19 19:01	1
Manganese	0.24		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 19:01	1
Nickel	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 19:01	1
Potassium	1.9 J		2.5	0.50	mg/L		08/07/19 09:01	08/07/19 19:01	1
Selenium	<0.020		0.050	0.020	mg/L		08/07/19 09:01	08/07/19 19:01	1
Silver	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 19:01	1
Vanadium	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 19:01	1
Zinc	0.12 J		0.50	0.020	mg/L		08/07/19 09:01	08/07/19 19:01	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.10		0.025	0.010	mg/L		08/07/19 14:43	08/08/19 17:39	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/07/19 09:01	08/08/19 18:02	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/07/19 09:01	08/08/19 18:02	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/07/19 13:25	08/08/19 10:08	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013 J		0.017	0.0055	mg/Kg	☼	08/07/19 11:20	08/08/19 08:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.24		0.47	0.24	mg/Kg	☼	08/13/19 16:30	08/13/19 18:58	1
pH	8.7		0.2	0.2	SU			08/06/19 12:09	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - McCook - WO 061

Job ID: 500-167744-1

Client Sample ID: 2815V-2-B05 (0-4)

Lab Sample ID: 500-167744-2

Date Collected: 08/02/19 09:15

Matrix: Solid

Date Received: 08/02/19 16:05

Percent Solids: 90.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Table with columns: Analyte, Result, Qualifier, RL, MDL, Unit, D, Prepared, Analyzed, Dil Fac. Rows include Acetone, Benzene, Bromodichloromethane, Bromoform, Bromomethane, 2-Butanone (MEK), Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroethane, Chloroform, Chloromethane, cis-1,2-Dichloroethene, cis-1,3-Dichloropropene, Dibromochloromethane, 1,1-Dichloroethane, 1,2-Dichloroethane, 1,1-Dichloroethene, 1,2-Dichloropropane, 1,3-Dichloropropane, Total, Ethylbenzene, 2-Hexanone, Methylene Chloride, 4-Methyl-2-pentanone (MIBK), Methyl tert-butyl ether, Styrene, 1,1,2,2-Tetrachloroethane, Tetrachloroethene, Toluene, trans-1,2-Dichloroethene, trans-1,3-Dichloropropene, 1,1,1-Trichloroethane, 1,1,2-Trichloroethane, Trichloroethene, Vinyl acetate, Vinyl chloride, Xylenes, Total.

Table with columns: Surrogate, %Recovery, Qualifier, Limits, Prepared, Analyzed, Dil Fac. Rows include 4-Bromofluorobenzene (Surr), Dibromofluoromethane, 1,2-Dichloroethane-d4 (Surr), Toluene-d8 (Surr).

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Table with columns: Analyte, Result, Qualifier, RL, MDL, Unit, D, Prepared, Analyzed, Dil Fac. Rows include Acenaphthene, Acenaphthylene, Anthracene, Benzo[a]anthracene.

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167744-1

Client Sample ID: 2815V-2-B05 (0-4)

Lab Sample ID: 500-167744-2

Date Collected: 08/02/19 09:15

Matrix: Solid

Date Received: 08/02/19 16:05

Percent Solids: 90.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	1.3		0.036	0.0070	mg/Kg	☼	08/08/19 21:30	08/09/19 18:13	1
Benzo[b]fluoranthene	1.1		0.036	0.0078	mg/Kg	☼	08/08/19 21:30	08/09/19 18:13	1
Benzo[g,h,i]perylene	0.39		0.036	0.012	mg/Kg	☼	08/08/19 21:30	08/09/19 18:13	1
Benzo[k]fluoranthene	1.0		0.036	0.011	mg/Kg	☼	08/08/19 21:30	08/09/19 18:13	1
Bis(2-chloroethoxy)methane	<0.037		0.18	0.037	mg/Kg	☼	08/08/19 21:30	08/09/19 18:13	1
Bis(2-chloroethyl)ether	<0.054		0.18	0.054	mg/Kg	☼	08/08/19 21:30	08/09/19 18:13	1
Bis(2-ethylhexyl) phthalate	0.18		0.18	0.066	mg/Kg	☼	08/08/19 21:30	08/09/19 18:13	1
4-Bromophenyl phenyl ether	<0.048		0.18	0.048	mg/Kg	☼	08/08/19 21:30	08/09/19 18:13	1
Butyl benzyl phthalate	<0.069		0.18	0.069	mg/Kg	☼	08/08/19 21:30	08/09/19 18:13	1
Carbazole	<0.090		0.18	0.090	mg/Kg	☼	08/08/19 21:30	08/09/19 18:13	1
4-Chloroaniline	<0.17		0.73	0.17	mg/Kg	☼	08/08/19 21:30	08/09/19 18:13	1
4-Chloro-3-methylphenol	<0.12		0.36	0.12	mg/Kg	☼	08/08/19 21:30	08/09/19 18:13	1
2-Chloronaphthalene	<0.040		0.18	0.040	mg/Kg	☼	08/08/19 21:30	08/09/19 18:13	1
2-Chlorophenol	<0.062		0.18	0.062	mg/Kg	☼	08/08/19 21:30	08/09/19 18:13	1
4-Chlorophenyl phenyl ether	<0.042		0.18	0.042	mg/Kg	☼	08/08/19 21:30	08/09/19 18:13	1
Chrysene	1.2		0.036	0.0099	mg/Kg	☼	08/08/19 21:30	08/09/19 18:13	1
Dibenz(a,h)anthracene	0.11		0.036	0.0070	mg/Kg	☼	08/08/19 21:30	08/09/19 18:13	1
Dibenzofuran	<0.042		0.18	0.042	mg/Kg	☼	08/08/19 21:30	08/09/19 18:13	1
1,2-Dichlorobenzene	<0.043		0.18	0.043	mg/Kg	☼	08/08/19 21:30	08/09/19 18:13	1
1,3-Dichlorobenzene	<0.041		0.18	0.041	mg/Kg	☼	08/08/19 21:30	08/09/19 18:13	1
1,4-Dichlorobenzene	<0.046		0.18	0.046	mg/Kg	☼	08/08/19 21:30	08/09/19 18:13	1
3,3'-Dichlorobenzidine	<0.051		0.18	0.051	mg/Kg	☼	08/08/19 21:30	08/09/19 18:13	1
2,4-Dichlorophenol	<0.086		0.36	0.086	mg/Kg	☼	08/08/19 21:30	08/09/19 18:13	1
Diethyl phthalate	<0.061		0.18	0.061	mg/Kg	☼	08/08/19 21:30	08/09/19 18:13	1
2,4-Dimethylphenol	<0.14		0.36	0.14	mg/Kg	☼	08/08/19 21:30	08/09/19 18:13	1
Dimethyl phthalate	<0.047		0.18	0.047	mg/Kg	☼	08/08/19 21:30	08/09/19 18:13	1
Di-n-butyl phthalate	0.072	J	0.18	0.055	mg/Kg	☼	08/08/19 21:30	08/09/19 18:13	1
4,6-Dinitro-2-methylphenol	<0.29		0.73	0.29	mg/Kg	☼	08/08/19 21:30	08/09/19 18:13	1
2,4-Dinitrophenol	<0.64		0.73	0.64	mg/Kg	☼	08/08/19 21:30	08/09/19 18:13	1
2,4-Dinitrotoluene	<0.058		0.18	0.058	mg/Kg	☼	08/08/19 21:30	08/09/19 18:13	1
2,6-Dinitrotoluene	<0.071		0.18	0.071	mg/Kg	☼	08/08/19 21:30	08/09/19 18:13	1
Di-n-octyl phthalate	<0.059		0.18	0.059	mg/Kg	☼	08/08/19 21:30	08/09/19 18:13	1
Fluoranthene	1.6		0.036	0.0067	mg/Kg	☼	08/08/19 21:30	08/09/19 18:13	1
Fluorene	0.057		0.036	0.0051	mg/Kg	☼	08/08/19 21:30	08/09/19 18:13	1
Hexachlorobenzene	<0.0084		0.073	0.0084	mg/Kg	☼	08/08/19 21:30	08/09/19 18:13	1
Hexachlorobutadiene	<0.057		0.18	0.057	mg/Kg	☼	08/08/19 21:30	08/09/19 18:13	1
Hexachlorocyclopentadiene	<0.21		0.73	0.21	mg/Kg	☼	08/08/19 21:30	08/09/19 18:13	1
Hexachloroethane	<0.055		0.18	0.055	mg/Kg	☼	08/08/19 21:30	08/09/19 18:13	1
Indeno[1,2,3-cd]pyrene	0.41		0.036	0.0094	mg/Kg	☼	08/08/19 21:30	08/09/19 18:13	1
Isophorone	<0.041		0.18	0.041	mg/Kg	☼	08/08/19 21:30	08/09/19 18:13	1
2-Methylnaphthalene	0.082		0.073	0.0067	mg/Kg	☼	08/08/19 21:30	08/09/19 18:13	1
2-Methylphenol	<0.058		0.18	0.058	mg/Kg	☼	08/08/19 21:30	08/09/19 18:13	1
3 & 4 Methylphenol	<0.060		0.18	0.060	mg/Kg	☼	08/08/19 21:30	08/09/19 18:13	1
Naphthalene	0.052		0.036	0.0056	mg/Kg	☼	08/08/19 21:30	08/09/19 18:13	1
2-Nitroaniline	<0.049		0.18	0.049	mg/Kg	☼	08/08/19 21:30	08/09/19 18:13	1
3-Nitroaniline	<0.11		0.36	0.11	mg/Kg	☼	08/08/19 21:30	08/09/19 18:13	1
4-Nitroaniline	<0.15		0.36	0.15	mg/Kg	☼	08/08/19 21:30	08/09/19 18:13	1
Nitrobenzene	<0.0090		0.036	0.0090	mg/Kg	☼	08/08/19 21:30	08/09/19 18:13	1
2-Nitrophenol	<0.086		0.36	0.086	mg/Kg	☼	08/08/19 21:30	08/09/19 18:13	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167744-1

Client Sample ID: 2815V-2-B05 (0-4)
Date Collected: 08/02/19 09:15
Date Received: 08/02/19 16:05

Lab Sample ID: 500-167744-2
Matrix: Solid
Percent Solids: 90.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.34		0.73	0.34	mg/Kg	☼	08/08/19 21:30	08/09/19 18:13	1
N-Nitrosodi-n-propylamine	<0.044		0.073	0.044	mg/Kg	☼	08/08/19 21:30	08/09/19 18:13	1
N-Nitrosodiphenylamine	<0.043		0.18	0.043	mg/Kg	☼	08/08/19 21:30	08/09/19 18:13	1
2,2'-oxybis[1-chloropropane]	<0.042 *		0.18	0.042	mg/Kg	☼	08/08/19 21:30	08/09/19 18:13	1
Pentachlorophenol	<0.58		0.73	0.58	mg/Kg	☼	08/08/19 21:30	08/09/19 18:13	1
Phenanthrene	0.62		0.036	0.0050	mg/Kg	☼	08/08/19 21:30	08/09/19 18:13	1
Phenol	<0.080		0.18	0.080	mg/Kg	☼	08/08/19 21:30	08/09/19 18:13	1
Pyrene	1.8		0.036	0.0072	mg/Kg	☼	08/08/19 21:30	08/09/19 18:13	1
1,2,4-Trichlorobenzene	<0.039		0.18	0.039	mg/Kg	☼	08/08/19 21:30	08/09/19 18:13	1
2,4,5-Trichlorophenol	<0.083		0.36	0.083	mg/Kg	☼	08/08/19 21:30	08/09/19 18:13	1
2,4,6-Trichlorophenol	<0.12		0.36	0.12	mg/Kg	☼	08/08/19 21:30	08/09/19 18:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	83		43 - 145	08/08/19 21:30	08/09/19 18:13	1
2-Fluorophenol	117		31 - 166	08/08/19 21:30	08/09/19 18:13	1
Nitrobenzene-d5	79		37 - 147	08/08/19 21:30	08/09/19 18:13	1
Phenol-d5	95		30 - 153	08/08/19 21:30	08/09/19 18:13	1
Terphenyl-d14	95		42 - 157	08/08/19 21:30	08/09/19 18:13	1
2,4,6-Tribromophenol	93		31 - 143	08/08/19 21:30	08/09/19 18:13	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.72	J	1.1	0.21	mg/Kg	☼	08/05/19 07:50	08/05/19 18:45	1
Arsenic	4.4		0.54	0.18	mg/Kg	☼	08/05/19 07:50	08/05/19 18:45	1
Barium	40		0.54	0.061	mg/Kg	☼	08/05/19 07:50	08/05/19 18:45	1
Beryllium	0.21		0.21	0.050	mg/Kg	☼	08/05/19 07:50	08/06/19 14:24	1
Cadmium	0.83	B	0.11	0.019	mg/Kg	☼	08/05/19 07:50	08/05/19 18:45	1
Chromium	10		0.54	0.27	mg/Kg	☼	08/05/19 07:50	08/05/19 18:45	1
Cobalt	2.9		0.27	0.070	mg/Kg	☼	08/05/19 07:50	08/05/19 18:45	1
Copper	27		0.54	0.15	mg/Kg	☼	08/05/19 07:50	08/05/19 18:45	1
Iron	6300		11	5.6	mg/Kg	☼	08/05/19 07:50	08/05/19 18:45	1
Lead	140		0.27	0.12	mg/Kg	☼	08/05/19 07:50	08/05/19 18:45	1
Magnesium	100000		27	13	mg/Kg	☼	08/05/19 07:50	08/06/19 14:28	5
Calcium	160000	B	54	9.1	mg/Kg	☼	08/05/19 07:50	08/06/19 14:28	5
Manganese	230		0.54	0.078	mg/Kg	☼	08/05/19 07:50	08/05/19 18:45	1
Nickel	16		0.54	0.16	mg/Kg	☼	08/05/19 07:50	08/05/19 18:45	1
Selenium	0.44	J	0.54	0.32	mg/Kg	☼	08/05/19 07:50	08/05/19 18:45	1
Silver	0.62		0.27	0.069	mg/Kg	☼	08/05/19 07:50	08/05/19 18:45	1
Thallium	<0.27		0.54	0.27	mg/Kg	☼	08/05/19 07:50	08/05/19 18:45	1
Vanadium	7.1		0.27	0.063	mg/Kg	☼	08/05/19 07:50	08/05/19 18:45	1
Zinc	680		1.1	0.47	mg/Kg	☼	08/05/19 07:50	08/06/19 14:24	1
Potassium	690		27	9.5	mg/Kg	☼	08/05/19 07:50	08/05/19 18:45	1
Sodium	680	B	54	7.9	mg/Kg	☼	08/05/19 07:50	08/05/19 18:45	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/07/19 09:01	08/07/19 19:05	1
Barium	0.63		0.50	0.050	mg/L		08/07/19 09:01	08/07/19 19:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/07/19 09:01	08/07/19 19:05	1
Cadmium	0.010		0.0050	0.0020	mg/L		08/07/19 09:01	08/07/19 19:05	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167744-1

Client Sample ID: 2815V-2-B05 (0-4)

Lab Sample ID: 500-167744-2

Date Collected: 08/02/19 09:15

Matrix: Solid

Date Received: 08/02/19 16:05

Percent Solids: 90.9

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	280		5.0	0.50	mg/L		08/07/19 09:01	08/07/19 19:05	1
Chromium	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 19:05	1
Cobalt	0.030		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 19:05	1
Copper	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 19:05	1
Iron	0.35	J	0.40	0.20	mg/L		08/07/19 09:01	08/07/19 19:05	1
Lead	0.39		0.0075	0.0075	mg/L		08/07/19 09:01	08/07/19 19:05	1
Magnesium	85		2.5	0.50	mg/L		08/07/19 09:01	08/07/19 19:05	1
Manganese	6.0		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 19:05	1
Nickel	0.11		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 19:05	1
Potassium	3.4		2.5	0.50	mg/L		08/07/19 09:01	08/07/19 19:05	1
Selenium	<0.020		0.050	0.020	mg/L		08/07/19 09:01	08/07/19 19:05	1
Silver	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 19:05	1
Vanadium	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 19:05	1
Zinc	17		0.50	0.020	mg/L		08/07/19 09:01	08/07/19 19:05	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0034	J	0.0050	0.0020	mg/L		08/07/19 14:43	08/08/19 17:43	1
Lead	0.44		0.0075	0.0075	mg/L		08/07/19 14:43	08/08/19 17:43	1
Manganese	0.46		0.025	0.010	mg/L		08/07/19 14:43	08/08/19 17:43	1
Nickel	0.041		0.025	0.010	mg/L		08/07/19 14:43	08/08/19 17:43	1
Zinc	1.5	B	0.10	0.020	mg/L		08/07/19 14:43	08/09/19 22:48	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/07/19 09:01	08/08/19 18:06	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/07/19 09:01	08/08/19 18:06	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/07/19 13:25	08/08/19 10:10	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.050		0.017	0.0058	mg/Kg	☼	08/07/19 11:20	08/08/19 08:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.24		0.49	0.24	mg/Kg	☼	08/13/19 16:30	08/13/19 18:59	1
pH	8.9		0.2	0.2	SU			08/06/19 12:13	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - McCook - WO 061

Job ID: 500-167744-1

Client Sample ID: 2815V-2-B05 (0-4) Dup

Lab Sample ID: 500-167744-3

Date Collected: 08/02/19 09:20

Matrix: Solid

Date Received: 08/02/19 16:05

Percent Solids: 92.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.034		0.014	0.0063	mg/Kg	☼	08/02/19 17:22	08/05/19 16:53	1
Benzene	<0.00037		0.0014	0.00037	mg/Kg	☼	08/02/19 17:22	08/05/19 16:53	1
Bromodichloromethane	<0.00029		0.0014	0.00029	mg/Kg	☼	08/02/19 17:22	08/05/19 16:53	1
Bromoform	<0.00042		0.0014	0.00042	mg/Kg	☼	08/02/19 17:22	08/05/19 16:53	1
Bromomethane	<0.0014		0.0036	0.0014	mg/Kg	☼	08/02/19 17:22	08/05/19 16:53	1
2-Butanone (MEK)	0.0044		0.0036	0.0016	mg/Kg	☼	08/02/19 17:22	08/05/19 16:53	1
Carbon disulfide	<0.00075		0.0036	0.00075	mg/Kg	☼	08/02/19 17:22	08/05/19 16:53	1
Carbon tetrachloride	<0.00042		0.0014	0.00042	mg/Kg	☼	08/02/19 17:22	08/05/19 16:53	1
Chlorobenzene	<0.00053		0.0014	0.00053	mg/Kg	☼	08/02/19 17:22	08/05/19 16:53	1
Chloroethane	<0.0011	*	0.0036	0.0011	mg/Kg	☼	08/02/19 17:22	08/05/19 16:53	1
Chloroform	<0.00050		0.0014	0.00050	mg/Kg	☼	08/02/19 17:22	08/05/19 16:53	1
Chloromethane	<0.0015		0.0036	0.0015	mg/Kg	☼	08/02/19 17:22	08/05/19 16:53	1
cis-1,2-Dichloroethene	<0.00040		0.0014	0.00040	mg/Kg	☼	08/02/19 17:22	08/05/19 16:53	1
cis-1,3-Dichloropropene	<0.00044		0.0014	0.00044	mg/Kg	☼	08/02/19 17:22	08/05/19 16:53	1
Dibromochloromethane	<0.00047		0.0014	0.00047	mg/Kg	☼	08/02/19 17:22	08/05/19 16:53	1
1,1-Dichloroethane	<0.00050		0.0014	0.00050	mg/Kg	☼	08/02/19 17:22	08/05/19 16:53	1
1,2-Dichloroethane	<0.0011		0.0036	0.0011	mg/Kg	☼	08/02/19 17:22	08/05/19 16:53	1
1,1-Dichloroethene	<0.00050		0.0014	0.00050	mg/Kg	☼	08/02/19 17:22	08/05/19 16:53	1
1,2-Dichloropropene	<0.00037		0.0014	0.00037	mg/Kg	☼	08/02/19 17:22	08/05/19 16:53	1
1,3-Dichloropropene, Total	<0.00051		0.0014	0.00051	mg/Kg	☼	08/02/19 17:22	08/05/19 16:53	1
Ethylbenzene	<0.00069		0.0014	0.00069	mg/Kg	☼	08/02/19 17:22	08/05/19 16:53	1
2-Hexanone	<0.0011		0.0036	0.0011	mg/Kg	☼	08/02/19 17:22	08/05/19 16:53	1
Methylene Chloride	0.0014	J	0.0036	0.0014	mg/Kg	☼	08/02/19 17:22	08/05/19 16:53	1
4-Methyl-2-pentanone (MIBK)	<0.0011		0.0036	0.0011	mg/Kg	☼	08/02/19 17:22	08/05/19 16:53	1
Methyl tert-butyl ether	<0.00042		0.0014	0.00042	mg/Kg	☼	08/02/19 17:22	08/05/19 16:53	1
Styrene	<0.00044		0.0014	0.00044	mg/Kg	☼	08/02/19 17:22	08/05/19 16:53	1
1,1,2,2-Tetrachloroethane	<0.00046		0.0014	0.00046	mg/Kg	☼	08/02/19 17:22	08/05/19 16:53	1
Tetrachloroethene	<0.00049		0.0014	0.00049	mg/Kg	☼	08/02/19 17:22	08/05/19 16:53	1
Toluene	<0.00037		0.0014	0.00037	mg/Kg	☼	08/02/19 17:22	08/05/19 16:53	1
trans-1,2-Dichloroethene	<0.00064		0.0014	0.00064	mg/Kg	☼	08/02/19 17:22	08/05/19 16:53	1
trans-1,3-Dichloropropene	<0.00051		0.0014	0.00051	mg/Kg	☼	08/02/19 17:22	08/05/19 16:53	1
1,1,1-Trichloroethane	<0.00049		0.0014	0.00049	mg/Kg	☼	08/02/19 17:22	08/05/19 16:53	1
1,1,2-Trichloroethane	<0.00062		0.0014	0.00062	mg/Kg	☼	08/02/19 17:22	08/05/19 16:53	1
Trichloroethene	<0.00049		0.0014	0.00049	mg/Kg	☼	08/02/19 17:22	08/05/19 16:53	1
Vinyl acetate	<0.0013		0.0036	0.0013	mg/Kg	☼	08/02/19 17:22	08/05/19 16:53	1
Vinyl chloride	<0.00064		0.0014	0.00064	mg/Kg	☼	08/02/19 17:22	08/05/19 16:53	1
Xylenes, Total	<0.00046		0.0029	0.00046	mg/Kg	☼	08/02/19 17:22	08/05/19 16:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		75 - 131	08/02/19 17:22	08/05/19 16:53	1
Dibromofluoromethane	99		75 - 126	08/02/19 17:22	08/05/19 16:53	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	08/02/19 17:22	08/05/19 16:53	1
Toluene-d8 (Surr)	95		75 - 124	08/02/19 17:22	08/05/19 16:53	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.035	J	0.036	0.0064	mg/Kg	☼	08/08/19 21:30	08/09/19 18:40	1
Acenaphthylene	0.32		0.036	0.0047	mg/Kg	☼	08/08/19 21:30	08/09/19 18:40	1
Anthracene	0.24		0.036	0.0060	mg/Kg	☼	08/08/19 21:30	08/09/19 18:40	1
Benzo[a]anthracene	0.88		0.036	0.0048	mg/Kg	☼	08/08/19 21:30	08/09/19 18:40	1

Eurolins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - McCook - WO 061

Job ID: 500-167744-1

Client Sample ID: 2815V-2-B05 (0-4) Dup

Lab Sample ID: 500-167744-3

Date Collected: 08/02/19 09:20

Matrix: Solid

Date Received: 08/02/19 16:05

Percent Solids: 92.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.98		0.036	0.0069	mg/Kg	☼	08/08/19 21:30	08/09/19 18:40	1
Benzo[b]fluoranthene	0.86		0.036	0.0077	mg/Kg	☼	08/08/19 21:30	08/09/19 18:40	1
Benzo[g,h,i]perylene	0.31		0.036	0.012	mg/Kg	☼	08/08/19 21:30	08/09/19 18:40	1
Benzo[k]fluoranthene	0.89		0.036	0.011	mg/Kg	☼	08/08/19 21:30	08/09/19 18:40	1
Bis(2-chloroethoxy)methane	<0.037		0.18	0.037	mg/Kg	☼	08/08/19 21:30	08/09/19 18:40	1
Bis(2-chloroethyl)ether	<0.054		0.18	0.054	mg/Kg	☼	08/08/19 21:30	08/09/19 18:40	1
Bis(2-ethylhexyl) phthalate	<0.065		0.18	0.065	mg/Kg	☼	08/08/19 21:30	08/09/19 18:40	1
4-Bromophenyl phenyl ether	<0.047		0.18	0.047	mg/Kg	☼	08/08/19 21:30	08/09/19 18:40	1
Butyl benzyl phthalate	0.14	J	0.18	0.068	mg/Kg	☼	08/08/19 21:30	08/09/19 18:40	1
Carbazole	<0.090		0.18	0.090	mg/Kg	☼	08/08/19 21:30	08/09/19 18:40	1
4-Chloroaniline	<0.17		0.72	0.17	mg/Kg	☼	08/08/19 21:30	08/09/19 18:40	1
4-Chloro-3-methylphenol	<0.12		0.36	0.12	mg/Kg	☼	08/08/19 21:30	08/09/19 18:40	1
2-Chloronaphthalene	<0.040		0.18	0.040	mg/Kg	☼	08/08/19 21:30	08/09/19 18:40	1
2-Chlorophenol	<0.061		0.18	0.061	mg/Kg	☼	08/08/19 21:30	08/09/19 18:40	1
4-Chlorophenyl phenyl ether	<0.042		0.18	0.042	mg/Kg	☼	08/08/19 21:30	08/09/19 18:40	1
Chrysene	0.92		0.036	0.0098	mg/Kg	☼	08/08/19 21:30	08/09/19 18:40	1
Dibenz(a,h)anthracene	0.096		0.036	0.0069	mg/Kg	☼	08/08/19 21:30	08/09/19 18:40	1
Dibenzofuran	<0.042		0.18	0.042	mg/Kg	☼	08/08/19 21:30	08/09/19 18:40	1
1,2-Dichlorobenzene	<0.043		0.18	0.043	mg/Kg	☼	08/08/19 21:30	08/09/19 18:40	1
1,3-Dichlorobenzene	<0.040		0.18	0.040	mg/Kg	☼	08/08/19 21:30	08/09/19 18:40	1
1,4-Dichlorobenzene	<0.046		0.18	0.046	mg/Kg	☼	08/08/19 21:30	08/09/19 18:40	1
3,3'-Dichlorobenzidine	<0.050		0.18	0.050	mg/Kg	☼	08/08/19 21:30	08/09/19 18:40	1
2,4-Dichlorophenol	<0.085		0.36	0.085	mg/Kg	☼	08/08/19 21:30	08/09/19 18:40	1
Diethyl phthalate	<0.061		0.18	0.061	mg/Kg	☼	08/08/19 21:30	08/09/19 18:40	1
2,4-Dimethylphenol	<0.14		0.36	0.14	mg/Kg	☼	08/08/19 21:30	08/09/19 18:40	1
Dimethyl phthalate	<0.047		0.18	0.047	mg/Kg	☼	08/08/19 21:30	08/09/19 18:40	1
Di-n-butyl phthalate	<0.055		0.18	0.055	mg/Kg	☼	08/08/19 21:30	08/09/19 18:40	1
4,6-Dinitro-2-methylphenol	<0.29		0.72	0.29	mg/Kg	☼	08/08/19 21:30	08/09/19 18:40	1
2,4-Dinitrophenol	<0.63		0.72	0.63	mg/Kg	☼	08/08/19 21:30	08/09/19 18:40	1
2,4-Dinitrotoluene	<0.057		0.18	0.057	mg/Kg	☼	08/08/19 21:30	08/09/19 18:40	1
2,6-Dinitrotoluene	<0.070		0.18	0.070	mg/Kg	☼	08/08/19 21:30	08/09/19 18:40	1
Di-n-octyl phthalate	<0.058		0.18	0.058	mg/Kg	☼	08/08/19 21:30	08/09/19 18:40	1
Fluoranthene	1.2		0.036	0.0066	mg/Kg	☼	08/08/19 21:30	08/09/19 18:40	1
Fluorene	0.065		0.036	0.0050	mg/Kg	☼	08/08/19 21:30	08/09/19 18:40	1
Hexachlorobenzene	<0.0083		0.072	0.0083	mg/Kg	☼	08/08/19 21:30	08/09/19 18:40	1
Hexachlorobutadiene	<0.056		0.18	0.056	mg/Kg	☼	08/08/19 21:30	08/09/19 18:40	1
Hexachlorocyclopentadiene	<0.21		0.72	0.21	mg/Kg	☼	08/08/19 21:30	08/09/19 18:40	1
Hexachloroethane	<0.054		0.18	0.054	mg/Kg	☼	08/08/19 21:30	08/09/19 18:40	1
Indeno[1,2,3-cd]pyrene	0.32		0.036	0.0093	mg/Kg	☼	08/08/19 21:30	08/09/19 18:40	1
Isophorone	<0.040		0.18	0.040	mg/Kg	☼	08/08/19 21:30	08/09/19 18:40	1
2-Methylnaphthalene	0.065	J	0.072	0.0066	mg/Kg	☼	08/08/19 21:30	08/09/19 18:40	1
2-Methylphenol	<0.057		0.18	0.057	mg/Kg	☼	08/08/19 21:30	08/09/19 18:40	1
3 & 4 Methylphenol	<0.060		0.18	0.060	mg/Kg	☼	08/08/19 21:30	08/09/19 18:40	1
Naphthalene	0.051		0.036	0.0055	mg/Kg	☼	08/08/19 21:30	08/09/19 18:40	1
2-Nitroaniline	<0.048		0.18	0.048	mg/Kg	☼	08/08/19 21:30	08/09/19 18:40	1
3-Nitroaniline	<0.11		0.36	0.11	mg/Kg	☼	08/08/19 21:30	08/09/19 18:40	1
4-Nitroaniline	<0.15		0.36	0.15	mg/Kg	☼	08/08/19 21:30	08/09/19 18:40	1
Nitrobenzene	<0.0089		0.036	0.0089	mg/Kg	☼	08/08/19 21:30	08/09/19 18:40	1
2-Nitrophenol	<0.085		0.36	0.085	mg/Kg	☼	08/08/19 21:30	08/09/19 18:40	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167744-1

Client Sample ID: 2815V-2-B05 (0-4) Dup

Lab Sample ID: 500-167744-3

Date Collected: 08/02/19 09:20

Matrix: Solid

Date Received: 08/02/19 16:05

Percent Solids: 92.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.34		0.72	0.34	mg/Kg	☼	08/08/19 21:30	08/09/19 18:40	1
N-Nitrosodi-n-propylamine	<0.044		0.072	0.044	mg/Kg	☼	08/08/19 21:30	08/09/19 18:40	1
N-Nitrosodiphenylamine	<0.042		0.18	0.042	mg/Kg	☼	08/08/19 21:30	08/09/19 18:40	1
2,2'-oxybis[1-chloropropane]	<0.042 *		0.18	0.042	mg/Kg	☼	08/08/19 21:30	08/09/19 18:40	1
Pentachlorophenol	<0.57		0.72	0.57	mg/Kg	☼	08/08/19 21:30	08/09/19 18:40	1
Phenanthrene	0.54		0.036	0.0050	mg/Kg	☼	08/08/19 21:30	08/09/19 18:40	1
Phenol	<0.080		0.18	0.080	mg/Kg	☼	08/08/19 21:30	08/09/19 18:40	1
Pyrene	1.4		0.036	0.0071	mg/Kg	☼	08/08/19 21:30	08/09/19 18:40	1
1,2,4-Trichlorobenzene	<0.039		0.18	0.039	mg/Kg	☼	08/08/19 21:30	08/09/19 18:40	1
2,4,5-Trichlorophenol	<0.082		0.36	0.082	mg/Kg	☼	08/08/19 21:30	08/09/19 18:40	1
2,4,6-Trichlorophenol	<0.12		0.36	0.12	mg/Kg	☼	08/08/19 21:30	08/09/19 18:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	81		43 - 145				08/08/19 21:30	08/09/19 18:40	1
2-Fluorophenol	115		31 - 166				08/08/19 21:30	08/09/19 18:40	1
Nitrobenzene-d5	78		37 - 147				08/08/19 21:30	08/09/19 18:40	1
Phenol-d5	91		30 - 153				08/08/19 21:30	08/09/19 18:40	1
Terphenyl-d14	94		42 - 157				08/08/19 21:30	08/09/19 18:40	1
2,4,6-Tribromophenol	90		31 - 143				08/08/19 21:30	08/09/19 18:40	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.42	J	1.0	0.20	mg/Kg	☼	08/05/19 07:50	08/05/19 18:49	1
Arsenic	4.3		0.52	0.18	mg/Kg	☼	08/05/19 07:50	08/05/19 18:49	1
Barium	43		0.52	0.060	mg/Kg	☼	08/05/19 07:50	08/05/19 18:49	1
Beryllium	0.23		0.21	0.049	mg/Kg	☼	08/05/19 07:50	08/06/19 14:32	1
Cadmium	0.63	B	0.10	0.019	mg/Kg	☼	08/05/19 07:50	08/05/19 18:49	1
Chromium	10		0.52	0.26	mg/Kg	☼	08/05/19 07:50	08/05/19 18:49	1
Cobalt	2.9		0.26	0.069	mg/Kg	☼	08/05/19 07:50	08/05/19 18:49	1
Copper	44		0.52	0.15	mg/Kg	☼	08/05/19 07:50	08/05/19 18:49	1
Iron	6200		10	5.4	mg/Kg	☼	08/05/19 07:50	08/05/19 18:49	1
Lead	160		0.26	0.12	mg/Kg	☼	08/05/19 07:50	08/05/19 18:49	1
Magnesium	99000		26	13	mg/Kg	☼	08/05/19 07:50	08/06/19 14:37	5
Calcium	150000	B	52	8.9	mg/Kg	☼	08/05/19 07:50	08/06/19 14:37	5
Manganese	300		0.52	0.076	mg/Kg	☼	08/05/19 07:50	08/05/19 18:49	1
Nickel	17		0.52	0.15	mg/Kg	☼	08/05/19 07:50	08/05/19 18:49	1
Selenium	<0.31		0.52	0.31	mg/Kg	☼	08/05/19 07:50	08/05/19 18:49	1
Silver	0.67		0.26	0.068	mg/Kg	☼	08/05/19 07:50	08/05/19 18:49	1
Thallium	<0.26		0.52	0.26	mg/Kg	☼	08/05/19 07:50	08/05/19 18:49	1
Vanadium	8.6		0.26	0.062	mg/Kg	☼	08/05/19 07:50	08/05/19 18:49	1
Zinc	280		1.0	0.46	mg/Kg	☼	08/05/19 07:50	08/06/19 14:32	1
Potassium	760		26	9.3	mg/Kg	☼	08/05/19 07:50	08/05/19 18:49	1
Sodium	690	B	52	7.7	mg/Kg	☼	08/05/19 07:50	08/05/19 18:49	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/07/19 09:01	08/07/19 19:09	1
Barium	0.75		0.50	0.050	mg/L		08/07/19 09:01	08/07/19 19:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/07/19 09:01	08/07/19 19:09	1
Cadmium	0.011		0.0050	0.0020	mg/L		08/07/19 09:01	08/07/19 19:09	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167744-1

Client Sample ID: 2815V-2-B05 (0-4) Dup

Lab Sample ID: 500-167744-3

Date Collected: 08/02/19 09:20

Matrix: Solid

Date Received: 08/02/19 16:05

Percent Solids: 92.6

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	260		5.0	0.50	mg/L		08/07/19 09:01	08/07/19 19:09	1
Chromium	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 19:09	1
Cobalt	0.037		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 19:09	1
Copper	0.013	J	0.025	0.010	mg/L		08/07/19 09:01	08/07/19 19:09	1
Iron	0.61		0.40	0.20	mg/L		08/07/19 09:01	08/07/19 19:09	1
Lead	0.46		0.0075	0.0075	mg/L		08/07/19 09:01	08/07/19 19:09	1
Magnesium	84		2.5	0.50	mg/L		08/07/19 09:01	08/07/19 19:09	1
Manganese	6.7		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 19:09	1
Nickel	0.18		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 19:09	1
Potassium	3.2		2.5	0.50	mg/L		08/07/19 09:01	08/07/19 19:09	1
Selenium	<0.020		0.050	0.020	mg/L		08/07/19 09:01	08/07/19 19:09	1
Silver	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 19:09	1
Vanadium	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 19:09	1
Zinc	9.4		0.50	0.020	mg/L		08/07/19 09:01	08/07/19 19:09	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0037	J	0.0050	0.0020	mg/L		08/07/19 14:43	08/08/19 17:47	1
Lead	0.41		0.0075	0.0075	mg/L		08/07/19 14:43	08/08/19 17:47	1
Manganese	0.41		0.025	0.010	mg/L		08/07/19 14:43	08/08/19 17:47	1
Nickel	0.033		0.025	0.010	mg/L		08/07/19 14:43	08/08/19 17:47	1
Zinc	1.2	B	0.10	0.020	mg/L		08/07/19 14:43	08/09/19 22:52	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/07/19 09:01	08/08/19 18:10	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/07/19 09:01	08/08/19 18:10	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/07/19 13:25	08/08/19 10:16	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.051		0.017	0.0058	mg/Kg	☼	08/07/19 11:20	08/08/19 08:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.25		0.51	0.25	mg/Kg	☼	08/13/19 16:30	08/13/19 18:59	1
pH	8.9		0.2	0.2	SU			08/06/19 12:17	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167744-1

Client Sample ID: 2815V-2-B06 (0-5)

Lab Sample ID: 500-167744-4

Date Collected: 08/02/19 10:30

Matrix: Solid

Date Received: 08/02/19 16:05

Percent Solids: 86.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0073		0.017	0.0073	mg/Kg	*	08/02/19 17:22	08/05/19 17:19	1
Benzene	<0.00043		0.0017	0.00043	mg/Kg	*	08/02/19 17:22	08/05/19 17:19	1
Bromodichloromethane	<0.00034		0.0017	0.00034	mg/Kg	*	08/02/19 17:22	08/05/19 17:19	1
Bromoform	<0.00049		0.0017	0.00049	mg/Kg	*	08/02/19 17:22	08/05/19 17:19	1
Bromomethane	<0.0016		0.0042	0.0016	mg/Kg	*	08/02/19 17:22	08/05/19 17:19	1
2-Butanone (MEK)	<0.0019		0.0042	0.0019	mg/Kg	*	08/02/19 17:22	08/05/19 17:19	1
Carbon disulfide	<0.00087		0.0042	0.00087	mg/Kg	*	08/02/19 17:22	08/05/19 17:19	1
Carbon tetrachloride	<0.00049		0.0017	0.00049	mg/Kg	*	08/02/19 17:22	08/05/19 17:19	1
Chlorobenzene	<0.00062		0.0017	0.00062	mg/Kg	*	08/02/19 17:22	08/05/19 17:19	1
Chloroethane	<0.0012 *		0.0042	0.0012	mg/Kg	*	08/02/19 17:22	08/05/19 17:19	1
Chloroform	<0.00058		0.0017	0.00058	mg/Kg	*	08/02/19 17:22	08/05/19 17:19	1
Chloromethane	<0.0017		0.0042	0.0017	mg/Kg	*	08/02/19 17:22	08/05/19 17:19	1
cis-1,2-Dichloroethene	<0.00047		0.0017	0.00047	mg/Kg	*	08/02/19 17:22	08/05/19 17:19	1
cis-1,3-Dichloropropene	<0.00051		0.0017	0.00051	mg/Kg	*	08/02/19 17:22	08/05/19 17:19	1
Dibromochloromethane	<0.00055		0.0017	0.00055	mg/Kg	*	08/02/19 17:22	08/05/19 17:19	1
1,1-Dichloroethane	<0.00057		0.0017	0.00057	mg/Kg	*	08/02/19 17:22	08/05/19 17:19	1
1,2-Dichloroethane	<0.0013		0.0042	0.0013	mg/Kg	*	08/02/19 17:22	08/05/19 17:19	1
1,1-Dichloroethene	<0.00058		0.0017	0.00058	mg/Kg	*	08/02/19 17:22	08/05/19 17:19	1
1,2-Dichloropropane	<0.00043		0.0017	0.00043	mg/Kg	*	08/02/19 17:22	08/05/19 17:19	1
1,3-Dichloropropane, Total	<0.00059		0.0017	0.00059	mg/Kg	*	08/02/19 17:22	08/05/19 17:19	1
Ethylbenzene	<0.00080		0.0017	0.00080	mg/Kg	*	08/02/19 17:22	08/05/19 17:19	1
2-Hexanone	<0.0013		0.0042	0.0013	mg/Kg	*	08/02/19 17:22	08/05/19 17:19	1
Methylene Chloride	<0.0017		0.0042	0.0017	mg/Kg	*	08/02/19 17:22	08/05/19 17:19	1
4-Methyl-2-pentanone (MIBK)	<0.0012		0.0042	0.0012	mg/Kg	*	08/02/19 17:22	08/05/19 17:19	1
Methyl tert-butyl ether	<0.00049		0.0017	0.00049	mg/Kg	*	08/02/19 17:22	08/05/19 17:19	1
Styrene	<0.00051		0.0017	0.00051	mg/Kg	*	08/02/19 17:22	08/05/19 17:19	1
1,1,2,2-Tetrachloroethane	<0.00054		0.0017	0.00054	mg/Kg	*	08/02/19 17:22	08/05/19 17:19	1
Tetrachloroethene	<0.00057		0.0017	0.00057	mg/Kg	*	08/02/19 17:22	08/05/19 17:19	1
Toluene	<0.00042		0.0017	0.00042	mg/Kg	*	08/02/19 17:22	08/05/19 17:19	1
trans-1,2-Dichloroethene	<0.00074		0.0017	0.00074	mg/Kg	*	08/02/19 17:22	08/05/19 17:19	1
trans-1,3-Dichloropropene	<0.00059		0.0017	0.00059	mg/Kg	*	08/02/19 17:22	08/05/19 17:19	1
1,1,1-Trichloroethane	<0.00056		0.0017	0.00056	mg/Kg	*	08/02/19 17:22	08/05/19 17:19	1
1,1,2-Trichloroethane	<0.00072		0.0017	0.00072	mg/Kg	*	08/02/19 17:22	08/05/19 17:19	1
Trichloroethene	<0.00057		0.0017	0.00057	mg/Kg	*	08/02/19 17:22	08/05/19 17:19	1
Vinyl acetate	<0.0015		0.0042	0.0015	mg/Kg	*	08/02/19 17:22	08/05/19 17:19	1
Vinyl chloride	<0.00074		0.0017	0.00074	mg/Kg	*	08/02/19 17:22	08/05/19 17:19	1
Xylenes, Total	<0.00054		0.0034	0.00054	mg/Kg	*	08/02/19 17:22	08/05/19 17:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		75 - 131	08/02/19 17:22	08/05/19 17:19	1
Dibromofluoromethane	100		75 - 126	08/02/19 17:22	08/05/19 17:19	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	08/02/19 17:22	08/05/19 17:19	1
Toluene-d8 (Surr)	96		75 - 124	08/02/19 17:22	08/05/19 17:19	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.025	J	0.038	0.0068	mg/Kg	*	08/08/19 21:30	08/13/19 14:30	1
Acenaphthylene	0.029	J	0.038	0.0050	mg/Kg	*	08/08/19 21:30	08/13/19 14:30	1
Anthracene	0.081		0.038	0.0063	mg/Kg	*	08/08/19 21:30	08/13/19 14:30	1
Benzo[a]anthracene	0.29		0.038	0.0051	mg/Kg	*	08/08/19 21:30	08/13/19 14:30	1

Eurofins TestAmerica, Chicago



Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167744-1

Client Sample ID: 2815V-2-B06 (0-5)

Lab Sample ID: 500-167744-4

Date Collected: 08/02/19 10:30

Matrix: Solid

Date Received: 08/02/19 16:05

Percent Solids: 86.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.40		0.038	0.0073	mg/Kg	☼	08/08/19 21:30	08/13/19 14:30	1
Benzo[b]fluoranthene	0.27		0.038	0.0082	mg/Kg	☼	08/08/19 21:30	08/13/19 14:30	1
Benzo[g,h,i]perylene	0.18		0.038	0.012	mg/Kg	☼	08/08/19 21:30	08/13/19 14:30	1
Benzo[k]fluoranthene	0.55		0.038	0.011	mg/Kg	☼	08/08/19 21:30	08/13/19 14:30	1
Bis(2-chloroethoxy)methane	<0.039		0.19	0.039	mg/Kg	☼	08/08/19 21:30	08/13/19 14:30	1
Bis(2-chloroethyl)ether	<0.057		0.19	0.057	mg/Kg	☼	08/08/19 21:30	08/13/19 14:30	1
Bis(2-ethylhexyl) phthalate	<0.069		0.19	0.069	mg/Kg	☼	08/08/19 21:30	08/13/19 14:30	1
4-Bromophenyl phenyl ether	<0.050		0.19	0.050	mg/Kg	☼	08/08/19 21:30	08/13/19 14:30	1
Butyl benzyl phthalate	0.13	J	0.19	0.072	mg/Kg	☼	08/08/19 21:30	08/13/19 14:30	1
Carbazole	<0.095		0.19	0.095	mg/Kg	☼	08/08/19 21:30	08/13/19 14:30	1
4-Chloroaniline	<0.18		0.76	0.18	mg/Kg	☼	08/08/19 21:30	08/13/19 14:30	1
4-Chloro-3-methylphenol	<0.13		0.38	0.13	mg/Kg	☼	08/08/19 21:30	08/13/19 14:30	1
2-Chloronaphthalene	<0.042		0.19	0.042	mg/Kg	☼	08/08/19 21:30	08/13/19 14:30	1
2-Chlorophenol	<0.065		0.19	0.065	mg/Kg	☼	08/08/19 21:30	08/13/19 14:30	1
4-Chlorophenyl phenyl ether	<0.044		0.19	0.044	mg/Kg	☼	08/08/19 21:30	08/13/19 14:30	1
Chrysene	0.50		0.038	0.010	mg/Kg	☼	08/08/19 21:30	08/13/19 14:30	1
Dibenz(a,h)anthracene	0.033	J	0.038	0.0073	mg/Kg	☼	08/08/19 21:30	08/13/19 14:30	1
Dibenzofuran	<0.044		0.19	0.044	mg/Kg	☼	08/08/19 21:30	08/13/19 14:30	1
1,2-Dichlorobenzene	<0.045		0.19	0.045	mg/Kg	☼	08/08/19 21:30	08/13/19 14:30	1
1,3-Dichlorobenzene	<0.043		0.19	0.043	mg/Kg	☼	08/08/19 21:30	08/13/19 14:30	1
1,4-Dichlorobenzene	<0.049		0.19	0.049	mg/Kg	☼	08/08/19 21:30	08/13/19 14:30	1
3,3'-Dichlorobenzidine	<0.053		0.19	0.053	mg/Kg	☼	08/08/19 21:30	08/13/19 14:30	1
2,4-Dichlorophenol	<0.090		0.38	0.090	mg/Kg	☼	08/08/19 21:30	08/13/19 14:30	1
Diethyl phthalate	<0.064		0.19	0.064	mg/Kg	☼	08/08/19 21:30	08/13/19 14:30	1
2,4-Dimethylphenol	<0.14		0.38	0.14	mg/Kg	☼	08/08/19 21:30	08/13/19 14:30	1
Dimethyl phthalate	<0.049		0.19	0.049	mg/Kg	☼	08/08/19 21:30	08/13/19 14:30	1
Di-n-butyl phthalate	<0.058		0.19	0.058	mg/Kg	☼	08/08/19 21:30	08/13/19 14:30	1
4,6-Dinitro-2-methylphenol	<0.30		0.76	0.30	mg/Kg	☼	08/08/19 21:30	08/13/19 14:30	1
2,4-Dinitrophenol	<0.67		0.76	0.67	mg/Kg	☼	08/08/19 21:30	08/13/19 14:30	1
2,4-Dinitrotoluene	<0.060		0.19	0.060	mg/Kg	☼	08/08/19 21:30	08/13/19 14:30	1
2,6-Dinitrotoluene	<0.074		0.19	0.074	mg/Kg	☼	08/08/19 21:30	08/13/19 14:30	1
Di-n-octyl phthalate	<0.062		0.19	0.062	mg/Kg	☼	08/08/19 21:30	08/13/19 14:30	1
Fluoranthene	0.62		0.038	0.0070	mg/Kg	☼	08/08/19 21:30	08/13/19 14:30	1
Fluorene	0.022	J	0.038	0.0053	mg/Kg	☼	08/08/19 21:30	08/13/19 14:30	1
Hexachlorobenzene	<0.0088		0.076	0.0088	mg/Kg	☼	08/08/19 21:30	08/13/19 14:30	1
Hexachlorobutadiene	<0.059		0.19	0.059	mg/Kg	☼	08/08/19 21:30	08/13/19 14:30	1
Hexachlorocyclopentadiene	<0.22		0.76	0.22	mg/Kg	☼	08/08/19 21:30	08/13/19 14:30	1
Hexachloroethane	<0.058		0.19	0.058	mg/Kg	☼	08/08/19 21:30	08/13/19 14:30	1
Indeno[1,2,3-cd]pyrene	0.15		0.038	0.0098	mg/Kg	☼	08/08/19 21:30	08/13/19 14:30	1
Isophorone	<0.043		0.19	0.043	mg/Kg	☼	08/08/19 21:30	08/13/19 14:30	1
2-Methylnaphthalene	0.088		0.076	0.0070	mg/Kg	☼	08/08/19 21:30	08/13/19 14:30	1
2-Methylphenol	<0.061		0.19	0.061	mg/Kg	☼	08/08/19 21:30	08/13/19 14:30	1
3 & 4 Methylphenol	<0.063		0.19	0.063	mg/Kg	☼	08/08/19 21:30	08/13/19 14:30	1
Naphthalene	0.061		0.038	0.0058	mg/Kg	☼	08/08/19 21:30	08/13/19 14:30	1
2-Nitroaniline	<0.051		0.19	0.051	mg/Kg	☼	08/08/19 21:30	08/13/19 14:30	1
3-Nitroaniline	<0.12		0.38	0.12	mg/Kg	☼	08/08/19 21:30	08/13/19 14:30	1
4-Nitroaniline	<0.16		0.38	0.16	mg/Kg	☼	08/08/19 21:30	08/13/19 14:30	1
Nitrobenzene	<0.0094		0.038	0.0094	mg/Kg	☼	08/08/19 21:30	08/13/19 14:30	1
2-Nitrophenol	<0.089		0.38	0.089	mg/Kg	☼	08/08/19 21:30	08/13/19 14:30	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - McCook - WO 061

Job ID: 500-167744-1

Client Sample ID: 2815V-2-B06 (0-5)

Lab Sample ID: 500-167744-4

Date Collected: 08/02/19 10:30

Matrix: Solid

Date Received: 08/02/19 16:05

Percent Solids: 86.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.36		0.76	0.36	mg/Kg	☼	08/08/19 21:30	08/13/19 14:30	1
N-Nitrosodi-n-propylamine	<0.046		0.076	0.046	mg/Kg	☼	08/08/19 21:30	08/13/19 14:30	1
N-Nitrosodiphenylamine	<0.045		0.19	0.045	mg/Kg	☼	08/08/19 21:30	08/13/19 14:30	1
2,2'-oxybis[1-chloropropane]	<0.044 *		0.19	0.044	mg/Kg	☼	08/08/19 21:30	08/13/19 14:30	1
Pentachlorophenol	<0.61		0.76	0.61	mg/Kg	☼	08/08/19 21:30	08/13/19 14:30	1
Phenanthrene	0.43		0.038	0.0053	mg/Kg	☼	08/08/19 21:30	08/13/19 14:30	1
Phenol	<0.084		0.19	0.084	mg/Kg	☼	08/08/19 21:30	08/13/19 14:30	1
Pyrene	0.66		0.038	0.0075	mg/Kg	☼	08/08/19 21:30	08/13/19 14:30	1
1,2,4-Trichlorobenzene	<0.041		0.19	0.041	mg/Kg	☼	08/08/19 21:30	08/13/19 14:30	1
2,4,5-Trichlorophenol	<0.086		0.38	0.086	mg/Kg	☼	08/08/19 21:30	08/13/19 14:30	1
2,4,6-Trichlorophenol	<0.13		0.38	0.13	mg/Kg	☼	08/08/19 21:30	08/13/19 14:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	103		43 - 145	08/08/19 21:30	08/13/19 14:30	1
2-Fluorophenol	85		31 - 166	08/08/19 21:30	08/13/19 14:30	1
Nitrobenzene-d5	80		37 - 147	08/08/19 21:30	08/13/19 14:30	1
Phenol-d5	74		30 - 153	08/08/19 21:30	08/13/19 14:30	1
Terphenyl-d14	132		42 - 157	08/08/19 21:30	08/13/19 14:30	1
2,4,6-Tribromophenol	102		31 - 143	08/08/19 21:30	08/13/19 14:30	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.60	J	1.1	0.21	mg/Kg	☼	08/05/19 07:50	08/05/19 19:05	1
Arsenic	3.5		0.54	0.18	mg/Kg	☼	08/05/19 07:50	08/05/19 19:05	1
Barium	52		0.54	0.061	mg/Kg	☼	08/05/19 07:50	08/05/19 19:05	1
Beryllium	0.23		0.22	0.050	mg/Kg	☼	08/05/19 07:50	08/06/19 14:41	1
Cadmium	0.80	B	0.11	0.019	mg/Kg	☼	08/05/19 07:50	08/05/19 19:05	1
Chromium	12		0.54	0.27	mg/Kg	☼	08/05/19 07:50	08/05/19 19:05	1
Cobalt	2.7		0.27	0.071	mg/Kg	☼	08/05/19 07:50	08/05/19 19:05	1
Copper	30		0.54	0.15	mg/Kg	☼	08/05/19 07:50	08/05/19 19:05	1
Iron	7000		11	5.6	mg/Kg	☼	08/05/19 07:50	08/05/19 19:05	1
Lead	200		0.27	0.12	mg/Kg	☼	08/05/19 07:50	08/05/19 19:05	1
Magnesium	99000		27	13	mg/Kg	☼	08/05/19 07:50	08/06/19 14:45	5
Calcium	150000	B	54	9.1	mg/Kg	☼	08/05/19 07:50	08/06/19 14:45	5
Manganese	180		0.54	0.078	mg/Kg	☼	08/05/19 07:50	08/05/19 19:05	1
Nickel	9.9		0.54	0.16	mg/Kg	☼	08/05/19 07:50	08/05/19 19:05	1
Selenium	<0.32		0.54	0.32	mg/Kg	☼	08/05/19 07:50	08/05/19 19:05	1
Silver	0.83		0.27	0.069	mg/Kg	☼	08/05/19 07:50	08/05/19 19:05	1
Thallium	<0.27		0.54	0.27	mg/Kg	☼	08/05/19 07:50	08/05/19 19:05	1
Vanadium	8.5		0.27	0.064	mg/Kg	☼	08/05/19 07:50	08/05/19 19:05	1
Zinc	170		1.1	0.47	mg/Kg	☼	08/05/19 07:50	08/06/19 14:41	1
Potassium	910		27	9.5	mg/Kg	☼	08/05/19 07:50	08/05/19 19:05	1
Sodium	210	B	54	8.0	mg/Kg	☼	08/05/19 07:50	08/05/19 19:05	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/07/19 09:01	08/07/19 19:13	1
Barium	0.45	J	0.50	0.050	mg/L		08/07/19 09:01	08/07/19 19:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/07/19 09:01	08/07/19 19:13	1
Cadmium	0.0068		0.0050	0.0020	mg/L		08/07/19 09:01	08/07/19 19:13	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167744-1

Client Sample ID: 2815V-2-B06 (0-5)

Lab Sample ID: 500-167744-4

Date Collected: 08/02/19 10:30

Matrix: Solid

Date Received: 08/02/19 16:05

Percent Solids: 86.8

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	300		5.0	0.50	mg/L		08/07/19 09:01	08/07/19 19:13	1
Chromium	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 19:13	1
Cobalt	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 19:13	1
Copper	0.023	J	0.025	0.010	mg/L		08/07/19 09:01	08/07/19 19:13	1
Iron	<0.20		0.40	0.20	mg/L		08/07/19 09:01	08/07/19 19:13	1
Lead	0.10		0.0075	0.0075	mg/L		08/07/19 09:01	08/07/19 19:13	1
Magnesium	120		2.5	0.50	mg/L		08/07/19 09:01	08/07/19 19:13	1
Manganese	0.55		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 19:13	1
Nickel	0.014	J	0.025	0.010	mg/L		08/07/19 09:01	08/07/19 19:13	1
Potassium	2.5		2.5	0.50	mg/L		08/07/19 09:01	08/07/19 19:13	1
Selenium	<0.020		0.050	0.020	mg/L		08/07/19 09:01	08/07/19 19:13	1
Silver	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 19:13	1
Vanadium	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 19:13	1
Zinc	1.2		0.50	0.020	mg/L		08/07/19 09:01	08/07/19 19:13	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0021	J	0.0050	0.0020	mg/L		08/07/19 14:43	08/08/19 17:51	1
Lead	0.23		0.0075	0.0075	mg/L		08/07/19 14:43	08/08/19 17:51	1
Manganese	0.10		0.025	0.010	mg/L		08/07/19 14:43	08/08/19 17:51	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/07/19 09:01	08/08/19 18:14	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/07/19 09:01	08/08/19 18:14	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/07/19 13:25	08/08/19 10:17	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.018	0.0060	mg/Kg	☼	08/07/19 11:20	08/08/19 08:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.21		0.41	0.21	mg/Kg	☼	08/13/19 16:30	08/13/19 18:59	1
pH	8.9		0.2	0.2	SU			08/06/19 12:21	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167744-1

Client Sample ID: 2815V-2-B06 (5-9)

Lab Sample ID: 500-167744-5

Date Collected: 08/02/19 10:40

Matrix: Solid

Date Received: 08/02/19 16:05

Percent Solids: 89.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0084		0.019	0.0084	mg/Kg	☼	08/02/19 17:22	08/05/19 17:45	1
Benzene	<0.00049		0.0019	0.00049	mg/Kg	☼	08/02/19 17:22	08/05/19 17:45	1
Bromodichloromethane	<0.00039		0.0019	0.00039	mg/Kg	☼	08/02/19 17:22	08/05/19 17:45	1
Bromoform	<0.00056		0.0019	0.00056	mg/Kg	☼	08/02/19 17:22	08/05/19 17:45	1
Bromomethane	<0.0018		0.0048	0.0018	mg/Kg	☼	08/02/19 17:22	08/05/19 17:45	1
2-Butanone (MEK)	<0.0021		0.0048	0.0021	mg/Kg	☼	08/02/19 17:22	08/05/19 17:45	1
Carbon disulfide	<0.0010		0.0048	0.0010	mg/Kg	☼	08/02/19 17:22	08/05/19 17:45	1
Carbon tetrachloride	<0.00056		0.0019	0.00056	mg/Kg	☼	08/02/19 17:22	08/05/19 17:45	1
Chlorobenzene	<0.00071		0.0019	0.00071	mg/Kg	☼	08/02/19 17:22	08/05/19 17:45	1
Chloroethane	<0.0014 *		0.0048	0.0014	mg/Kg	☼	08/02/19 17:22	08/05/19 17:45	1
Chloroform	<0.00067		0.0019	0.00067	mg/Kg	☼	08/02/19 17:22	08/05/19 17:45	1
Chloromethane	<0.0019		0.0048	0.0019	mg/Kg	☼	08/02/19 17:22	08/05/19 17:45	1
cis-1,2-Dichloroethene	<0.00054		0.0019	0.00054	mg/Kg	☼	08/02/19 17:22	08/05/19 17:45	1
cis-1,3-Dichloropropene	<0.00058		0.0019	0.00058	mg/Kg	☼	08/02/19 17:22	08/05/19 17:45	1
Dibromochloromethane	<0.00063		0.0019	0.00063	mg/Kg	☼	08/02/19 17:22	08/05/19 17:45	1
1,1-Dichloroethane	<0.00066		0.0019	0.00066	mg/Kg	☼	08/02/19 17:22	08/05/19 17:45	1
1,2-Dichloroethane	<0.0015		0.0048	0.0015	mg/Kg	☼	08/02/19 17:22	08/05/19 17:45	1
1,1-Dichloroethene	<0.00066		0.0019	0.00066	mg/Kg	☼	08/02/19 17:22	08/05/19 17:45	1
1,2-Dichloropropane	<0.00050		0.0019	0.00050	mg/Kg	☼	08/02/19 17:22	08/05/19 17:45	1
1,3-Dichloropropane, Total	<0.00068		0.0019	0.00068	mg/Kg	☼	08/02/19 17:22	08/05/19 17:45	1
Ethylbenzene	<0.00092		0.0019	0.00092	mg/Kg	☼	08/02/19 17:22	08/05/19 17:45	1
2-Hexanone	<0.0015		0.0048	0.0015	mg/Kg	☼	08/02/19 17:22	08/05/19 17:45	1
Methylene Chloride	<0.0019		0.0048	0.0019	mg/Kg	☼	08/02/19 17:22	08/05/19 17:45	1
4-Methyl-2-pentanone (MIBK)	<0.0014		0.0048	0.0014	mg/Kg	☼	08/02/19 17:22	08/05/19 17:45	1
Methyl tert-butyl ether	<0.00057		0.0019	0.00057	mg/Kg	☼	08/02/19 17:22	08/05/19 17:45	1
Styrene	<0.00058		0.0019	0.00058	mg/Kg	☼	08/02/19 17:22	08/05/19 17:45	1
1,1,2,2-Tetrachloroethane	<0.00062		0.0019	0.00062	mg/Kg	☼	08/02/19 17:22	08/05/19 17:45	1
Tetrachloroethene	<0.00066		0.0019	0.00066	mg/Kg	☼	08/02/19 17:22	08/05/19 17:45	1
Toluene	<0.00049		0.0019	0.00049	mg/Kg	☼	08/02/19 17:22	08/05/19 17:45	1
trans-1,2-Dichloroethene	<0.00085		0.0019	0.00085	mg/Kg	☼	08/02/19 17:22	08/05/19 17:45	1
trans-1,3-Dichloropropene	<0.00068		0.0019	0.00068	mg/Kg	☼	08/02/19 17:22	08/05/19 17:45	1
1,1,1-Trichloroethane	<0.00065		0.0019	0.00065	mg/Kg	☼	08/02/19 17:22	08/05/19 17:45	1
1,1,2-Trichloroethane	<0.00083		0.0019	0.00083	mg/Kg	☼	08/02/19 17:22	08/05/19 17:45	1
Trichloroethene	<0.00065		0.0019	0.00065	mg/Kg	☼	08/02/19 17:22	08/05/19 17:45	1
Vinyl acetate	<0.0017		0.0048	0.0017	mg/Kg	☼	08/02/19 17:22	08/05/19 17:45	1
Vinyl chloride	<0.00085		0.0019	0.00085	mg/Kg	☼	08/02/19 17:22	08/05/19 17:45	1
Xylenes, Total	<0.00062		0.0039	0.00062	mg/Kg	☼	08/02/19 17:22	08/05/19 17:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		75 - 131	08/02/19 17:22	08/05/19 17:45	1
Dibromofluoromethane	96		75 - 126	08/02/19 17:22	08/05/19 17:45	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	08/02/19 17:22	08/05/19 17:45	1
Toluene-d8 (Surr)	99		75 - 124	08/02/19 17:22	08/05/19 17:45	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.060	J	0.074	0.013	mg/Kg	☼	08/08/19 21:30	08/13/19 14:54	2
Acenaphthylene	0.096		0.074	0.0098	mg/Kg	☼	08/08/19 21:30	08/13/19 14:54	2
Anthracene	0.19		0.074	0.012	mg/Kg	☼	08/08/19 21:30	08/13/19 14:54	2
Benzo[a]anthracene	0.70		0.074	0.010	mg/Kg	☼	08/08/19 21:30	08/13/19 14:54	2

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - McCook - WO 061

Job ID: 500-167744-1

Client Sample ID: 2815V-2-B06 (5-9)

Lab Sample ID: 500-167744-5

Date Collected: 08/02/19 10:40

Matrix: Solid

Date Received: 08/02/19 16:05

Percent Solids: 89.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.66		0.074	0.014	mg/Kg	☼	08/08/19 21:30	08/13/19 14:54	2
Benzo[b]fluoranthene	1.0		0.074	0.016	mg/Kg	☼	08/08/19 21:30	08/13/19 14:54	2
Benzo[g,h,i]perylene	0.23		0.074	0.024	mg/Kg	☼	08/08/19 21:30	08/13/19 14:54	2
Benzo[k]fluoranthene	0.31		0.074	0.022	mg/Kg	☼	08/08/19 21:30	08/13/19 14:54	2
Bis(2-chloroethoxy)methane	<0.076		0.37	0.076	mg/Kg	☼	08/08/19 21:30	08/13/19 14:54	2
Bis(2-chloroethyl)ether	<0.11		0.37	0.11	mg/Kg	☼	08/08/19 21:30	08/13/19 14:54	2
Bis(2-ethylhexyl) phthalate	<0.14		0.37	0.14	mg/Kg	☼	08/08/19 21:30	08/13/19 14:54	2
4-Bromophenyl phenyl ether	<0.098		0.37	0.098	mg/Kg	☼	08/08/19 21:30	08/13/19 14:54	2
Butyl benzyl phthalate	<0.14		0.37	0.14	mg/Kg	☼	08/08/19 21:30	08/13/19 14:54	2
Carbazole	<0.19		0.37	0.19	mg/Kg	☼	08/08/19 21:30	08/13/19 14:54	2
4-Chloroaniline	<0.35		1.5	0.35	mg/Kg	☼	08/08/19 21:30	08/13/19 14:54	2
4-Chloro-3-methylphenol	<0.25		0.74	0.25	mg/Kg	☼	08/08/19 21:30	08/13/19 14:54	2
2-Chloronaphthalene	<0.082		0.37	0.082	mg/Kg	☼	08/08/19 21:30	08/13/19 14:54	2
2-Chlorophenol	<0.13		0.37	0.13	mg/Kg	☼	08/08/19 21:30	08/13/19 14:54	2
4-Chlorophenyl phenyl ether	<0.087		0.37	0.087	mg/Kg	☼	08/08/19 21:30	08/13/19 14:54	2
Chrysene	0.94		0.074	0.020	mg/Kg	☼	08/08/19 21:30	08/13/19 14:54	2
Dibenz(a,h)anthracene	0.077		0.074	0.014	mg/Kg	☼	08/08/19 21:30	08/13/19 14:54	2
Dibenzofuran	0.40		0.37	0.087	mg/Kg	☼	08/08/19 21:30	08/13/19 14:54	2
1,2-Dichlorobenzene	<0.089		0.37	0.089	mg/Kg	☼	08/08/19 21:30	08/13/19 14:54	2
1,3-Dichlorobenzene	<0.083		0.37	0.083	mg/Kg	☼	08/08/19 21:30	08/13/19 14:54	2
1,4-Dichlorobenzene	<0.095		0.37	0.095	mg/Kg	☼	08/08/19 21:30	08/13/19 14:54	2
3,3'-Dichlorobenzidine	<0.10		0.37	0.10	mg/Kg	☼	08/08/19 21:30	08/13/19 14:54	2
2,4-Dichlorophenol	<0.18		0.74	0.18	mg/Kg	☼	08/08/19 21:30	08/13/19 14:54	2
Diethyl phthalate	<0.13		0.37	0.13	mg/Kg	☼	08/08/19 21:30	08/13/19 14:54	2
2,4-Dimethylphenol	<0.28		0.74	0.28	mg/Kg	☼	08/08/19 21:30	08/13/19 14:54	2
Dimethyl phthalate	<0.097		0.37	0.097	mg/Kg	☼	08/08/19 21:30	08/13/19 14:54	2
Di-n-butyl phthalate	<0.11		0.37	0.11	mg/Kg	☼	08/08/19 21:30	08/13/19 14:54	2
4,6-Dinitro-2-methylphenol	<0.60		1.5	0.60	mg/Kg	☼	08/08/19 21:30	08/13/19 14:54	2
2,4-Dinitrophenol	<1.3		1.5	1.3	mg/Kg	☼	08/08/19 21:30	08/13/19 14:54	2
2,4-Dinitrotoluene	<0.12		0.37	0.12	mg/Kg	☼	08/08/19 21:30	08/13/19 14:54	2
2,6-Dinitrotoluene	<0.15		0.37	0.15	mg/Kg	☼	08/08/19 21:30	08/13/19 14:54	2
Di-n-octyl phthalate	<0.12		0.37	0.12	mg/Kg	☼	08/08/19 21:30	08/13/19 14:54	2
Fluoranthene	0.96		0.074	0.014	mg/Kg	☼	08/08/19 21:30	08/13/19 14:54	2
Fluorene	<0.010		0.074	0.010	mg/Kg	☼	08/08/19 21:30	08/13/19 14:54	2
Hexachlorobenzene	<0.017		0.15	0.017	mg/Kg	☼	08/08/19 21:30	08/13/19 14:54	2
Hexachlorobutadiene	<0.12		0.37	0.12	mg/Kg	☼	08/08/19 21:30	08/13/19 14:54	2
Hexachlorocyclopentadiene	<0.43		1.5	0.43	mg/Kg	☼	08/08/19 21:30	08/13/19 14:54	2
Hexachloroethane	<0.11		0.37	0.11	mg/Kg	☼	08/08/19 21:30	08/13/19 14:54	2
Indeno[1,2,3-cd]pyrene	0.21		0.074	0.019	mg/Kg	☼	08/08/19 21:30	08/13/19 14:54	2
Isophorone	<0.083		0.37	0.083	mg/Kg	☼	08/08/19 21:30	08/13/19 14:54	2
2-Methylnaphthalene	0.83		0.15	0.014	mg/Kg	☼	08/08/19 21:30	08/13/19 14:54	2
2-Methylphenol	<0.12		0.37	0.12	mg/Kg	☼	08/08/19 21:30	08/13/19 14:54	2
3 & 4 Methylphenol	<0.12		0.37	0.12	mg/Kg	☼	08/08/19 21:30	08/13/19 14:54	2
Naphthalene	0.49		0.074	0.011	mg/Kg	☼	08/08/19 21:30	08/13/19 14:54	2
2-Nitroaniline	<0.10		0.37	0.10	mg/Kg	☼	08/08/19 21:30	08/13/19 14:54	2
3-Nitroaniline	<0.23		0.74	0.23	mg/Kg	☼	08/08/19 21:30	08/13/19 14:54	2
4-Nitroaniline	<0.31		0.74	0.31	mg/Kg	☼	08/08/19 21:30	08/13/19 14:54	2
Nitrobenzene	<0.018		0.074	0.018	mg/Kg	☼	08/08/19 21:30	08/13/19 14:54	2
2-Nitrophenol	<0.18		0.74	0.18	mg/Kg	☼	08/08/19 21:30	08/13/19 14:54	2

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - McCook - WO 061

Job ID: 500-167744-1

Client Sample ID: 2815V-2-B06 (5-9)

Lab Sample ID: 500-167744-5

Date Collected: 08/02/19 10:40

Matrix: Solid

Date Received: 08/02/19 16:05

Percent Solids: 89.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.70		1.5	0.70	mg/Kg	☼	08/08/19 21:30	08/13/19 14:54	2
N-Nitrosodi-n-propylamine	<0.091		0.15	0.091	mg/Kg	☼	08/08/19 21:30	08/13/19 14:54	2
N-Nitrosodiphenylamine	<0.087		0.37	0.087	mg/Kg	☼	08/08/19 21:30	08/13/19 14:54	2
2,2'-oxybis[1-chloropropane]	<0.086	*	0.37	0.086	mg/Kg	☼	08/08/19 21:30	08/13/19 14:54	2
Pentachlorophenol	<1.2		1.5	1.2	mg/Kg	☼	08/08/19 21:30	08/13/19 14:54	2
Phenanthrene	1.8		0.074	0.010	mg/Kg	☼	08/08/19 21:30	08/13/19 14:54	2
Phenol	<0.16		0.37	0.16	mg/Kg	☼	08/08/19 21:30	08/13/19 14:54	2
Pyrene	1.3		0.074	0.015	mg/Kg	☼	08/08/19 21:30	08/13/19 14:54	2
1,2,4-Trichlorobenzene	<0.080		0.37	0.080	mg/Kg	☼	08/08/19 21:30	08/13/19 14:54	2
2,4,5-Trichlorophenol	<0.17		0.74	0.17	mg/Kg	☼	08/08/19 21:30	08/13/19 14:54	2
2,4,6-Trichlorophenol	<0.25		0.74	0.25	mg/Kg	☼	08/08/19 21:30	08/13/19 14:54	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	85		43 - 145	08/08/19 21:30	08/13/19 14:54	2
2-Fluorophenol	91		31 - 166	08/08/19 21:30	08/13/19 14:54	2
Nitrobenzene-d5	72		37 - 147	08/08/19 21:30	08/13/19 14:54	2
Phenol-d5	77		30 - 153	08/08/19 21:30	08/13/19 14:54	2
Terphenyl-d14	132		42 - 157	08/08/19 21:30	08/13/19 14:54	2
2,4,6-Tribromophenol	93		31 - 143	08/08/19 21:30	08/13/19 14:54	2

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.4		1.0	0.20	mg/Kg	☼	08/05/19 07:50	08/05/19 19:09	1
Arsenic	7.5		0.52	0.18	mg/Kg	☼	08/05/19 07:50	08/05/19 19:09	1
Barium	60		0.52	0.059	mg/Kg	☼	08/05/19 07:50	08/05/19 19:09	1
Beryllium	0.48		0.21	0.048	mg/Kg	☼	08/05/19 07:50	08/06/19 14:49	1
Cadmium	0.79	B	0.10	0.019	mg/Kg	☼	08/05/19 07:50	08/05/19 19:09	1
Chromium	10		0.52	0.26	mg/Kg	☼	08/05/19 07:50	08/05/19 19:09	1
Cobalt	5.0		0.26	0.068	mg/Kg	☼	08/05/19 07:50	08/05/19 19:09	1
Copper	110		0.52	0.14	mg/Kg	☼	08/05/19 07:50	08/06/19 14:49	1
Iron	20000		10	5.4	mg/Kg	☼	08/05/19 07:50	08/05/19 19:09	1
Lead	140		0.26	0.12	mg/Kg	☼	08/05/19 07:50	08/06/19 14:49	1
Magnesium	16000		5.2	2.6	mg/Kg	☼	08/05/19 07:50	08/05/19 19:09	1
Calcium	30000	B	10	1.7	mg/Kg	☼	08/05/19 07:50	08/06/19 14:49	1
Manganese	250		0.52	0.075	mg/Kg	☼	08/05/19 07:50	08/05/19 19:09	1
Nickel	15		0.52	0.15	mg/Kg	☼	08/05/19 07:50	08/05/19 19:09	1
Selenium	1.0		0.52	0.30	mg/Kg	☼	08/05/19 07:50	08/05/19 19:09	1
Silver	1.2		0.26	0.066	mg/Kg	☼	08/05/19 07:50	08/05/19 19:09	1
Thallium	<0.26		0.52	0.26	mg/Kg	☼	08/05/19 07:50	08/05/19 19:09	1
Vanadium	13		0.26	0.061	mg/Kg	☼	08/05/19 07:50	08/05/19 19:09	1
Zinc	230		1.0	0.45	mg/Kg	☼	08/05/19 07:50	08/06/19 14:49	1
Potassium	520		26	9.1	mg/Kg	☼	08/05/19 07:50	08/05/19 19:09	1
Sodium	290	B	52	7.6	mg/Kg	☼	08/05/19 07:50	08/05/19 19:09	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/07/19 09:01	08/07/19 19:18	1
Barium	0.48	J	0.50	0.050	mg/L		08/07/19 09:01	08/07/19 19:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/07/19 09:01	08/07/19 19:18	1
Cadmium	0.0043	J	0.0050	0.0020	mg/L		08/07/19 09:01	08/07/19 19:18	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167744-1

Client Sample ID: 2815V-2-B06 (5-9)

Lab Sample ID: 500-167744-5

Date Collected: 08/02/19 10:40

Matrix: Solid

Date Received: 08/02/19 16:05

Percent Solids: 89.2

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	340		5.0	0.50	mg/L		08/07/19 09:01	08/07/19 19:18	1
Chromium	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 19:18	1
Cobalt	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 19:18	1
Copper	0.087		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 19:18	1
Iron	<0.20		0.40	0.20	mg/L		08/07/19 09:01	08/07/19 19:18	1
Lead	0.029		0.0075	0.0075	mg/L		08/07/19 09:01	08/07/19 19:18	1
Magnesium	86		2.5	0.50	mg/L		08/07/19 09:01	08/07/19 19:18	1
Manganese	0.75		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 19:18	1
Nickel	0.026		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 19:18	1
Potassium	3.7		2.5	0.50	mg/L		08/07/19 09:01	08/07/19 19:18	1
Selenium	<0.020		0.050	0.020	mg/L		08/07/19 09:01	08/07/19 19:18	1
Silver	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 19:18	1
Vanadium	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 19:18	1
Zinc	1.1		0.50	0.020	mg/L		08/07/19 09:01	08/07/19 19:18	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.15		0.0075	0.0075	mg/L		08/07/19 14:43	08/08/19 17:55	1
Manganese	0.17		0.025	0.010	mg/L		08/07/19 14:43	08/08/19 17:55	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/07/19 09:01	08/08/19 18:18	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/07/19 09:01	08/08/19 18:18	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/07/19 13:25	08/08/19 10:19	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.13		0.018	0.0059	mg/Kg	⊛	08/07/19 11:20	08/08/19 08:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	1.1		0.44	0.22	mg/Kg	⊛	08/13/19 16:30	08/13/19 19:00	1
pH	6.9		0.2	0.2	SU			08/06/19 12:30	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - McCook - WO 061

Job ID: 500-167744-1

Client Sample ID: 2815V-2-B07 (0-3.5)

Lab Sample ID: 500-167744-6

Date Collected: 08/02/19 11:20

Matrix: Solid

Date Received: 08/02/19 16:05

Percent Solids: 86.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.015	J	0.017	0.0074	mg/Kg	☼	08/02/19 17:22	08/05/19 18:11	1
Benzene	<0.00043		0.0017	0.00043	mg/Kg	☼	08/02/19 17:22	08/05/19 18:11	1
Bromodichloromethane	<0.00034		0.0017	0.00034	mg/Kg	☼	08/02/19 17:22	08/05/19 18:11	1
Bromoform	<0.00049		0.0017	0.00049	mg/Kg	☼	08/02/19 17:22	08/05/19 18:11	1
Bromomethane	<0.0016		0.0042	0.0016	mg/Kg	☼	08/02/19 17:22	08/05/19 18:11	1
2-Butanone (MEK)	<0.0019		0.0042	0.0019	mg/Kg	☼	08/02/19 17:22	08/05/19 18:11	1
Carbon disulfide	<0.00088		0.0042	0.00088	mg/Kg	☼	08/02/19 17:22	08/05/19 18:11	1
Carbon tetrachloride	<0.00049		0.0017	0.00049	mg/Kg	☼	08/02/19 17:22	08/05/19 18:11	1
Chlorobenzene	<0.00062		0.0017	0.00062	mg/Kg	☼	08/02/19 17:22	08/05/19 18:11	1
Chloroethane	<0.0013	*	0.0042	0.0013	mg/Kg	☼	08/02/19 17:22	08/05/19 18:11	1
Chloroform	<0.00059		0.0017	0.00059	mg/Kg	☼	08/02/19 17:22	08/05/19 18:11	1
Chloromethane	<0.0017		0.0042	0.0017	mg/Kg	☼	08/02/19 17:22	08/05/19 18:11	1
cis-1,2-Dichloroethene	<0.00047		0.0017	0.00047	mg/Kg	☼	08/02/19 17:22	08/05/19 18:11	1
cis-1,3-Dichloropropene	<0.00051		0.0017	0.00051	mg/Kg	☼	08/02/19 17:22	08/05/19 18:11	1
Dibromochloromethane	<0.00055		0.0017	0.00055	mg/Kg	☼	08/02/19 17:22	08/05/19 18:11	1
1,1-Dichloroethane	<0.00058		0.0017	0.00058	mg/Kg	☼	08/02/19 17:22	08/05/19 18:11	1
1,2-Dichloroethane	<0.0013		0.0042	0.0013	mg/Kg	☼	08/02/19 17:22	08/05/19 18:11	1
1,1-Dichloroethene	<0.00058		0.0017	0.00058	mg/Kg	☼	08/02/19 17:22	08/05/19 18:11	1
1,2-Dichloropropane	<0.00044		0.0017	0.00044	mg/Kg	☼	08/02/19 17:22	08/05/19 18:11	1
1,3-Dichloropropane, Total	<0.00059		0.0017	0.00059	mg/Kg	☼	08/02/19 17:22	08/05/19 18:11	1
Ethylbenzene	<0.00081		0.0017	0.00081	mg/Kg	☼	08/02/19 17:22	08/05/19 18:11	1
2-Hexanone	<0.0013		0.0042	0.0013	mg/Kg	☼	08/02/19 17:22	08/05/19 18:11	1
Methylene Chloride	0.0044		0.0042	0.0017	mg/Kg	☼	08/02/19 17:22	08/05/19 18:11	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0042	0.0013	mg/Kg	☼	08/02/19 17:22	08/05/19 18:11	1
Methyl tert-butyl ether	<0.00050		0.0017	0.00050	mg/Kg	☼	08/02/19 17:22	08/05/19 18:11	1
Styrene	<0.00051		0.0017	0.00051	mg/Kg	☼	08/02/19 17:22	08/05/19 18:11	1
1,1,2,2-Tetrachloroethane	<0.00054		0.0017	0.00054	mg/Kg	☼	08/02/19 17:22	08/05/19 18:11	1
Tetrachloroethene	<0.00058		0.0017	0.00058	mg/Kg	☼	08/02/19 17:22	08/05/19 18:11	1
Toluene	<0.00043		0.0017	0.00043	mg/Kg	☼	08/02/19 17:22	08/05/19 18:11	1
trans-1,2-Dichloroethene	<0.00075		0.0017	0.00075	mg/Kg	☼	08/02/19 17:22	08/05/19 18:11	1
trans-1,3-Dichloropropene	<0.00059		0.0017	0.00059	mg/Kg	☼	08/02/19 17:22	08/05/19 18:11	1
1,1,1-Trichloroethane	<0.00057		0.0017	0.00057	mg/Kg	☼	08/02/19 17:22	08/05/19 18:11	1
1,1,2-Trichloroethane	<0.00073		0.0017	0.00073	mg/Kg	☼	08/02/19 17:22	08/05/19 18:11	1
Trichloroethene	<0.00057		0.0017	0.00057	mg/Kg	☼	08/02/19 17:22	08/05/19 18:11	1
Vinyl acetate	<0.0015		0.0042	0.0015	mg/Kg	☼	08/02/19 17:22	08/05/19 18:11	1
Vinyl chloride	<0.00075		0.0017	0.00075	mg/Kg	☼	08/02/19 17:22	08/05/19 18:11	1
Xylenes, Total	<0.00054		0.0034	0.00054	mg/Kg	☼	08/02/19 17:22	08/05/19 18:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		75 - 131	08/02/19 17:22	08/05/19 18:11	1
Dibromofluoromethane	96		75 - 126	08/02/19 17:22	08/05/19 18:11	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	08/02/19 17:22	08/05/19 18:11	1
Toluene-d8 (Surr)	93		75 - 124	08/02/19 17:22	08/05/19 18:11	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.0096	J	0.038	0.0068	mg/Kg	☼	08/08/19 21:30	08/09/19 19:08	1
Acenaphthylene	0.16		0.038	0.0050	mg/Kg	☼	08/08/19 21:30	08/09/19 19:08	1
Anthracene	0.093		0.038	0.0064	mg/Kg	☼	08/08/19 21:30	08/09/19 19:08	1
Benzo[a]anthracene	0.26		0.038	0.0051	mg/Kg	☼	08/08/19 21:30	08/09/19 19:08	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - McCook - WO 061

Job ID: 500-167744-1

Client Sample ID: 2815V-2-B07 (0-3.5)

Lab Sample ID: 500-167744-6

Date Collected: 08/02/19 11:20

Matrix: Solid

Date Received: 08/02/19 16:05

Percent Solids: 86.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.30		0.038	0.0074	mg/Kg	*	08/08/19 21:30	08/09/19 19:08	1
Benzo[b]fluoranthene	0.41		0.038	0.0082	mg/Kg	*	08/08/19 21:30	08/09/19 19:08	1
Benzo[g,h,i]perylene	0.098		0.038	0.012	mg/Kg	*	08/08/19 21:30	08/09/19 19:08	1
Benzo[k]fluoranthene	0.14		0.038	0.011	mg/Kg	*	08/08/19 21:30	08/09/19 19:08	1
Bis(2-chloroethoxy)methane	<0.039		0.19	0.039	mg/Kg	*	08/08/19 21:30	08/09/19 19:08	1
Bis(2-chloroethyl)ether	<0.057		0.19	0.057	mg/Kg	*	08/08/19 21:30	08/09/19 19:08	1
Bis(2-ethylhexyl) phthalate	<0.070		0.19	0.070	mg/Kg	*	08/08/19 21:30	08/09/19 19:08	1
4-Bromophenyl phenyl ether	<0.050		0.19	0.050	mg/Kg	*	08/08/19 21:30	08/09/19 19:08	1
Butyl benzyl phthalate	<0.072		0.19	0.072	mg/Kg	*	08/08/19 21:30	08/09/19 19:08	1
Carbazole	<0.095		0.19	0.095	mg/Kg	*	08/08/19 21:30	08/09/19 19:08	1
4-Chloroaniline	<0.18		0.77	0.18	mg/Kg	*	08/08/19 21:30	08/09/19 19:08	1
4-Chloro-3-methylphenol	<0.13		0.38	0.13	mg/Kg	*	08/08/19 21:30	08/09/19 19:08	1
2-Chloronaphthalene	<0.042		0.19	0.042	mg/Kg	*	08/08/19 21:30	08/09/19 19:08	1
2-Chlorophenol	<0.065		0.19	0.065	mg/Kg	*	08/08/19 21:30	08/09/19 19:08	1
4-Chlorophenyl phenyl ether	<0.044		0.19	0.044	mg/Kg	*	08/08/19 21:30	08/09/19 19:08	1
Chrysene	0.31		0.038	0.010	mg/Kg	*	08/08/19 21:30	08/09/19 19:08	1
Dibenz(a,h)anthracene	0.033	J	0.038	0.0074	mg/Kg	*	08/08/19 21:30	08/09/19 19:08	1
Dibenzofuran	<0.045		0.19	0.045	mg/Kg	*	08/08/19 21:30	08/09/19 19:08	1
1,2-Dichlorobenzene	<0.045		0.19	0.045	mg/Kg	*	08/08/19 21:30	08/09/19 19:08	1
1,3-Dichlorobenzene	<0.043		0.19	0.043	mg/Kg	*	08/08/19 21:30	08/09/19 19:08	1
1,4-Dichlorobenzene	<0.049		0.19	0.049	mg/Kg	*	08/08/19 21:30	08/09/19 19:08	1
3,3'-Dichlorobenzidine	<0.053		0.19	0.053	mg/Kg	*	08/08/19 21:30	08/09/19 19:08	1
2,4-Dichlorophenol	<0.090		0.38	0.090	mg/Kg	*	08/08/19 21:30	08/09/19 19:08	1
Diethyl phthalate	<0.064		0.19	0.064	mg/Kg	*	08/08/19 21:30	08/09/19 19:08	1
2,4-Dimethylphenol	<0.14		0.38	0.14	mg/Kg	*	08/08/19 21:30	08/09/19 19:08	1
Dimethyl phthalate	<0.050		0.19	0.050	mg/Kg	*	08/08/19 21:30	08/09/19 19:08	1
Di-n-butyl phthalate	<0.058		0.19	0.058	mg/Kg	*	08/08/19 21:30	08/09/19 19:08	1
4,6-Dinitro-2-methylphenol	<0.31		0.77	0.31	mg/Kg	*	08/08/19 21:30	08/09/19 19:08	1
2,4-Dinitrophenol	<0.67		0.77	0.67	mg/Kg	*	08/08/19 21:30	08/09/19 19:08	1
2,4-Dinitrotoluene	<0.060		0.19	0.060	mg/Kg	*	08/08/19 21:30	08/09/19 19:08	1
2,6-Dinitrotoluene	<0.075		0.19	0.075	mg/Kg	*	08/08/19 21:30	08/09/19 19:08	1
Di-n-octyl phthalate	<0.062		0.19	0.062	mg/Kg	*	08/08/19 21:30	08/09/19 19:08	1
Fluoranthene	0.38		0.038	0.0071	mg/Kg	*	08/08/19 21:30	08/09/19 19:08	1
Fluorene	0.015	J	0.038	0.0053	mg/Kg	*	08/08/19 21:30	08/09/19 19:08	1
Hexachlorobenzene	<0.0088		0.077	0.0088	mg/Kg	*	08/08/19 21:30	08/09/19 19:08	1
Hexachlorobutadiene	<0.060		0.19	0.060	mg/Kg	*	08/08/19 21:30	08/09/19 19:08	1
Hexachlorocyclopentadiene	<0.22		0.77	0.22	mg/Kg	*	08/08/19 21:30	08/09/19 19:08	1
Hexachloroethane	<0.058		0.19	0.058	mg/Kg	*	08/08/19 21:30	08/09/19 19:08	1
Indeno[1,2,3-cd]pyrene	0.10		0.038	0.0099	mg/Kg	*	08/08/19 21:30	08/09/19 19:08	1
Isophorone	<0.043		0.19	0.043	mg/Kg	*	08/08/19 21:30	08/09/19 19:08	1
2-Methylnaphthalene	0.18		0.077	0.0070	mg/Kg	*	08/08/19 21:30	08/09/19 19:08	1
2-Methylphenol	<0.061		0.19	0.061	mg/Kg	*	08/08/19 21:30	08/09/19 19:08	1
3 & 4 Methylphenol	<0.063		0.19	0.063	mg/Kg	*	08/08/19 21:30	08/09/19 19:08	1
Naphthalene	0.071		0.038	0.0059	mg/Kg	*	08/08/19 21:30	08/09/19 19:08	1
2-Nitroaniline	<0.051		0.19	0.051	mg/Kg	*	08/08/19 21:30	08/09/19 19:08	1
3-Nitroaniline	<0.12		0.38	0.12	mg/Kg	*	08/08/19 21:30	08/09/19 19:08	1
4-Nitroaniline	<0.16		0.38	0.16	mg/Kg	*	08/08/19 21:30	08/09/19 19:08	1
Nitrobenzene	<0.0095		0.038	0.0095	mg/Kg	*	08/08/19 21:30	08/09/19 19:08	1
2-Nitrophenol	<0.090		0.38	0.090	mg/Kg	*	08/08/19 21:30	08/09/19 19:08	1

Eurolins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167744-1

Client Sample ID: 2815V-2-B07 (0-3.5)

Lab Sample ID: 500-167744-6

Date Collected: 08/02/19 11:20

Matrix: Solid

Date Received: 08/02/19 16:05

Percent Solids: 86.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.36		0.77	0.36	mg/Kg	☼	08/08/19 21:30	08/09/19 19:08	1
N-Nitrosodi-n-propylamine	<0.047		0.077	0.047	mg/Kg	☼	08/08/19 21:30	08/09/19 19:08	1
N-Nitrosodiphenylamine	<0.045		0.19	0.045	mg/Kg	☼	08/08/19 21:30	08/09/19 19:08	1
2,2'-oxybis[1-chloropropane]	<0.044	*	0.19	0.044	mg/Kg	☼	08/08/19 21:30	08/09/19 19:08	1
Pentachlorophenol	<0.61		0.77	0.61	mg/Kg	☼	08/08/19 21:30	08/09/19 19:08	1
Phenanthrene	0.21		0.038	0.0053	mg/Kg	☼	08/08/19 21:30	08/09/19 19:08	1
Phenol	<0.085		0.19	0.085	mg/Kg	☼	08/08/19 21:30	08/09/19 19:08	1
Pyrene	0.44		0.038	0.0076	mg/Kg	☼	08/08/19 21:30	08/09/19 19:08	1
1,2,4-Trichlorobenzene	<0.041		0.19	0.041	mg/Kg	☼	08/08/19 21:30	08/09/19 19:08	1
2,4,5-Trichlorophenol	<0.087		0.38	0.087	mg/Kg	☼	08/08/19 21:30	08/09/19 19:08	1
2,4,6-Trichlorophenol	<0.13		0.38	0.13	mg/Kg	☼	08/08/19 21:30	08/09/19 19:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	75		43 - 145				08/08/19 21:30	08/09/19 19:08	1
2-Fluorophenol	110		31 - 166				08/08/19 21:30	08/09/19 19:08	1
Nitrobenzene-d5	76		37 - 147				08/08/19 21:30	08/09/19 19:08	1
Phenol-d5	88		30 - 153				08/08/19 21:30	08/09/19 19:08	1
Terphenyl-d14	88		42 - 157				08/08/19 21:30	08/09/19 19:08	1
2,4,6-Tribromophenol	83		31 - 143				08/08/19 21:30	08/09/19 19:08	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.20		1.1	0.20	mg/Kg	☼	08/05/19 07:50	08/05/19 19:13	1
Arsenic	7.9		0.53	0.18	mg/Kg	☼	08/05/19 07:50	08/05/19 19:13	1
Barium	61		0.53	0.060	mg/Kg	☼	08/05/19 07:50	08/05/19 19:13	1
Beryllium	0.47		0.21	0.049	mg/Kg	☼	08/05/19 07:50	08/06/19 14:57	1
Cadmium	0.25	B	0.11	0.019	mg/Kg	☼	08/05/19 07:50	08/05/19 19:13	1
Chromium	12		0.53	0.26	mg/Kg	☼	08/05/19 07:50	08/05/19 19:13	1
Cobalt	8.3		0.26	0.069	mg/Kg	☼	08/05/19 07:50	08/05/19 19:13	1
Copper	26		0.53	0.15	mg/Kg	☼	08/05/19 07:50	08/05/19 19:13	1
Iron	14000		11	5.5	mg/Kg	☼	08/05/19 07:50	08/05/19 19:13	1
Lead	24		0.26	0.12	mg/Kg	☼	08/05/19 07:50	08/05/19 19:13	1
Magnesium	11000		5.3	2.6	mg/Kg	☼	08/05/19 07:50	08/05/19 19:13	1
Calcium	18000	B	11	1.8	mg/Kg	☼	08/05/19 07:50	08/05/19 19:13	1
Manganese	360		0.53	0.076	mg/Kg	☼	08/05/19 07:50	08/05/19 19:13	1
Nickel	18		0.53	0.15	mg/Kg	☼	08/05/19 07:50	08/05/19 19:13	1
Selenium	0.32	J	0.53	0.31	mg/Kg	☼	08/05/19 07:50	08/05/19 19:13	1
Silver	2.4		0.26	0.068	mg/Kg	☼	08/05/19 07:50	08/05/19 19:13	1
Thallium	0.65		0.53	0.26	mg/Kg	☼	08/05/19 07:50	08/05/19 19:13	1
Vanadium	20		0.26	0.062	mg/Kg	☼	08/05/19 07:50	08/05/19 19:13	1
Zinc	60		1.1	0.46	mg/Kg	☼	08/05/19 07:50	08/06/19 14:57	1
Potassium	1200		26	9.3	mg/Kg	☼	08/05/19 07:50	08/05/19 19:13	1
Sodium	3700	B	53	7.8	mg/Kg	☼	08/05/19 07:50	08/05/19 19:13	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/07/19 09:01	08/07/19 19:22	1
Barium	0.41	J	0.50	0.050	mg/L		08/07/19 09:01	08/07/19 19:22	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/07/19 09:01	08/07/19 19:22	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/07/19 09:01	08/07/19 19:22	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167744-1

Client Sample ID: 2815V-2-B07 (0-3.5)

Lab Sample ID: 500-167744-6

Date Collected: 08/02/19 11:20

Matrix: Solid

Date Received: 08/02/19 16:05

Percent Solids: 86.6

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	260		5.0	0.50	mg/L		08/07/19 09:01	08/07/19 19:22	1
Chromium	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 19:22	1
Cobalt	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 19:22	1
Copper	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 19:22	1
Iron	<0.20		0.40	0.20	mg/L		08/07/19 09:01	08/07/19 19:22	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/07/19 09:01	08/07/19 19:22	1
Magnesium	130		2.5	0.50	mg/L		08/07/19 09:01	08/07/19 19:22	1
Manganese	1.2		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 19:22	1
Nickel	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 19:22	1
Potassium	6.0		2.5	0.50	mg/L		08/07/19 09:01	08/07/19 19:22	1
Selenium	<0.020		0.050	0.020	mg/L		08/07/19 09:01	08/07/19 19:22	1
Silver	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 19:22	1
Vanadium	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 19:22	1
Zinc	0.56		0.50	0.020	mg/L		08/07/19 09:01	08/07/19 19:22	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.2		0.025	0.010	mg/L		08/07/19 14:43	08/08/19 17:59	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/07/19 09:01	08/08/19 18:29	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/07/19 09:01	08/08/19 18:29	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/07/19 13:25	08/08/19 10:20	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.018	0.0060	mg/Kg	☼	08/07/19 11:20	08/08/19 08:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.23		0.46	0.23	mg/Kg	☼	08/13/19 16:30	08/13/19 19:01	1
pH	7.8		0.2	0.2	SU			08/06/19 12:34	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - McCook - WO 061

Job ID: 500-167744-1

Client Sample ID: 2815V-2-B08 (0-3.5)

Lab Sample ID: 500-167744-7

Date Collected: 08/02/19 11:50

Matrix: Solid

Date Received: 08/02/19 16:05

Percent Solids: 93.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Table with columns: Analyte, Result, Qualifier, RL, MDL, Unit, D, Prepared, Analyzed, Dil Fac. Lists various compounds like Acetone, Benzene, etc., with their respective results and detection limits.

Table with columns: Surrogate, %Recovery, Qualifier, Limits, Prepared, Analyzed, Dil Fac. Lists surrogate compounds and their recovery percentages.

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Table with columns: Analyte, Result, Qualifier, RL, MDL, Unit, D, Prepared, Analyzed, Dil Fac. Lists compounds like Acenaphthene, Anthracene, etc., with their results and limits.

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - McCook - WO 061

Job ID: 500-167744-1

Client Sample ID: 2815V-2-B08 (0-3.5)

Lab Sample ID: 500-167744-7

Date Collected: 08/02/19 11:50

Matrix: Solid

Date Received: 08/02/19 16:05

Percent Solids: 93.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.062		0.035	0.0067	mg/Kg	☼	08/06/19 07:56	08/06/19 18:00	1
Benzo[b]fluoranthene	0.066		0.035	0.0075	mg/Kg	☼	08/06/19 07:56	08/06/19 18:00	1
Benzo[g,h,i]perylene	0.036		0.035	0.011	mg/Kg	☼	08/06/19 07:56	08/06/19 18:00	1
Benzo[k]fluoranthene	0.021	J	0.035	0.010	mg/Kg	☼	08/06/19 07:56	08/06/19 18:00	1
Bis(2-chloroethoxy)methane	<0.035		0.17	0.035	mg/Kg	☼	08/06/19 07:56	08/06/19 18:00	1
Bis(2-chloroethyl)ether	<0.052		0.17	0.052	mg/Kg	☼	08/06/19 07:56	08/06/19 18:00	1
Bis(2-ethylhexyl) phthalate	<0.063		0.17	0.063	mg/Kg	☼	08/06/19 07:56	08/06/19 18:00	1
4-Bromophenyl phenyl ether	<0.046		0.17	0.046	mg/Kg	☼	08/06/19 07:56	08/06/19 18:00	1
Butyl benzyl phthalate	<0.066		0.17	0.066	mg/Kg	☼	08/06/19 07:56	08/06/19 18:00	1
Carbazole	<0.087		0.17	0.087	mg/Kg	☼	08/06/19 07:56	08/06/19 18:00	1
4-Chloroaniline	<0.16		0.70	0.16	mg/Kg	☼	08/06/19 07:56	08/06/19 18:00	1
4-Chloro-3-methylphenol	<0.12		0.35	0.12	mg/Kg	☼	08/06/19 07:56	08/06/19 18:00	1
2-Chloronaphthalene	<0.038		0.17	0.038	mg/Kg	☼	08/06/19 07:56	08/06/19 18:00	1
2-Chlorophenol	<0.059	*	0.17	0.059	mg/Kg	☼	08/06/19 07:56	08/06/19 18:00	1
4-Chlorophenyl phenyl ether	<0.041		0.17	0.041	mg/Kg	☼	08/06/19 07:56	08/06/19 18:00	1
Chrysene	0.057		0.035	0.0095	mg/Kg	☼	08/06/19 07:56	08/06/19 18:00	1
Dibenz(a,h)anthracene	0.0073	J	0.035	0.0067	mg/Kg	☼	08/06/19 07:56	08/06/19 18:00	1
Dibenzofuran	<0.041	*	0.17	0.041	mg/Kg	☼	08/06/19 07:56	08/06/19 18:00	1
1,2-Dichlorobenzene	<0.042		0.17	0.042	mg/Kg	☼	08/06/19 07:56	08/06/19 18:00	1
1,3-Dichlorobenzene	<0.039		0.17	0.039	mg/Kg	☼	08/06/19 07:56	08/06/19 18:00	1
1,4-Dichlorobenzene	<0.045		0.17	0.045	mg/Kg	☼	08/06/19 07:56	08/06/19 18:00	1
3,3'-Dichlorobenzidine	<0.049		0.17	0.049	mg/Kg	☼	08/06/19 07:56	08/06/19 18:00	1
2,4-Dichlorophenol	<0.083		0.35	0.083	mg/Kg	☼	08/06/19 07:56	08/06/19 18:00	1
Diethyl phthalate	<0.059	*	0.17	0.059	mg/Kg	☼	08/06/19 07:56	08/06/19 18:00	1
2,4-Dimethylphenol	<0.13		0.35	0.13	mg/Kg	☼	08/06/19 07:56	08/06/19 18:00	1
Dimethyl phthalate	<0.045		0.17	0.045	mg/Kg	☼	08/06/19 07:56	08/06/19 18:00	1
Di-n-butyl phthalate	<0.053	*	0.17	0.053	mg/Kg	☼	08/06/19 07:56	08/06/19 18:00	1
4,6-Dinitro-2-methylphenol	<0.28		0.70	0.28	mg/Kg	☼	08/06/19 07:56	08/06/19 18:00	1
2,4-Dinitrophenol	<0.61		0.70	0.61	mg/Kg	☼	08/06/19 07:56	08/06/19 18:00	1
2,4-Dinitrotoluene	<0.055	*	0.17	0.055	mg/Kg	☼	08/06/19 07:56	08/06/19 18:00	1
2,6-Dinitrotoluene	<0.068		0.17	0.068	mg/Kg	☼	08/06/19 07:56	08/06/19 18:00	1
Di-n-octyl phthalate	<0.057		0.17	0.057	mg/Kg	☼	08/06/19 07:56	08/06/19 18:00	1
Fluoranthene	0.089		0.035	0.0064	mg/Kg	☼	08/06/19 07:56	08/06/19 18:00	1
Fluorene	0.0092	J	0.035	0.0049	mg/Kg	☼	08/06/19 07:56	08/06/19 18:00	1
Hexachlorobenzene	<0.0081	*	0.070	0.0081	mg/Kg	☼	08/06/19 07:56	08/06/19 18:00	1
Hexachlorobutadiene	<0.055	*	0.17	0.055	mg/Kg	☼	08/06/19 07:56	08/06/19 18:00	1
Hexachlorocyclopentadiene	<0.20		0.70	0.20	mg/Kg	☼	08/06/19 07:56	08/06/19 18:00	1
Hexachloroethane	<0.053		0.17	0.053	mg/Kg	☼	08/06/19 07:56	08/06/19 18:00	1
Indeno[1,2,3-cd]pyrene	0.033	J	0.035	0.0090	mg/Kg	☼	08/06/19 07:56	08/06/19 18:00	1
Isophorone	0.060	J	0.17	0.039	mg/Kg	☼	08/06/19 07:56	08/06/19 18:00	1
2-Methylnaphthalene	0.025	J	0.070	0.0064	mg/Kg	☼	08/06/19 07:56	08/06/19 18:00	1
2-Methylphenol	<0.056		0.17	0.056	mg/Kg	☼	08/06/19 07:56	08/06/19 18:00	1
3 & 4 Methylphenol	<0.058		0.17	0.058	mg/Kg	☼	08/06/19 07:56	08/06/19 18:00	1
Naphthalene	0.018	J	0.035	0.0053	mg/Kg	☼	08/06/19 07:56	08/06/19 18:00	1
2-Nitroaniline	<0.047		0.17	0.047	mg/Kg	☼	08/06/19 07:56	08/06/19 18:00	1
3-Nitroaniline	<0.11		0.35	0.11	mg/Kg	☼	08/06/19 07:56	08/06/19 18:00	1
4-Nitroaniline	<0.15		0.35	0.15	mg/Kg	☼	08/06/19 07:56	08/06/19 18:00	1
Nitrobenzene	<0.0087		0.035	0.0087	mg/Kg	☼	08/06/19 07:56	08/06/19 18:00	1
2-Nitrophenol	<0.082		0.35	0.082	mg/Kg	☼	08/06/19 07:56	08/06/19 18:00	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167744-1

Client Sample ID: 2815V-2-B08 (0-3.5)

Lab Sample ID: 500-167744-7

Date Collected: 08/02/19 11:50

Matrix: Solid

Date Received: 08/02/19 16:05

Percent Solids: 93.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.33	*	0.70	0.33	mg/Kg	☼	08/06/19 07:56	08/06/19 18:00	1
N-Nitrosodi-n-propylamine	<0.042		0.070	0.042	mg/Kg	☼	08/06/19 07:56	08/06/19 18:00	1
N-Nitrosodiphenylamine	<0.041		0.17	0.041	mg/Kg	☼	08/06/19 07:56	08/06/19 18:00	1
2,2'-oxybis[1-chloropropane]	<0.040		0.17	0.040	mg/Kg	☼	08/06/19 07:56	08/06/19 18:00	1
Pentachlorophenol	<0.56		0.70	0.56	mg/Kg	☼	08/06/19 07:56	08/06/19 18:00	1
Phenanthrene	0.11		0.035	0.0048	mg/Kg	☼	08/06/19 07:56	08/06/19 18:00	1
Phenol	<0.077		0.17	0.077	mg/Kg	☼	08/06/19 07:56	08/06/19 18:00	1
Pyrene	0.089		0.035	0.0069	mg/Kg	☼	08/06/19 07:56	08/06/19 18:00	1
1,2,4-Trichlorobenzene	<0.037		0.17	0.037	mg/Kg	☼	08/06/19 07:56	08/06/19 18:00	1
2,4,5-Trichlorophenol	<0.079		0.35	0.079	mg/Kg	☼	08/06/19 07:56	08/06/19 18:00	1
2,4,6-Trichlorophenol	<0.12		0.35	0.12	mg/Kg	☼	08/06/19 07:56	08/06/19 18:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	94		43 - 145	08/06/19 07:56	08/06/19 18:00	1
2-Fluorophenol	73		31 - 166	08/06/19 07:56	08/06/19 18:00	1
Nitrobenzene-d5	77		37 - 147	08/06/19 07:56	08/06/19 18:00	1
Phenol-d5	81		30 - 153	08/06/19 07:56	08/06/19 18:00	1
Terphenyl-d14	119		42 - 157	08/06/19 07:56	08/06/19 18:00	1
2,4,6-Tribromophenol	108		31 - 143	08/06/19 07:56	08/06/19 18:00	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.36	J	0.98	0.19	mg/Kg	☼	08/05/19 07:50	08/05/19 19:17	1
Arsenic	2.7		0.49	0.17	mg/Kg	☼	08/05/19 07:50	08/05/19 19:17	1
Barium	13		0.49	0.056	mg/Kg	☼	08/05/19 07:50	08/05/19 19:17	1
Beryllium	0.11	J	0.20	0.046	mg/Kg	☼	08/05/19 07:50	08/06/19 15:09	1
Cadmium	0.19	B	0.098	0.018	mg/Kg	☼	08/05/19 07:50	08/05/19 19:17	1
Chromium	2.6		0.49	0.24	mg/Kg	☼	08/05/19 07:50	08/05/19 19:17	1
Cobalt	2.0		0.25	0.064	mg/Kg	☼	08/05/19 07:50	08/05/19 19:17	1
Copper	2.7		0.49	0.14	mg/Kg	☼	08/05/19 07:50	08/05/19 19:17	1
Iron	3500		9.8	5.1	mg/Kg	☼	08/05/19 07:50	08/05/19 19:17	1
Lead	7.6		0.25	0.11	mg/Kg	☼	08/05/19 07:50	08/05/19 19:17	1
Magnesium	110000		25	12	mg/Kg	☼	08/05/19 07:50	08/06/19 15:13	5
Calcium	180000	B	98	17	mg/Kg	☼	08/05/19 07:50	08/07/19 10:44	10
Manganese	130		0.49	0.071	mg/Kg	☼	08/05/19 07:50	08/05/19 19:17	1
Nickel	3.0		0.49	0.14	mg/Kg	☼	08/05/19 07:50	08/05/19 19:17	1
Selenium	<0.29		0.49	0.29	mg/Kg	☼	08/05/19 07:50	08/05/19 19:17	1
Silver	0.36		0.25	0.063	mg/Kg	☼	08/05/19 07:50	08/05/19 19:17	1
Thallium	<0.24		0.49	0.24	mg/Kg	☼	08/05/19 07:50	08/05/19 19:17	1
Vanadium	4.5		0.25	0.058	mg/Kg	☼	08/05/19 07:50	08/05/19 19:17	1
Zinc	13		0.98	0.43	mg/Kg	☼	08/05/19 07:50	08/06/19 15:09	1
Potassium	400		25	8.7	mg/Kg	☼	08/05/19 07:50	08/05/19 19:17	1
Sodium	940	B	49	7.3	mg/Kg	☼	08/05/19 07:50	08/05/19 19:17	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/07/19 09:01	08/07/19 19:26	1
Barium	0.17	J	0.50	0.050	mg/L		08/07/19 09:01	08/07/19 19:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/07/19 09:01	08/07/19 19:26	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/07/19 09:01	08/07/19 19:26	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167744-1

Client Sample ID: 2815V-2-B08 (0-3.5)

Lab Sample ID: 500-167744-7

Date Collected: 08/02/19 11:50

Matrix: Solid

Date Received: 08/02/19 16:05

Percent Solids: 93.8

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	370		5.0	0.50	mg/L		08/07/19 09:01	08/07/19 19:26	1
Chromium	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 19:26	1
Cobalt	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 19:26	1
Copper	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 19:26	1
Iron	<0.20		0.40	0.20	mg/L		08/07/19 09:01	08/07/19 19:26	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/07/19 09:01	08/07/19 19:26	1
Magnesium	150		2.5	0.50	mg/L		08/07/19 09:01	08/07/19 19:26	1
Manganese	0.31		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 19:26	1
Nickel	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 19:26	1
Potassium	4.3		2.5	0.50	mg/L		08/07/19 09:01	08/07/19 19:26	1
Selenium	<0.020		0.050	0.020	mg/L		08/07/19 09:01	08/07/19 19:26	1
Silver	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 19:26	1
Vanadium	<0.010		0.025	0.010	mg/L		08/07/19 09:01	08/07/19 19:26	1
Zinc	0.029	J	0.50	0.020	mg/L		08/07/19 09:01	08/07/19 19:26	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.011	J	0.025	0.010	mg/L		08/07/19 14:43	08/08/19 18:03	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/07/19 09:01	08/08/19 18:33	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/07/19 09:01	08/08/19 18:33	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/07/19 13:25	08/08/19 10:22	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0054		0.016	0.0054	mg/Kg	☼	08/07/19 11:20	08/08/19 08:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.24		0.48	0.24	mg/Kg	☼	08/13/19 16:30	08/13/19 19:01	1
pH	9.2		0.2	0.2	SU			08/06/19 12:39	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - McCook - WO 061

Job ID: 500-167744-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
♠	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - McCook - WO 061

Job ID: 500-167744-1

Laboratory: Eurofins TestAmerica, Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
Illinois	NELAP	5	100201	04-30-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
7470A	7470A	Solid	Mercury
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids



500-167744 COC

Report To (optional)
Contact: Matt Weiss
Company: Terracon
Address: 192 Exchange Blvd.
Address: Glendale Heights, IL
Phone: 630-445-0160
Fax:
E-Mail:

Bill To (optional)
Contact: Matt Weiss
Company: Terracon
Address: 192 Exchange Blvd.
Address: Glendale Heights, IL
Phone: 630-445-0160
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-167744
Chain of Custody Number:
Page 1 of 1
Temperature °C of Cooler: 63/61/84

Client		Client Project #		Preservative		Parameter		Matrix		Matrix		Matrix		Matrix		Matrix		Matrix		Matrix		Preservative Key	
<u>IDOT</u>		<u>11197084F</u>																				1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		Sampling		# of Containers		Matrix		Matrix		Matrix		Matrix		Matrix		Matrix		Matrix		Comments	
<u>11197084F</u>				Date Time																			
Lab ID	MS/MSD	Sample ID		Sampling		# of Containers		Matrix		Matrix		Matrix		Matrix		Matrix		Matrix		Matrix		Comments	
<u>1</u>		<u>2815U-2-B04 (0.4)</u>		<u>8/02/19</u>	<u>0945</u>	<u>5</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		
<u>2</u>		<u>2815U-2-B05 (0.4)</u>		<u>8/02/19</u>	<u>0915</u>	<u>5</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		
<u>3</u>		<u>2815U-2-B05 Dup(0.4)</u>		<u>8/02/19</u>	<u>0920</u>	<u>5</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		
<u>4</u>		<u>2815U-2-B06 (0.5)</u>		<u>8/02/19</u>	<u>1030</u>	<u>5</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		
<u>5</u>		<u>2815U-2-B06 (5.9)</u>		<u>8/02/19</u>	<u>1040</u>	<u>5</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		
<u>6</u>		<u>2815U-2-B07 (0.3.5)</u>		<u>8/02/19</u>	<u>1120</u>	<u>5</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		
<u>7</u>		<u>2815U-2-B08 (0.3.5)</u>		<u>8/02/19</u>	<u>1150</u>	<u>5</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		

Turnaround Time Required (Business Days)
 ___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days X 10 Days ___ 15 Days ___ Other
 Requested Due Date: _____

Sample Disposal
 Return to Client Disposal by Lab Archive for ___ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>[Signature]</u>	Company <u>Terracon</u>	Date <u>8/02/19</u>	Time <u>1515</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>8/2/19</u>	Time <u>1515</u>	Lab Courier <u>TA</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>8/2/19</u>	Time <u>1605</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>8/2/19</u>	Time <u>1605</u>	Shipped _____
Relinquished By _____	Company _____	Date _____	Time _____	Received By _____	Company _____	Date _____	Time _____	Hand Delivered _____

- Matrix Key
- WW - Wastewater
 - W - Water
 - S - Soil
 - SL - Sludge
 - MS - Miscellaneous
 - OL - Oil
 - A - Air
 - SE - Sediment
 - SO - Soil
 - L - Leachate
 - WI - Wipe
 - DW - Drinking Water
 - O - Other

Client Comments
*note NO Aluminum
*note Hold SLP 23 Inorganics
per Terracon Instructions

Lab Comments:

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-167744-1

Login Number: 167744

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	Received same day of collection; chilling process has begun.
Cooler Temperature is recorded.	True	6.3,6.1,8.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

