



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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 112-IL Rte 53 from IL Rte 7 to S/o Murphy Dr Office Phone Number, if available: _____

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

IL Rte 53 (Southbound) IDOT STA 236+00 to 238+00 and 239+90 to 241+00 (ISGS Site 2947V-8)

City: Romeoville State: IL Zip Code: 60446

County: Will Township: Lockport

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

Latitude: 41.61633 Longitude: -88.07732

(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: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Contact: Irma Romiti-Johnson

Email, if available: irma.romiti-johnson@illinois.gov

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

Project Name: FAP 112-IL Rte 53 from IL Rte 7 to S/o Murphy Dr

Latitude: 41.61633 Longitude: -88.07732

Uncontaminated Site Certification

III. Basis for Certification and Attachments

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

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

Soil from borings B01 and B03 were sampled adjacent to ISGS Site No 2947V-8. See Exhibit 10 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]:

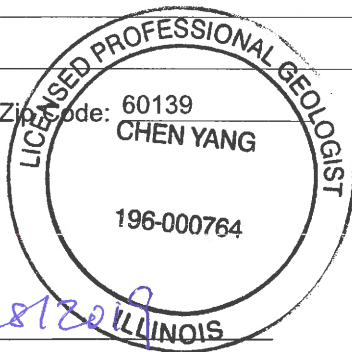
TestAmerica Lab Report No J153168-1. Also see Preliminary Site Investigation Report prepared by Terracon. CCDD/USFO facility in MSA County.

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

I, Chen Yang (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



Chen Yang
 Printed Name:
Chen Yang
 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

05/28/2019
 Date:

Comparison of Detected Constituents to MACs-PTB 174-009;Work Order:054A
Preliminary Site Investigation
FAP 112-IL Rte 53-IL Rte 7 to S/o Murphy Dr (PESA #2947V-8)
Romeoville, Will County, IL
Terracon Project No. 11187007V
Page 1 of 2

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2947V-8-B01 (0-5)	2947V-8-B03 (0-5)
				CCDD	Sample Depth (feet)	(0-5)	(0-5)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	10/15/2018	10/15/2018
Semivolatile Organic Analytical Parameters							
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.0079	0.0079
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.012	0.01
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.012	0.011
Inorganic Analytical Parameters							
Arsenic	mg/kg	---	13	11.3		13	11
Barium	mg/kg	---	110	1500		22	46
Cadmium	mg/kg	---	0.6	5.2		0.21	0.14
Chromium, total	mg/kg	---	16.2	21		8.7	15
Lead	mg/kg	---	36	107		16	16
Mercury	mg/kg	---	0.06	0.89		0.017	0.028
Selenium	mg/kg	---	0.48	1.3		<0.32	<0.35
Silver	mg/kg	---	0.55	4.4		0.16	0.31
Antimony	mg/kg	---	4.0	5		0.56	0.48
Beryllium	mg/kg	---	0.59	22		0.38	0.6
Calcium	mg/kg	---	9,300	---		110000	13000
Cobalt	mg/kg	---	8.9	20		7.3	13
Copper	mg/kg	---	19.6	2900		25	23
Cyanide	mg/kg	---	0.51	---		<0.18	<0.15
Iron	mg/kg	---	15,900	15000		24000	20000
Magnesium	mg/kg	---	4,820	325000		68000	10000
Manganese	mg/kg	---	636	630		310	480
Nickel	mg/kg	---	18	100		18	29
Potassium	mg/kg	---	1,268	---		1300	1600
Sodium	mg/kg	---	130	---		180	96
Thallium	mg/kg	---	0.32	2.6		<0.27	<0.29
Vanadium	mg/kg	---	25.2	550		15	25
Zinc	mg/kg	---	95	5100		71	65
pH			6.25	9		8.5	7.5

Comparison of Detected Constituents to MACs-PTB 174-009;Work Order:054A
Preliminary Site Investigation
FAP 112-IL Rte 53-IL Rte 7 to S/o Murphy Dr (PESA #2947V-8)
Romeoville, Will County, IL
Terracon Project No. 11187007V
Page 2 of 2

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2947V-8-B01 (0-5)	2947V-8-B03 (0-5)
				CCDD	Sample Depth (feet)	(0-5)	(0-5)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	10/15/2018	10/15/2018
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	---	---	---		0.056	0.86
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
Barium,TCLP	mg/L	---	---	---		0.29	0.42
Cadmium,TCLP	mg/L	---	---	---		0.0029	0.0021
Chromium,TCLP	mg/L	---	---	---		<0.010	<0.010
Lead,TCLP	mg/L	---	---	---		<0.0075	<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020	<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.020	<0.020
Silver,TCLP	mg/L	---	---	---		<0.010	<0.010
Antimony,TCLP	mg/L	---	---	---		<0.0060	<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040	<0.0040
Calcium,TCLP	mg/L	---	---	---		370	270
Cobalt,TCLP	mg/L	---	---	---		<0.010	<0.010
Copper,TCLP	mg/L	---	---	---		<0.010	<0.010
Cyanide,TCLP	mg/L	---	---	---		----	----
Iron,TCLP	mg/L	---	---	---		<0.20	<0.20
Magnesium,TCLP	mg/L	---	---	---		170	170
Manganese,TCLP	mg/L	---	---	---		0.91	0.34
Nickel,TCLP	mg/L	---	---	---		0.01	<0.010
Potassium,TCLP	mg/L	---	---	---		0.86	0.74
Sodium,TCLP	mg/L	---	---	---		----	----
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.010	<0.010
Zinc,TCLP	mg/L	---	---	---		<0.020	0.033

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-153168-1
Client Project/Site: IDOT - Romeoville - WO 054

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

Attn: Mr. Matthew Weiss



Authorized for release by:
10/26/2018 2:16:02 PM

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 - Romeoville - WO 054

TestAmerica Job ID: 500-153168-1

Job ID: 500-153168-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-153168-1

Receipt

The samples were received on 10/15/2018 4:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 5.6° C and 5.9° C.

GC/MS VOA

The laboratory control sample (LCS) for 455776 recovered outside control limits for the following analyte: Chloromethane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

The laboratory control sample duplicate (LCSD) for 455654 recovered outside control limits for the following analyte: Chloromethane. 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 method blank for preparation batch 500-455922 and analytical batch 500-456066 contained Benzo[a]pyrene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8270D: The following matrix spike/matrix spike duplicate (MS/MSD) recovered at 0% for 2 analytes: 2,4-Dinitrophenol and 4,6-Dinitro-2-methylphenol. Data has been qualified and reported.(500-153168-E-4-J MS) and (500-153168-E-4-K MSD)

Method(s) 8270D: The following samples contained one acid surrogate and/or one base surrogate outside acceptance limits: 2947V-8-B03 (0-5) (500-153168-1) and (500-153168-E-4-K MSD). 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: Two acid surrogate recoveries for the following sample was outside the upper control limit: 2947V-8-B01 (0-5) (500-153168-4). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

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

Metals

Method(s) 6010B: The method blank for preparation batch 500-455561 and analytical batch 500-455773 contained Copper above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

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

General Chemistry

Method(s) 9014: The laboratory control sample (LCS) for preparation batch 500-456326 and analytical batch 500-456561 recovered outside control limits for the following analyte: Cyanide. This analyte was biased high in the LCS but 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.

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 - Romeoville - WO 054

TestAmerica Job ID: 500-153168-1

Client Sample ID: 2947V-8-B03 (0-5)

Lab Sample ID: 500-153168-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	0.0079	J B	0.039	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.010	J	0.039	0.0084	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.011	J	0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.48	J B	1.2	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	11		0.59	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	46		0.59	0.067	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.60		0.24	0.055	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.14		0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.30	0.077	mg/Kg	1	☼	6010B	Total/NA
Copper	23	B	0.59	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	20000	B	12	6.1	mg/Kg	1	☼	6010B	Total/NA
Lead	16		0.30	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	10000	B	5.9	2.9	mg/Kg	1	☼	6010B	Total/NA
Calcium	13000	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	480		0.59	0.086	mg/Kg	1	☼	6010B	Total/NA
Nickel	29		0.59	0.17	mg/Kg	1	☼	6010B	Total/NA
Silver	0.31		0.30	0.076	mg/Kg	1	☼	6010B	Total/NA
Vanadium	25		0.30	0.070	mg/Kg	1	☼	6010B	Total/NA
Zinc	65	B	1.2	0.52	mg/Kg	1	☼	6010B	Total/NA
Potassium	1600		30	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	96		59	8.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.42	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0021	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	270		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	170		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.34		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.74	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.033	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.86		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.028		0.019	0.0063	mg/Kg	1	☼	7471B	Total/NA
pH	7.5		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2947V-8-B02 (0-5)

Lab Sample ID: 500-153168-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0079	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.016	J B	0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.023	J	0.038	0.0082	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.010	J	0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.014	J	0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.017	J	0.038	0.0099	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0062	J	0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.012	J	0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.57	J B	1.1	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.8		0.55	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	55		0.55	0.063	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.64		0.22	0.052	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.095	J	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-1

Client Sample ID: 2947V-8-B02 (0-5) (Continued)

Lab Sample ID: 500-153168-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	12		0.28	0.072	mg/Kg	1	☼	6010B	Total/NA
Copper	18	B	0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	11	5.7	mg/Kg	1	☼	6010B	Total/NA
Lead	17		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	14000	B	5.5	2.7	mg/Kg	1	☼	6010B	Total/NA
Calcium	20000	B	11	1.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	560		0.55	0.080	mg/Kg	1	☼	6010B	Total/NA
Nickel	25		0.55	0.16	mg/Kg	1	☼	6010B	Total/NA
Silver	0.30		0.28	0.071	mg/Kg	1	☼	6010B	Total/NA
Vanadium	25		0.28	0.065	mg/Kg	1	☼	6010B	Total/NA
Zinc	57	B	1.1	0.48	mg/Kg	1	☼	6010B	Total/NA
Potassium	1800		28	9.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	120		55	8.2	mg/Kg	1	☼	6010B	Total/NA
Barium	0.44	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0021	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	280		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	170		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.2		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.2	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.024	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.81		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.027		0.018	0.0060	mg/Kg	1	☼	7471B	Total/NA
pH	8.1		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2947V-8-B02 (0-5) Dup

Lab Sample ID: 500-153168-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.013	J	0.037	0.0050	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.029	J B	0.037	0.0071	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.041		0.037	0.0079	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.020	J	0.037	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.015	J	0.037	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.021	J	0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.012	J	0.037	0.0071	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.029	J	0.037	0.0068	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.025	J	0.037	0.0095	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.011	J	0.037	0.0051	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.022	J	0.037	0.0073	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.55	J B	1.2	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	11		0.58	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	76		0.58	0.067	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.56		0.23	0.055	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.19		0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Chromium	13		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.29	0.077	mg/Kg	1	☼	6010B	Total/NA
Copper	23	B	0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	19000	B	12	6.1	mg/Kg	1	☼	6010B	Total/NA
Lead	16		0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	22000	B	5.8	2.9	mg/Kg	1	☼	6010B	Total/NA
Calcium	33000	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-1

Client Sample ID: 2947V-8-B02 (0-5) Dup (Continued)

Lab Sample ID: 500-153168-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	840		0.58	0.085	mg/Kg	1	☼	6010B	Total/NA
Nickel	26		0.58	0.17	mg/Kg	1	☼	6010B	Total/NA
Silver	0.30		0.29	0.075	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.29	J	0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	24		0.29	0.069	mg/Kg	1	☼	6010B	Total/NA
Zinc	61	B	1.2	0.51	mg/Kg	1	☼	6010B	Total/NA
Potassium	1600		29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	120		58	8.6	mg/Kg	1	☼	6010B	Total/NA
Barium	0.43	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0028	J	0.0050	0.0020	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	0.38		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.5	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.092	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.48		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.021		0.019	0.0063	mg/Kg	1	☼	7471B	Total/NA
pH	8.3		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2947V-8-B01 (0-5)

Lab Sample ID: 500-153168-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	0.0079	J B	0.036	0.0070	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.012	J	0.036	0.0078	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.012	J	0.036	0.0093	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.56	J B	1.1	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	13		0.54	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	22		0.54	0.062	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.38		0.22	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.21		0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	8.7		0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.3		0.27	0.071	mg/Kg	1	☼	6010B	Total/NA
Copper	25	B	0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	24000	B	54	28	mg/Kg	5	☼	6010B	Total/NA
Lead	16		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	68000	B	27	13	mg/Kg	5	☼	6010B	Total/NA
Calcium	110000	B	54	9.2	mg/Kg	5	☼	6010B	Total/NA
Manganese	310		0.54	0.079	mg/Kg	1	☼	6010B	Total/NA
Nickel	18		0.54	0.16	mg/Kg	1	☼	6010B	Total/NA
Silver	0.16	J	0.27	0.070	mg/Kg	1	☼	6010B	Total/NA
Vanadium	15		0.27	0.064	mg/Kg	1	☼	6010B	Total/NA
Zinc	71	B	1.1	0.48	mg/Kg	1	☼	6010B	Total/NA
Potassium	1300		27	9.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	180		54	8.1	mg/Kg	1	☼	6010B	Total/NA
Barium	0.29	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0029	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	370		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	170		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.91		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.010	J	0.025	0.010	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-1

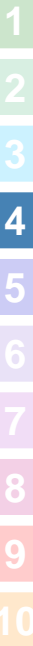
Client Sample ID: 2947V-8-B01 (0-5) (Continued)

Lab Sample ID: 500-153168-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	0.86	J	2.5	0.50	mg/L	1	—	6010B	TCLP
Manganese	0.056		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.017	J	0.018	0.0061	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.

TestAmerica Chicago



Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-153168-1	2947V-8-B03 (0-5)	Solid	10/15/18 09:20	10/15/18 16:40
500-153168-2	2947V-8-B02 (0-5)	Solid	10/15/18 09:45	10/15/18 16:40
500-153168-3	2947V-8-B02 (0-5) Dup	Solid	10/15/18 09:50	10/15/18 16:40
500-153168-4	2947V-8-B01 (0-5)	Solid	10/15/18 10:10	10/15/18 16:40

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-1

Client Sample ID: 2947V-8-B03 (0-5)

Lab Sample ID: 500-153168-1

Date Collected: 10/15/18 09:20

Matrix: Solid

Date Received: 10/15/18 16:40

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0076		0.017	0.0076	mg/Kg	☼	10/16/18 17:55	10/19/18 03:04	1
Benzene	<0.00045		0.0017	0.00045	mg/Kg	☼	10/16/18 17:55	10/19/18 03:04	1
Bromodichloromethane	<0.00036		0.0017	0.00036	mg/Kg	☼	10/16/18 17:55	10/19/18 03:04	1
Bromoform	<0.00051		0.0017	0.00051	mg/Kg	☼	10/16/18 17:55	10/19/18 03:04	1
Bromomethane	<0.0017		0.0044	0.0017	mg/Kg	☼	10/16/18 17:55	10/19/18 03:04	1
2-Butanone (MEK)	<0.0019		0.0044	0.0019	mg/Kg	☼	10/16/18 17:55	10/19/18 03:04	1
Carbon disulfide	<0.00091		0.0044	0.00091	mg/Kg	☼	10/16/18 17:55	10/19/18 03:04	1
Carbon tetrachloride	<0.00051		0.0017	0.00051	mg/Kg	☼	10/16/18 17:55	10/19/18 03:04	1
Chlorobenzene	<0.00065		0.0017	0.00065	mg/Kg	☼	10/16/18 17:55	10/19/18 03:04	1
Chloroethane	<0.0013		0.0044	0.0013	mg/Kg	☼	10/16/18 17:55	10/19/18 03:04	1
Chloroform	<0.00061		0.0017	0.00061	mg/Kg	☼	10/16/18 17:55	10/19/18 03:04	1
Chloromethane	<0.0018	*	0.0044	0.0018	mg/Kg	☼	10/16/18 17:55	10/19/18 03:04	1
cis-1,2-Dichloroethene	<0.00049		0.0017	0.00049	mg/Kg	☼	10/16/18 17:55	10/19/18 03:04	1
cis-1,3-Dichloropropene	<0.00053		0.0017	0.00053	mg/Kg	☼	10/16/18 17:55	10/19/18 03:04	1
Dibromochloromethane	<0.00057		0.0017	0.00057	mg/Kg	☼	10/16/18 17:55	10/19/18 03:04	1
1,1-Dichloroethane	<0.00060		0.0017	0.00060	mg/Kg	☼	10/16/18 17:55	10/19/18 03:04	1
1,2-Dichloroethane	<0.0014		0.0044	0.0014	mg/Kg	☼	10/16/18 17:55	10/19/18 03:04	1
1,1-Dichloroethene	<0.00060		0.0017	0.00060	mg/Kg	☼	10/16/18 17:55	10/19/18 03:04	1
1,2-Dichloropropane	<0.00045		0.0017	0.00045	mg/Kg	☼	10/16/18 17:55	10/19/18 03:04	1
1,3-Dichloropropane, Total	<0.00061		0.0017	0.00061	mg/Kg	☼	10/16/18 17:55	10/19/18 03:04	1
Ethylbenzene	<0.00084		0.0017	0.00084	mg/Kg	☼	10/16/18 17:55	10/19/18 03:04	1
2-Hexanone	<0.0014		0.0044	0.0014	mg/Kg	☼	10/16/18 17:55	10/19/18 03:04	1
Methylene Chloride	<0.0017		0.0044	0.0017	mg/Kg	☼	10/16/18 17:55	10/19/18 03:04	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0044	0.0013	mg/Kg	☼	10/16/18 17:55	10/19/18 03:04	1
Methyl tert-butyl ether	<0.00051		0.0017	0.00051	mg/Kg	☼	10/16/18 17:55	10/19/18 03:04	1
Styrene	<0.00053		0.0017	0.00053	mg/Kg	☼	10/16/18 17:55	10/19/18 03:04	1
1,1,2,2-Tetrachloroethane	<0.00056		0.0017	0.00056	mg/Kg	☼	10/16/18 17:55	10/19/18 03:04	1
Tetrachloroethene	<0.00060		0.0017	0.00060	mg/Kg	☼	10/16/18 17:55	10/19/18 03:04	1
Toluene	<0.00044		0.0017	0.00044	mg/Kg	☼	10/16/18 17:55	10/19/18 03:04	1
trans-1,2-Dichloroethene	<0.00077		0.0017	0.00077	mg/Kg	☼	10/16/18 17:55	10/19/18 03:04	1
trans-1,3-Dichloropropene	<0.00061		0.0017	0.00061	mg/Kg	☼	10/16/18 17:55	10/19/18 03:04	1
1,1,1-Trichloroethane	<0.00059		0.0017	0.00059	mg/Kg	☼	10/16/18 17:55	10/19/18 03:04	1
1,1,2-Trichloroethane	<0.00075		0.0017	0.00075	mg/Kg	☼	10/16/18 17:55	10/19/18 03:04	1
Trichloroethene	<0.00059		0.0017	0.00059	mg/Kg	☼	10/16/18 17:55	10/19/18 03:04	1
Vinyl acetate	<0.0015		0.0044	0.0015	mg/Kg	☼	10/16/18 17:55	10/19/18 03:04	1
Vinyl chloride	<0.00077		0.0017	0.00077	mg/Kg	☼	10/16/18 17:55	10/19/18 03:04	1
Xylenes, Total	<0.00056		0.0035	0.00056	mg/Kg	☼	10/16/18 17:55	10/19/18 03:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		75 - 131	10/16/18 17:55	10/19/18 03:04	1
Dibromofluoromethane	115		75 - 126	10/16/18 17:55	10/19/18 03:04	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	10/16/18 17:55	10/19/18 03:04	1
Toluene-d8 (Surr)	96		75 - 124	10/16/18 17:55	10/19/18 03:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0070		0.039	0.0070	mg/Kg	☼	10/19/18 22:40	10/22/18 14:24	1
Acenaphthylene	<0.0051		0.039	0.0051	mg/Kg	☼	10/19/18 22:40	10/22/18 14:24	1
Anthracene	<0.0065		0.039	0.0065	mg/Kg	☼	10/19/18 22:40	10/22/18 14:24	1
Benzo[a]anthracene	<0.0052		0.039	0.0052	mg/Kg	☼	10/19/18 22:40	10/22/18 14:24	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-1

Client Sample ID: 2947V-8-B03 (0-5)

Lab Sample ID: 500-153168-1

Date Collected: 10/15/18 09:20

Matrix: Solid

Date Received: 10/15/18 16:40

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.0079	J B	0.039	0.0075	mg/Kg	☼	10/19/18 22:40	10/22/18 14:24	1
Benzo[b]fluoranthene	0.010	J	0.039	0.0084	mg/Kg	☼	10/19/18 22:40	10/22/18 14:24	1
Benzo[g,h,i]perylene	<0.013		0.039	0.013	mg/Kg	☼	10/19/18 22:40	10/22/18 14:24	1
Benzo[k]fluoranthene	<0.011		0.039	0.011	mg/Kg	☼	10/19/18 22:40	10/22/18 14:24	1
Bis(2-chloroethoxy)methane	<0.040		0.20	0.040	mg/Kg	☼	10/19/18 22:40	10/22/18 14:24	1
Bis(2-chloroethyl)ether	<0.058		0.20	0.058	mg/Kg	☼	10/19/18 22:40	10/22/18 14:24	1
Bis(2-ethylhexyl) phthalate	<0.071		0.20	0.071	mg/Kg	☼	10/19/18 22:40	10/22/18 14:24	1
4-Bromophenyl phenyl ether	<0.051		0.20	0.051	mg/Kg	☼	10/19/18 22:40	10/22/18 14:24	1
Butyl benzyl phthalate	<0.074		0.20	0.074	mg/Kg	☼	10/19/18 22:40	10/22/18 14:24	1
Carbazole	<0.097		0.20	0.097	mg/Kg	☼	10/19/18 22:40	10/22/18 14:24	1
4-Chloroaniline	<0.18		0.79	0.18	mg/Kg	☼	10/19/18 22:40	10/22/18 14:24	1
4-Chloro-3-methylphenol	<0.13		0.39	0.13	mg/Kg	☼	10/19/18 22:40	10/22/18 14:24	1
2-Chloronaphthalene	<0.043		0.20	0.043	mg/Kg	☼	10/19/18 22:40	10/22/18 14:24	1
2-Chlorophenol	<0.067		0.20	0.067	mg/Kg	☼	10/19/18 22:40	10/22/18 14:24	1
4-Chlorophenyl phenyl ether	<0.046		0.20	0.046	mg/Kg	☼	10/19/18 22:40	10/22/18 14:24	1
Chrysene	<0.011		0.039	0.011	mg/Kg	☼	10/19/18 22:40	10/22/18 14:24	1
Dibenz(a,h)anthracene	<0.0075		0.039	0.0075	mg/Kg	☼	10/19/18 22:40	10/22/18 14:24	1
Dibenzofuran	<0.046		0.20	0.046	mg/Kg	☼	10/19/18 22:40	10/22/18 14:24	1
1,2-Dichlorobenzene	<0.047		0.20	0.047	mg/Kg	☼	10/19/18 22:40	10/22/18 14:24	1
1,3-Dichlorobenzene	<0.044		0.20	0.044	mg/Kg	☼	10/19/18 22:40	10/22/18 14:24	1
1,4-Dichlorobenzene	<0.050		0.20	0.050	mg/Kg	☼	10/19/18 22:40	10/22/18 14:24	1
3,3'-Dichlorobenzidine	<0.055		0.20	0.055	mg/Kg	☼	10/19/18 22:40	10/22/18 14:24	1
2,4-Dichlorophenol	<0.093		0.39	0.093	mg/Kg	☼	10/19/18 22:40	10/22/18 14:24	1
Diethyl phthalate	<0.066		0.20	0.066	mg/Kg	☼	10/19/18 22:40	10/22/18 14:24	1
2,4-Dimethylphenol	<0.15		0.39	0.15	mg/Kg	☼	10/19/18 22:40	10/22/18 14:24	1
Dimethyl phthalate	<0.051		0.20	0.051	mg/Kg	☼	10/19/18 22:40	10/22/18 14:24	1
Di-n-butyl phthalate	<0.059		0.20	0.059	mg/Kg	☼	10/19/18 22:40	10/22/18 14:24	1
4,6-Dinitro-2-methylphenol	<0.31		0.79	0.31	mg/Kg	☼	10/19/18 22:40	10/22/18 14:24	1
2,4-Dinitrophenol	<0.69		0.79	0.69	mg/Kg	☼	10/19/18 22:40	10/22/18 14:24	1
2,4-Dinitrotoluene	<0.062		0.20	0.062	mg/Kg	☼	10/19/18 22:40	10/22/18 14:24	1
2,6-Dinitrotoluene	<0.077		0.20	0.077	mg/Kg	☼	10/19/18 22:40	10/22/18 14:24	1
Di-n-octyl phthalate	<0.064		0.20	0.064	mg/Kg	☼	10/19/18 22:40	10/22/18 14:24	1
Fluoranthene	<0.0072		0.039	0.0072	mg/Kg	☼	10/19/18 22:40	10/22/18 14:24	1
Fluorene	<0.0055		0.039	0.0055	mg/Kg	☼	10/19/18 22:40	10/22/18 14:24	1
Hexachlorobenzene	<0.0090		0.079	0.0090	mg/Kg	☼	10/19/18 22:40	10/22/18 14:24	1
Hexachlorobutadiene	<0.061		0.20	0.061	mg/Kg	☼	10/19/18 22:40	10/22/18 14:24	1
Hexachlorocyclopentadiene	<0.22		0.79	0.22	mg/Kg	☼	10/19/18 22:40	10/22/18 14:24	1
Hexachloroethane	<0.059		0.20	0.059	mg/Kg	☼	10/19/18 22:40	10/22/18 14:24	1
Indeno[1,2,3-cd]pyrene	0.011	J	0.039	0.010	mg/Kg	☼	10/19/18 22:40	10/22/18 14:24	1
Isophorone	<0.044		0.20	0.044	mg/Kg	☼	10/19/18 22:40	10/22/18 14:24	1
2-Methylnaphthalene	<0.0072		0.079	0.0072	mg/Kg	☼	10/19/18 22:40	10/22/18 14:24	1
2-Methylphenol	<0.063		0.20	0.063	mg/Kg	☼	10/19/18 22:40	10/22/18 14:24	1
3 & 4 Methylphenol	<0.065		0.20	0.065	mg/Kg	☼	10/19/18 22:40	10/22/18 14:24	1
Naphthalene	<0.0060		0.039	0.0060	mg/Kg	☼	10/19/18 22:40	10/22/18 14:24	1
2-Nitroaniline	<0.052		0.20	0.052	mg/Kg	☼	10/19/18 22:40	10/22/18 14:24	1
3-Nitroaniline	<0.12		0.39	0.12	mg/Kg	☼	10/19/18 22:40	10/22/18 14:24	1
4-Nitroaniline	<0.16		0.39	0.16	mg/Kg	☼	10/19/18 22:40	10/22/18 14:24	1
Nitrobenzene	<0.0097		0.039	0.0097	mg/Kg	☼	10/19/18 22:40	10/22/18 14:24	1
2-Nitrophenol	<0.092		0.39	0.092	mg/Kg	☼	10/19/18 22:40	10/22/18 14:24	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-1

Client Sample ID: 2947V-8-B03 (0-5)

Lab Sample ID: 500-153168-1

Date Collected: 10/15/18 09:20

Matrix: Solid

Date Received: 10/15/18 16:40

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.37		0.79	0.37	mg/Kg	☼	10/19/18 22:40	10/22/18 14:24	1
N-Nitrosodi-n-propylamine	<0.048		0.079	0.048	mg/Kg	☼	10/19/18 22:40	10/22/18 14:24	1
N-Nitrosodiphenylamine	<0.046		0.20	0.046	mg/Kg	☼	10/19/18 22:40	10/22/18 14:24	1
2,2'-oxybis[1-chloropropane]	<0.045		0.20	0.045	mg/Kg	☼	10/19/18 22:40	10/22/18 14:24	1
Pentachlorophenol	<0.63		0.79	0.63	mg/Kg	☼	10/19/18 22:40	10/22/18 14:24	1
Phenanthrene	<0.0054		0.039	0.0054	mg/Kg	☼	10/19/18 22:40	10/22/18 14:24	1
Phenol	<0.087		0.20	0.087	mg/Kg	☼	10/19/18 22:40	10/22/18 14:24	1
Pyrene	<0.0077		0.039	0.0077	mg/Kg	☼	10/19/18 22:40	10/22/18 14:24	1
1,2,4-Trichlorobenzene	<0.042		0.20	0.042	mg/Kg	☼	10/19/18 22:40	10/22/18 14:24	1
2,4,5-Trichlorophenol	<0.089		0.39	0.089	mg/Kg	☼	10/19/18 22:40	10/22/18 14:24	1
2,4,6-Trichlorophenol	<0.13		0.39	0.13	mg/Kg	☼	10/19/18 22:40	10/22/18 14:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	108		44 - 121	10/19/18 22:40	10/22/18 14:24	1
2-Fluorophenol	128		46 - 133	10/19/18 22:40	10/22/18 14:24	1
Nitrobenzene-d5	154	X	41 - 120	10/19/18 22:40	10/22/18 14:24	1
Phenol-d5	122		46 - 125	10/19/18 22:40	10/22/18 14:24	1
Terphenyl-d14	104		35 - 160	10/19/18 22:40	10/22/18 14:24	1
2,4,6-Tribromophenol	111		25 - 139	10/19/18 22:40	10/22/18 14:24	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.48	J B	1.2	0.23	mg/Kg	☼	10/18/18 08:28	10/19/18 00:43	1
Arsenic	11		0.59	0.20	mg/Kg	☼	10/18/18 08:28	10/19/18 00:43	1
Barium	46		0.59	0.067	mg/Kg	☼	10/18/18 08:28	10/19/18 00:43	1
Beryllium	0.60		0.24	0.055	mg/Kg	☼	10/18/18 08:28	10/19/18 00:43	1
Cadmium	0.14		0.12	0.021	mg/Kg	☼	10/18/18 08:28	10/19/18 00:43	1
Chromium	15		0.59	0.29	mg/Kg	☼	10/18/18 08:28	10/19/18 00:43	1
Cobalt	13		0.30	0.077	mg/Kg	☼	10/18/18 08:28	10/19/18 00:43	1
Copper	23	B	0.59	0.17	mg/Kg	☼	10/18/18 08:28	10/19/18 00:43	1
Iron	20000	B	12	6.1	mg/Kg	☼	10/18/18 08:28	10/19/18 00:43	1
Lead	16		0.30	0.14	mg/Kg	☼	10/18/18 08:28	10/19/18 00:43	1
Magnesium	10000	B	5.9	2.9	mg/Kg	☼	10/18/18 08:28	10/19/18 00:43	1
Calcium	13000	B	12	2.0	mg/Kg	☼	10/18/18 08:28	10/19/18 00:43	1
Manganese	480		0.59	0.086	mg/Kg	☼	10/18/18 08:28	10/19/18 00:43	1
Nickel	29		0.59	0.17	mg/Kg	☼	10/18/18 08:28	10/19/18 00:43	1
Selenium	<0.35		0.59	0.35	mg/Kg	☼	10/18/18 08:28	10/19/18 00:43	1
Silver	0.31		0.30	0.076	mg/Kg	☼	10/18/18 08:28	10/19/18 00:43	1
Thallium	<0.29		0.59	0.29	mg/Kg	☼	10/18/18 08:28	10/19/18 00:43	1
Vanadium	25		0.30	0.070	mg/Kg	☼	10/18/18 08:28	10/19/18 00:43	1
Zinc	65	B	1.2	0.52	mg/Kg	☼	10/18/18 08:28	10/19/18 00:43	1
Potassium	1600		30	10	mg/Kg	☼	10/18/18 08:28	10/19/18 00:43	1
Sodium	96		59	8.7	mg/Kg	☼	10/18/18 08:28	10/19/18 00:43	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		10/18/18 15:08	10/19/18 19:04	1
Barium	0.42	J	0.50	0.050	mg/L		10/18/18 15:08	10/19/18 19:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/18/18 15:08	10/19/18 19:04	1
Cadmium	0.0021	J	0.0050	0.0020	mg/L		10/18/18 15:08	10/19/18 19:04	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-1

Client Sample ID: 2947V-8-B03 (0-5)

Lab Sample ID: 500-153168-1

Date Collected: 10/15/18 09:20

Matrix: Solid

Date Received: 10/15/18 16:40

Percent Solids: 83.6

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		10/18/18 15:08	10/19/18 19:04	1
Chromium	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:04	1
Cobalt	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:04	1
Copper	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:04	1
Iron	<0.20		0.40	0.20	mg/L		10/18/18 15:08	10/19/18 19:04	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/18/18 15:08	10/19/18 19:04	1
Magnesium	170		2.5	0.50	mg/L		10/18/18 15:08	10/19/18 19:04	1
Manganese	0.34		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:04	1
Nickel	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:04	1
Potassium	0.74 J		2.5	0.50	mg/L		10/18/18 15:08	10/19/18 19:04	1
Selenium	<0.020		0.050	0.020	mg/L		10/18/18 15:08	10/19/18 19:04	1
Silver	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:04	1
Vanadium	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:04	1
Zinc	0.033 J B		0.50	0.020	mg/L		10/18/18 15:08	10/19/18 19:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.86		0.025	0.010	mg/L		10/18/18 14:58	10/19/18 15:03	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		10/18/18 15:08	10/24/18 14:29	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/18/18 15:08	10/23/18 03:07	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		10/19/18 11:20	10/22/18 10:52	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.019	0.0063	mg/Kg	☼	10/18/18 16:20	10/19/18 10:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.15	*	0.45	0.15	mg/Kg	☼	10/23/18 14:50	10/24/18 09:17	1
pH	7.5		0.2	0.2	SU			10/22/18 15:48	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-1

Client Sample ID: 2947V-8-B02 (0-5)

Lab Sample ID: 500-153168-2

Date Collected: 10/15/18 09:45

Matrix: Solid

Date Received: 10/15/18 16:40

Percent Solids: 84.6

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	☼	10/16/18 17:55	10/19/18 13:55	1
Benzene	<0.00045		0.0018	0.00045	mg/Kg	☼	10/16/18 17:55	10/19/18 13:55	1
Bromodichloromethane	<0.00036		0.0018	0.00036	mg/Kg	☼	10/16/18 17:55	10/19/18 13:55	1
Bromoform	<0.00051		0.0018	0.00051	mg/Kg	☼	10/16/18 17:55	10/19/18 13:55	1
Bromomethane	<0.0017		0.0044	0.0017	mg/Kg	☼	10/16/18 17:55	10/19/18 13:55	1
2-Butanone (MEK)	<0.0020		0.0044	0.0020	mg/Kg	☼	10/16/18 17:55	10/19/18 13:55	1
Carbon disulfide	<0.00091		0.0044	0.00091	mg/Kg	☼	10/16/18 17:55	10/19/18 13:55	1
Carbon tetrachloride	<0.00051		0.0018	0.00051	mg/Kg	☼	10/16/18 17:55	10/19/18 13:55	1
Chlorobenzene	<0.00065		0.0018	0.00065	mg/Kg	☼	10/16/18 17:55	10/19/18 13:55	1
Chloroethane	<0.0013		0.0044	0.0013	mg/Kg	☼	10/16/18 17:55	10/19/18 13:55	1
Chloroform	<0.00061		0.0018	0.00061	mg/Kg	☼	10/16/18 17:55	10/19/18 13:55	1
Chloromethane	<0.0018	*	0.0044	0.0018	mg/Kg	☼	10/16/18 17:55	10/19/18 13:55	1
cis-1,2-Dichloroethene	<0.00049		0.0018	0.00049	mg/Kg	☼	10/16/18 17:55	10/19/18 13:55	1
cis-1,3-Dichloropropene	<0.00053		0.0018	0.00053	mg/Kg	☼	10/16/18 17:55	10/19/18 13:55	1
Dibromochloromethane	<0.00058		0.0018	0.00058	mg/Kg	☼	10/16/18 17:55	10/19/18 13:55	1
1,1-Dichloroethane	<0.00060		0.0018	0.00060	mg/Kg	☼	10/16/18 17:55	10/19/18 13:55	1
1,2-Dichloroethane	<0.0014		0.0044	0.0014	mg/Kg	☼	10/16/18 17:55	10/19/18 13:55	1
1,1-Dichloroethene	<0.00061		0.0018	0.00061	mg/Kg	☼	10/16/18 17:55	10/19/18 13:55	1
1,2-Dichloropropane	<0.00045		0.0018	0.00045	mg/Kg	☼	10/16/18 17:55	10/19/18 13:55	1
1,3-Dichloropropane, Total	<0.00062		0.0018	0.00062	mg/Kg	☼	10/16/18 17:55	10/19/18 13:55	1
Ethylbenzene	<0.00084		0.0018	0.00084	mg/Kg	☼	10/16/18 17:55	10/19/18 13:55	1
2-Hexanone	<0.0014		0.0044	0.0014	mg/Kg	☼	10/16/18 17:55	10/19/18 13:55	1
Methylene Chloride	<0.0017		0.0044	0.0017	mg/Kg	☼	10/16/18 17:55	10/19/18 13:55	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0044	0.0013	mg/Kg	☼	10/16/18 17:55	10/19/18 13:55	1
Methyl tert-butyl ether	<0.00052		0.0018	0.00052	mg/Kg	☼	10/16/18 17:55	10/19/18 13:55	1
Styrene	<0.00053		0.0018	0.00053	mg/Kg	☼	10/16/18 17:55	10/19/18 13:55	1
1,1,2,2-Tetrachloroethane	<0.00056		0.0018	0.00056	mg/Kg	☼	10/16/18 17:55	10/19/18 13:55	1
Tetrachloroethene	<0.00060		0.0018	0.00060	mg/Kg	☼	10/16/18 17:55	10/19/18 13:55	1
Toluene	<0.00044		0.0018	0.00044	mg/Kg	☼	10/16/18 17:55	10/19/18 13:55	1
trans-1,2-Dichloroethene	<0.00078		0.0018	0.00078	mg/Kg	☼	10/16/18 17:55	10/19/18 13:55	1
trans-1,3-Dichloropropene	<0.00062		0.0018	0.00062	mg/Kg	☼	10/16/18 17:55	10/19/18 13:55	1
1,1,1-Trichloroethane	<0.00059		0.0018	0.00059	mg/Kg	☼	10/16/18 17:55	10/19/18 13:55	1
1,1,2-Trichloroethane	<0.00075		0.0018	0.00075	mg/Kg	☼	10/16/18 17:55	10/19/18 13:55	1
Trichloroethene	<0.00059		0.0018	0.00059	mg/Kg	☼	10/16/18 17:55	10/19/18 13:55	1
Vinyl acetate	<0.0015		0.0044	0.0015	mg/Kg	☼	10/16/18 17:55	10/19/18 13:55	1
Vinyl chloride	<0.00078		0.0018	0.00078	mg/Kg	☼	10/16/18 17:55	10/19/18 13:55	1
Xylenes, Total	<0.00056		0.0035	0.00056	mg/Kg	☼	10/16/18 17:55	10/19/18 13:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		75 - 131	10/16/18 17:55	10/19/18 13:55	1
Dibromofluoromethane	110		75 - 126	10/16/18 17:55	10/19/18 13:55	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	10/16/18 17:55	10/19/18 13:55	1
Toluene-d8 (Surr)	97		75 - 124	10/16/18 17:55	10/19/18 13:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0068		0.038	0.0068	mg/Kg	☼	10/19/18 22:40	10/22/18 15:39	1
Acenaphthylene	<0.0050		0.038	0.0050	mg/Kg	☼	10/19/18 22:40	10/22/18 15:39	1
Anthracene	<0.0064		0.038	0.0064	mg/Kg	☼	10/19/18 22:40	10/22/18 15:39	1
Benzo[a]anthracene	0.0079	J	0.038	0.0051	mg/Kg	☼	10/19/18 22:40	10/22/18 15:39	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-1

Client Sample ID: 2947V-8-B02 (0-5)

Lab Sample ID: 500-153168-2

Date Collected: 10/15/18 09:45

Matrix: Solid

Date Received: 10/15/18 16:40

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.016	J B	0.038	0.0074	mg/Kg	☼	10/19/18 22:40	10/22/18 15:39	1
Benzo[b]fluoranthene	0.023	J	0.038	0.0082	mg/Kg	☼	10/19/18 22:40	10/22/18 15:39	1
Benzo[g,h,i]perylene	<0.012		0.038	0.012	mg/Kg	☼	10/19/18 22:40	10/22/18 15:39	1
Benzo[k]fluoranthene	<0.011		0.038	0.011	mg/Kg	☼	10/19/18 22:40	10/22/18 15:39	1
Bis(2-chloroethoxy)methane	<0.039		0.19	0.039	mg/Kg	☼	10/19/18 22:40	10/22/18 15:39	1
Bis(2-chloroethyl)ether	<0.057		0.19	0.057	mg/Kg	☼	10/19/18 22:40	10/22/18 15:39	1
Bis(2-ethylhexyl) phthalate	<0.070		0.19	0.070	mg/Kg	☼	10/19/18 22:40	10/22/18 15:39	1
4-Bromophenyl phenyl ether	<0.050		0.19	0.050	mg/Kg	☼	10/19/18 22:40	10/22/18 15:39	1
Butyl benzyl phthalate	<0.072		0.19	0.072	mg/Kg	☼	10/19/18 22:40	10/22/18 15:39	1
Carbazole	<0.095		0.19	0.095	mg/Kg	☼	10/19/18 22:40	10/22/18 15:39	1
4-Chloroaniline	<0.18		0.77	0.18	mg/Kg	☼	10/19/18 22:40	10/22/18 15:39	1
4-Chloro-3-methylphenol	<0.13		0.38	0.13	mg/Kg	☼	10/19/18 22:40	10/22/18 15:39	1
2-Chloronaphthalene	<0.042		0.19	0.042	mg/Kg	☼	10/19/18 22:40	10/22/18 15:39	1
2-Chlorophenol	<0.065		0.19	0.065	mg/Kg	☼	10/19/18 22:40	10/22/18 15:39	1
4-Chlorophenyl phenyl ether	<0.044		0.19	0.044	mg/Kg	☼	10/19/18 22:40	10/22/18 15:39	1
Chrysene	<0.010		0.038	0.010	mg/Kg	☼	10/19/18 22:40	10/22/18 15:39	1
Dibenz(a,h)anthracene	0.010	J	0.038	0.0074	mg/Kg	☼	10/19/18 22:40	10/22/18 15:39	1
Dibenzofuran	<0.045		0.19	0.045	mg/Kg	☼	10/19/18 22:40	10/22/18 15:39	1
1,2-Dichlorobenzene	<0.046		0.19	0.046	mg/Kg	☼	10/19/18 22:40	10/22/18 15:39	1
1,3-Dichlorobenzene	<0.043		0.19	0.043	mg/Kg	☼	10/19/18 22:40	10/22/18 15:39	1
1,4-Dichlorobenzene	<0.049		0.19	0.049	mg/Kg	☼	10/19/18 22:40	10/22/18 15:39	1
3,3'-Dichlorobenzidine	<0.053		0.19	0.053	mg/Kg	☼	10/19/18 22:40	10/22/18 15:39	1
2,4-Dichlorophenol	<0.090		0.38	0.090	mg/Kg	☼	10/19/18 22:40	10/22/18 15:39	1
Diethyl phthalate	<0.065		0.19	0.065	mg/Kg	☼	10/19/18 22:40	10/22/18 15:39	1
2,4-Dimethylphenol	<0.14		0.38	0.14	mg/Kg	☼	10/19/18 22:40	10/22/18 15:39	1
Dimethyl phthalate	<0.050		0.19	0.050	mg/Kg	☼	10/19/18 22:40	10/22/18 15:39	1
Di-n-butyl phthalate	<0.058		0.19	0.058	mg/Kg	☼	10/19/18 22:40	10/22/18 15:39	1
4,6-Dinitro-2-methylphenol	<0.31		0.77	0.31	mg/Kg	☼	10/19/18 22:40	10/22/18 15:39	1
2,4-Dinitrophenol	<0.67		0.77	0.67	mg/Kg	☼	10/19/18 22:40	10/22/18 15:39	1
2,4-Dinitrotoluene	<0.061		0.19	0.061	mg/Kg	☼	10/19/18 22:40	10/22/18 15:39	1
2,6-Dinitrotoluene	<0.075		0.19	0.075	mg/Kg	☼	10/19/18 22:40	10/22/18 15:39	1
Di-n-octyl phthalate	<0.062		0.19	0.062	mg/Kg	☼	10/19/18 22:40	10/22/18 15:39	1
Fluoranthene	0.014	J	0.038	0.0071	mg/Kg	☼	10/19/18 22:40	10/22/18 15:39	1
Fluorene	<0.0054		0.038	0.0054	mg/Kg	☼	10/19/18 22:40	10/22/18 15:39	1
Hexachlorobenzene	<0.0088		0.077	0.0088	mg/Kg	☼	10/19/18 22:40	10/22/18 15:39	1
Hexachlorobutadiene	<0.060		0.19	0.060	mg/Kg	☼	10/19/18 22:40	10/22/18 15:39	1
Hexachlorocyclopentadiene	<0.22		0.77	0.22	mg/Kg	☼	10/19/18 22:40	10/22/18 15:39	1
Hexachloroethane	<0.058		0.19	0.058	mg/Kg	☼	10/19/18 22:40	10/22/18 15:39	1
Indeno[1,2,3-cd]pyrene	0.017	J	0.038	0.0099	mg/Kg	☼	10/19/18 22:40	10/22/18 15:39	1
Isophorone	<0.043		0.19	0.043	mg/Kg	☼	10/19/18 22:40	10/22/18 15:39	1
2-Methylnaphthalene	<0.0070		0.077	0.0070	mg/Kg	☼	10/19/18 22:40	10/22/18 15:39	1
2-Methylphenol	<0.061		0.19	0.061	mg/Kg	☼	10/19/18 22:40	10/22/18 15:39	1
3 & 4 Methylphenol	<0.064		0.19	0.064	mg/Kg	☼	10/19/18 22:40	10/22/18 15:39	1
Naphthalene	<0.0059		0.038	0.0059	mg/Kg	☼	10/19/18 22:40	10/22/18 15:39	1
2-Nitroaniline	<0.051		0.19	0.051	mg/Kg	☼	10/19/18 22:40	10/22/18 15:39	1
3-Nitroaniline	<0.12		0.38	0.12	mg/Kg	☼	10/19/18 22:40	10/22/18 15:39	1
4-Nitroaniline	<0.16		0.38	0.16	mg/Kg	☼	10/19/18 22:40	10/22/18 15:39	1
Nitrobenzene	<0.0095		0.038	0.0095	mg/Kg	☼	10/19/18 22:40	10/22/18 15:39	1
2-Nitrophenol	<0.090		0.38	0.090	mg/Kg	☼	10/19/18 22:40	10/22/18 15:39	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-1

Client Sample ID: 2947V-8-B02 (0-5)

Lab Sample ID: 500-153168-2

Date Collected: 10/15/18 09:45

Matrix: Solid

Date Received: 10/15/18 16:40

Percent Solids: 84.6

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	☼	10/19/18 22:40	10/22/18 15:39	1
N-Nitrosodi-n-propylamine	<0.047		0.077	0.047	mg/Kg	☼	10/19/18 22:40	10/22/18 15:39	1
N-Nitrosodiphenylamine	<0.045		0.19	0.045	mg/Kg	☼	10/19/18 22:40	10/22/18 15:39	1
2,2'-oxybis[1-chloropropane]	<0.044		0.19	0.044	mg/Kg	☼	10/19/18 22:40	10/22/18 15:39	1
Pentachlorophenol	<0.61		0.77	0.61	mg/Kg	☼	10/19/18 22:40	10/22/18 15:39	1
Phenanthrene	0.0062	J	0.038	0.0053	mg/Kg	☼	10/19/18 22:40	10/22/18 15:39	1
Phenol	<0.085		0.19	0.085	mg/Kg	☼	10/19/18 22:40	10/22/18 15:39	1
Pyrene	0.012	J	0.038	0.0076	mg/Kg	☼	10/19/18 22:40	10/22/18 15:39	1
1,2,4-Trichlorobenzene	<0.041		0.19	0.041	mg/Kg	☼	10/19/18 22:40	10/22/18 15:39	1
2,4,5-Trichlorophenol	<0.087		0.38	0.087	mg/Kg	☼	10/19/18 22:40	10/22/18 15:39	1
2,4,6-Trichlorophenol	<0.13		0.38	0.13	mg/Kg	☼	10/19/18 22:40	10/22/18 15:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	105		44 - 121	10/19/18 22:40	10/22/18 15:39	1
2-Fluorophenol	119		46 - 133	10/19/18 22:40	10/22/18 15:39	1
Nitrobenzene-d5	87		41 - 120	10/19/18 22:40	10/22/18 15:39	1
Phenol-d5	118		46 - 125	10/19/18 22:40	10/22/18 15:39	1
Terphenyl-d14	105		35 - 160	10/19/18 22:40	10/22/18 15:39	1
2,4,6-Tribromophenol	93		25 - 139	10/19/18 22:40	10/22/18 15:39	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.57	J B	1.1	0.21	mg/Kg	☼	10/18/18 08:28	10/19/18 00:47	1
Arsenic	8.8		0.55	0.19	mg/Kg	☼	10/18/18 08:28	10/19/18 00:47	1
Barium	55		0.55	0.063	mg/Kg	☼	10/18/18 08:28	10/19/18 00:47	1
Beryllium	0.64		0.22	0.052	mg/Kg	☼	10/18/18 08:28	10/19/18 00:47	1
Cadmium	0.095	J	0.11	0.020	mg/Kg	☼	10/18/18 08:28	10/19/18 00:47	1
Chromium	15		0.55	0.27	mg/Kg	☼	10/18/18 08:28	10/19/18 00:47	1
Cobalt	12		0.28	0.072	mg/Kg	☼	10/18/18 08:28	10/19/18 00:47	1
Copper	18	B	0.55	0.15	mg/Kg	☼	10/18/18 08:28	10/19/18 00:47	1
Iron	18000	B	11	5.7	mg/Kg	☼	10/18/18 08:28	10/19/18 00:47	1
Lead	17		0.28	0.13	mg/Kg	☼	10/18/18 08:28	10/19/18 00:47	1
Magnesium	14000	B	5.5	2.7	mg/Kg	☼	10/18/18 08:28	10/19/18 00:47	1
Calcium	20000	B	11	1.9	mg/Kg	☼	10/18/18 08:28	10/19/18 00:47	1
Manganese	560		0.55	0.080	mg/Kg	☼	10/18/18 08:28	10/19/18 00:47	1
Nickel	25		0.55	0.16	mg/Kg	☼	10/18/18 08:28	10/19/18 00:47	1
Selenium	<0.32		0.55	0.32	mg/Kg	☼	10/18/18 08:28	10/19/18 00:47	1
Silver	0.30		0.28	0.071	mg/Kg	☼	10/18/18 08:28	10/19/18 00:47	1
Thallium	<0.28		0.55	0.28	mg/Kg	☼	10/18/18 08:28	10/19/18 00:47	1
Vanadium	25		0.28	0.065	mg/Kg	☼	10/18/18 08:28	10/19/18 00:47	1
Zinc	57	B	1.1	0.48	mg/Kg	☼	10/18/18 08:28	10/19/18 00:47	1
Potassium	1800		28	9.8	mg/Kg	☼	10/18/18 08:28	10/19/18 00:47	1
Sodium	120		55	8.2	mg/Kg	☼	10/18/18 08:28	10/19/18 00:47	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		10/18/18 15:08	10/19/18 19:08	1
Barium	0.44	J	0.50	0.050	mg/L		10/18/18 15:08	10/19/18 19:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/18/18 15:08	10/19/18 19:08	1
Cadmium	0.0021	J	0.0050	0.0020	mg/L		10/18/18 15:08	10/19/18 19:08	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-1

Client Sample ID: 2947V-8-B02 (0-5)

Lab Sample ID: 500-153168-2

Date Collected: 10/15/18 09:45

Matrix: Solid

Date Received: 10/15/18 16:40

Percent Solids: 84.6

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		10/18/18 15:08	10/19/18 19:08	1
Chromium	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:08	1
Cobalt	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:08	1
Copper	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:08	1
Iron	<0.20		0.40	0.20	mg/L		10/18/18 15:08	10/19/18 19:08	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/18/18 15:08	10/19/18 19:08	1
Magnesium	170		2.5	0.50	mg/L		10/18/18 15:08	10/19/18 19:08	1
Manganese	1.2		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:08	1
Nickel	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:08	1
Potassium	1.2 J		2.5	0.50	mg/L		10/18/18 15:08	10/19/18 19:08	1
Selenium	<0.020		0.050	0.020	mg/L		10/18/18 15:08	10/19/18 19:08	1
Silver	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:08	1
Vanadium	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:08	1
Zinc	0.024 J B		0.50	0.020	mg/L		10/18/18 15:08	10/19/18 19:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.81		0.025	0.010	mg/L		10/18/18 14:58	10/19/18 15:07	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		10/18/18 15:08	10/24/18 14:33	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/18/18 15:08	10/23/18 03:10	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		10/19/18 11:20	10/22/18 10:54	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.018	0.0060	mg/Kg	☼	10/18/18 16:20	10/19/18 10:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.20	*	0.57	0.20	mg/Kg	☼	10/23/18 14:50	10/24/18 09:18	1
pH	8.1		0.2	0.2	SU			10/22/18 17:23	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-1

Client Sample ID: 2947V-8-B02 (0-5) Dup

Lab Sample ID: 500-153168-3

Date Collected: 10/15/18 09:50

Matrix: Solid

Date Received: 10/15/18 16:40

Percent Solids: 85.2

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	☼	10/16/18 17:55	10/19/18 03:55	1
Benzene	<0.00046		0.0018	0.00046	mg/Kg	☼	10/16/18 17:55	10/19/18 03:55	1
Bromodichloromethane	<0.00037		0.0018	0.00037	mg/Kg	☼	10/16/18 17:55	10/19/18 03:55	1
Bromoform	<0.00053		0.0018	0.00053	mg/Kg	☼	10/16/18 17:55	10/19/18 03:55	1
Bromomethane	<0.0017		0.0046	0.0017	mg/Kg	☼	10/16/18 17:55	10/19/18 03:55	1
2-Butanone (MEK)	<0.0020		0.0046	0.0020	mg/Kg	☼	10/16/18 17:55	10/19/18 03:55	1
Carbon disulfide	<0.00095		0.0046	0.00095	mg/Kg	☼	10/16/18 17:55	10/19/18 03:55	1
Carbon tetrachloride	<0.00053		0.0018	0.00053	mg/Kg	☼	10/16/18 17:55	10/19/18 03:55	1
Chlorobenzene	<0.00067		0.0018	0.00067	mg/Kg	☼	10/16/18 17:55	10/19/18 03:55	1
Chloroethane	<0.0013		0.0046	0.0013	mg/Kg	☼	10/16/18 17:55	10/19/18 03:55	1
Chloroform	<0.00063		0.0018	0.00063	mg/Kg	☼	10/16/18 17:55	10/19/18 03:55	1
Chloromethane	<0.0018	*	0.0046	0.0018	mg/Kg	☼	10/16/18 17:55	10/19/18 03:55	1
cis-1,2-Dichloroethene	<0.00051		0.0018	0.00051	mg/Kg	☼	10/16/18 17:55	10/19/18 03:55	1
cis-1,3-Dichloropropene	<0.00055		0.0018	0.00055	mg/Kg	☼	10/16/18 17:55	10/19/18 03:55	1
Dibromochloromethane	<0.00060		0.0018	0.00060	mg/Kg	☼	10/16/18 17:55	10/19/18 03:55	1
1,1-Dichloroethane	<0.00062		0.0018	0.00062	mg/Kg	☼	10/16/18 17:55	10/19/18 03:55	1
1,2-Dichloroethane	<0.0014		0.0046	0.0014	mg/Kg	☼	10/16/18 17:55	10/19/18 03:55	1
1,1-Dichloroethene	<0.00063		0.0018	0.00063	mg/Kg	☼	10/16/18 17:55	10/19/18 03:55	1
1,2-Dichloropropane	<0.00047		0.0018	0.00047	mg/Kg	☼	10/16/18 17:55	10/19/18 03:55	1
1,3-Dichloropropane, Total	<0.00064		0.0018	0.00064	mg/Kg	☼	10/16/18 17:55	10/19/18 03:55	1
Ethylbenzene	<0.00087		0.0018	0.00087	mg/Kg	☼	10/16/18 17:55	10/19/18 03:55	1
2-Hexanone	<0.0014		0.0046	0.0014	mg/Kg	☼	10/16/18 17:55	10/19/18 03:55	1
Methylene Chloride	<0.0018		0.0046	0.0018	mg/Kg	☼	10/16/18 17:55	10/19/18 03:55	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0046	0.0013	mg/Kg	☼	10/16/18 17:55	10/19/18 03:55	1
Methyl tert-butyl ether	<0.00053		0.0018	0.00053	mg/Kg	☼	10/16/18 17:55	10/19/18 03:55	1
Styrene	<0.00055		0.0018	0.00055	mg/Kg	☼	10/16/18 17:55	10/19/18 03:55	1
1,1,2,2-Tetrachloroethane	<0.00058		0.0018	0.00058	mg/Kg	☼	10/16/18 17:55	10/19/18 03:55	1
Tetrachloroethene	<0.00062		0.0018	0.00062	mg/Kg	☼	10/16/18 17:55	10/19/18 03:55	1
Toluene	<0.00046		0.0018	0.00046	mg/Kg	☼	10/16/18 17:55	10/19/18 03:55	1
trans-1,2-Dichloroethene	<0.00081		0.0018	0.00081	mg/Kg	☼	10/16/18 17:55	10/19/18 03:55	1
trans-1,3-Dichloropropene	<0.00064		0.0018	0.00064	mg/Kg	☼	10/16/18 17:55	10/19/18 03:55	1
1,1,1-Trichloroethane	<0.00061		0.0018	0.00061	mg/Kg	☼	10/16/18 17:55	10/19/18 03:55	1
1,1,2-Trichloroethane	<0.00078		0.0018	0.00078	mg/Kg	☼	10/16/18 17:55	10/19/18 03:55	1
Trichloroethene	<0.00062		0.0018	0.00062	mg/Kg	☼	10/16/18 17:55	10/19/18 03:55	1
Vinyl acetate	<0.0016		0.0046	0.0016	mg/Kg	☼	10/16/18 17:55	10/19/18 03:55	1
Vinyl chloride	<0.00081		0.0018	0.00081	mg/Kg	☼	10/16/18 17:55	10/19/18 03:55	1
Xylenes, Total	<0.00058		0.0036	0.00058	mg/Kg	☼	10/16/18 17:55	10/19/18 03:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		75 - 131	10/16/18 17:55	10/19/18 03:55	1
Dibromofluoromethane	113		75 - 126	10/16/18 17:55	10/19/18 03:55	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	10/16/18 17:55	10/19/18 03:55	1
Toluene-d8 (Surr)	97		75 - 124	10/16/18 17:55	10/19/18 03:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0066		0.037	0.0066	mg/Kg	☼	10/19/18 22:40	10/22/18 16:03	1
Acenaphthylene	<0.0049		0.037	0.0049	mg/Kg	☼	10/19/18 22:40	10/22/18 16:03	1
Anthracene	<0.0062		0.037	0.0062	mg/Kg	☼	10/19/18 22:40	10/22/18 16:03	1
Benzo[a]anthracene	0.013	J	0.037	0.0050	mg/Kg	☼	10/19/18 22:40	10/22/18 16:03	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-1

Client Sample ID: 2947V-8-B02 (0-5) Dup

Lab Sample ID: 500-153168-3

Date Collected: 10/15/18 09:50

Matrix: Solid

Date Received: 10/15/18 16:40

Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.029	J B	0.037	0.0071	mg/Kg	☼	10/19/18 22:40	10/22/18 16:03	1
Benzo[b]fluoranthene	0.041		0.037	0.0079	mg/Kg	☼	10/19/18 22:40	10/22/18 16:03	1
Benzo[g,h,i]perylene	0.020	J	0.037	0.012	mg/Kg	☼	10/19/18 22:40	10/22/18 16:03	1
Benzo[k]fluoranthene	0.015	J	0.037	0.011	mg/Kg	☼	10/19/18 22:40	10/22/18 16:03	1
Bis(2-chloroethoxy)methane	<0.038		0.19	0.038	mg/Kg	☼	10/19/18 22:40	10/22/18 16:03	1
Bis(2-chloroethyl)ether	<0.055		0.19	0.055	mg/Kg	☼	10/19/18 22:40	10/22/18 16:03	1
Bis(2-ethylhexyl) phthalate	<0.067		0.19	0.067	mg/Kg	☼	10/19/18 22:40	10/22/18 16:03	1
4-Bromophenyl phenyl ether	<0.049		0.19	0.049	mg/Kg	☼	10/19/18 22:40	10/22/18 16:03	1
Butyl benzyl phthalate	<0.070		0.19	0.070	mg/Kg	☼	10/19/18 22:40	10/22/18 16:03	1
Carbazole	<0.092		0.19	0.092	mg/Kg	☼	10/19/18 22:40	10/22/18 16:03	1
4-Chloroaniline	<0.17		0.74	0.17	mg/Kg	☼	10/19/18 22:40	10/22/18 16:03	1
4-Chloro-3-methylphenol	<0.13		0.37	0.13	mg/Kg	☼	10/19/18 22:40	10/22/18 16:03	1
2-Chloronaphthalene	<0.041		0.19	0.041	mg/Kg	☼	10/19/18 22:40	10/22/18 16:03	1
2-Chlorophenol	<0.063		0.19	0.063	mg/Kg	☼	10/19/18 22:40	10/22/18 16:03	1
4-Chlorophenyl phenyl ether	<0.043		0.19	0.043	mg/Kg	☼	10/19/18 22:40	10/22/18 16:03	1
Chrysene	0.021	J	0.037	0.010	mg/Kg	☼	10/19/18 22:40	10/22/18 16:03	1
Dibenz(a,h)anthracene	0.012	J	0.037	0.0071	mg/Kg	☼	10/19/18 22:40	10/22/18 16:03	1
Dibenzofuran	<0.043		0.19	0.043	mg/Kg	☼	10/19/18 22:40	10/22/18 16:03	1
1,2-Dichlorobenzene	<0.044		0.19	0.044	mg/Kg	☼	10/19/18 22:40	10/22/18 16:03	1
1,3-Dichlorobenzene	<0.041		0.19	0.041	mg/Kg	☼	10/19/18 22:40	10/22/18 16:03	1
1,4-Dichlorobenzene	<0.047		0.19	0.047	mg/Kg	☼	10/19/18 22:40	10/22/18 16:03	1
3,3'-Dichlorobenzidine	<0.052		0.19	0.052	mg/Kg	☼	10/19/18 22:40	10/22/18 16:03	1
2,4-Dichlorophenol	<0.087		0.37	0.087	mg/Kg	☼	10/19/18 22:40	10/22/18 16:03	1
Diethyl phthalate	<0.062		0.19	0.062	mg/Kg	☼	10/19/18 22:40	10/22/18 16:03	1
2,4-Dimethylphenol	<0.14		0.37	0.14	mg/Kg	☼	10/19/18 22:40	10/22/18 16:03	1
Dimethyl phthalate	<0.048		0.19	0.048	mg/Kg	☼	10/19/18 22:40	10/22/18 16:03	1
Di-n-butyl phthalate	<0.056		0.19	0.056	mg/Kg	☼	10/19/18 22:40	10/22/18 16:03	1
4,6-Dinitro-2-methylphenol	<0.30		0.74	0.30	mg/Kg	☼	10/19/18 22:40	10/22/18 16:03	1
2,4-Dinitrophenol	<0.65		0.74	0.65	mg/Kg	☼	10/19/18 22:40	10/22/18 16:03	1
2,4-Dinitrotoluene	<0.059		0.19	0.059	mg/Kg	☼	10/19/18 22:40	10/22/18 16:03	1
2,6-Dinitrotoluene	<0.072		0.19	0.072	mg/Kg	☼	10/19/18 22:40	10/22/18 16:03	1
Di-n-octyl phthalate	<0.060		0.19	0.060	mg/Kg	☼	10/19/18 22:40	10/22/18 16:03	1
Fluoranthene	0.029	J	0.037	0.0068	mg/Kg	☼	10/19/18 22:40	10/22/18 16:03	1
Fluorene	<0.0052		0.037	0.0052	mg/Kg	☼	10/19/18 22:40	10/22/18 16:03	1
Hexachlorobenzene	<0.0085		0.074	0.0085	mg/Kg	☼	10/19/18 22:40	10/22/18 16:03	1
Hexachlorobutadiene	<0.058		0.19	0.058	mg/Kg	☼	10/19/18 22:40	10/22/18 16:03	1
Hexachlorocyclopentadiene	<0.21		0.74	0.21	mg/Kg	☼	10/19/18 22:40	10/22/18 16:03	1
Hexachloroethane	<0.056		0.19	0.056	mg/Kg	☼	10/19/18 22:40	10/22/18 16:03	1
Indeno[1,2,3-cd]pyrene	0.025	J	0.037	0.0095	mg/Kg	☼	10/19/18 22:40	10/22/18 16:03	1
Isophorone	<0.041		0.19	0.041	mg/Kg	☼	10/19/18 22:40	10/22/18 16:03	1
2-Methylnaphthalene	<0.0068		0.074	0.0068	mg/Kg	☼	10/19/18 22:40	10/22/18 16:03	1
2-Methylphenol	<0.059		0.19	0.059	mg/Kg	☼	10/19/18 22:40	10/22/18 16:03	1
3 & 4 Methylphenol	<0.061		0.19	0.061	mg/Kg	☼	10/19/18 22:40	10/22/18 16:03	1
Naphthalene	<0.0057		0.037	0.0057	mg/Kg	☼	10/19/18 22:40	10/22/18 16:03	1
2-Nitroaniline	<0.050		0.19	0.050	mg/Kg	☼	10/19/18 22:40	10/22/18 16:03	1
3-Nitroaniline	<0.11		0.37	0.11	mg/Kg	☼	10/19/18 22:40	10/22/18 16:03	1
4-Nitroaniline	<0.15		0.37	0.15	mg/Kg	☼	10/19/18 22:40	10/22/18 16:03	1
Nitrobenzene	<0.0092		0.037	0.0092	mg/Kg	☼	10/19/18 22:40	10/22/18 16:03	1
2-Nitrophenol	<0.087		0.37	0.087	mg/Kg	☼	10/19/18 22:40	10/22/18 16:03	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-1

Client Sample ID: 2947V-8-B02 (0-5) Dup

Lab Sample ID: 500-153168-3

Date Collected: 10/15/18 09:50

Matrix: Solid

Date Received: 10/15/18 16:40

Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.35		0.74	0.35	mg/Kg	☼	10/19/18 22:40	10/22/18 16:03	1
N-Nitrosodi-n-propylamine	<0.045		0.074	0.045	mg/Kg	☼	10/19/18 22:40	10/22/18 16:03	1
N-Nitrosodiphenylamine	<0.043		0.19	0.043	mg/Kg	☼	10/19/18 22:40	10/22/18 16:03	1
2,2'-oxybis[1-chloropropane]	<0.043		0.19	0.043	mg/Kg	☼	10/19/18 22:40	10/22/18 16:03	1
Pentachlorophenol	<0.59		0.74	0.59	mg/Kg	☼	10/19/18 22:40	10/22/18 16:03	1
Phenanthrene	0.011	J	0.037	0.0051	mg/Kg	☼	10/19/18 22:40	10/22/18 16:03	1
Phenol	<0.082		0.19	0.082	mg/Kg	☼	10/19/18 22:40	10/22/18 16:03	1
Pyrene	0.022	J	0.037	0.0073	mg/Kg	☼	10/19/18 22:40	10/22/18 16:03	1
1,2,4-Trichlorobenzene	<0.040		0.19	0.040	mg/Kg	☼	10/19/18 22:40	10/22/18 16:03	1
2,4,5-Trichlorophenol	<0.084		0.37	0.084	mg/Kg	☼	10/19/18 22:40	10/22/18 16:03	1
2,4,6-Trichlorophenol	<0.13		0.37	0.13	mg/Kg	☼	10/19/18 22:40	10/22/18 16:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	94		44 - 121	10/19/18 22:40	10/22/18 16:03	1
2-Fluorophenol	110		46 - 133	10/19/18 22:40	10/22/18 16:03	1
Nitrobenzene-d5	60		41 - 120	10/19/18 22:40	10/22/18 16:03	1
Phenol-d5	107		46 - 125	10/19/18 22:40	10/22/18 16:03	1
Terphenyl-d14	90		35 - 160	10/19/18 22:40	10/22/18 16:03	1
2,4,6-Tribromophenol	71		25 - 139	10/19/18 22:40	10/22/18 16:03	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.55	J B	1.2	0.23	mg/Kg	☼	10/18/18 08:28	10/19/18 00:51	1
Arsenic	11		0.58	0.20	mg/Kg	☼	10/18/18 08:28	10/19/18 00:51	1
Barium	76		0.58	0.067	mg/Kg	☼	10/18/18 08:28	10/19/18 00:51	1
Beryllium	0.56		0.23	0.055	mg/Kg	☼	10/18/18 08:28	10/19/18 00:51	1
Cadmium	0.19		0.12	0.021	mg/Kg	☼	10/18/18 08:28	10/19/18 00:51	1
Chromium	13		0.58	0.29	mg/Kg	☼	10/18/18 08:28	10/19/18 00:51	1
Cobalt	13		0.29	0.077	mg/Kg	☼	10/18/18 08:28	10/19/18 00:51	1
Copper	23	B	0.58	0.16	mg/Kg	☼	10/18/18 08:28	10/19/18 00:51	1
Iron	19000	B	12	6.1	mg/Kg	☼	10/18/18 08:28	10/19/18 00:51	1
Lead	16		0.29	0.13	mg/Kg	☼	10/18/18 08:28	10/19/18 00:51	1
Magnesium	22000	B	5.8	2.9	mg/Kg	☼	10/18/18 08:28	10/19/18 00:51	1
Calcium	33000	B	12	2.0	mg/Kg	☼	10/18/18 08:28	10/19/18 00:51	1
Manganese	840		0.58	0.085	mg/Kg	☼	10/18/18 08:28	10/19/18 00:51	1
Nickel	26		0.58	0.17	mg/Kg	☼	10/18/18 08:28	10/19/18 00:51	1
Selenium	<0.34		0.58	0.34	mg/Kg	☼	10/18/18 08:28	10/19/18 00:51	1
Silver	0.30		0.29	0.075	mg/Kg	☼	10/18/18 08:28	10/19/18 00:51	1
Thallium	0.29	J	0.58	0.29	mg/Kg	☼	10/18/18 08:28	10/19/18 00:51	1
Vanadium	24		0.29	0.069	mg/Kg	☼	10/18/18 08:28	10/19/18 00:51	1
Zinc	61	B	1.2	0.51	mg/Kg	☼	10/18/18 08:28	10/19/18 00:51	1
Potassium	1600		29	10	mg/Kg	☼	10/18/18 08:28	10/19/18 00:51	1
Sodium	120		58	8.6	mg/Kg	☼	10/18/18 08:28	10/19/18 00:51	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		10/18/18 15:08	10/19/18 19:12	1
Barium	0.43	J	0.50	0.050	mg/L		10/18/18 15:08	10/19/18 19:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/18/18 15:08	10/19/18 19:12	1
Cadmium	0.0028	J	0.0050	0.0020	mg/L		10/18/18 15:08	10/19/18 19:12	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-1

Client Sample ID: 2947V-8-B02 (0-5) Dup

Lab Sample ID: 500-153168-3

Date Collected: 10/15/18 09:50

Matrix: Solid

Date Received: 10/15/18 16:40

Percent Solids: 85.2

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		10/18/18 15:08	10/19/18 19:12	1
Chromium	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:12	1
Cobalt	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:12	1
Copper	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:12	1
Iron	<0.20		0.40	0.20	mg/L		10/18/18 15:08	10/19/18 19:12	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/18/18 15:08	10/19/18 19:12	1
Magnesium	170		2.5	0.50	mg/L		10/18/18 15:08	10/19/18 19:12	1
Manganese	0.38		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:12	1
Nickel	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:12	1
Potassium	1.5 J		2.5	0.50	mg/L		10/18/18 15:08	10/19/18 19:12	1
Selenium	<0.020		0.050	0.020	mg/L		10/18/18 15:08	10/19/18 19:12	1
Silver	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:12	1
Vanadium	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:12	1
Zinc	0.092 J B		0.50	0.020	mg/L		10/18/18 15:08	10/19/18 19:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.48		0.025	0.010	mg/L		10/18/18 14:58	10/19/18 15:11	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		10/18/18 15:08	10/24/18 14:37	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/18/18 15:08	10/23/18 03:14	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		10/19/18 11:20	10/22/18 10:56	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.019	0.0063	mg/Kg	☼	10/18/18 16:20	10/19/18 10:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.16	*	0.48	0.16	mg/Kg	☼	10/23/18 14:50	10/24/18 09:19	1
pH	8.3		0.2	0.2	SU			10/22/18 17:23	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-1

Client Sample ID: 2947V-8-B01 (0-5)

Lab Sample ID: 500-153168-4

Date Collected: 10/15/18 10:10

Matrix: Solid

Date Received: 10/15/18 16:40

Percent Solids: 89.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0067		0.015	0.0067	mg/Kg	☼	10/16/18 17:55	10/19/18 04:21	1
Benzene	<0.00039		0.0015	0.00039	mg/Kg	☼	10/16/18 17:55	10/19/18 04:21	1
Bromodichloromethane	<0.00032		0.0015	0.00032	mg/Kg	☼	10/16/18 17:55	10/19/18 04:21	1
Bromoform	<0.00045		0.0015	0.00045	mg/Kg	☼	10/16/18 17:55	10/19/18 04:21	1
Bromomethane	<0.0015		0.0039	0.0015	mg/Kg	☼	10/16/18 17:55	10/19/18 04:21	1
2-Butanone (MEK)	<0.0017		0.0039	0.0017	mg/Kg	☼	10/16/18 17:55	10/19/18 04:21	1
Carbon disulfide	<0.00080		0.0039	0.00080	mg/Kg	☼	10/16/18 17:55	10/19/18 04:21	1
Carbon tetrachloride	<0.00045		0.0015	0.00045	mg/Kg	☼	10/16/18 17:55	10/19/18 04:21	1
Chlorobenzene	<0.00057		0.0015	0.00057	mg/Kg	☼	10/16/18 17:55	10/19/18 04:21	1
Chloroethane	<0.0011		0.0039	0.0011	mg/Kg	☼	10/16/18 17:55	10/19/18 04:21	1
Chloroform	<0.00054		0.0015	0.00054	mg/Kg	☼	10/16/18 17:55	10/19/18 04:21	1
Chloromethane	<0.0016	*	0.0039	0.0016	mg/Kg	☼	10/16/18 17:55	10/19/18 04:21	1
cis-1,2-Dichloroethene	<0.00043		0.0015	0.00043	mg/Kg	☼	10/16/18 17:55	10/19/18 04:21	1
cis-1,3-Dichloropropene	<0.00047		0.0015	0.00047	mg/Kg	☼	10/16/18 17:55	10/19/18 04:21	1
Dibromochloromethane	<0.00051		0.0015	0.00051	mg/Kg	☼	10/16/18 17:55	10/19/18 04:21	1
1,1-Dichloroethane	<0.00053		0.0015	0.00053	mg/Kg	☼	10/16/18 17:55	10/19/18 04:21	1
1,2-Dichloroethane	<0.0012		0.0039	0.0012	mg/Kg	☼	10/16/18 17:55	10/19/18 04:21	1
1,1-Dichloroethene	<0.00053		0.0015	0.00053	mg/Kg	☼	10/16/18 17:55	10/19/18 04:21	1
1,2-Dichloropropane	<0.00040		0.0015	0.00040	mg/Kg	☼	10/16/18 17:55	10/19/18 04:21	1
1,3-Dichloropropane, Total	<0.00054		0.0015	0.00054	mg/Kg	☼	10/16/18 17:55	10/19/18 04:21	1
Ethylbenzene	<0.00074		0.0015	0.00074	mg/Kg	☼	10/16/18 17:55	10/19/18 04:21	1
2-Hexanone	<0.0012		0.0039	0.0012	mg/Kg	☼	10/16/18 17:55	10/19/18 04:21	1
Methylene Chloride	<0.0015		0.0039	0.0015	mg/Kg	☼	10/16/18 17:55	10/19/18 04:21	1
4-Methyl-2-pentanone (MIBK)	<0.0011		0.0039	0.0011	mg/Kg	☼	10/16/18 17:55	10/19/18 04:21	1
Methyl tert-butyl ether	<0.00045		0.0015	0.00045	mg/Kg	☼	10/16/18 17:55	10/19/18 04:21	1
Styrene	<0.00047		0.0015	0.00047	mg/Kg	☼	10/16/18 17:55	10/19/18 04:21	1
1,1,2,2-Tetrachloroethane	<0.00049		0.0015	0.00049	mg/Kg	☼	10/16/18 17:55	10/19/18 04:21	1
Tetrachloroethene	<0.00053		0.0015	0.00053	mg/Kg	☼	10/16/18 17:55	10/19/18 04:21	1
Toluene	<0.00039		0.0015	0.00039	mg/Kg	☼	10/16/18 17:55	10/19/18 04:21	1
trans-1,2-Dichloroethene	<0.00069		0.0015	0.00069	mg/Kg	☼	10/16/18 17:55	10/19/18 04:21	1
trans-1,3-Dichloropropene	<0.00054		0.0015	0.00054	mg/Kg	☼	10/16/18 17:55	10/19/18 04:21	1
1,1,1-Trichloroethane	<0.00052		0.0015	0.00052	mg/Kg	☼	10/16/18 17:55	10/19/18 04:21	1
1,1,2-Trichloroethane	<0.00066		0.0015	0.00066	mg/Kg	☼	10/16/18 17:55	10/19/18 04:21	1
Trichloroethene	<0.00052		0.0015	0.00052	mg/Kg	☼	10/16/18 17:55	10/19/18 04:21	1
Vinyl acetate	<0.0013		0.0039	0.0013	mg/Kg	☼	10/16/18 17:55	10/19/18 04:21	1
Vinyl chloride	<0.00068		0.0015	0.00068	mg/Kg	☼	10/16/18 17:55	10/19/18 04:21	1
Xylenes, Total	<0.00050		0.0031	0.00050	mg/Kg	☼	10/16/18 17:55	10/19/18 04:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		75 - 131	10/16/18 17:55	10/19/18 04:21	1
Dibromofluoromethane	112		75 - 126	10/16/18 17:55	10/19/18 04:21	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	10/16/18 17:55	10/19/18 04:21	1
Toluene-d8 (Surr)	96		75 - 124	10/16/18 17:55	10/19/18 04:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0065		0.036	0.0065	mg/Kg	☼	10/19/18 22:40	10/22/18 16:28	1
Acenaphthylene	<0.0048		0.036	0.0048	mg/Kg	☼	10/19/18 22:40	10/22/18 16:28	1
Anthracene	<0.0060	F1	0.036	0.0060	mg/Kg	☼	10/19/18 22:40	10/22/18 16:28	1
Benzo[a]anthracene	<0.0049		0.036	0.0049	mg/Kg	☼	10/19/18 22:40	10/22/18 16:28	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-1

Client Sample ID: 2947V-8-B01 (0-5)

Lab Sample ID: 500-153168-4

Date Collected: 10/15/18 10:10

Matrix: Solid

Date Received: 10/15/18 16:40

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	0.0079	J B	0.036	0.0070	mg/Kg	☼	10/19/18 22:40	10/22/18 16:28	1
Benzo[b]fluoranthene	0.012	J	0.036	0.0078	mg/Kg	☼	10/19/18 22:40	10/22/18 16:28	1
Benzo[g,h,i]perylene	<0.012	F1	0.036	0.012	mg/Kg	☼	10/19/18 22:40	10/22/18 16:28	1
Benzo[k]fluoranthene	<0.011	F1	0.036	0.011	mg/Kg	☼	10/19/18 22:40	10/22/18 16:28	1
Bis(2-chloroethoxy)methane	<0.037		0.18	0.037	mg/Kg	☼	10/19/18 22:40	10/22/18 16:28	1
Bis(2-chloroethyl)ether	<0.054	F1	0.18	0.054	mg/Kg	☼	10/19/18 22:40	10/22/18 16:28	1
Bis(2-ethylhexyl) phthalate	<0.066		0.18	0.066	mg/Kg	☼	10/19/18 22:40	10/22/18 16:28	1
4-Bromophenyl phenyl ether	<0.048		0.18	0.048	mg/Kg	☼	10/19/18 22:40	10/22/18 16:28	1
Butyl benzyl phthalate	<0.069		0.18	0.069	mg/Kg	☼	10/19/18 22:40	10/22/18 16:28	1
Carbazole	<0.090		0.18	0.090	mg/Kg	☼	10/19/18 22:40	10/22/18 16:28	1
4-Chloroaniline	<0.17		0.73	0.17	mg/Kg	☼	10/19/18 22:40	10/22/18 16:28	1
4-Chloro-3-methylphenol	<0.12		0.36	0.12	mg/Kg	☼	10/19/18 22:40	10/22/18 16:28	1
2-Chloronaphthalene	<0.040		0.18	0.040	mg/Kg	☼	10/19/18 22:40	10/22/18 16:28	1
2-Chlorophenol	<0.062	F1	0.18	0.062	mg/Kg	☼	10/19/18 22:40	10/22/18 16:28	1
4-Chlorophenyl phenyl ether	<0.042		0.18	0.042	mg/Kg	☼	10/19/18 22:40	10/22/18 16:28	1
Chrysene	<0.0098		0.036	0.0098	mg/Kg	☼	10/19/18 22:40	10/22/18 16:28	1
Dibenz(a,h)anthracene	<0.0070		0.036	0.0070	mg/Kg	☼	10/19/18 22:40	10/22/18 16:28	1
Dibenzofuran	<0.042		0.18	0.042	mg/Kg	☼	10/19/18 22:40	10/22/18 16:28	1
1,2-Dichlorobenzene	<0.043		0.18	0.043	mg/Kg	☼	10/19/18 22:40	10/22/18 16:28	1
1,3-Dichlorobenzene	<0.041		0.18	0.041	mg/Kg	☼	10/19/18 22:40	10/22/18 16:28	1
1,4-Dichlorobenzene	<0.046		0.18	0.046	mg/Kg	☼	10/19/18 22:40	10/22/18 16:28	1
3,3'-Dichlorobenzidine	<0.050		0.18	0.050	mg/Kg	☼	10/19/18 22:40	10/22/18 16:28	1
2,4-Dichlorophenol	<0.086		0.36	0.086	mg/Kg	☼	10/19/18 22:40	10/22/18 16:28	1
Diethyl phthalate	<0.061		0.18	0.061	mg/Kg	☼	10/19/18 22:40	10/22/18 16:28	1
2,4-Dimethylphenol	<0.14	F1	0.36	0.14	mg/Kg	☼	10/19/18 22:40	10/22/18 16:28	1
Dimethyl phthalate	<0.047		0.18	0.047	mg/Kg	☼	10/19/18 22:40	10/22/18 16:28	1
Di-n-butyl phthalate	<0.055		0.18	0.055	mg/Kg	☼	10/19/18 22:40	10/22/18 16:28	1
4,6-Dinitro-2-methylphenol	<0.29	F1	0.73	0.29	mg/Kg	☼	10/19/18 22:40	10/22/18 16:28	1
2,4-Dinitrophenol	<0.63	F1	0.73	0.63	mg/Kg	☼	10/19/18 22:40	10/22/18 16:28	1
2,4-Dinitrotoluene	<0.057		0.18	0.057	mg/Kg	☼	10/19/18 22:40	10/22/18 16:28	1
2,6-Dinitrotoluene	<0.071		0.18	0.071	mg/Kg	☼	10/19/18 22:40	10/22/18 16:28	1
Di-n-octyl phthalate	<0.059		0.18	0.059	mg/Kg	☼	10/19/18 22:40	10/22/18 16:28	1
Fluoranthene	<0.0067	F1	0.036	0.0067	mg/Kg	☼	10/19/18 22:40	10/22/18 16:28	1
Fluorene	<0.0051		0.036	0.0051	mg/Kg	☼	10/19/18 22:40	10/22/18 16:28	1
Hexachlorobenzene	<0.0084		0.073	0.0084	mg/Kg	☼	10/19/18 22:40	10/22/18 16:28	1
Hexachlorobutadiene	<0.057		0.18	0.057	mg/Kg	☼	10/19/18 22:40	10/22/18 16:28	1
Hexachlorocyclopentadiene	<0.21		0.73	0.21	mg/Kg	☼	10/19/18 22:40	10/22/18 16:28	1
Hexachloroethane	<0.055		0.18	0.055	mg/Kg	☼	10/19/18 22:40	10/22/18 16:28	1
Indeno[1,2,3-cd]pyrene	0.012	J	0.036	0.0093	mg/Kg	☼	10/19/18 22:40	10/22/18 16:28	1
Isophorone	<0.040		0.18	0.040	mg/Kg	☼	10/19/18 22:40	10/22/18 16:28	1
2-Methylnaphthalene	<0.0066		0.073	0.0066	mg/Kg	☼	10/19/18 22:40	10/22/18 16:28	1
2-Methylphenol	<0.058		0.18	0.058	mg/Kg	☼	10/19/18 22:40	10/22/18 16:28	1
3 & 4 Methylphenol	<0.060		0.18	0.060	mg/Kg	☼	10/19/18 22:40	10/22/18 16:28	1
Naphthalene	<0.0055		0.036	0.0055	mg/Kg	☼	10/19/18 22:40	10/22/18 16:28	1
2-Nitroaniline	<0.049		0.18	0.049	mg/Kg	☼	10/19/18 22:40	10/22/18 16:28	1
3-Nitroaniline	<0.11		0.36	0.11	mg/Kg	☼	10/19/18 22:40	10/22/18 16:28	1
4-Nitroaniline	<0.15		0.36	0.15	mg/Kg	☼	10/19/18 22:40	10/22/18 16:28	1
Nitrobenzene	<0.0090		0.036	0.0090	mg/Kg	☼	10/19/18 22:40	10/22/18 16:28	1
2-Nitrophenol	<0.085		0.36	0.085	mg/Kg	☼	10/19/18 22:40	10/22/18 16:28	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-1

Client Sample ID: 2947V-8-B01 (0-5)

Lab Sample ID: 500-153168-4

Date Collected: 10/15/18 10:10

Matrix: Solid

Date Received: 10/15/18 16:40

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	<0.34		0.73	0.34	mg/Kg	☼	10/19/18 22:40	10/22/18 16:28	1
N-Nitrosodi-n-propylamine	<0.044		0.073	0.044	mg/Kg	☼	10/19/18 22:40	10/22/18 16:28	1
N-Nitrosodiphenylamine	<0.043		0.18	0.043	mg/Kg	☼	10/19/18 22:40	10/22/18 16:28	1
2,2'-oxybis[1-chloropropane]	<0.042		0.18	0.042	mg/Kg	☼	10/19/18 22:40	10/22/18 16:28	1
Pentachlorophenol	<0.58		0.73	0.58	mg/Kg	☼	10/19/18 22:40	10/22/18 16:28	1
Phenanthrene	<0.0050		0.036	0.0050	mg/Kg	☼	10/19/18 22:40	10/22/18 16:28	1
Phenol	<0.080		0.18	0.080	mg/Kg	☼	10/19/18 22:40	10/22/18 16:28	1
Pyrene	<0.0072		0.036	0.0072	mg/Kg	☼	10/19/18 22:40	10/22/18 16:28	1
1,2,4-Trichlorobenzene	<0.039		0.18	0.039	mg/Kg	☼	10/19/18 22:40	10/22/18 16:28	1
2,4,5-Trichlorophenol	<0.082		0.36	0.082	mg/Kg	☼	10/19/18 22:40	10/22/18 16:28	1
2,4,6-Trichlorophenol	<0.12		0.36	0.12	mg/Kg	☼	10/19/18 22:40	10/22/18 16:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	116		44 - 121	10/19/18 22:40	10/22/18 16:28	1
2-Fluorophenol	140	X	46 - 133	10/19/18 22:40	10/22/18 16:28	1
Nitrobenzene-d5	113		41 - 120	10/19/18 22:40	10/22/18 16:28	1
Phenol-d5	133	X	46 - 125	10/19/18 22:40	10/22/18 16:28	1
Terphenyl-d14	120		35 - 160	10/19/18 22:40	10/22/18 16:28	1
2,4,6-Tribromophenol	101		25 - 139	10/19/18 22:40	10/22/18 16:28	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.56	J B	1.1	0.21	mg/Kg	☼	10/18/18 08:28	10/19/18 00:55	1
Arsenic	13		0.54	0.19	mg/Kg	☼	10/18/18 08:28	10/19/18 00:55	1
Barium	22		0.54	0.062	mg/Kg	☼	10/18/18 08:28	10/19/18 00:55	1
Beryllium	0.38		0.22	0.051	mg/Kg	☼	10/18/18 08:28	10/19/18 00:55	1
Cadmium	0.21		0.11	0.020	mg/Kg	☼	10/18/18 08:28	10/19/18 00:55	1
Chromium	8.7		0.54	0.27	mg/Kg	☼	10/18/18 08:28	10/19/18 00:55	1
Cobalt	7.3		0.27	0.071	mg/Kg	☼	10/18/18 08:28	10/19/18 00:55	1
Copper	25	B	0.54	0.15	mg/Kg	☼	10/18/18 08:28	10/19/18 00:55	1
Iron	24000	B	54	28	mg/Kg	☼	10/18/18 08:28	10/19/18 16:59	5
Lead	16		0.27	0.13	mg/Kg	☼	10/18/18 08:28	10/19/18 00:55	1
Magnesium	68000	B	27	13	mg/Kg	☼	10/18/18 08:28	10/19/18 16:59	5
Calcium	110000	B	54	9.2	mg/Kg	☼	10/18/18 08:28	10/19/18 16:59	5
Manganese	310		0.54	0.079	mg/Kg	☼	10/18/18 08:28	10/19/18 00:55	1
Nickel	18		0.54	0.16	mg/Kg	☼	10/18/18 08:28	10/19/18 00:55	1
Selenium	<0.32		0.54	0.32	mg/Kg	☼	10/18/18 08:28	10/19/18 00:55	1
Silver	0.16	J	0.27	0.070	mg/Kg	☼	10/18/18 08:28	10/19/18 00:55	1
Thallium	<0.27		0.54	0.27	mg/Kg	☼	10/18/18 08:28	10/19/18 00:55	1
Vanadium	15		0.27	0.064	mg/Kg	☼	10/18/18 08:28	10/19/18 00:55	1
Zinc	71	B	1.1	0.48	mg/Kg	☼	10/18/18 08:28	10/19/18 00:55	1
Potassium	1300		27	9.6	mg/Kg	☼	10/18/18 08:28	10/19/18 00:55	1
Sodium	180		54	8.1	mg/Kg	☼	10/18/18 08:28	10/19/18 00:55	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		10/18/18 15:08	10/19/18 19:16	1
Barium	0.29	J	0.50	0.050	mg/L		10/18/18 15:08	10/19/18 19:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/18/18 15:08	10/19/18 19:16	1
Cadmium	0.0029	J	0.0050	0.0020	mg/L		10/18/18 15:08	10/19/18 19:16	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-1

Client Sample ID: 2947V-8-B01 (0-5)

Lab Sample ID: 500-153168-4

Date Collected: 10/15/18 10:10

Matrix: Solid

Date Received: 10/15/18 16:40

Percent Solids: 89.1

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		10/18/18 15:08	10/19/18 19:16	1
Chromium	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:16	1
Cobalt	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:16	1
Copper	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:16	1
Iron	<0.20		0.40	0.20	mg/L		10/18/18 15:08	10/19/18 19:16	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/18/18 15:08	10/19/18 19:16	1
Magnesium	170		2.5	0.50	mg/L		10/18/18 15:08	10/19/18 19:16	1
Manganese	0.91		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:16	1
Nickel	0.010	J	0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:16	1
Potassium	0.86	J	2.5	0.50	mg/L		10/18/18 15:08	10/19/18 19:16	1
Selenium	<0.020		0.050	0.020	mg/L		10/18/18 15:08	10/19/18 19:16	1
Silver	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:16	1
Vanadium	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:16	1
Zinc	<0.020		0.50	0.020	mg/L		10/18/18 15:08	10/19/18 19:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.056		0.025	0.010	mg/L		10/18/18 14:58	10/19/18 15:15	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		10/18/18 15:08	10/24/18 14:41	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/18/18 15:08	10/23/18 03:18	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		10/19/18 11:20	10/22/18 10:58	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	☼	10/18/18 16:20	10/19/18 10:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.18	*	0.51	0.18	mg/Kg	☼	10/23/18 14:50	10/24/18 09:20	1
pH	8.5		0.2	0.2	SU			10/22/18 17:23	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

GC/MS Semi VOA

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.
X	Surrogate is outside control limits
F1	MS and/or MSD Recovery is outside acceptance 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.

General Chemistry

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

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 - Romeoville - WO 054

TestAmerica Job ID: 500-153168-1

Laboratory: 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	04-30-19

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

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-153168-1

Login Number: 153168

List Source: 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	
Cooler Temperature is recorded.	True	5.9,5.6
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 <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 112-IL Rte 53 from IL Rte 7 to S/o Murphy Dr Office Phone Number, if available: _____

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

IL Rte 53 (Southbound) IDOT STA 225+50 to 229+50 (ISGS Site 2947V-9)

City: Romeoville State: IL Zip Code: 60446

County: Will Township: Lockport

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

Latitude: 41.61633 Longitude: -88.07732

(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: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Contact: Irma Romiti-Johnson

Email, if available: irma.romiti-johnson@illinois.gov

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

Project Name: FAP 112-IL Rte 53 from IL Rte 7 to S/o Murphy Dr

Latitude: 41.61633 Longitude: -88.07732

Uncontaminated Site Certification

III. Basis for Certification and Attachments

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

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

Soil from borings B05 through B08 were sampled adjacent to ISGS Site No 2947V-9. See Exhibit 9 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 J153168-2. 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, Chen Yang (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



Chen Yang
 Printed Name:

Chen Yang

05/28/2019

Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

Date:

Comparison of Detected Constituents to MACs-PTB 174-009;Work Order:054A
Preliminary Site Investigation
FAP 112-IL Rte 53-IL Rte 7 to S/o Murphy Dr (PESA #2947V-9)
Romeoville, Will County, IL
Terracon Project No. 11187007V
Page 1 of 4

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2947V-9-B05 (0-5)	2947V-9-B06 (0-5)
				CCDD	Sample Depth (feet)	(0-5)	(0-5)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	10/15/2018	10/15/2018
Semivolatile Organic Analytical Parameters							
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.0048	0.013
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		<0.0070	0.026
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		<0.0078	0.038
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		<0.012	0.015
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		<0.011	0.014
Chrysene	mg/kg	1.2	2.7	88		<0.0098	0.02
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		<0.0069	0.011
Fluoranthene	mg/kg	2.7	4.1	3100		<0.0067	0.033
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		<0.0093	0.022
Phenanthrene	mg/kg	1.3	2.5	210		<0.0050	0.0094
Pyrene	mg/kg	1.9	3.0	2300		<0.0071	0.027
N-Nitroso-di-n-propylamine	mg/kg	---	---	0.0018		<0.044	<0.042
Inorganic Analytical Parameters							
Arsenic	mg/kg	---	13	11.3		8.6	5.4
Barium	mg/kg	---	110	1500		20	15
Cadmium	mg/kg	---	0.6	5.2		0.13	0.068
Chromium, total	mg/kg	---	16.2	21		7.3	5.6
Lead	mg/kg	---	36	107		12	6.4
Mercury	mg/kg	---	0.06	0.89		0.014	0.013
Selenium	mg/kg	---	0.48	1.3		<0.32	<0.31
Silver	mg/kg	---	0.55	4.4		0.13	0.088
Antimony	mg/kg	---	4.0	5		0.51	0.51
Beryllium	mg/kg	---	0.59	22		0.34	0.31
Calcium	mg/kg	---	9,300	---		110000	150000
Cobalt	mg/kg	---	8.9	20		4.7	3.2
Copper	mg/kg	---	19.6	2900		17	7.8
Cyanide	mg/kg	---	0.51	---		<0.17	<0.17
Iron	mg/kg	---	15,900	15000		17000	12000
Magnesium	mg/kg	---	4,820	325000		71000	96000
Manganese	mg/kg	---	636	630		310	240
Nickel	mg/kg	---	18	100		13	8.7
Potassium	mg/kg	---	1,268	---		1100	1200
Sodium	mg/kg	---	130	---		210	180
Thallium	mg/kg	---	0.32	2.6		<0.27	<0.26
Vanadium	mg/kg	---	25.2	550		12	8.5
Zinc	mg/kg	---	95	5100		49	21
pH			6.25	9		8.6	8.6

Comparison of Detected Constituents to MACs-PTB 174-009;Work Order:054A

Preliminary Site Investigation

FAP 112-IL Rte 53-IL Rte 7 to S/o Murphy Dr (PESA #2947V-9)

Romeoville, Will County, IL

Terracon Project No. 11187007V

Page 2 of 4

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2947V-9-B05 (0-5)	2947V-9-B06 (0-5)
				CCDD	Sample Depth (feet)	(0-5)	(0-5)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	10/15/2018	10/15/2018
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	---	---	---		0.18	0.052
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
Barium,TCLP	mg/L	---	---	---		0.28	0.32
Cadmium,TCLP	mg/L	---	---	---		0.0023	0.0027
Chromium,TCLP	mg/L	---	---	---		<0.010	<0.010
Lead,TCLP	mg/L	---	---	---		<0.0075	<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020	<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.020	<0.020
Silver,TCLP	mg/L	---	---	---		<0.010	<0.010
Antimony,TCLP	mg/L	---	---	---		<0.0060	<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040	<0.0040
Calcium,TCLP	mg/L	---	---	---		330	350
Cobalt,TCLP	mg/L	---	---	---		<0.010	<0.010
Copper,TCLP	mg/L	---	---	---		<0.010	<0.010
Cyanide,TCLP	mg/L	---	---	---		----	----
Iron,TCLP	mg/L	---	---	---		<0.20	<0.20
Magnesium,TCLP	mg/L	---	---	---		190	210
Manganese,TCLP	mg/L	---	---	---		0.72	0.44
Nickel,TCLP	mg/L	---	---	---		0.011	0.013
Potassium,TCLP	mg/L	---	---	---		1.1	1.2
Sodium,TCLP	mg/L	---	---	---		----	----
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.010	<0.010
Zinc,TCLP	mg/L	---	---	---		0.035	0.061

Comparison of Detected Constituents to MACs-PTB 174-009;Work Order:054A
Preliminary Site Investigation
FAP 112-IL Rte 53-IL Rte 7 to S/o Murphy Dr (PESA #2947V-9)
Romeoville, Will County, IL
Terracon Project No. 11187007V
Page 3 of 4

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2947V-9-B07 (0-5)	2947V-9-B08 (0-5)
				CCDD	Sample Depth (feet)	(0-5)	(0-5)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	10/15/2018	10/15/2018
Semivolatile Organic Analytical Parameters							
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.029	<0.0049
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.055	0.0076
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.082	0.01
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.03	<0.012
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.028	<0.011
Chrysene	mg/kg	1.2	2.7	88		0.045	<0.010
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		0.014	0.0091
Fluoranthene	mg/kg	2.7	4.1	3100		0.071	<0.0068
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.035	0.011
Phenanthrene	mg/kg	1.3	2.5	210		0.021	<0.0051
Pyrene	mg/kg	1.9	3.0	2300		0.058	<0.0073
N-Nitroso-di-n-propylamine	mg/kg	---	---	0.0018		<0.046	<0.045
Inorganic Analytical Parameters							
Arsenic	mg/kg	---	13	11.3		8.8	7.7
Barium	mg/kg	---	110	1500		26	24
Cadmium	mg/kg	---	0.6	5.2		0.14	0.12
Chromium, total	mg/kg	---	16.2	21		9.2	10
Lead	mg/kg	---	36	107		14	12
Mercury	mg/kg	---	0.06	0.89		0.019	0.014
Selenium	mg/kg	---	0.48	1.3		<0.33	<0.32
Silver	mg/kg	---	0.55	4.4		0.2	0.17
Antimony	mg/kg	---	4.0	5		0.33	0.5
Beryllium	mg/kg	---	0.59	22		0.46	0.44
Calcium	mg/kg	---	9,300	---		120000	100000
Cobalt	mg/kg	---	8.9	20		7.2	8.4
Copper	mg/kg	---	19.6	2900		17	18
Cyanide	mg/kg	---	0.51	---		<0.17	<0.18
Iron	mg/kg	---	15,900	15000		19000	14000
Magnesium	mg/kg	---	4,820	325000		76000	51000
Manganese	mg/kg	---	636	630		340	400
Nickel	mg/kg	---	18	100		18	19
Potassium	mg/kg	---	1,268	---		1500	1700
Sodium	mg/kg	---	130	---		230	230
Thallium	mg/kg	---	0.32	2.6		<0.28	<0.27
Vanadium	mg/kg	---	25.2	550		14	15
Zinc	mg/kg	---	95	5100		48	46
pH			6.25	9		8.5	8.3

Comparison of Detected Constituents to MACs-PTB 174-009;Work Order:054A

Preliminary Site Investigation

FAP 112-IL Rte 53-IL Rte 7 to S/o Murphy Dr (PESA #2947V-9)

Romeoville, Will County, IL

Terracon Project No. 11187007V

Page 4 of 4

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2947V-9-B07 (0-5)	2947V-9-B08 (0-5)
				CCDD	Sample Depth (feet)	(0-5)	(0-5)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	10/15/2018	10/15/2018
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	---	---	---		0.33	0.1
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
Barium,TCLP	mg/L	---	---	---		0.33	0.24
Cadmium,TCLP	mg/L	---	---	---		0.0025	0.0025
Chromium,TCLP	mg/L	---	---	---		<0.010	<0.010
Lead,TCLP	mg/L	---	---	---		<0.0075	<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020	<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.020	<0.020
Silver,TCLP	mg/L	---	---	---		<0.010	<0.010
Antimony,TCLP	mg/L	---	---	---		<0.0060	<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040	<0.0040
Calcium,TCLP	mg/L	---	---	---		330	350
Cobalt,TCLP	mg/L	---	---	---		<0.010	<0.010
Copper,TCLP	mg/L	---	---	---		<0.010	<0.010
Cyanide,TCLP	mg/L	---	---	---		----	----
Iron,TCLP	mg/L	---	---	---		<0.20	<0.20
Magnesium,TCLP	mg/L	---	---	---		200	210
Manganese,TCLP	mg/L	---	---	---		0.35	0.72
Nickel,TCLP	mg/L	---	---	---		<0.010	0.01
Potassium,TCLP	mg/L	---	---	---		1.1	1
Sodium,TCLP	mg/L	---	---	---		----	----
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.010	<0.010
Zinc,TCLP	mg/L	---	---	---		0.023	0.22

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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TestAmerica Job ID: 500-153168-2
Client Project/Site: IDOT - Romeoville - WO 054

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

Attn: Mr. Matthew Weiss



Authorized for release by:
10/26/2018 2:16:18 PM

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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 - Romeoville - WO 054

TestAmerica Job ID: 500-153168-2

Job ID: 500-153168-2

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-153168-2

Receipt

The samples were received on 10/15/2018 4:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 5.6° C and 5.9° C.

GC/MS VOA

The laboratory control sample (LCS) for 455776 recovered outside control limits for the following analyte: Chloromethane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

The laboratory control sample duplicate (LCSD) for 455654 recovered outside control limits for the following analyte: Chloromethane. 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 method blank for preparation batch 500-455922 and analytical batch 500-456066 contained Benzo[a]pyrene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8270D: The following sample contained one acid surrogate and/or one base surrogate outside acceptance limits: 2947V-9-B04 (0-5) (500-153168-9). 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: Two acid surrogate recoveries for the following samples were outside the upper control limit: 2947V-9-B07 (0-5) (500-153168-6), 2947V-9-B05 (0-5) (500-153168-8), 2947V-9-B03 (0-5) (500-153168-10), 2947V-9-B02 (0-5) (500-153168-12), and 2947V-9-B01 (0-5) (500-153168-13). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

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

Metals

Method(s) 6010B: The method blank for preparation batch 500-455561 and analytical batch 500-455773 contained Copper above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

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

General Chemistry

Method(s) 9014: The laboratory control sample (LCS) for preparation batch 500-456326 and analytical batch 500-456561 recovered outside control limits for the following analyte: Cyanide. This analyte was biased high in the LCS but 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.

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 - Romeoville - WO 054

TestAmerica Job ID: 500-153168-2

Client Sample ID: 2947V-9-B08 (0-5)

Lab Sample ID: 500-153168-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	0.0076	J B	0.036	0.0071	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.010	J	0.036	0.0079	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.0091	J	0.036	0.0071	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.011	J	0.036	0.0095	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.50	J B	1.1	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.7		0.55	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	24		0.55	0.063	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.44		0.22	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.12		0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	10		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.4		0.27	0.072	mg/Kg	1	☼	6010B	Total/NA
Copper	18	B	0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	14000	B	11	5.7	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	51000	B	5.5	2.7	mg/Kg	1	☼	6010B	Total/NA
Calcium	100000	B	55	9.3	mg/Kg	5	☼	6010B	Total/NA
Manganese	400		0.55	0.080	mg/Kg	1	☼	6010B	Total/NA
Nickel	19		0.55	0.16	mg/Kg	1	☼	6010B	Total/NA
Silver	0.17	J	0.27	0.071	mg/Kg	1	☼	6010B	Total/NA
Vanadium	15		0.27	0.065	mg/Kg	1	☼	6010B	Total/NA
Zinc	46	B	1.1	0.48	mg/Kg	1	☼	6010B	Total/NA
Potassium	1700		27	9.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	230		55	8.1	mg/Kg	1	☼	6010B	Total/NA
Barium	0.24	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0025	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	350		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	210		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.72		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.010	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.0	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.22	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.10		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.014	J	0.017	0.0057	mg/Kg	1	☼	7471B	Total/NA
pH	8.3		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2947V-9-B07 (0-5)

Lab Sample ID: 500-153168-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.029	J	0.037	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.055	B	0.037	0.0073	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.082		0.037	0.0081	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.030	J	0.037	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.028	J	0.037	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.045		0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.014	J	0.037	0.0073	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.071		0.037	0.0070	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.035	J	0.037	0.0097	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.021	J	0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.058		0.037	0.0075	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.33	J B	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-2

Client Sample ID: 2947V-9-B07 (0-5) (Continued)

Lab Sample ID: 500-153168-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.8		0.56	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	26		0.56	0.063	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.46		0.22	0.052	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.14		0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	9.2		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.2		0.28	0.073	mg/Kg	1	☼	6010B	Total/NA
Copper	17	B	0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	19000	B	56	29	mg/Kg	5	☼	6010B	Total/NA
Lead	14		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	76000	B	28	14	mg/Kg	5	☼	6010B	Total/NA
Calcium	120000	B	56	9.4	mg/Kg	5	☼	6010B	Total/NA
Manganese	340		0.56	0.081	mg/Kg	1	☼	6010B	Total/NA
Nickel	18		0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Silver	0.20	J	0.28	0.072	mg/Kg	1	☼	6010B	Total/NA
Vanadium	14		0.28	0.066	mg/Kg	1	☼	6010B	Total/NA
Zinc	48	B	1.1	0.49	mg/Kg	1	☼	6010B	Total/NA
Potassium	1500		28	9.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	230		56	8.2	mg/Kg	1	☼	6010B	Total/NA
Barium	0.33	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0025	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	330		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	200		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.35		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.1	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.023	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.33		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.019		0.018	0.0061	mg/Kg	1	☼	7471B	Total/NA
pH	8.5		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2947V-9-B06 (0-5)

Lab Sample ID: 500-153168-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.013	J	0.034	0.0046	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.026	J B	0.034	0.0066	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.038		0.034	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.015	J	0.034	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.014	J	0.034	0.010	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.020	J	0.034	0.0093	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.011	J	0.034	0.0066	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.033	J	0.034	0.0063	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.022	J	0.034	0.0088	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0094	J	0.034	0.0048	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.027	J	0.034	0.0068	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.51	J B F1	1.1	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.4		0.53	0.18	mg/Kg	1	☼	6010B	Total/NA
Barium	15		0.53	0.060	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.31		0.21	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.068	J	0.11	0.019	mg/Kg	1	☼	6010B	Total/NA
Chromium	5.6		0.53	0.26	mg/Kg	1	☼	6010B	Total/NA
Cobalt	3.2		0.26	0.069	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-2

Client Sample ID: 2947V-9-B06 (0-5) (Continued)

Lab Sample ID: 500-153168-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	7.8	B	0.53	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	12000	B	53	27	mg/Kg	5	☼	6010B	Total/NA
Lead	6.4	F1	0.26	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	96000	B F2	26	13	mg/Kg	5	☼	6010B	Total/NA
Calcium	150000	B F2	53	8.9	mg/Kg	5	☼	6010B	Total/NA
Manganese	240	F2	0.53	0.076	mg/Kg	1	☼	6010B	Total/NA
Nickel	8.7		0.53	0.15	mg/Kg	1	☼	6010B	Total/NA
Silver	0.088	J	0.26	0.068	mg/Kg	1	☼	6010B	Total/NA
Vanadium	8.5		0.26	0.062	mg/Kg	1	☼	6010B	Total/NA
Zinc	21	B F1 F2	1.1	0.46	mg/Kg	1	☼	6010B	Total/NA
Potassium	1200	F1	26	9.3	mg/Kg	1	☼	6010B	Total/NA
Sodium	180		53	7.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.32	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0027	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	350		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	210		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.44		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.2	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.061	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.052		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: 2947V-9-B05 (0-5)

Lab Sample ID: 500-153168-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0048	J	0.036	0.0048	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.51	J B	1.1	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.6		0.54	0.18	mg/Kg	1	☼	6010B	Total/NA
Barium	20		0.54	0.061	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.34		0.21	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.13		0.11	0.019	mg/Kg	1	☼	6010B	Total/NA
Chromium	7.3		0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	4.7		0.27	0.070	mg/Kg	1	☼	6010B	Total/NA
Copper	17	B	0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	17000	B	54	28	mg/Kg	5	☼	6010B	Total/NA
Lead	12		0.27	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	71000	B	27	13	mg/Kg	5	☼	6010B	Total/NA
Calcium	110000	B	54	9.1	mg/Kg	5	☼	6010B	Total/NA
Manganese	310		0.54	0.078	mg/Kg	1	☼	6010B	Total/NA
Nickel	13		0.54	0.16	mg/Kg	1	☼	6010B	Total/NA
Silver	0.13	J	0.27	0.069	mg/Kg	1	☼	6010B	Total/NA
Vanadium	12		0.27	0.063	mg/Kg	1	☼	6010B	Total/NA
Zinc	49	B	1.1	0.47	mg/Kg	1	☼	6010B	Total/NA
Potassium	1100		27	9.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	210		54	7.9	mg/Kg	1	☼	6010B	Total/NA
Barium	0.28	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0023	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	330		5.0	0.50	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-2

Client Sample ID: 2947V-9-B05 (0-5) (Continued)

Lab Sample ID: 500-153168-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	190		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.72		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.1	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.035	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.18		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.014	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: 2947V-9-B04 (0-5)

Lab Sample ID: 500-153168-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.00097	J	0.0018	0.00045	mg/Kg	1	☼	8260B	Total/NA
Benzo[a]anthracene	0.020	J	0.036	0.0049	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.029	J B	0.036	0.0071	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.054		0.036	0.0079	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.023	J	0.036	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.016	J	0.036	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.032	J	0.036	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.051		0.036	0.0068	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.018	J	0.036	0.0095	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.015	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	0.55	J B	1.1	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	14		0.55	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	24		0.55	0.063	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.39		0.22	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.17		0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	7.0		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	4.5		0.27	0.072	mg/Kg	1	☼	6010B	Total/NA
Copper	14	B	0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	25000	B	55	29	mg/Kg	5	☼	6010B	Total/NA
Lead	12		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	93000	B	27	14	mg/Kg	5	☼	6010B	Total/NA
Calcium	140000	B	55	9.3	mg/Kg	5	☼	6010B	Total/NA
Manganese	320		0.55	0.080	mg/Kg	1	☼	6010B	Total/NA
Nickel	13		0.55	0.16	mg/Kg	1	☼	6010B	Total/NA
Silver	0.093	J	0.27	0.071	mg/Kg	1	☼	6010B	Total/NA
Vanadium	13		0.27	0.065	mg/Kg	1	☼	6010B	Total/NA
Zinc	31	B	1.1	0.48	mg/Kg	1	☼	6010B	Total/NA
Potassium	1300		27	9.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	210		55	8.1	mg/Kg	1	☼	6010B	Total/NA
Barium	0.37	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0027	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	350		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	200		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.28		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.4	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.15	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.15		0.025	0.010	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-2

Client Sample ID: 2947V-9-B04 (0-5) (Continued)

Lab Sample ID: 500-153168-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.012	J	0.018	0.0059	mg/Kg	1	☼	7471B	Total/NA
pH	8.7		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2947V-9-B03 (0-5)

Lab Sample ID: 500-153168-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.045		0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.072	B	0.040	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.11		0.040	0.0086	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.033	J	0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.044		0.040	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.066		0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.0089	J	0.040	0.0077	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.095		0.040	0.0074	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.031	J	0.040	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.028	J	0.040	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.085		0.040	0.0079	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.43	J B	1.2	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	14		0.60	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	77		0.60	0.069	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.72		0.24	0.056	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.20		0.12	0.022	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Cobalt	15		0.30	0.079	mg/Kg	1	☼	6010B	Total/NA
Copper	26	B	0.60	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	24000	B	12	6.3	mg/Kg	1	☼	6010B	Total/NA
Lead	31		0.30	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	4000	B	6.0	3.0	mg/Kg	1	☼	6010B	Total/NA
Calcium	4000	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	760		0.60	0.087	mg/Kg	1	☼	6010B	Total/NA
Nickel	32		0.60	0.18	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.59	J B	0.60	0.35	mg/Kg	1	☼	6010B	Total/NA
Silver	0.40		0.30	0.078	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.40	J	0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Vanadium	29		0.30	0.071	mg/Kg	1	☼	6010B	Total/NA
Zinc	95	B	1.2	0.53	mg/Kg	1	☼	6010B	Total/NA
Potassium	2000		30	11	mg/Kg	1	☼	6010B	Total/NA
Sodium	390		60	8.9	mg/Kg	1	☼	6010B	Total/NA
Barium	0.33	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	130		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	66		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.11		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.0	J	2.5	0.50	mg/L	1		6010B	TCLP
Mercury	0.028		0.018	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	7.8		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2947V-9-B03 (0-5) Dup

Lab Sample ID: 500-153168-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.0090	J	0.039	0.0065	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-2

Client Sample ID: 2947V-9-B03 (0-5) Dup (Continued)

Lab Sample ID: 500-153168-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.049		0.039	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.053	B	0.039	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.095		0.039	0.0084	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.024	J	0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.031	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.062		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.12		0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.021	J	0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.047		0.039	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.086		0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Arsenic	12		0.60	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	82		0.60	0.068	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.69		0.24	0.056	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.22		0.12	0.022	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Cobalt	15		0.30	0.078	mg/Kg	1	☼	6010B	Total/NA
Copper	21	B	0.60	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	22000	B	12	6.2	mg/Kg	1	☼	6010B	Total/NA
Lead	33		0.30	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	4000	B	6.0	3.0	mg/Kg	1	☼	6010B	Total/NA
Calcium	4300	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	680		0.60	0.087	mg/Kg	1	☼	6010B	Total/NA
Nickel	30		0.60	0.17	mg/Kg	1	☼	6010B	Total/NA
Silver	0.39		0.30	0.077	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.30	J	0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Vanadium	28		0.30	0.071	mg/Kg	1	☼	6010B	Total/NA
Zinc	94	B	1.2	0.53	mg/Kg	1	☼	6010B	Total/NA
Potassium	2000		30	11	mg/Kg	1	☼	6010B	Total/NA
Sodium	420		60	8.9	mg/Kg	1	☼	6010B	Total/NA
Barium	0.35	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0022	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	150		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	73		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.13		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.9	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.077	J B	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.028		0.019	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	7.8		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2947V-9-B02 (0-5)

Lab Sample ID: 500-153168-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0053	J	0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.0088	J	0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.0097	J	0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.42	J B	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	17		0.56	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	61		0.56	0.064	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.67		0.22	0.052	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.13		0.11	0.020	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-2

Client Sample ID: 2947V-9-B02 (0-5) (Continued)

Lab Sample ID: 500-153168-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	18		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	15		0.28	0.073	mg/Kg	1	☼	6010B	Total/NA
Copper	20	B	0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	28000	B	11	5.8	mg/Kg	1	☼	6010B	Total/NA
Lead	22		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2900	B	5.6	2.8	mg/Kg	1	☼	6010B	Total/NA
Calcium	1500	B	11	1.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	700		0.56	0.081	mg/Kg	1	☼	6010B	Total/NA
Nickel	28		0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Silver	0.35		0.28	0.072	mg/Kg	1	☼	6010B	Total/NA
Vanadium	30		0.28	0.066	mg/Kg	1	☼	6010B	Total/NA
Zinc	95	B	1.1	0.49	mg/Kg	1	☼	6010B	Total/NA
Potassium	1900		28	9.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	510		56	8.3	mg/Kg	1	☼	6010B	Total/NA
Barium	0.20	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	43		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	16		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.053		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.67	J	2.5	0.50	mg/L	1		6010B	TCLP
Mercury	0.023		0.019	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	7.8		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2947V-9-B01 (0-5)

Lab Sample ID: 500-153168-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.0072	J	0.039	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.040		0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.060	B	0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.11		0.039	0.0084	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.040		0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.029	J	0.039	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.063		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.0086	J	0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.095		0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.034	J	0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.031	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.080		0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.43	J B	1.2	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	15		0.59	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	69		0.59	0.067	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.71		0.23	0.055	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.22		0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.29	0.077	mg/Kg	1	☼	6010B	Total/NA
Copper	22	B	0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	25000	B	12	6.1	mg/Kg	1	☼	6010B	Total/NA
Lead	30		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	4900	B	5.9	2.9	mg/Kg	1	☼	6010B	Total/NA
Calcium	5600	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	800		0.59	0.085	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-2

Client Sample ID: 2947V-9-B01 (0-5) (Continued)

Lab Sample ID: 500-153168-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	31		0.59	0.17	mg/Kg	1	☼	6010B	Total/NA
Silver	0.35		0.29	0.076	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.52	J	0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	28		0.29	0.069	mg/Kg	1	☼	6010B	Total/NA
Zinc	120	B	1.2	0.52	mg/Kg	1	☼	6010B	Total/NA
Potassium	2000		29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	290		59	8.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.33	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	150		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	75		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.095		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.1	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.064	J B	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.035		0.020	0.0066	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.

TestAmerica Chicago

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-153168-5	2947V-9-B08 (0-5)	Solid	10/15/18 10:35	10/15/18 16:40
500-153168-6	2947V-9-B07 (0-5)	Solid	10/15/18 10:55	10/15/18 16:40
500-153168-7	2947V-9-B06 (0-5)	Solid	10/15/18 11:20	10/15/18 16:40
500-153168-8	2947V-9-B05 (0-5)	Solid	10/15/18 11:40	10/15/18 16:40
500-153168-9	2947V-9-B04 (0-5)	Solid	10/15/18 12:00	10/15/18 16:40
500-153168-10	2947V-9-B03 (0-5)	Solid	10/15/18 12:25	10/15/18 16:40
500-153168-11	2947V-9-B03 (0-5) Dup	Solid	10/15/18 12:30	10/15/18 16:40
500-153168-12	2947V-9-B02 (0-5)	Solid	10/15/18 12:55	10/15/18 16:40
500-153168-13	2947V-9-B01 (0-5)	Solid	10/15/18 13:15	10/15/18 16:40



Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-2

Client Sample ID: 2947V-9-B08 (0-5)

Lab Sample ID: 500-153168-5

Date Collected: 10/15/18 10:35

Matrix: Solid

Date Received: 10/15/18 16:40

Percent Solids: 88.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0076		0.017	0.0076	mg/Kg	☼	10/16/18 17:55	10/19/18 04:46	1
Benzene	<0.00044		0.0017	0.00044	mg/Kg	☼	10/16/18 17:55	10/19/18 04:46	1
Bromodichloromethane	<0.00035		0.0017	0.00035	mg/Kg	☼	10/16/18 17:55	10/19/18 04:46	1
Bromoform	<0.00051		0.0017	0.00051	mg/Kg	☼	10/16/18 17:55	10/19/18 04:46	1
Bromomethane	<0.0016		0.0044	0.0016	mg/Kg	☼	10/16/18 17:55	10/19/18 04:46	1
2-Butanone (MEK)	<0.0019		0.0044	0.0019	mg/Kg	☼	10/16/18 17:55	10/19/18 04:46	1
Carbon disulfide	<0.00091		0.0044	0.00091	mg/Kg	☼	10/16/18 17:55	10/19/18 04:46	1
Carbon tetrachloride	<0.00051		0.0017	0.00051	mg/Kg	☼	10/16/18 17:55	10/19/18 04:46	1
Chlorobenzene	<0.00064		0.0017	0.00064	mg/Kg	☼	10/16/18 17:55	10/19/18 04:46	1
Chloroethane	<0.0013		0.0044	0.0013	mg/Kg	☼	10/16/18 17:55	10/19/18 04:46	1
Chloroform	<0.00060		0.0017	0.00060	mg/Kg	☼	10/16/18 17:55	10/19/18 04:46	1
Chloromethane	<0.0018	*	0.0044	0.0018	mg/Kg	☼	10/16/18 17:55	10/19/18 04:46	1
cis-1,2-Dichloroethene	<0.00049		0.0017	0.00049	mg/Kg	☼	10/16/18 17:55	10/19/18 04:46	1
cis-1,3-Dichloropropene	<0.00053		0.0017	0.00053	mg/Kg	☼	10/16/18 17:55	10/19/18 04:46	1
Dibromochloromethane	<0.00057		0.0017	0.00057	mg/Kg	☼	10/16/18 17:55	10/19/18 04:46	1
1,1-Dichloroethane	<0.00060		0.0017	0.00060	mg/Kg	☼	10/16/18 17:55	10/19/18 04:46	1
1,2-Dichloroethane	<0.0014		0.0044	0.0014	mg/Kg	☼	10/16/18 17:55	10/19/18 04:46	1
1,1-Dichloroethene	<0.00060		0.0017	0.00060	mg/Kg	☼	10/16/18 17:55	10/19/18 04:46	1
1,2-Dichloropropane	<0.00045		0.0017	0.00045	mg/Kg	☼	10/16/18 17:55	10/19/18 04:46	1
1,3-Dichloropropane, Total	<0.00061		0.0017	0.00061	mg/Kg	☼	10/16/18 17:55	10/19/18 04:46	1
Ethylbenzene	<0.00083		0.0017	0.00083	mg/Kg	☼	10/16/18 17:55	10/19/18 04:46	1
2-Hexanone	<0.0014		0.0044	0.0014	mg/Kg	☼	10/16/18 17:55	10/19/18 04:46	1
Methylene Chloride	<0.0017		0.0044	0.0017	mg/Kg	☼	10/16/18 17:55	10/19/18 04:46	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0044	0.0013	mg/Kg	☼	10/16/18 17:55	10/19/18 04:46	1
Methyl tert-butyl ether	<0.00051		0.0017	0.00051	mg/Kg	☼	10/16/18 17:55	10/19/18 04:46	1
Styrene	<0.00053		0.0017	0.00053	mg/Kg	☼	10/16/18 17:55	10/19/18 04:46	1
1,1,2,2-Tetrachloroethane	<0.00056		0.0017	0.00056	mg/Kg	☼	10/16/18 17:55	10/19/18 04:46	1
Tetrachloroethene	<0.00059		0.0017	0.00059	mg/Kg	☼	10/16/18 17:55	10/19/18 04:46	1
Toluene	<0.00044		0.0017	0.00044	mg/Kg	☼	10/16/18 17:55	10/19/18 04:46	1
trans-1,2-Dichloroethene	<0.00077		0.0017	0.00077	mg/Kg	☼	10/16/18 17:55	10/19/18 04:46	1
trans-1,3-Dichloropropene	<0.00061		0.0017	0.00061	mg/Kg	☼	10/16/18 17:55	10/19/18 04:46	1
1,1,1-Trichloroethane	<0.00058		0.0017	0.00058	mg/Kg	☼	10/16/18 17:55	10/19/18 04:46	1
1,1,2-Trichloroethane	<0.00075		0.0017	0.00075	mg/Kg	☼	10/16/18 17:55	10/19/18 04:46	1
Trichloroethene	<0.00059		0.0017	0.00059	mg/Kg	☼	10/16/18 17:55	10/19/18 04:46	1
Vinyl acetate	<0.0015		0.0044	0.0015	mg/Kg	☼	10/16/18 17:55	10/19/18 04:46	1
Vinyl chloride	<0.00077		0.0017	0.00077	mg/Kg	☼	10/16/18 17:55	10/19/18 04:46	1
Xylenes, Total	<0.00056		0.0035	0.00056	mg/Kg	☼	10/16/18 17:55	10/19/18 04:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		75 - 131	10/16/18 17:55	10/19/18 04:46	1
Dibromofluoromethane	113		75 - 126	10/16/18 17:55	10/19/18 04:46	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	10/16/18 17:55	10/19/18 04:46	1
Toluene-d8 (Surr)	93		75 - 124	10/16/18 17:55	10/19/18 04:46	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	☼	10/19/18 22:40	10/22/18 16:53	1
Acenaphthylene	<0.0048		0.036	0.0048	mg/Kg	☼	10/19/18 22:40	10/22/18 16:53	1
Anthracene	<0.0061		0.036	0.0061	mg/Kg	☼	10/19/18 22:40	10/22/18 16:53	1
Benzo[a]anthracene	<0.0049		0.036	0.0049	mg/Kg	☼	10/19/18 22:40	10/22/18 16:53	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-2

Client Sample ID: 2947V-9-B08 (0-5)

Lab Sample ID: 500-153168-5

Date Collected: 10/15/18 10:35

Matrix: Solid

Date Received: 10/15/18 16:40

Percent Solids: 88.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.0076	J B	0.036	0.0071	mg/Kg	☼	10/19/18 22:40	10/22/18 16:53	1
Benzo[b]fluoranthene	0.010	J	0.036	0.0079	mg/Kg	☼	10/19/18 22:40	10/22/18 16:53	1
Benzo[g,h,i]perylene	<0.012		0.036	0.012	mg/Kg	☼	10/19/18 22:40	10/22/18 16:53	1
Benzo[k]fluoranthene	<0.011		0.036	0.011	mg/Kg	☼	10/19/18 22:40	10/22/18 16:53	1
Bis(2-chloroethoxy)methane	<0.037		0.18	0.037	mg/Kg	☼	10/19/18 22:40	10/22/18 16:53	1
Bis(2-chloroethyl)ether	<0.055		0.18	0.055	mg/Kg	☼	10/19/18 22:40	10/22/18 16:53	1
Bis(2-ethylhexyl) phthalate	<0.067		0.18	0.067	mg/Kg	☼	10/19/18 22:40	10/22/18 16:53	1
4-Bromophenyl phenyl ether	<0.048		0.18	0.048	mg/Kg	☼	10/19/18 22:40	10/22/18 16:53	1
Butyl benzyl phthalate	<0.070		0.18	0.070	mg/Kg	☼	10/19/18 22:40	10/22/18 16:53	1
Carbazole	<0.092		0.18	0.092	mg/Kg	☼	10/19/18 22:40	10/22/18 16:53	1
4-Chloroaniline	<0.17		0.74	0.17	mg/Kg	☼	10/19/18 22:40	10/22/18 16:53	1
4-Chloro-3-methylphenol	<0.12		0.36	0.12	mg/Kg	☼	10/19/18 22:40	10/22/18 16:53	1
2-Chloronaphthalene	<0.041		0.18	0.041	mg/Kg	☼	10/19/18 22:40	10/22/18 16:53	1
2-Chlorophenol	<0.063		0.18	0.063	mg/Kg	☼	10/19/18 22:40	10/22/18 16:53	1
4-Chlorophenyl phenyl ether	<0.043		0.18	0.043	mg/Kg	☼	10/19/18 22:40	10/22/18 16:53	1
Chrysene	<0.010		0.036	0.010	mg/Kg	☼	10/19/18 22:40	10/22/18 16:53	1
Dibenz(a,h)anthracene	0.0091	J	0.036	0.0071	mg/Kg	☼	10/19/18 22:40	10/22/18 16:53	1
Dibenzofuran	<0.043		0.18	0.043	mg/Kg	☼	10/19/18 22:40	10/22/18 16:53	1
1,2-Dichlorobenzene	<0.044		0.18	0.044	mg/Kg	☼	10/19/18 22:40	10/22/18 16:53	1
1,3-Dichlorobenzene	<0.041		0.18	0.041	mg/Kg	☼	10/19/18 22:40	10/22/18 16:53	1
1,4-Dichlorobenzene	<0.047		0.18	0.047	mg/Kg	☼	10/19/18 22:40	10/22/18 16:53	1
3,3'-Dichlorobenzidine	<0.051		0.18	0.051	mg/Kg	☼	10/19/18 22:40	10/22/18 16:53	1
2,4-Dichlorophenol	<0.087		0.36	0.087	mg/Kg	☼	10/19/18 22:40	10/22/18 16:53	1
Diethyl phthalate	<0.062		0.18	0.062	mg/Kg	☼	10/19/18 22:40	10/22/18 16:53	1
2,4-Dimethylphenol	<0.14		0.36	0.14	mg/Kg	☼	10/19/18 22:40	10/22/18 16:53	1
Dimethyl phthalate	<0.048		0.18	0.048	mg/Kg	☼	10/19/18 22:40	10/22/18 16:53	1
Di-n-butyl phthalate	<0.056		0.18	0.056	mg/Kg	☼	10/19/18 22:40	10/22/18 16:53	1
4,6-Dinitro-2-methylphenol	<0.29		0.74	0.29	mg/Kg	☼	10/19/18 22:40	10/22/18 16:53	1
2,4-Dinitrophenol	<0.65		0.74	0.65	mg/Kg	☼	10/19/18 22:40	10/22/18 16:53	1
2,4-Dinitrotoluene	<0.058		0.18	0.058	mg/Kg	☼	10/19/18 22:40	10/22/18 16:53	1
2,6-Dinitrotoluene	<0.072		0.18	0.072	mg/Kg	☼	10/19/18 22:40	10/22/18 16:53	1
Di-n-octyl phthalate	<0.060		0.18	0.060	mg/Kg	☼	10/19/18 22:40	10/22/18 16:53	1
Fluoranthene	<0.0068		0.036	0.0068	mg/Kg	☼	10/19/18 22:40	10/22/18 16:53	1
Fluorene	<0.0052		0.036	0.0052	mg/Kg	☼	10/19/18 22:40	10/22/18 16:53	1
Hexachlorobenzene	<0.0085		0.074	0.0085	mg/Kg	☼	10/19/18 22:40	10/22/18 16:53	1
Hexachlorobutadiene	<0.058		0.18	0.058	mg/Kg	☼	10/19/18 22:40	10/22/18 16:53	1
Hexachlorocyclopentadiene	<0.21		0.74	0.21	mg/Kg	☼	10/19/18 22:40	10/22/18 16:53	1
Hexachloroethane	<0.056		0.18	0.056	mg/Kg	☼	10/19/18 22:40	10/22/18 16:53	1
Indeno[1,2,3-cd]pyrene	0.011	J	0.036	0.0095	mg/Kg	☼	10/19/18 22:40	10/22/18 16:53	1
Isophorone	<0.041		0.18	0.041	mg/Kg	☼	10/19/18 22:40	10/22/18 16:53	1
2-Methylnaphthalene	<0.0067		0.074	0.0067	mg/Kg	☼	10/19/18 22:40	10/22/18 16:53	1
2-Methylphenol	<0.059		0.18	0.059	mg/Kg	☼	10/19/18 22:40	10/22/18 16:53	1
3 & 4 Methylphenol	<0.061		0.18	0.061	mg/Kg	☼	10/19/18 22:40	10/22/18 16:53	1
Naphthalene	<0.0056		0.036	0.0056	mg/Kg	☼	10/19/18 22:40	10/22/18 16:53	1
2-Nitroaniline	<0.049		0.18	0.049	mg/Kg	☼	10/19/18 22:40	10/22/18 16:53	1
3-Nitroaniline	<0.11		0.36	0.11	mg/Kg	☼	10/19/18 22:40	10/22/18 16:53	1
4-Nitroaniline	<0.15		0.36	0.15	mg/Kg	☼	10/19/18 22:40	10/22/18 16:53	1
Nitrobenzene	<0.0091		0.036	0.0091	mg/Kg	☼	10/19/18 22:40	10/22/18 16:53	1
2-Nitrophenol	<0.087		0.36	0.087	mg/Kg	☼	10/19/18 22:40	10/22/18 16:53	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-2

Client Sample ID: 2947V-9-B08 (0-5)

Lab Sample ID: 500-153168-5

Date Collected: 10/15/18 10:35

Matrix: Solid

Date Received: 10/15/18 16:40

Percent Solids: 88.0

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	☼	10/19/18 22:40	10/22/18 16:53	1
N-Nitrosodi-n-propylamine	<0.045		0.074	0.045	mg/Kg	☼	10/19/18 22:40	10/22/18 16:53	1
N-Nitrosodiphenylamine	<0.043		0.18	0.043	mg/Kg	☼	10/19/18 22:40	10/22/18 16:53	1
2,2'-oxybis[1-chloropropane]	<0.042		0.18	0.042	mg/Kg	☼	10/19/18 22:40	10/22/18 16:53	1
Pentachlorophenol	<0.59		0.74	0.59	mg/Kg	☼	10/19/18 22:40	10/22/18 16:53	1
Phenanthrene	<0.0051		0.036	0.0051	mg/Kg	☼	10/19/18 22:40	10/22/18 16:53	1
Phenol	<0.081		0.18	0.081	mg/Kg	☼	10/19/18 22:40	10/22/18 16:53	1
Pyrene	<0.0073		0.036	0.0073	mg/Kg	☼	10/19/18 22:40	10/22/18 16:53	1
1,2,4-Trichlorobenzene	<0.040		0.18	0.040	mg/Kg	☼	10/19/18 22:40	10/22/18 16:53	1
2,4,5-Trichlorophenol	<0.084		0.36	0.084	mg/Kg	☼	10/19/18 22:40	10/22/18 16:53	1
2,4,6-Trichlorophenol	<0.13		0.36	0.13	mg/Kg	☼	10/19/18 22:40	10/22/18 16:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	104		44 - 121	10/19/18 22:40	10/22/18 16:53	1
2-Fluorophenol	123		46 - 133	10/19/18 22:40	10/22/18 16:53	1
Nitrobenzene-d5	101		41 - 120	10/19/18 22:40	10/22/18 16:53	1
Phenol-d5	118		46 - 125	10/19/18 22:40	10/22/18 16:53	1
Terphenyl-d14	107		35 - 160	10/19/18 22:40	10/22/18 16:53	1
2,4,6-Tribromophenol	108		25 - 139	10/19/18 22:40	10/22/18 16:53	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.50	J B	1.1	0.21	mg/Kg	☼	10/18/18 08:28	10/19/18 00:59	1
Arsenic	7.7		0.55	0.19	mg/Kg	☼	10/18/18 08:28	10/19/18 00:59	1
Barium	24		0.55	0.063	mg/Kg	☼	10/18/18 08:28	10/19/18 00:59	1
Beryllium	0.44		0.22	0.051	mg/Kg	☼	10/18/18 08:28	10/19/18 00:59	1
Cadmium	0.12		0.11	0.020	mg/Kg	☼	10/18/18 08:28	10/19/18 00:59	1
Chromium	10		0.55	0.27	mg/Kg	☼	10/18/18 08:28	10/19/18 00:59	1
Cobalt	8.4		0.27	0.072	mg/Kg	☼	10/18/18 08:28	10/19/18 00:59	1
Copper	18	B	0.55	0.15	mg/Kg	☼	10/18/18 08:28	10/19/18 00:59	1
Iron	14000	B	11	5.7	mg/Kg	☼	10/18/18 08:28	10/19/18 00:59	1
Lead	12		0.27	0.13	mg/Kg	☼	10/18/18 08:28	10/19/18 00:59	1
Magnesium	51000	B	5.5	2.7	mg/Kg	☼	10/18/18 08:28	10/19/18 00:59	1
Calcium	100000	B	55	9.3	mg/Kg	☼	10/18/18 08:28	10/19/18 17:02	5
Manganese	400		0.55	0.080	mg/Kg	☼	10/18/18 08:28	10/19/18 00:59	1
Nickel	19		0.55	0.16	mg/Kg	☼	10/18/18 08:28	10/19/18 00:59	1
Selenium	<0.32		0.55	0.32	mg/Kg	☼	10/18/18 08:28	10/19/18 00:59	1
Silver	0.17	J	0.27	0.071	mg/Kg	☼	10/18/18 08:28	10/19/18 00:59	1
Thallium	<0.27		0.55	0.27	mg/Kg	☼	10/18/18 08:28	10/19/18 00:59	1
Vanadium	15		0.27	0.065	mg/Kg	☼	10/18/18 08:28	10/19/18 00:59	1
Zinc	46	B	1.1	0.48	mg/Kg	☼	10/18/18 08:28	10/19/18 00:59	1
Potassium	1700		27	9.7	mg/Kg	☼	10/18/18 08:28	10/19/18 00:59	1
Sodium	230		55	8.1	mg/Kg	☼	10/18/18 08:28	10/19/18 00:59	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		10/18/18 15:08	10/19/18 19:20	1
Barium	0.24	J	0.50	0.050	mg/L		10/18/18 15:08	10/19/18 19:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/18/18 15:08	10/19/18 19:20	1
Cadmium	0.0025	J	0.0050	0.0020	mg/L		10/18/18 15:08	10/19/18 19:20	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-2

Client Sample ID: 2947V-9-B08 (0-5)

Lab Sample ID: 500-153168-5

Date Collected: 10/15/18 10:35

Matrix: Solid

Date Received: 10/15/18 16:40

Percent Solids: 88.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	350		5.0	0.50	mg/L		10/18/18 15:08	10/19/18 19:20	1
Chromium	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:20	1
Cobalt	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:20	1
Copper	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:20	1
Iron	<0.20		0.40	0.20	mg/L		10/18/18 15:08	10/19/18 19:20	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/18/18 15:08	10/19/18 19:20	1
Magnesium	210		2.5	0.50	mg/L		10/18/18 15:08	10/19/18 19:20	1
Manganese	0.72		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:20	1
Nickel	0.010	J	0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:20	1
Potassium	1.0	J	2.5	0.50	mg/L		10/18/18 15:08	10/19/18 19:20	1
Selenium	<0.020		0.050	0.020	mg/L		10/18/18 15:08	10/19/18 19:20	1
Silver	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:20	1
Vanadium	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:20	1
Zinc	0.22	J B	0.50	0.020	mg/L		10/18/18 15:08	10/19/18 19:20	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		10/18/18 14:58	10/19/18 15:19	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		10/18/18 15:08	10/24/18 14:44	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/18/18 15:08	10/23/18 03:22	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		10/19/18 11:20	10/22/18 11:00	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.014	J	0.017	0.0057	mg/Kg	☼	10/18/18 16:20	10/19/18 10:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.18	*	0.53	0.18	mg/Kg	☼	10/23/18 14:50	10/24/18 09:22	1
pH	8.3		0.2	0.2	SU			10/22/18 17:23	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-2

Client Sample ID: 2947V-9-B07 (0-5)

Lab Sample ID: 500-153168-6

Date Collected: 10/15/18 10:55

Matrix: Solid

Date Received: 10/15/18 16:40

Percent Solids: 84.7

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	☼	10/16/18 17:55	10/19/18 05:12	1
Benzene	<0.00048		0.0019	0.00048	mg/Kg	☼	10/16/18 17:55	10/19/18 05:12	1
Bromodichloromethane	<0.00038		0.0019	0.00038	mg/Kg	☼	10/16/18 17:55	10/19/18 05:12	1
Bromoform	<0.00054		0.0019	0.00054	mg/Kg	☼	10/16/18 17:55	10/19/18 05:12	1
Bromomethane	<0.0018		0.0047	0.0018	mg/Kg	☼	10/16/18 17:55	10/19/18 05:12	1
2-Butanone (MEK)	<0.0021		0.0047	0.0021	mg/Kg	☼	10/16/18 17:55	10/19/18 05:12	1
Carbon disulfide	<0.00097		0.0047	0.00097	mg/Kg	☼	10/16/18 17:55	10/19/18 05:12	1
Carbon tetrachloride	<0.00054		0.0019	0.00054	mg/Kg	☼	10/16/18 17:55	10/19/18 05:12	1
Chlorobenzene	<0.00069		0.0019	0.00069	mg/Kg	☼	10/16/18 17:55	10/19/18 05:12	1
Chloroethane	<0.0014		0.0047	0.0014	mg/Kg	☼	10/16/18 17:55	10/19/18 05:12	1
Chloroform	<0.00065		0.0019	0.00065	mg/Kg	☼	10/16/18 17:55	10/19/18 05:12	1
Chloromethane	<0.0019	*	0.0047	0.0019	mg/Kg	☼	10/16/18 17:55	10/19/18 05:12	1
cis-1,2-Dichloroethene	<0.00052		0.0019	0.00052	mg/Kg	☼	10/16/18 17:55	10/19/18 05:12	1
cis-1,3-Dichloropropene	<0.00056		0.0019	0.00056	mg/Kg	☼	10/16/18 17:55	10/19/18 05:12	1
Dibromochloromethane	<0.00061		0.0019	0.00061	mg/Kg	☼	10/16/18 17:55	10/19/18 05:12	1
1,1-Dichloroethane	<0.00064		0.0019	0.00064	mg/Kg	☼	10/16/18 17:55	10/19/18 05:12	1
1,2-Dichloroethane	<0.0015		0.0047	0.0015	mg/Kg	☼	10/16/18 17:55	10/19/18 05:12	1
1,1-Dichloroethene	<0.00064		0.0019	0.00064	mg/Kg	☼	10/16/18 17:55	10/19/18 05:12	1
1,2-Dichloropropane	<0.00048		0.0019	0.00048	mg/Kg	☼	10/16/18 17:55	10/19/18 05:12	1
1,3-Dichloropropane, Total	<0.00065		0.0019	0.00065	mg/Kg	☼	10/16/18 17:55	10/19/18 05:12	1
Ethylbenzene	<0.00089		0.0019	0.00089	mg/Kg	☼	10/16/18 17:55	10/19/18 05:12	1
2-Hexanone	<0.0015		0.0047	0.0015	mg/Kg	☼	10/16/18 17:55	10/19/18 05:12	1
Methylene Chloride	<0.0018		0.0047	0.0018	mg/Kg	☼	10/16/18 17:55	10/19/18 05:12	1
4-Methyl-2-pentanone (MIBK)	<0.0014		0.0047	0.0014	mg/Kg	☼	10/16/18 17:55	10/19/18 05:12	1
Methyl tert-butyl ether	<0.00055		0.0019	0.00055	mg/Kg	☼	10/16/18 17:55	10/19/18 05:12	1
Styrene	<0.00056		0.0019	0.00056	mg/Kg	☼	10/16/18 17:55	10/19/18 05:12	1
1,1,2,2-Tetrachloroethane	<0.00060		0.0019	0.00060	mg/Kg	☼	10/16/18 17:55	10/19/18 05:12	1
Tetrachloroethene	<0.00063		0.0019	0.00063	mg/Kg	☼	10/16/18 17:55	10/19/18 05:12	1
Toluene	<0.00047		0.0019	0.00047	mg/Kg	☼	10/16/18 17:55	10/19/18 05:12	1
trans-1,2-Dichloroethene	<0.00083		0.0019	0.00083	mg/Kg	☼	10/16/18 17:55	10/19/18 05:12	1
trans-1,3-Dichloropropene	<0.00065		0.0019	0.00065	mg/Kg	☼	10/16/18 17:55	10/19/18 05:12	1
1,1,1-Trichloroethane	<0.00063		0.0019	0.00063	mg/Kg	☼	10/16/18 17:55	10/19/18 05:12	1
1,1,2-Trichloroethane	<0.00080		0.0019	0.00080	mg/Kg	☼	10/16/18 17:55	10/19/18 05:12	1
Trichloroethene	<0.00063		0.0019	0.00063	mg/Kg	☼	10/16/18 17:55	10/19/18 05:12	1
Vinyl acetate	<0.0016		0.0047	0.0016	mg/Kg	☼	10/16/18 17:55	10/19/18 05:12	1
Vinyl chloride	<0.00082		0.0019	0.00082	mg/Kg	☼	10/16/18 17:55	10/19/18 05:12	1
Xylenes, Total	<0.00060		0.0037	0.00060	mg/Kg	☼	10/16/18 17:55	10/19/18 05:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		75 - 131	10/16/18 17:55	10/19/18 05:12	1
Dibromofluoromethane	111		75 - 126	10/16/18 17:55	10/19/18 05:12	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	10/16/18 17:55	10/19/18 05:12	1
Toluene-d8 (Surr)	96		75 - 124	10/16/18 17:55	10/19/18 05:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0068		0.037	0.0068	mg/Kg	☼	10/19/18 22:40	10/22/18 17:18	1
Acenaphthylene	<0.0050		0.037	0.0050	mg/Kg	☼	10/19/18 22:40	10/22/18 17:18	1
Anthracene	<0.0063		0.037	0.0063	mg/Kg	☼	10/19/18 22:40	10/22/18 17:18	1
Benzo[a]anthracene	0.029	J	0.037	0.0051	mg/Kg	☼	10/19/18 22:40	10/22/18 17:18	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-2

Client Sample ID: 2947V-9-B07 (0-5)

Lab Sample ID: 500-153168-6

Date Collected: 10/15/18 10:55

Matrix: Solid

Date Received: 10/15/18 16:40

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	0.055	B	0.037	0.0073	mg/Kg	☼	10/19/18 22:40	10/22/18 17:18	1
Benzo[b]fluoranthene	0.082		0.037	0.0081	mg/Kg	☼	10/19/18 22:40	10/22/18 17:18	1
Benzo[g,h,i]perylene	0.030	J	0.037	0.012	mg/Kg	☼	10/19/18 22:40	10/22/18 17:18	1
Benzo[k]fluoranthene	0.028	J	0.037	0.011	mg/Kg	☼	10/19/18 22:40	10/22/18 17:18	1
Bis(2-chloroethoxy)methane	<0.038		0.19	0.038	mg/Kg	☼	10/19/18 22:40	10/22/18 17:18	1
Bis(2-chloroethyl)ether	<0.056		0.19	0.056	mg/Kg	☼	10/19/18 22:40	10/22/18 17:18	1
Bis(2-ethylhexyl) phthalate	<0.069		0.19	0.069	mg/Kg	☼	10/19/18 22:40	10/22/18 17:18	1
4-Bromophenyl phenyl ether	<0.050		0.19	0.050	mg/Kg	☼	10/19/18 22:40	10/22/18 17:18	1
Butyl benzyl phthalate	<0.072		0.19	0.072	mg/Kg	☼	10/19/18 22:40	10/22/18 17:18	1
Carbazole	<0.094		0.19	0.094	mg/Kg	☼	10/19/18 22:40	10/22/18 17:18	1
4-Chloroaniline	<0.18		0.76	0.18	mg/Kg	☼	10/19/18 22:40	10/22/18 17:18	1
4-Chloro-3-methylphenol	<0.13		0.37	0.13	mg/Kg	☼	10/19/18 22:40	10/22/18 17:18	1
2-Chloronaphthalene	<0.042		0.19	0.042	mg/Kg	☼	10/19/18 22:40	10/22/18 17:18	1
2-Chlorophenol	<0.064		0.19	0.064	mg/Kg	☼	10/19/18 22:40	10/22/18 17:18	1
4-Chlorophenyl phenyl ether	<0.044		0.19	0.044	mg/Kg	☼	10/19/18 22:40	10/22/18 17:18	1
Chrysene	0.045		0.037	0.010	mg/Kg	☼	10/19/18 22:40	10/22/18 17:18	1
Dibenz(a,h)anthracene	0.014	J	0.037	0.0073	mg/Kg	☼	10/19/18 22:40	10/22/18 17:18	1
Dibenzofuran	<0.044		0.19	0.044	mg/Kg	☼	10/19/18 22:40	10/22/18 17:18	1
1,2-Dichlorobenzene	<0.045		0.19	0.045	mg/Kg	☼	10/19/18 22:40	10/22/18 17:18	1
1,3-Dichlorobenzene	<0.042		0.19	0.042	mg/Kg	☼	10/19/18 22:40	10/22/18 17:18	1
1,4-Dichlorobenzene	<0.048		0.19	0.048	mg/Kg	☼	10/19/18 22:40	10/22/18 17:18	1
3,3'-Dichlorobenzidine	<0.053		0.19	0.053	mg/Kg	☼	10/19/18 22:40	10/22/18 17:18	1
2,4-Dichlorophenol	<0.089		0.37	0.089	mg/Kg	☼	10/19/18 22:40	10/22/18 17:18	1
Diethyl phthalate	<0.064		0.19	0.064	mg/Kg	☼	10/19/18 22:40	10/22/18 17:18	1
2,4-Dimethylphenol	<0.14		0.37	0.14	mg/Kg	☼	10/19/18 22:40	10/22/18 17:18	1
Dimethyl phthalate	<0.049		0.19	0.049	mg/Kg	☼	10/19/18 22:40	10/22/18 17:18	1
Di-n-butyl phthalate	<0.057		0.19	0.057	mg/Kg	☼	10/19/18 22:40	10/22/18 17:18	1
4,6-Dinitro-2-methylphenol	<0.30		0.76	0.30	mg/Kg	☼	10/19/18 22:40	10/22/18 17:18	1
2,4-Dinitrophenol	<0.66		0.76	0.66	mg/Kg	☼	10/19/18 22:40	10/22/18 17:18	1
2,4-Dinitrotoluene	<0.060		0.19	0.060	mg/Kg	☼	10/19/18 22:40	10/22/18 17:18	1
2,6-Dinitrotoluene	<0.074		0.19	0.074	mg/Kg	☼	10/19/18 22:40	10/22/18 17:18	1
Di-n-octyl phthalate	<0.061		0.19	0.061	mg/Kg	☼	10/19/18 22:40	10/22/18 17:18	1
Fluoranthene	0.071		0.037	0.0070	mg/Kg	☼	10/19/18 22:40	10/22/18 17:18	1
Fluorene	<0.0053		0.037	0.0053	mg/Kg	☼	10/19/18 22:40	10/22/18 17:18	1
Hexachlorobenzene	<0.0087		0.076	0.0087	mg/Kg	☼	10/19/18 22:40	10/22/18 17:18	1
Hexachlorobutadiene	<0.059		0.19	0.059	mg/Kg	☼	10/19/18 22:40	10/22/18 17:18	1
Hexachlorocyclopentadiene	<0.22		0.76	0.22	mg/Kg	☼	10/19/18 22:40	10/22/18 17:18	1
Hexachloroethane	<0.057		0.19	0.057	mg/Kg	☼	10/19/18 22:40	10/22/18 17:18	1
Indeno[1,2,3-cd]pyrene	0.035	J	0.037	0.0097	mg/Kg	☼	10/19/18 22:40	10/22/18 17:18	1
Isophorone	<0.042		0.19	0.042	mg/Kg	☼	10/19/18 22:40	10/22/18 17:18	1
2-Methylnaphthalene	<0.0069		0.076	0.0069	mg/Kg	☼	10/19/18 22:40	10/22/18 17:18	1
2-Methylphenol	<0.060		0.19	0.060	mg/Kg	☼	10/19/18 22:40	10/22/18 17:18	1
3 & 4 Methylphenol	<0.063		0.19	0.063	mg/Kg	☼	10/19/18 22:40	10/22/18 17:18	1
Naphthalene	<0.0058		0.037	0.0058	mg/Kg	☼	10/19/18 22:40	10/22/18 17:18	1
2-Nitroaniline	<0.051		0.19	0.051	mg/Kg	☼	10/19/18 22:40	10/22/18 17:18	1
3-Nitroaniline	<0.12		0.37	0.12	mg/Kg	☼	10/19/18 22:40	10/22/18 17:18	1
4-Nitroaniline	<0.16		0.37	0.16	mg/Kg	☼	10/19/18 22:40	10/22/18 17:18	1
Nitrobenzene	<0.0094		0.037	0.0094	mg/Kg	☼	10/19/18 22:40	10/22/18 17:18	1
2-Nitrophenol	<0.089		0.37	0.089	mg/Kg	☼	10/19/18 22:40	10/22/18 17:18	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-2

Client Sample ID: 2947V-9-B07 (0-5)

Lab Sample ID: 500-153168-6

Date Collected: 10/15/18 10:55

Matrix: Solid

Date Received: 10/15/18 16:40

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	<0.36		0.76	0.36	mg/Kg	☼	10/19/18 22:40	10/22/18 17:18	1
N-Nitrosodi-n-propylamine	<0.046		0.076	0.046	mg/Kg	☼	10/19/18 22:40	10/22/18 17:18	1
N-Nitrosodiphenylamine	<0.044		0.19	0.044	mg/Kg	☼	10/19/18 22:40	10/22/18 17:18	1
2,2'-oxybis[1-chloropropane]	<0.044		0.19	0.044	mg/Kg	☼	10/19/18 22:40	10/22/18 17:18	1
Pentachlorophenol	<0.60		0.76	0.60	mg/Kg	☼	10/19/18 22:40	10/22/18 17:18	1
Phenanthrene	0.021	J	0.037	0.0052	mg/Kg	☼	10/19/18 22:40	10/22/18 17:18	1
Phenol	<0.084		0.19	0.084	mg/Kg	☼	10/19/18 22:40	10/22/18 17:18	1
Pyrene	0.058		0.037	0.0075	mg/Kg	☼	10/19/18 22:40	10/22/18 17:18	1
1,2,4-Trichlorobenzene	<0.041		0.19	0.041	mg/Kg	☼	10/19/18 22:40	10/22/18 17:18	1
2,4,5-Trichlorophenol	<0.086		0.37	0.086	mg/Kg	☼	10/19/18 22:40	10/22/18 17:18	1
2,4,6-Trichlorophenol	<0.13		0.37	0.13	mg/Kg	☼	10/19/18 22:40	10/22/18 17:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	107		44 - 121	10/19/18 22:40	10/22/18 17:18	1
2-Fluorophenol	142	X	46 - 133	10/19/18 22:40	10/22/18 17:18	1
Nitrobenzene-d5	99		41 - 120	10/19/18 22:40	10/22/18 17:18	1
Phenol-d5	142	X	46 - 125	10/19/18 22:40	10/22/18 17:18	1
Terphenyl-d14	117		35 - 160	10/19/18 22:40	10/22/18 17:18	1
2,4,6-Tribromophenol	105		25 - 139	10/19/18 22:40	10/22/18 17:18	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.33	J B	1.1	0.22	mg/Kg	☼	10/18/18 08:28	10/19/18 01:04	1
Arsenic	8.8		0.56	0.19	mg/Kg	☼	10/18/18 08:28	10/19/18 01:04	1
Barium	26		0.56	0.063	mg/Kg	☼	10/18/18 08:28	10/19/18 01:04	1
Beryllium	0.46		0.22	0.052	mg/Kg	☼	10/18/18 08:28	10/19/18 01:04	1
Cadmium	0.14		0.11	0.020	mg/Kg	☼	10/18/18 08:28	10/19/18 01:04	1
Chromium	9.2		0.56	0.28	mg/Kg	☼	10/18/18 08:28	10/19/18 01:04	1
Cobalt	7.2		0.28	0.073	mg/Kg	☼	10/18/18 08:28	10/19/18 01:04	1
Copper	17	B	0.56	0.16	mg/Kg	☼	10/18/18 08:28	10/19/18 01:04	1
Iron	19000	B	56	29	mg/Kg	☼	10/18/18 08:28	10/19/18 17:06	5
Lead	14		0.28	0.13	mg/Kg	☼	10/18/18 08:28	10/19/18 01:04	1
Magnesium	76000	B	28	14	mg/Kg	☼	10/18/18 08:28	10/19/18 17:06	5
Calcium	120000	B	56	9.4	mg/Kg	☼	10/18/18 08:28	10/19/18 17:06	5
Manganese	340		0.56	0.081	mg/Kg	☼	10/18/18 08:28	10/19/18 01:04	1
Nickel	18		0.56	0.16	mg/Kg	☼	10/18/18 08:28	10/19/18 01:04	1
Selenium	<0.33		0.56	0.33	mg/Kg	☼	10/18/18 08:28	10/19/18 01:04	1
Silver	0.20	J	0.28	0.072	mg/Kg	☼	10/18/18 08:28	10/19/18 01:04	1
Thallium	<0.28		0.56	0.28	mg/Kg	☼	10/18/18 08:28	10/19/18 01:04	1
Vanadium	14		0.28	0.066	mg/Kg	☼	10/18/18 08:28	10/19/18 01:04	1
Zinc	48	B	1.1	0.49	mg/Kg	☼	10/18/18 08:28	10/19/18 01:04	1
Potassium	1500		28	9.9	mg/Kg	☼	10/18/18 08:28	10/19/18 01:04	1
Sodium	230		56	8.2	mg/Kg	☼	10/18/18 08:28	10/19/18 01:04	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		10/18/18 15:08	10/19/18 19:32	1
Barium	0.33	J	0.50	0.050	mg/L		10/18/18 15:08	10/19/18 19:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/18/18 15:08	10/19/18 19:32	1
Cadmium	0.0025	J	0.0050	0.0020	mg/L		10/18/18 15:08	10/19/18 19:32	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-2

Client Sample ID: 2947V-9-B07 (0-5)

Lab Sample ID: 500-153168-6

Date Collected: 10/15/18 10:55

Matrix: Solid

Date Received: 10/15/18 16:40

Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	330		5.0	0.50	mg/L		10/18/18 15:08	10/19/18 19:32	1
Chromium	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:32	1
Cobalt	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:32	1
Copper	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:32	1
Iron	<0.20		0.40	0.20	mg/L		10/18/18 15:08	10/19/18 19:32	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/18/18 15:08	10/19/18 19:32	1
Magnesium	200		2.5	0.50	mg/L		10/18/18 15:08	10/19/18 19:32	1
Manganese	0.35		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:32	1
Nickel	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:32	1
Potassium	1.1	J	2.5	0.50	mg/L		10/18/18 15:08	10/19/18 19:32	1
Selenium	<0.020		0.050	0.020	mg/L		10/18/18 15:08	10/19/18 19:32	1
Silver	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:32	1
Vanadium	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:32	1
Zinc	0.023	J B	0.50	0.020	mg/L		10/18/18 15:08	10/19/18 19:32	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		10/18/18 14:58	10/19/18 15:31	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		10/18/18 15:08	10/24/18 14:48	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/18/18 15:08	10/23/18 03:25	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		10/19/18 11:20	10/22/18 11:03	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.018	0.0061	mg/Kg	☼	10/18/18 16:20	10/19/18 10:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.17	*	0.50	0.17	mg/Kg	☼	10/23/18 14:50	10/24/18 09:23	1
pH	8.5		0.2	0.2	SU			10/22/18 17:23	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-2

Client Sample ID: 2947V-9-B06 (0-5)

Lab Sample ID: 500-153168-7

Date Collected: 10/15/18 11:20

Matrix: Solid

Date Received: 10/15/18 16:40

Percent Solids: 92.2

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	☼	10/16/18 17:55	10/19/18 05:37	1
Benzene	<0.00046		0.0018	0.00046	mg/Kg	☼	10/16/18 17:55	10/19/18 05:37	1
Bromodichloromethane	<0.00037		0.0018	0.00037	mg/Kg	☼	10/16/18 17:55	10/19/18 05:37	1
Bromoform	<0.00053		0.0018	0.00053	mg/Kg	☼	10/16/18 17:55	10/19/18 05:37	1
Bromomethane	<0.0017		0.0046	0.0017	mg/Kg	☼	10/16/18 17:55	10/19/18 05:37	1
2-Butanone (MEK)	<0.0020		0.0046	0.0020	mg/Kg	☼	10/16/18 17:55	10/19/18 05:37	1
Carbon disulfide	<0.00095		0.0046	0.00095	mg/Kg	☼	10/16/18 17:55	10/19/18 05:37	1
Carbon tetrachloride	<0.00053		0.0018	0.00053	mg/Kg	☼	10/16/18 17:55	10/19/18 05:37	1
Chlorobenzene	<0.00067		0.0018	0.00067	mg/Kg	☼	10/16/18 17:55	10/19/18 05:37	1
Chloroethane	<0.0013		0.0046	0.0013	mg/Kg	☼	10/16/18 17:55	10/19/18 05:37	1
Chloroform	<0.00063		0.0018	0.00063	mg/Kg	☼	10/16/18 17:55	10/19/18 05:37	1
Chloromethane	<0.0018	*	0.0046	0.0018	mg/Kg	☼	10/16/18 17:55	10/19/18 05:37	1
cis-1,2-Dichloroethene	<0.00051		0.0018	0.00051	mg/Kg	☼	10/16/18 17:55	10/19/18 05:37	1
cis-1,3-Dichloropropene	<0.00055		0.0018	0.00055	mg/Kg	☼	10/16/18 17:55	10/19/18 05:37	1
Dibromochloromethane	<0.00060		0.0018	0.00060	mg/Kg	☼	10/16/18 17:55	10/19/18 05:37	1
1,1-Dichloroethane	<0.00062		0.0018	0.00062	mg/Kg	☼	10/16/18 17:55	10/19/18 05:37	1
1,2-Dichloroethane	<0.0014		0.0046	0.0014	mg/Kg	☼	10/16/18 17:55	10/19/18 05:37	1
1,1-Dichloroethene	<0.00063		0.0018	0.00063	mg/Kg	☼	10/16/18 17:55	10/19/18 05:37	1
1,2-Dichloropropane	<0.00047		0.0018	0.00047	mg/Kg	☼	10/16/18 17:55	10/19/18 05:37	1
1,3-Dichloropropane, Total	<0.00064		0.0018	0.00064	mg/Kg	☼	10/16/18 17:55	10/19/18 05:37	1
Ethylbenzene	<0.00087		0.0018	0.00087	mg/Kg	☼	10/16/18 17:55	10/19/18 05:37	1
2-Hexanone	<0.0014		0.0046	0.0014	mg/Kg	☼	10/16/18 17:55	10/19/18 05:37	1
Methylene Chloride	<0.0018		0.0046	0.0018	mg/Kg	☼	10/16/18 17:55	10/19/18 05:37	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0046	0.0013	mg/Kg	☼	10/16/18 17:55	10/19/18 05:37	1
Methyl tert-butyl ether	<0.00053		0.0018	0.00053	mg/Kg	☼	10/16/18 17:55	10/19/18 05:37	1
Styrene	<0.00055		0.0018	0.00055	mg/Kg	☼	10/16/18 17:55	10/19/18 05:37	1
1,1,2,2-Tetrachloroethane	<0.00058		0.0018	0.00058	mg/Kg	☼	10/16/18 17:55	10/19/18 05:37	1
Tetrachloroethene	<0.00062		0.0018	0.00062	mg/Kg	☼	10/16/18 17:55	10/19/18 05:37	1
Toluene	<0.00046		0.0018	0.00046	mg/Kg	☼	10/16/18 17:55	10/19/18 05:37	1
trans-1,2-Dichloroethene	<0.00081		0.0018	0.00081	mg/Kg	☼	10/16/18 17:55	10/19/18 05:37	1
trans-1,3-Dichloropropene	<0.00064		0.0018	0.00064	mg/Kg	☼	10/16/18 17:55	10/19/18 05:37	1
1,1,1-Trichloroethane	<0.00061		0.0018	0.00061	mg/Kg	☼	10/16/18 17:55	10/19/18 05:37	1
1,1,2-Trichloroethane	<0.00078		0.0018	0.00078	mg/Kg	☼	10/16/18 17:55	10/19/18 05:37	1
Trichloroethene	<0.00062		0.0018	0.00062	mg/Kg	☼	10/16/18 17:55	10/19/18 05:37	1
Vinyl acetate	<0.0016		0.0046	0.0016	mg/Kg	☼	10/16/18 17:55	10/19/18 05:37	1
Vinyl chloride	<0.00081		0.0018	0.00081	mg/Kg	☼	10/16/18 17:55	10/19/18 05:37	1
Xylenes, Total	<0.00058		0.0036	0.00058	mg/Kg	☼	10/16/18 17:55	10/19/18 05:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		75 - 131	10/16/18 17:55	10/19/18 05:37	1
Dibromofluoromethane	114		75 - 126	10/16/18 17:55	10/19/18 05:37	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	10/16/18 17:55	10/19/18 05:37	1
Toluene-d8 (Surr)	97		75 - 124	10/16/18 17:55	10/19/18 05:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0061		0.034	0.0061	mg/Kg	☼	10/19/18 22:40	10/22/18 17:43	1
Acenaphthylene	<0.0045		0.034	0.0045	mg/Kg	☼	10/19/18 22:40	10/22/18 17:43	1
Anthracene	<0.0057		0.034	0.0057	mg/Kg	☼	10/19/18 22:40	10/22/18 17:43	1
Benzo[a]anthracene	0.013	J	0.034	0.0046	mg/Kg	☼	10/19/18 22:40	10/22/18 17:43	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-2

Client Sample ID: 2947V-9-B06 (0-5)

Lab Sample ID: 500-153168-7

Date Collected: 10/15/18 11:20

Matrix: Solid

Date Received: 10/15/18 16:40

Percent Solids: 92.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.026	J B	0.034	0.0066	mg/Kg	☼	10/19/18 22:40	10/22/18 17:43	1
Benzo[b]fluoranthene	0.038		0.034	0.0074	mg/Kg	☼	10/19/18 22:40	10/22/18 17:43	1
Benzo[g,h,i]perylene	0.015	J	0.034	0.011	mg/Kg	☼	10/19/18 22:40	10/22/18 17:43	1
Benzo[k]fluoranthene	0.014	J	0.034	0.010	mg/Kg	☼	10/19/18 22:40	10/22/18 17:43	1
Bis(2-chloroethoxy)methane	<0.035		0.17	0.035	mg/Kg	☼	10/19/18 22:40	10/22/18 17:43	1
Bis(2-chloroethyl)ether	<0.051		0.17	0.051	mg/Kg	☼	10/19/18 22:40	10/22/18 17:43	1
Bis(2-ethylhexyl) phthalate	<0.062		0.17	0.062	mg/Kg	☼	10/19/18 22:40	10/22/18 17:43	1
4-Bromophenyl phenyl ether	<0.045		0.17	0.045	mg/Kg	☼	10/19/18 22:40	10/22/18 17:43	1
Butyl benzyl phthalate	<0.065		0.17	0.065	mg/Kg	☼	10/19/18 22:40	10/22/18 17:43	1
Carbazole	<0.085		0.17	0.085	mg/Kg	☼	10/19/18 22:40	10/22/18 17:43	1
4-Chloroaniline	<0.16		0.69	0.16	mg/Kg	☼	10/19/18 22:40	10/22/18 17:43	1
4-Chloro-3-methylphenol	<0.12		0.34	0.12	mg/Kg	☼	10/19/18 22:40	10/22/18 17:43	1
2-Chloronaphthalene	<0.038		0.17	0.038	mg/Kg	☼	10/19/18 22:40	10/22/18 17:43	1
2-Chlorophenol	<0.058		0.17	0.058	mg/Kg	☼	10/19/18 22:40	10/22/18 17:43	1
4-Chlorophenyl phenyl ether	<0.040		0.17	0.040	mg/Kg	☼	10/19/18 22:40	10/22/18 17:43	1
Chrysene	0.020	J	0.034	0.0093	mg/Kg	☼	10/19/18 22:40	10/22/18 17:43	1
Dibenz(a,h)anthracene	0.011	J	0.034	0.0066	mg/Kg	☼	10/19/18 22:40	10/22/18 17:43	1
Dibenzofuran	<0.040		0.17	0.040	mg/Kg	☼	10/19/18 22:40	10/22/18 17:43	1
1,2-Dichlorobenzene	<0.041		0.17	0.041	mg/Kg	☼	10/19/18 22:40	10/22/18 17:43	1
1,3-Dichlorobenzene	<0.038		0.17	0.038	mg/Kg	☼	10/19/18 22:40	10/22/18 17:43	1
1,4-Dichlorobenzene	<0.044		0.17	0.044	mg/Kg	☼	10/19/18 22:40	10/22/18 17:43	1
3,3'-Dichlorobenzidine	<0.048		0.17	0.048	mg/Kg	☼	10/19/18 22:40	10/22/18 17:43	1
2,4-Dichlorophenol	<0.081		0.34	0.081	mg/Kg	☼	10/19/18 22:40	10/22/18 17:43	1
Diethyl phthalate	<0.058		0.17	0.058	mg/Kg	☼	10/19/18 22:40	10/22/18 17:43	1
2,4-Dimethylphenol	<0.13		0.34	0.13	mg/Kg	☼	10/19/18 22:40	10/22/18 17:43	1
Dimethyl phthalate	<0.045		0.17	0.045	mg/Kg	☼	10/19/18 22:40	10/22/18 17:43	1
Di-n-butyl phthalate	<0.052		0.17	0.052	mg/Kg	☼	10/19/18 22:40	10/22/18 17:43	1
4,6-Dinitro-2-methylphenol	<0.27		0.69	0.27	mg/Kg	☼	10/19/18 22:40	10/22/18 17:43	1
2,4-Dinitrophenol	<0.60		0.69	0.60	mg/Kg	☼	10/19/18 22:40	10/22/18 17:43	1
2,4-Dinitrotoluene	<0.054		0.17	0.054	mg/Kg	☼	10/19/18 22:40	10/22/18 17:43	1
2,6-Dinitrotoluene	<0.067		0.17	0.067	mg/Kg	☼	10/19/18 22:40	10/22/18 17:43	1
Di-n-octyl phthalate	<0.056		0.17	0.056	mg/Kg	☼	10/19/18 22:40	10/22/18 17:43	1
Fluoranthene	0.033	J	0.034	0.0063	mg/Kg	☼	10/19/18 22:40	10/22/18 17:43	1
Fluorene	<0.0048		0.034	0.0048	mg/Kg	☼	10/19/18 22:40	10/22/18 17:43	1
Hexachlorobenzene	<0.0079		0.069	0.0079	mg/Kg	☼	10/19/18 22:40	10/22/18 17:43	1
Hexachlorobutadiene	<0.054		0.17	0.054	mg/Kg	☼	10/19/18 22:40	10/22/18 17:43	1
Hexachlorocyclopentadiene	<0.20		0.69	0.20	mg/Kg	☼	10/19/18 22:40	10/22/18 17:43	1
Hexachloroethane	<0.052		0.17	0.052	mg/Kg	☼	10/19/18 22:40	10/22/18 17:43	1
Indeno[1,2,3-cd]pyrene	0.022	J	0.034	0.0088	mg/Kg	☼	10/19/18 22:40	10/22/18 17:43	1
Isophorone	<0.038		0.17	0.038	mg/Kg	☼	10/19/18 22:40	10/22/18 17:43	1
2-Methylnaphthalene	<0.0063		0.069	0.0063	mg/Kg	☼	10/19/18 22:40	10/22/18 17:43	1
2-Methylphenol	<0.055		0.17	0.055	mg/Kg	☼	10/19/18 22:40	10/22/18 17:43	1
3 & 4 Methylphenol	<0.057		0.17	0.057	mg/Kg	☼	10/19/18 22:40	10/22/18 17:43	1
Naphthalene	<0.0052		0.034	0.0052	mg/Kg	☼	10/19/18 22:40	10/22/18 17:43	1
2-Nitroaniline	<0.046		0.17	0.046	mg/Kg	☼	10/19/18 22:40	10/22/18 17:43	1
3-Nitroaniline	<0.11		0.34	0.11	mg/Kg	☼	10/19/18 22:40	10/22/18 17:43	1
4-Nitroaniline	<0.14		0.34	0.14	mg/Kg	☼	10/19/18 22:40	10/22/18 17:43	1
Nitrobenzene	<0.0085		0.034	0.0085	mg/Kg	☼	10/19/18 22:40	10/22/18 17:43	1
2-Nitrophenol	<0.081		0.34	0.081	mg/Kg	☼	10/19/18 22:40	10/22/18 17:43	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-2

Client Sample ID: 2947V-9-B06 (0-5)

Lab Sample ID: 500-153168-7

Date Collected: 10/15/18 11:20

Matrix: Solid

Date Received: 10/15/18 16:40

Percent Solids: 92.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.32		0.69	0.32	mg/Kg	☼	10/19/18 22:40	10/22/18 17:43	1
N-Nitrosodi-n-propylamine	<0.042		0.069	0.042	mg/Kg	☼	10/19/18 22:40	10/22/18 17:43	1
N-Nitrosodiphenylamine	<0.040		0.17	0.040	mg/Kg	☼	10/19/18 22:40	10/22/18 17:43	1
2,2'-oxybis[1-chloropropane]	<0.040		0.17	0.040	mg/Kg	☼	10/19/18 22:40	10/22/18 17:43	1
Pentachlorophenol	<0.55		0.69	0.55	mg/Kg	☼	10/19/18 22:40	10/22/18 17:43	1
Phenanthrene	0.0094	J	0.034	0.0048	mg/Kg	☼	10/19/18 22:40	10/22/18 17:43	1
Phenol	<0.076		0.17	0.076	mg/Kg	☼	10/19/18 22:40	10/22/18 17:43	1
Pyrene	0.027	J	0.034	0.0068	mg/Kg	☼	10/19/18 22:40	10/22/18 17:43	1
1,2,4-Trichlorobenzene	<0.037		0.17	0.037	mg/Kg	☼	10/19/18 22:40	10/22/18 17:43	1
2,4,5-Trichlorophenol	<0.078		0.34	0.078	mg/Kg	☼	10/19/18 22:40	10/22/18 17:43	1
2,4,6-Trichlorophenol	<0.12		0.34	0.12	mg/Kg	☼	10/19/18 22:40	10/22/18 17:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	100		44 - 121				10/19/18 22:40	10/22/18 17:43	1
2-Fluorophenol	125		46 - 133				10/19/18 22:40	10/22/18 17:43	1
Nitrobenzene-d5	97		41 - 120				10/19/18 22:40	10/22/18 17:43	1
Phenol-d5	120		46 - 125				10/19/18 22:40	10/22/18 17:43	1
Terphenyl-d14	107		35 - 160				10/19/18 22:40	10/22/18 17:43	1
2,4,6-Tribromophenol	94		25 - 139				10/19/18 22:40	10/22/18 17:43	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.51	J B F1	1.1	0.21	mg/Kg	☼	10/18/18 08:28	10/19/18 01:08	1
Arsenic	5.4		0.53	0.18	mg/Kg	☼	10/18/18 08:28	10/19/18 01:08	1
Barium	15		0.53	0.060	mg/Kg	☼	10/18/18 08:28	10/19/18 01:08	1
Beryllium	0.31		0.21	0.049	mg/Kg	☼	10/18/18 08:28	10/19/18 01:08	1
Cadmium	0.068	J	0.11	0.019	mg/Kg	☼	10/18/18 08:28	10/19/18 01:08	1
Chromium	5.6		0.53	0.26	mg/Kg	☼	10/18/18 08:28	10/19/18 01:08	1
Cobalt	3.2		0.26	0.069	mg/Kg	☼	10/18/18 08:28	10/19/18 01:08	1
Copper	7.8	B	0.53	0.15	mg/Kg	☼	10/18/18 08:28	10/19/18 01:08	1
Iron	12000	B	53	27	mg/Kg	☼	10/18/18 08:28	10/19/18 17:10	5
Lead	6.4	F1	0.26	0.12	mg/Kg	☼	10/18/18 08:28	10/19/18 01:08	1
Magnesium	96000	B F2	26	13	mg/Kg	☼	10/18/18 08:28	10/19/18 17:10	5
Calcium	150000	B F2	53	8.9	mg/Kg	☼	10/18/18 08:28	10/19/18 17:10	5
Manganese	240	F2	0.53	0.076	mg/Kg	☼	10/18/18 08:28	10/19/18 01:08	1
Nickel	8.7		0.53	0.15	mg/Kg	☼	10/18/18 08:28	10/19/18 01:08	1
Selenium	<0.31	F1	0.53	0.31	mg/Kg	☼	10/18/18 08:28	10/19/18 01:08	1
Silver	0.088	J	0.26	0.068	mg/Kg	☼	10/18/18 08:28	10/19/18 01:08	1
Thallium	<0.26	F1	0.53	0.26	mg/Kg	☼	10/18/18 08:28	10/19/18 01:08	1
Vanadium	8.5		0.26	0.062	mg/Kg	☼	10/18/18 08:28	10/19/18 01:08	1
Zinc	21	B F1 F2	1.1	0.46	mg/Kg	☼	10/18/18 08:28	10/19/18 01:08	1
Potassium	1200	F1	26	9.3	mg/Kg	☼	10/18/18 08:28	10/19/18 01:08	1
Sodium	180		53	7.8	mg/Kg	☼	10/18/18 08:28	10/19/18 01:08	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		10/18/18 15:08	10/19/18 19:36	1
Barium	0.32	J	0.50	0.050	mg/L		10/18/18 15:08	10/19/18 19:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/18/18 15:08	10/19/18 19:36	1
Cadmium	0.0027	J	0.0050	0.0020	mg/L		10/18/18 15:08	10/19/18 19:36	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-2

Client Sample ID: 2947V-9-B06 (0-5)

Lab Sample ID: 500-153168-7

Date Collected: 10/15/18 11:20

Matrix: Solid

Date Received: 10/15/18 16:40

Percent Solids: 92.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	350		5.0	0.50	mg/L		10/18/18 15:08	10/19/18 19:36	1
Chromium	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:36	1
Cobalt	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:36	1
Copper	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:36	1
Iron	<0.20		0.40	0.20	mg/L		10/18/18 15:08	10/19/18 19:36	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/18/18 15:08	10/19/18 19:36	1
Magnesium	210		2.5	0.50	mg/L		10/18/18 15:08	10/19/18 19:36	1
Manganese	0.44		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:36	1
Nickel	0.013	J	0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:36	1
Potassium	1.2	J	2.5	0.50	mg/L		10/18/18 15:08	10/19/18 19:36	1
Selenium	<0.020		0.050	0.020	mg/L		10/18/18 15:08	10/19/18 19:36	1
Silver	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:36	1
Vanadium	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:36	1
Zinc	0.061	J B	0.50	0.020	mg/L		10/18/18 15:08	10/19/18 19:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.052		0.025	0.010	mg/L		10/18/18 14:58	10/19/18 15:35	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		10/18/18 15:08	10/24/18 14:52	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/18/18 15:08	10/23/18 03:29	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		10/19/18 11:20	10/22/18 11:05	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	☼	10/18/18 16:20	10/19/18 10:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.17	*	0.51	0.17	mg/Kg	☼	10/23/18 14:50	10/24/18 09:24	1
pH	8.6		0.2	0.2	SU			10/22/18 17:23	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-2

Client Sample ID: 2947V-9-B05 (0-5)

Lab Sample ID: 500-153168-8

Date Collected: 10/15/18 11:40

Matrix: Solid

Date Received: 10/15/18 16:40

Percent Solids: 89.1

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	☼	10/16/18 17:55	10/19/18 06:03	1
Benzene	<0.00045		0.0018	0.00045	mg/Kg	☼	10/16/18 17:55	10/19/18 06:03	1
Bromodichloromethane	<0.00036		0.0018	0.00036	mg/Kg	☼	10/16/18 17:55	10/19/18 06:03	1
Bromoform	<0.00052		0.0018	0.00052	mg/Kg	☼	10/16/18 17:55	10/19/18 06:03	1
Bromomethane	<0.0017		0.0044	0.0017	mg/Kg	☼	10/16/18 17:55	10/19/18 06:03	1
2-Butanone (MEK)	<0.0020		0.0044	0.0020	mg/Kg	☼	10/16/18 17:55	10/19/18 06:03	1
Carbon disulfide	<0.00092		0.0044	0.00092	mg/Kg	☼	10/16/18 17:55	10/19/18 06:03	1
Carbon tetrachloride	<0.00051		0.0018	0.00051	mg/Kg	☼	10/16/18 17:55	10/19/18 06:03	1
Chlorobenzene	<0.00065		0.0018	0.00065	mg/Kg	☼	10/16/18 17:55	10/19/18 06:03	1
Chloroethane	<0.0013		0.0044	0.0013	mg/Kg	☼	10/16/18 17:55	10/19/18 06:03	1
Chloroform	<0.00062		0.0018	0.00062	mg/Kg	☼	10/16/18 17:55	10/19/18 06:03	1
Chloromethane	<0.0018	*	0.0044	0.0018	mg/Kg	☼	10/16/18 17:55	10/19/18 06:03	1
cis-1,2-Dichloroethene	<0.00050		0.0018	0.00050	mg/Kg	☼	10/16/18 17:55	10/19/18 06:03	1
cis-1,3-Dichloropropene	<0.00053		0.0018	0.00053	mg/Kg	☼	10/16/18 17:55	10/19/18 06:03	1
Dibromochloromethane	<0.00058		0.0018	0.00058	mg/Kg	☼	10/16/18 17:55	10/19/18 06:03	1
1,1-Dichloroethane	<0.00061		0.0018	0.00061	mg/Kg	☼	10/16/18 17:55	10/19/18 06:03	1
1,2-Dichloroethane	<0.0014		0.0044	0.0014	mg/Kg	☼	10/16/18 17:55	10/19/18 06:03	1
1,1-Dichloroethene	<0.00061		0.0018	0.00061	mg/Kg	☼	10/16/18 17:55	10/19/18 06:03	1
1,2-Dichloropropane	<0.00046		0.0018	0.00046	mg/Kg	☼	10/16/18 17:55	10/19/18 06:03	1
1,3-Dichloropropane, Total	<0.00062		0.0018	0.00062	mg/Kg	☼	10/16/18 17:55	10/19/18 06:03	1
Ethylbenzene	<0.00085		0.0018	0.00085	mg/Kg	☼	10/16/18 17:55	10/19/18 06:03	1
2-Hexanone	<0.0014		0.0044	0.0014	mg/Kg	☼	10/16/18 17:55	10/19/18 06:03	1
Methylene Chloride	<0.0017		0.0044	0.0017	mg/Kg	☼	10/16/18 17:55	10/19/18 06:03	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0044	0.0013	mg/Kg	☼	10/16/18 17:55	10/19/18 06:03	1
Methyl tert-butyl ether	<0.00052		0.0018	0.00052	mg/Kg	☼	10/16/18 17:55	10/19/18 06:03	1
Styrene	<0.00054		0.0018	0.00054	mg/Kg	☼	10/16/18 17:55	10/19/18 06:03	1
1,1,2,2-Tetrachloroethane	<0.00057		0.0018	0.00057	mg/Kg	☼	10/16/18 17:55	10/19/18 06:03	1
Tetrachloroethene	<0.00060		0.0018	0.00060	mg/Kg	☼	10/16/18 17:55	10/19/18 06:03	1
Toluene	<0.00045		0.0018	0.00045	mg/Kg	☼	10/16/18 17:55	10/19/18 06:03	1
trans-1,2-Dichloroethene	<0.00079		0.0018	0.00079	mg/Kg	☼	10/16/18 17:55	10/19/18 06:03	1
trans-1,3-Dichloropropene	<0.00062		0.0018	0.00062	mg/Kg	☼	10/16/18 17:55	10/19/18 06:03	1
1,1,1-Trichloroethane	<0.00060		0.0018	0.00060	mg/Kg	☼	10/16/18 17:55	10/19/18 06:03	1
1,1,2-Trichloroethane	<0.00076		0.0018	0.00076	mg/Kg	☼	10/16/18 17:55	10/19/18 06:03	1
Trichloroethene	<0.00060		0.0018	0.00060	mg/Kg	☼	10/16/18 17:55	10/19/18 06:03	1
Vinyl acetate	<0.0015		0.0044	0.0015	mg/Kg	☼	10/16/18 17:55	10/19/18 06:03	1
Vinyl chloride	<0.00078		0.0018	0.00078	mg/Kg	☼	10/16/18 17:55	10/19/18 06:03	1
Xylenes, Total	<0.00057		0.0035	0.00057	mg/Kg	☼	10/16/18 17:55	10/19/18 06:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		75 - 131	10/16/18 17:55	10/19/18 06:03	1
Dibromofluoromethane	114		75 - 126	10/16/18 17:55	10/19/18 06:03	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	10/16/18 17:55	10/19/18 06:03	1
Toluene-d8 (Surr)	97		75 - 124	10/16/18 17:55	10/19/18 06:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0065		0.036	0.0065	mg/Kg	☼	10/19/18 22:40	10/22/18 14:40	1
Acenaphthylene	<0.0047		0.036	0.0047	mg/Kg	☼	10/19/18 22:40	10/22/18 14:40	1
Anthracene	<0.0060		0.036	0.0060	mg/Kg	☼	10/19/18 22:40	10/22/18 14:40	1
Benzo[a]anthracene	0.0048	J	0.036	0.0048	mg/Kg	☼	10/19/18 22:40	10/22/18 14:40	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-2

Client Sample ID: 2947V-9-B05 (0-5)

Lab Sample ID: 500-153168-8

Date Collected: 10/15/18 11:40

Matrix: Solid

Date Received: 10/15/18 16:40

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	<0.0070		0.036	0.0070	mg/Kg	☼	10/19/18 22:40	10/22/18 14:40	1
Benzo[b]fluoranthene	<0.0078		0.036	0.0078	mg/Kg	☼	10/19/18 22:40	10/22/18 14:40	1
Benzo[g,h,i]perylene	<0.012		0.036	0.012	mg/Kg	☼	10/19/18 22:40	10/22/18 14:40	1
Benzo[k]fluoranthene	<0.011		0.036	0.011	mg/Kg	☼	10/19/18 22:40	10/22/18 14:40	1
Bis(2-chloroethoxy)methane	<0.037		0.18	0.037	mg/Kg	☼	10/19/18 22:40	10/22/18 14:40	1
Bis(2-chloroethyl)ether	<0.054		0.18	0.054	mg/Kg	☼	10/19/18 22:40	10/22/18 14:40	1
Bis(2-ethylhexyl) phthalate	<0.066		0.18	0.066	mg/Kg	☼	10/19/18 22:40	10/22/18 14:40	1
4-Bromophenyl phenyl ether	<0.047		0.18	0.047	mg/Kg	☼	10/19/18 22:40	10/22/18 14:40	1
Butyl benzyl phthalate	<0.068		0.18	0.068	mg/Kg	☼	10/19/18 22:40	10/22/18 14:40	1
Carbazole	<0.090		0.18	0.090	mg/Kg	☼	10/19/18 22:40	10/22/18 14:40	1
4-Chloroaniline	<0.17		0.73	0.17	mg/Kg	☼	10/19/18 22:40	10/22/18 14:40	1
4-Chloro-3-methylphenol	<0.12		0.36	0.12	mg/Kg	☼	10/19/18 22:40	10/22/18 14:40	1
2-Chloronaphthalene	<0.040		0.18	0.040	mg/Kg	☼	10/19/18 22:40	10/22/18 14:40	1
2-Chlorophenol	<0.061		0.18	0.061	mg/Kg	☼	10/19/18 22:40	10/22/18 14:40	1
4-Chlorophenyl phenyl ether	<0.042		0.18	0.042	mg/Kg	☼	10/19/18 22:40	10/22/18 14:40	1
Chrysene	<0.0098		0.036	0.0098	mg/Kg	☼	10/19/18 22:40	10/22/18 14:40	1
Dibenz(a,h)anthracene	<0.0069		0.036	0.0069	mg/Kg	☼	10/19/18 22:40	10/22/18 14:40	1
Dibenzofuran	<0.042		0.18	0.042	mg/Kg	☼	10/19/18 22:40	10/22/18 14:40	1
1,2-Dichlorobenzene	<0.043		0.18	0.043	mg/Kg	☼	10/19/18 22:40	10/22/18 14:40	1
1,3-Dichlorobenzene	<0.040		0.18	0.040	mg/Kg	☼	10/19/18 22:40	10/22/18 14:40	1
1,4-Dichlorobenzene	<0.046		0.18	0.046	mg/Kg	☼	10/19/18 22:40	10/22/18 14:40	1
3,3'-Dichlorobenzidine	<0.050		0.18	0.050	mg/Kg	☼	10/19/18 22:40	10/22/18 14:40	1
2,4-Dichlorophenol	<0.085		0.36	0.085	mg/Kg	☼	10/19/18 22:40	10/22/18 14:40	1
Diethyl phthalate	<0.061		0.18	0.061	mg/Kg	☼	10/19/18 22:40	10/22/18 14:40	1
2,4-Dimethylphenol	<0.14		0.36	0.14	mg/Kg	☼	10/19/18 22:40	10/22/18 14:40	1
Dimethyl phthalate	<0.047		0.18	0.047	mg/Kg	☼	10/19/18 22:40	10/22/18 14:40	1
Di-n-butyl phthalate	<0.055		0.18	0.055	mg/Kg	☼	10/19/18 22:40	10/22/18 14:40	1
4,6-Dinitro-2-methylphenol	<0.29		0.73	0.29	mg/Kg	☼	10/19/18 22:40	10/22/18 14:40	1
2,4-Dinitrophenol	<0.63		0.73	0.63	mg/Kg	☼	10/19/18 22:40	10/22/18 14:40	1
2,4-Dinitrotoluene	<0.057		0.18	0.057	mg/Kg	☼	10/19/18 22:40	10/22/18 14:40	1
2,6-Dinitrotoluene	<0.071		0.18	0.071	mg/Kg	☼	10/19/18 22:40	10/22/18 14:40	1
Di-n-octyl phthalate	<0.059		0.18	0.059	mg/Kg	☼	10/19/18 22:40	10/22/18 14:40	1
Fluoranthene	<0.0067		0.036	0.0067	mg/Kg	☼	10/19/18 22:40	10/22/18 14:40	1
Fluorene	<0.0051		0.036	0.0051	mg/Kg	☼	10/19/18 22:40	10/22/18 14:40	1
Hexachlorobenzene	<0.0083		0.073	0.0083	mg/Kg	☼	10/19/18 22:40	10/22/18 14:40	1
Hexachlorobutadiene	<0.056		0.18	0.056	mg/Kg	☼	10/19/18 22:40	10/22/18 14:40	1
Hexachlorocyclopentadiene	<0.21		0.73	0.21	mg/Kg	☼	10/19/18 22:40	10/22/18 14:40	1
Hexachloroethane	<0.055		0.18	0.055	mg/Kg	☼	10/19/18 22:40	10/22/18 14:40	1
Indeno[1,2,3-cd]pyrene	<0.0093		0.036	0.0093	mg/Kg	☼	10/19/18 22:40	10/22/18 14:40	1
Isophorone	<0.040		0.18	0.040	mg/Kg	☼	10/19/18 22:40	10/22/18 14:40	1
2-Methylnaphthalene	<0.0066		0.073	0.0066	mg/Kg	☼	10/19/18 22:40	10/22/18 14:40	1
2-Methylphenol	<0.058		0.18	0.058	mg/Kg	☼	10/19/18 22:40	10/22/18 14:40	1
3 & 4 Methylphenol	<0.060		0.18	0.060	mg/Kg	☼	10/19/18 22:40	10/22/18 14:40	1
Naphthalene	<0.0055		0.036	0.0055	mg/Kg	☼	10/19/18 22:40	10/22/18 14:40	1
2-Nitroaniline	<0.048		0.18	0.048	mg/Kg	☼	10/19/18 22:40	10/22/18 14:40	1
3-Nitroaniline	<0.11		0.36	0.11	mg/Kg	☼	10/19/18 22:40	10/22/18 14:40	1
4-Nitroaniline	<0.15		0.36	0.15	mg/Kg	☼	10/19/18 22:40	10/22/18 14:40	1
Nitrobenzene	<0.0090		0.036	0.0090	mg/Kg	☼	10/19/18 22:40	10/22/18 14:40	1
2-Nitrophenol	<0.085		0.36	0.085	mg/Kg	☼	10/19/18 22:40	10/22/18 14:40	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-2

Client Sample ID: 2947V-9-B05 (0-5)

Lab Sample ID: 500-153168-8

Date Collected: 10/15/18 11:40

Matrix: Solid

Date Received: 10/15/18 16:40

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	<0.34		0.73	0.34	mg/Kg	☼	10/19/18 22:40	10/22/18 14:40	1
N-Nitrosodi-n-propylamine	<0.044		0.073	0.044	mg/Kg	☼	10/19/18 22:40	10/22/18 14:40	1
N-Nitrosodiphenylamine	<0.042		0.18	0.042	mg/Kg	☼	10/19/18 22:40	10/22/18 14:40	1
2,2'-oxybis[1-chloropropane]	<0.042		0.18	0.042	mg/Kg	☼	10/19/18 22:40	10/22/18 14:40	1
Pentachlorophenol	<0.58		0.73	0.58	mg/Kg	☼	10/19/18 22:40	10/22/18 14:40	1
Phenanthrene	<0.0050		0.036	0.0050	mg/Kg	☼	10/19/18 22:40	10/22/18 14:40	1
Phenol	<0.080		0.18	0.080	mg/Kg	☼	10/19/18 22:40	10/22/18 14:40	1
Pyrene	<0.0071		0.036	0.0071	mg/Kg	☼	10/19/18 22:40	10/22/18 14:40	1
1,2,4-Trichlorobenzene	<0.039		0.18	0.039	mg/Kg	☼	10/19/18 22:40	10/22/18 14:40	1
2,4,5-Trichlorophenol	<0.082		0.36	0.082	mg/Kg	☼	10/19/18 22:40	10/22/18 14:40	1
2,4,6-Trichlorophenol	<0.12		0.36	0.12	mg/Kg	☼	10/19/18 22:40	10/22/18 14:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	105		44 - 121	10/19/18 22:40	10/22/18 14:40	1
2-Fluorophenol	159	X	46 - 133	10/19/18 22:40	10/22/18 14:40	1
Nitrobenzene-d5	117		41 - 120	10/19/18 22:40	10/22/18 14:40	1
Phenol-d5	131	X	46 - 125	10/19/18 22:40	10/22/18 14:40	1
Terphenyl-d14	115		35 - 160	10/19/18 22:40	10/22/18 14:40	1
2,4,6-Tribromophenol	80		25 - 139	10/19/18 22:40	10/22/18 14:40	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.51	J B	1.1	0.21	mg/Kg	☼	10/18/18 08:28	10/19/18 01:36	1
Arsenic	8.6		0.54	0.18	mg/Kg	☼	10/18/18 08:28	10/19/18 01:36	1
Barium	20		0.54	0.061	mg/Kg	☼	10/18/18 08:28	10/19/18 01:36	1
Beryllium	0.34		0.21	0.050	mg/Kg	☼	10/18/18 08:28	10/19/18 01:36	1
Cadmium	0.13		0.11	0.019	mg/Kg	☼	10/18/18 08:28	10/19/18 01:36	1
Chromium	7.3		0.54	0.27	mg/Kg	☼	10/18/18 08:28	10/19/18 01:36	1
Cobalt	4.7		0.27	0.070	mg/Kg	☼	10/18/18 08:28	10/19/18 01:36	1
Copper	17	B	0.54	0.15	mg/Kg	☼	10/18/18 08:28	10/19/18 01:36	1
Iron	17000	B	54	28	mg/Kg	☼	10/18/18 08:28	10/19/18 17:38	5
Lead	12		0.27	0.12	mg/Kg	☼	10/18/18 08:28	10/19/18 01:36	1
Magnesium	71000	B	27	13	mg/Kg	☼	10/18/18 08:28	10/19/18 17:38	5
Calcium	110000	B	54	9.1	mg/Kg	☼	10/18/18 08:28	10/19/18 17:38	5
Manganese	310		0.54	0.078	mg/Kg	☼	10/18/18 08:28	10/19/18 01:36	1
Nickel	13		0.54	0.16	mg/Kg	☼	10/18/18 08:28	10/19/18 01:36	1
Selenium	<0.32		0.54	0.32	mg/Kg	☼	10/18/18 08:28	10/19/18 01:36	1
Silver	0.13	J	0.27	0.069	mg/Kg	☼	10/18/18 08:28	10/19/18 01:36	1
Thallium	<0.27		0.54	0.27	mg/Kg	☼	10/18/18 08:28	10/19/18 01:36	1
Vanadium	12		0.27	0.063	mg/Kg	☼	10/18/18 08:28	10/19/18 01:36	1
Zinc	49	B	1.1	0.47	mg/Kg	☼	10/18/18 08:28	10/19/18 01:36	1
Potassium	1100		27	9.5	mg/Kg	☼	10/18/18 08:28	10/19/18 01:36	1
Sodium	210		54	7.9	mg/Kg	☼	10/18/18 08:28	10/19/18 01:36	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		10/18/18 15:08	10/19/18 19:40	1
Barium	0.28	J	0.50	0.050	mg/L		10/18/18 15:08	10/19/18 19:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/18/18 15:08	10/19/18 19:40	1
Cadmium	0.0023	J	0.0050	0.0020	mg/L		10/18/18 15:08	10/19/18 19:40	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-2

Client Sample ID: 2947V-9-B05 (0-5)

Lab Sample ID: 500-153168-8

Date Collected: 10/15/18 11:40

Matrix: Solid

Date Received: 10/15/18 16:40

Percent Solids: 89.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	330		5.0	0.50	mg/L		10/18/18 15:08	10/19/18 19:40	1
Chromium	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:40	1
Cobalt	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:40	1
Copper	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:40	1
Iron	<0.20		0.40	0.20	mg/L		10/18/18 15:08	10/19/18 19:40	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/18/18 15:08	10/19/18 19:40	1
Magnesium	190		2.5	0.50	mg/L		10/18/18 15:08	10/19/18 19:40	1
Manganese	0.72		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:40	1
Nickel	0.011	J	0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:40	1
Potassium	1.1	J	2.5	0.50	mg/L		10/18/18 15:08	10/19/18 19:40	1
Selenium	<0.020		0.050	0.020	mg/L		10/18/18 15:08	10/19/18 19:40	1
Silver	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:40	1
Vanadium	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:40	1
Zinc	0.035	J B	0.50	0.020	mg/L		10/18/18 15:08	10/19/18 19:40	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		10/18/18 14:58	10/19/18 15:39	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		10/18/18 15:08	10/24/18 14:56	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/18/18 15:08	10/23/18 03:33	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		10/19/18 11:20	10/22/18 11:07	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.014	J	0.017	0.0058	mg/Kg	☼	10/18/18 16:20	10/19/18 10:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.17	*	0.50	0.17	mg/Kg	☼	10/23/18 14:50	10/24/18 09:25	1
pH	8.6		0.2	0.2	SU			10/22/18 17:23	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-2

Client Sample ID: 2947V-9-B04 (0-5)

Lab Sample ID: 500-153168-9

Date Collected: 10/15/18 12:00

Matrix: Solid

Date Received: 10/15/18 16:40

Percent Solids: 87.7

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	☼	10/16/18 17:55	10/19/18 06:29	1
Benzene	<0.00045		0.0018	0.00045	mg/Kg	☼	10/16/18 17:55	10/19/18 06:29	1
Bromodichloromethane	<0.00036		0.0018	0.00036	mg/Kg	☼	10/16/18 17:55	10/19/18 06:29	1
Bromoform	<0.00052		0.0018	0.00052	mg/Kg	☼	10/16/18 17:55	10/19/18 06:29	1
Bromomethane	<0.0017		0.0044	0.0017	mg/Kg	☼	10/16/18 17:55	10/19/18 06:29	1
2-Butanone (MEK)	<0.0020		0.0044	0.0020	mg/Kg	☼	10/16/18 17:55	10/19/18 06:29	1
Carbon disulfide	<0.00092		0.0044	0.00092	mg/Kg	☼	10/16/18 17:55	10/19/18 06:29	1
Carbon tetrachloride	<0.00051		0.0018	0.00051	mg/Kg	☼	10/16/18 17:55	10/19/18 06:29	1
Chlorobenzene	<0.00065		0.0018	0.00065	mg/Kg	☼	10/16/18 17:55	10/19/18 06:29	1
Chloroethane	<0.0013		0.0044	0.0013	mg/Kg	☼	10/16/18 17:55	10/19/18 06:29	1
Chloroform	<0.00061		0.0018	0.00061	mg/Kg	☼	10/16/18 17:55	10/19/18 06:29	1
Chloromethane	<0.0018	*	0.0044	0.0018	mg/Kg	☼	10/16/18 17:55	10/19/18 06:29	1
cis-1,2-Dichloroethene	<0.00050		0.0018	0.00050	mg/Kg	☼	10/16/18 17:55	10/19/18 06:29	1
cis-1,3-Dichloropropene	<0.00053		0.0018	0.00053	mg/Kg	☼	10/16/18 17:55	10/19/18 06:29	1
Dibromochloromethane	<0.00058		0.0018	0.00058	mg/Kg	☼	10/16/18 17:55	10/19/18 06:29	1
1,1-Dichloroethane	<0.00061		0.0018	0.00061	mg/Kg	☼	10/16/18 17:55	10/19/18 06:29	1
1,2-Dichloroethane	<0.0014		0.0044	0.0014	mg/Kg	☼	10/16/18 17:55	10/19/18 06:29	1
1,1-Dichloroethene	<0.00061		0.0018	0.00061	mg/Kg	☼	10/16/18 17:55	10/19/18 06:29	1
1,2-Dichloropropane	<0.00046		0.0018	0.00046	mg/Kg	☼	10/16/18 17:55	10/19/18 06:29	1
1,3-Dichloropropane, Total	<0.00062		0.0018	0.00062	mg/Kg	☼	10/16/18 17:55	10/19/18 06:29	1
Ethylbenzene	<0.00085		0.0018	0.00085	mg/Kg	☼	10/16/18 17:55	10/19/18 06:29	1
2-Hexanone	<0.0014		0.0044	0.0014	mg/Kg	☼	10/16/18 17:55	10/19/18 06:29	1
Methylene Chloride	<0.0017		0.0044	0.0017	mg/Kg	☼	10/16/18 17:55	10/19/18 06:29	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0044	0.0013	mg/Kg	☼	10/16/18 17:55	10/19/18 06:29	1
Methyl tert-butyl ether	<0.00052		0.0018	0.00052	mg/Kg	☼	10/16/18 17:55	10/19/18 06:29	1
Styrene	<0.00053		0.0018	0.00053	mg/Kg	☼	10/16/18 17:55	10/19/18 06:29	1
1,1,2,2-Tetrachloroethane	<0.00057		0.0018	0.00057	mg/Kg	☼	10/16/18 17:55	10/19/18 06:29	1
Tetrachloroethene	<0.00060		0.0018	0.00060	mg/Kg	☼	10/16/18 17:55	10/19/18 06:29	1
Toluene	0.00097	J	0.0018	0.00045	mg/Kg	☼	10/16/18 17:55	10/19/18 06:29	1
trans-1,2-Dichloroethene	<0.00078		0.0018	0.00078	mg/Kg	☼	10/16/18 17:55	10/19/18 06:29	1
trans-1,3-Dichloropropene	<0.00062		0.0018	0.00062	mg/Kg	☼	10/16/18 17:55	10/19/18 06:29	1
1,1,1-Trichloroethane	<0.00059		0.0018	0.00059	mg/Kg	☼	10/16/18 17:55	10/19/18 06:29	1
1,1,2-Trichloroethane	<0.00076		0.0018	0.00076	mg/Kg	☼	10/16/18 17:55	10/19/18 06:29	1
Trichloroethene	<0.00060		0.0018	0.00060	mg/Kg	☼	10/16/18 17:55	10/19/18 06:29	1
Vinyl acetate	<0.0015		0.0044	0.0015	mg/Kg	☼	10/16/18 17:55	10/19/18 06:29	1
Vinyl chloride	<0.00078		0.0018	0.00078	mg/Kg	☼	10/16/18 17:55	10/19/18 06:29	1
Xylenes, Total	<0.00057		0.0035	0.00057	mg/Kg	☼	10/16/18 17:55	10/19/18 06:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		75 - 131	10/16/18 17:55	10/19/18 06:29	1
Dibromofluoromethane	110		75 - 126	10/16/18 17:55	10/19/18 06:29	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	10/16/18 17:55	10/19/18 06:29	1
Toluene-d8 (Surr)	94		75 - 124	10/16/18 17:55	10/19/18 06:29	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	☼	10/19/18 22:40	10/22/18 15:08	1
Acenaphthylene	<0.0048		0.036	0.0048	mg/Kg	☼	10/19/18 22:40	10/22/18 15:08	1
Anthracene	<0.0061		0.036	0.0061	mg/Kg	☼	10/19/18 22:40	10/22/18 15:08	1
Benzo[a]anthracene	0.020	J	0.036	0.0049	mg/Kg	☼	10/19/18 22:40	10/22/18 15:08	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-2

Client Sample ID: 2947V-9-B04 (0-5)

Lab Sample ID: 500-153168-9

Date Collected: 10/15/18 12:00

Matrix: Solid

Date Received: 10/15/18 16:40

Percent Solids: 87.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.029	J B	0.036	0.0071	mg/Kg	☼	10/19/18 22:40	10/22/18 15:08	1
Benzo[b]fluoranthene	0.054		0.036	0.0079	mg/Kg	☼	10/19/18 22:40	10/22/18 15:08	1
Benzo[g,h,i]perylene	0.023	J	0.036	0.012	mg/Kg	☼	10/19/18 22:40	10/22/18 15:08	1
Benzo[k]fluoranthene	0.016	J	0.036	0.011	mg/Kg	☼	10/19/18 22:40	10/22/18 15:08	1
Bis(2-chloroethoxy)methane	<0.037		0.18	0.037	mg/Kg	☼	10/19/18 22:40	10/22/18 15:08	1
Bis(2-chloroethyl)ether	<0.055		0.18	0.055	mg/Kg	☼	10/19/18 22:40	10/22/18 15:08	1
Bis(2-ethylhexyl) phthalate	<0.067		0.18	0.067	mg/Kg	☼	10/19/18 22:40	10/22/18 15:08	1
4-Bromophenyl phenyl ether	<0.048		0.18	0.048	mg/Kg	☼	10/19/18 22:40	10/22/18 15:08	1
Butyl benzyl phthalate	<0.070		0.18	0.070	mg/Kg	☼	10/19/18 22:40	10/22/18 15:08	1
Carbazole	<0.091		0.18	0.091	mg/Kg	☼	10/19/18 22:40	10/22/18 15:08	1
4-Chloroaniline	<0.17		0.74	0.17	mg/Kg	☼	10/19/18 22:40	10/22/18 15:08	1
4-Chloro-3-methylphenol	<0.12		0.36	0.12	mg/Kg	☼	10/19/18 22:40	10/22/18 15:08	1
2-Chloronaphthalene	<0.040		0.18	0.040	mg/Kg	☼	10/19/18 22:40	10/22/18 15:08	1
2-Chlorophenol	<0.062		0.18	0.062	mg/Kg	☼	10/19/18 22:40	10/22/18 15:08	1
4-Chlorophenyl phenyl ether	<0.043		0.18	0.043	mg/Kg	☼	10/19/18 22:40	10/22/18 15:08	1
Chrysene	0.032	J	0.036	0.010	mg/Kg	☼	10/19/18 22:40	10/22/18 15:08	1
Dibenz(a,h)anthracene	<0.0071		0.036	0.0071	mg/Kg	☼	10/19/18 22:40	10/22/18 15:08	1
Dibenzofuran	<0.043		0.18	0.043	mg/Kg	☼	10/19/18 22:40	10/22/18 15:08	1
1,2-Dichlorobenzene	<0.044		0.18	0.044	mg/Kg	☼	10/19/18 22:40	10/22/18 15:08	1
1,3-Dichlorobenzene	<0.041		0.18	0.041	mg/Kg	☼	10/19/18 22:40	10/22/18 15:08	1
1,4-Dichlorobenzene	<0.047		0.18	0.047	mg/Kg	☼	10/19/18 22:40	10/22/18 15:08	1
3,3'-Dichlorobenzidine	<0.051		0.18	0.051	mg/Kg	☼	10/19/18 22:40	10/22/18 15:08	1
2,4-Dichlorophenol	<0.087		0.36	0.087	mg/Kg	☼	10/19/18 22:40	10/22/18 15:08	1
Diethyl phthalate	<0.062		0.18	0.062	mg/Kg	☼	10/19/18 22:40	10/22/18 15:08	1
2,4-Dimethylphenol	<0.14		0.36	0.14	mg/Kg	☼	10/19/18 22:40	10/22/18 15:08	1
Dimethyl phthalate	<0.048		0.18	0.048	mg/Kg	☼	10/19/18 22:40	10/22/18 15:08	1
Di-n-butyl phthalate	<0.056		0.18	0.056	mg/Kg	☼	10/19/18 22:40	10/22/18 15:08	1
4,6-Dinitro-2-methylphenol	<0.29		0.74	0.29	mg/Kg	☼	10/19/18 22:40	10/22/18 15:08	1
2,4-Dinitrophenol	<0.64		0.74	0.64	mg/Kg	☼	10/19/18 22:40	10/22/18 15:08	1
2,4-Dinitrotoluene	<0.058		0.18	0.058	mg/Kg	☼	10/19/18 22:40	10/22/18 15:08	1
2,6-Dinitrotoluene	<0.072		0.18	0.072	mg/Kg	☼	10/19/18 22:40	10/22/18 15:08	1
Di-n-octyl phthalate	<0.060		0.18	0.060	mg/Kg	☼	10/19/18 22:40	10/22/18 15:08	1
Fluoranthene	0.051		0.036	0.0068	mg/Kg	☼	10/19/18 22:40	10/22/18 15:08	1
Fluorene	<0.0051		0.036	0.0051	mg/Kg	☼	10/19/18 22:40	10/22/18 15:08	1
Hexachlorobenzene	<0.0085		0.074	0.0085	mg/Kg	☼	10/19/18 22:40	10/22/18 15:08	1
Hexachlorobutadiene	<0.057		0.18	0.057	mg/Kg	☼	10/19/18 22:40	10/22/18 15:08	1
Hexachlorocyclopentadiene	<0.21		0.74	0.21	mg/Kg	☼	10/19/18 22:40	10/22/18 15:08	1
Hexachloroethane	<0.056		0.18	0.056	mg/Kg	☼	10/19/18 22:40	10/22/18 15:08	1
Indeno[1,2,3-cd]pyrene	0.018	J	0.036	0.0095	mg/Kg	☼	10/19/18 22:40	10/22/18 15:08	1
Isophorone	<0.041		0.18	0.041	mg/Kg	☼	10/19/18 22:40	10/22/18 15:08	1
2-Methylnaphthalene	<0.0067		0.074	0.0067	mg/Kg	☼	10/19/18 22:40	10/22/18 15:08	1
2-Methylphenol	<0.059		0.18	0.059	mg/Kg	☼	10/19/18 22:40	10/22/18 15:08	1
3 & 4 Methylphenol	<0.061		0.18	0.061	mg/Kg	☼	10/19/18 22:40	10/22/18 15:08	1
Naphthalene	<0.0056		0.036	0.0056	mg/Kg	☼	10/19/18 22:40	10/22/18 15:08	1
2-Nitroaniline	<0.049		0.18	0.049	mg/Kg	☼	10/19/18 22:40	10/22/18 15:08	1
3-Nitroaniline	<0.11		0.36	0.11	mg/Kg	☼	10/19/18 22:40	10/22/18 15:08	1
4-Nitroaniline	<0.15		0.36	0.15	mg/Kg	☼	10/19/18 22:40	10/22/18 15:08	1
Nitrobenzene	<0.0091		0.036	0.0091	mg/Kg	☼	10/19/18 22:40	10/22/18 15:08	1
2-Nitrophenol	<0.086		0.36	0.086	mg/Kg	☼	10/19/18 22:40	10/22/18 15:08	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-2

Client Sample ID: 2947V-9-B04 (0-5)

Lab Sample ID: 500-153168-9

Date Collected: 10/15/18 12:00

Matrix: Solid

Date Received: 10/15/18 16:40

Percent Solids: 87.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.35		0.74	0.35	mg/Kg	☼	10/19/18 22:40	10/22/18 15:08	1
N-Nitrosodi-n-propylamine	<0.045		0.074	0.045	mg/Kg	☼	10/19/18 22:40	10/22/18 15:08	1
N-Nitrosodiphenylamine	<0.043		0.18	0.043	mg/Kg	☼	10/19/18 22:40	10/22/18 15:08	1
2,2'-oxybis[1-chloropropane]	<0.042		0.18	0.042	mg/Kg	☼	10/19/18 22:40	10/22/18 15:08	1
Pentachlorophenol	<0.59		0.74	0.59	mg/Kg	☼	10/19/18 22:40	10/22/18 15:08	1
Phenanthrene	0.015	J	0.036	0.0051	mg/Kg	☼	10/19/18 22:40	10/22/18 15:08	1
Phenol	<0.081		0.18	0.081	mg/Kg	☼	10/19/18 22:40	10/22/18 15:08	1
Pyrene	0.042		0.036	0.0073	mg/Kg	☼	10/19/18 22:40	10/22/18 15:08	1
1,2,4-Trichlorobenzene	<0.039		0.18	0.039	mg/Kg	☼	10/19/18 22:40	10/22/18 15:08	1
2,4,5-Trichlorophenol	<0.083		0.36	0.083	mg/Kg	☼	10/19/18 22:40	10/22/18 15:08	1
2,4,6-Trichlorophenol	<0.13		0.36	0.13	mg/Kg	☼	10/19/18 22:40	10/22/18 15:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	95		44 - 121	10/19/18 22:40	10/22/18 15:08	1
2-Fluorophenol	143	X	46 - 133	10/19/18 22:40	10/22/18 15:08	1
Nitrobenzene-d5	103		41 - 120	10/19/18 22:40	10/22/18 15:08	1
Phenol-d5	123		46 - 125	10/19/18 22:40	10/22/18 15:08	1
Terphenyl-d14	105		35 - 160	10/19/18 22:40	10/22/18 15:08	1
2,4,6-Tribromophenol	77		25 - 139	10/19/18 22:40	10/22/18 15:08	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.55	J B	1.1	0.21	mg/Kg	☼	10/18/18 08:28	10/19/18 01:40	1
Arsenic	14		0.55	0.19	mg/Kg	☼	10/18/18 08:28	10/19/18 01:40	1
Barium	24		0.55	0.063	mg/Kg	☼	10/18/18 08:28	10/19/18 01:40	1
Beryllium	0.39		0.22	0.051	mg/Kg	☼	10/18/18 08:28	10/19/18 01:40	1
Cadmium	0.17		0.11	0.020	mg/Kg	☼	10/18/18 08:28	10/19/18 01:40	1
Chromium	7.0		0.55	0.27	mg/Kg	☼	10/18/18 08:28	10/19/18 01:40	1
Cobalt	4.5		0.27	0.072	mg/Kg	☼	10/18/18 08:28	10/19/18 01:40	1
Copper	14	B	0.55	0.15	mg/Kg	☼	10/18/18 08:28	10/19/18 01:40	1
Iron	25000	B	55	29	mg/Kg	☼	10/18/18 08:28	10/19/18 17:42	5
Lead	12		0.27	0.13	mg/Kg	☼	10/18/18 08:28	10/19/18 01:40	1
Magnesium	93000	B	27	14	mg/Kg	☼	10/18/18 08:28	10/19/18 17:42	5
Calcium	140000	B	55	9.3	mg/Kg	☼	10/18/18 08:28	10/19/18 17:42	5
Manganese	320		0.55	0.080	mg/Kg	☼	10/18/18 08:28	10/19/18 01:40	1
Nickel	13		0.55	0.16	mg/Kg	☼	10/18/18 08:28	10/19/18 01:40	1
Selenium	<0.32		0.55	0.32	mg/Kg	☼	10/18/18 08:28	10/19/18 01:40	1
Silver	0.093	J	0.27	0.071	mg/Kg	☼	10/18/18 08:28	10/19/18 01:40	1
Thallium	<0.27		0.55	0.27	mg/Kg	☼	10/18/18 08:28	10/19/18 01:40	1
Vanadium	13		0.27	0.065	mg/Kg	☼	10/18/18 08:28	10/19/18 01:40	1
Zinc	31	B	1.1	0.48	mg/Kg	☼	10/18/18 08:28	10/19/18 01:40	1
Potassium	1300		27	9.7	mg/Kg	☼	10/18/18 08:28	10/19/18 01:40	1
Sodium	210		55	8.1	mg/Kg	☼	10/18/18 08:28	10/19/18 01:40	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		10/18/18 15:08	10/19/18 19:45	1
Barium	0.37	J	0.50	0.050	mg/L		10/18/18 15:08	10/19/18 19:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/18/18 15:08	10/19/18 19:45	1
Cadmium	0.0027	J	0.0050	0.0020	mg/L		10/18/18 15:08	10/19/18 19:45	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-2

Client Sample ID: 2947V-9-B04 (0-5)

Lab Sample ID: 500-153168-9

Date Collected: 10/15/18 12:00

Matrix: Solid

Date Received: 10/15/18 16:40

Percent Solids: 87.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	350		5.0	0.50	mg/L		10/18/18 15:08	10/19/18 19:45	1
Chromium	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:45	1
Cobalt	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:45	1
Copper	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:45	1
Iron	<0.20		0.40	0.20	mg/L		10/18/18 15:08	10/19/18 19:45	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/18/18 15:08	10/19/18 19:45	1
Magnesium	200		2.5	0.50	mg/L		10/18/18 15:08	10/19/18 19:45	1
Manganese	0.28		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:45	1
Nickel	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:45	1
Potassium	1.4 J		2.5	0.50	mg/L		10/18/18 15:08	10/19/18 19:45	1
Selenium	<0.020		0.050	0.020	mg/L		10/18/18 15:08	10/19/18 19:45	1
Silver	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:45	1
Vanadium	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:45	1
Zinc	0.15 J B		0.50	0.020	mg/L		10/18/18 15:08	10/19/18 19:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.15		0.025	0.010	mg/L		10/18/18 14:58	10/19/18 15:43	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		10/18/18 15:08	10/24/18 15:07	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/18/18 15:08	10/23/18 03:44	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		10/19/18 11:20	10/22/18 11:09	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.012 J		0.018	0.0059	mg/Kg	☼	10/18/18 16:20	10/19/18 10:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.19	*	0.56	0.19	mg/Kg	☼	10/23/18 14:50	10/24/18 09:25	1
pH	8.7		0.2	0.2	SU			10/22/18 17:23	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-2

Client Sample ID: 2947V-9-B03 (0-5)

Lab Sample ID: 500-153168-10

Date Collected: 10/15/18 12:25

Matrix: Solid

Date Received: 10/15/18 16:40

Percent Solids: 82.6

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	☼	10/16/18 17:55	10/19/18 06:54	1
Benzene	<0.00046		0.0018	0.00046	mg/Kg	☼	10/16/18 17:55	10/19/18 06:54	1
Bromodichloromethane	<0.00037		0.0018	0.00037	mg/Kg	☼	10/16/18 17:55	10/19/18 06:54	1
Bromoform	<0.00053		0.0018	0.00053	mg/Kg	☼	10/16/18 17:55	10/19/18 06:54	1
Bromomethane	<0.0017		0.0045	0.0017	mg/Kg	☼	10/16/18 17:55	10/19/18 06:54	1
2-Butanone (MEK)	<0.0020		0.0045	0.0020	mg/Kg	☼	10/16/18 17:55	10/19/18 06:54	1
Carbon disulfide	<0.00094		0.0045	0.00094	mg/Kg	☼	10/16/18 17:55	10/19/18 06:54	1
Carbon tetrachloride	<0.00052		0.0018	0.00052	mg/Kg	☼	10/16/18 17:55	10/19/18 06:54	1
Chlorobenzene	<0.00067		0.0018	0.00067	mg/Kg	☼	10/16/18 17:55	10/19/18 06:54	1
Chloroethane	<0.0013		0.0045	0.0013	mg/Kg	☼	10/16/18 17:55	10/19/18 06:54	1
Chloroform	<0.00063		0.0018	0.00063	mg/Kg	☼	10/16/18 17:55	10/19/18 06:54	1
Chloromethane	<0.0018	*	0.0045	0.0018	mg/Kg	☼	10/16/18 17:55	10/19/18 06:54	1
cis-1,2-Dichloroethene	<0.00050		0.0018	0.00050	mg/Kg	☼	10/16/18 17:55	10/19/18 06:54	1
cis-1,3-Dichloropropene	<0.00054		0.0018	0.00054	mg/Kg	☼	10/16/18 17:55	10/19/18 06:54	1
Dibromochloromethane	<0.00059		0.0018	0.00059	mg/Kg	☼	10/16/18 17:55	10/19/18 06:54	1
1,1-Dichloroethane	<0.00062		0.0018	0.00062	mg/Kg	☼	10/16/18 17:55	10/19/18 06:54	1
1,2-Dichloroethane	<0.0014		0.0045	0.0014	mg/Kg	☼	10/16/18 17:55	10/19/18 06:54	1
1,1-Dichloroethene	<0.00062		0.0018	0.00062	mg/Kg	☼	10/16/18 17:55	10/19/18 06:54	1
1,2-Dichloropropane	<0.00047		0.0018	0.00047	mg/Kg	☼	10/16/18 17:55	10/19/18 06:54	1
1,3-Dichloropropane, Total	<0.00063		0.0018	0.00063	mg/Kg	☼	10/16/18 17:55	10/19/18 06:54	1
Ethylbenzene	<0.00086		0.0018	0.00086	mg/Kg	☼	10/16/18 17:55	10/19/18 06:54	1
2-Hexanone	<0.0014		0.0045	0.0014	mg/Kg	☼	10/16/18 17:55	10/19/18 06:54	1
Methylene Chloride	<0.0018		0.0045	0.0018	mg/Kg	☼	10/16/18 17:55	10/19/18 06:54	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0045	0.0013	mg/Kg	☼	10/16/18 17:55	10/19/18 06:54	1
Methyl tert-butyl ether	<0.00053		0.0018	0.00053	mg/Kg	☼	10/16/18 17:55	10/19/18 06:54	1
Styrene	<0.00055		0.0018	0.00055	mg/Kg	☼	10/16/18 17:55	10/19/18 06:54	1
1,1,2,2-Tetrachloroethane	<0.00058		0.0018	0.00058	mg/Kg	☼	10/16/18 17:55	10/19/18 06:54	1
Tetrachloroethene	<0.00061		0.0018	0.00061	mg/Kg	☼	10/16/18 17:55	10/19/18 06:54	1
Toluene	<0.00046		0.0018	0.00046	mg/Kg	☼	10/16/18 17:55	10/19/18 06:54	1
trans-1,2-Dichloroethene	<0.00080		0.0018	0.00080	mg/Kg	☼	10/16/18 17:55	10/19/18 06:54	1
trans-1,3-Dichloropropene	<0.00063		0.0018	0.00063	mg/Kg	☼	10/16/18 17:55	10/19/18 06:54	1
1,1,1-Trichloroethane	<0.00061		0.0018	0.00061	mg/Kg	☼	10/16/18 17:55	10/19/18 06:54	1
1,1,2-Trichloroethane	<0.00077		0.0018	0.00077	mg/Kg	☼	10/16/18 17:55	10/19/18 06:54	1
Trichloroethene	<0.00061		0.0018	0.00061	mg/Kg	☼	10/16/18 17:55	10/19/18 06:54	1
Vinyl acetate	<0.0016		0.0045	0.0016	mg/Kg	☼	10/16/18 17:55	10/19/18 06:54	1
Vinyl chloride	<0.00080		0.0018	0.00080	mg/Kg	☼	10/16/18 17:55	10/19/18 06:54	1
Xylenes, Total	<0.00058		0.0036	0.00058	mg/Kg	☼	10/16/18 17:55	10/19/18 06:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		75 - 131	10/16/18 17:55	10/19/18 06:54	1
Dibromofluoromethane	112		75 - 126	10/16/18 17:55	10/19/18 06:54	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	10/16/18 17:55	10/19/18 06:54	1
Toluene-d8 (Surr)	94		75 - 124	10/16/18 17:55	10/19/18 06:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0072		0.040	0.0072	mg/Kg	☼	10/19/18 22:40	10/22/18 18:24	1
Acenaphthylene	<0.0052		0.040	0.0052	mg/Kg	☼	10/19/18 22:40	10/22/18 18:24	1
Anthracene	<0.0066		0.040	0.0066	mg/Kg	☼	10/19/18 22:40	10/22/18 18:24	1
Benzo[a]anthracene	0.045		0.040	0.0054	mg/Kg	☼	10/19/18 22:40	10/22/18 18:24	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-2

Client Sample ID: 2947V-9-B03 (0-5)

Lab Sample ID: 500-153168-10

Date Collected: 10/15/18 12:25

Matrix: Solid

Date Received: 10/15/18 16:40

Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.072	B	0.040	0.0077	mg/Kg	☼	10/19/18 22:40	10/22/18 18:24	1
Benzo[b]fluoranthene	0.11		0.040	0.0086	mg/Kg	☼	10/19/18 22:40	10/22/18 18:24	1
Benzo[g,h,i]perylene	0.033	J	0.040	0.013	mg/Kg	☼	10/19/18 22:40	10/22/18 18:24	1
Benzo[k]fluoranthene	0.044		0.040	0.012	mg/Kg	☼	10/19/18 22:40	10/22/18 18:24	1
Bis(2-chloroethoxy)methane	<0.041		0.20	0.041	mg/Kg	☼	10/19/18 22:40	10/22/18 18:24	1
Bis(2-chloroethyl)ether	<0.060		0.20	0.060	mg/Kg	☼	10/19/18 22:40	10/22/18 18:24	1
Bis(2-ethylhexyl) phthalate	<0.073		0.20	0.073	mg/Kg	☼	10/19/18 22:40	10/22/18 18:24	1
4-Bromophenyl phenyl ether	<0.052		0.20	0.052	mg/Kg	☼	10/19/18 22:40	10/22/18 18:24	1
Butyl benzyl phthalate	<0.076		0.20	0.076	mg/Kg	☼	10/19/18 22:40	10/22/18 18:24	1
Carbazole	<0.099		0.20	0.099	mg/Kg	☼	10/19/18 22:40	10/22/18 18:24	1
4-Chloroaniline	<0.19		0.80	0.19	mg/Kg	☼	10/19/18 22:40	10/22/18 18:24	1
4-Chloro-3-methylphenol	<0.14		0.40	0.14	mg/Kg	☼	10/19/18 22:40	10/22/18 18:24	1
2-Chloronaphthalene	<0.044		0.20	0.044	mg/Kg	☼	10/19/18 22:40	10/22/18 18:24	1
2-Chlorophenol	<0.068		0.20	0.068	mg/Kg	☼	10/19/18 22:40	10/22/18 18:24	1
4-Chlorophenyl phenyl ether	<0.046		0.20	0.046	mg/Kg	☼	10/19/18 22:40	10/22/18 18:24	1
Chrysene	0.066		0.040	0.011	mg/Kg	☼	10/19/18 22:40	10/22/18 18:24	1
Dibenz(a,h)anthracene	0.0089	J	0.040	0.0077	mg/Kg	☼	10/19/18 22:40	10/22/18 18:24	1
Dibenzofuran	<0.047		0.20	0.047	mg/Kg	☼	10/19/18 22:40	10/22/18 18:24	1
1,2-Dichlorobenzene	<0.048		0.20	0.048	mg/Kg	☼	10/19/18 22:40	10/22/18 18:24	1
1,3-Dichlorobenzene	<0.045		0.20	0.045	mg/Kg	☼	10/19/18 22:40	10/22/18 18:24	1
1,4-Dichlorobenzene	<0.051		0.20	0.051	mg/Kg	☼	10/19/18 22:40	10/22/18 18:24	1
3,3'-Dichlorobenzidine	<0.056		0.20	0.056	mg/Kg	☼	10/19/18 22:40	10/22/18 18:24	1
2,4-Dichlorophenol	<0.095		0.40	0.095	mg/Kg	☼	10/19/18 22:40	10/22/18 18:24	1
Diethyl phthalate	<0.067		0.20	0.067	mg/Kg	☼	10/19/18 22:40	10/22/18 18:24	1
2,4-Dimethylphenol	<0.15		0.40	0.15	mg/Kg	☼	10/19/18 22:40	10/22/18 18:24	1
Dimethyl phthalate	<0.052		0.20	0.052	mg/Kg	☼	10/19/18 22:40	10/22/18 18:24	1
Di-n-butyl phthalate	<0.061		0.20	0.061	mg/Kg	☼	10/19/18 22:40	10/22/18 18:24	1
4,6-Dinitro-2-methylphenol	<0.32		0.80	0.32	mg/Kg	☼	10/19/18 22:40	10/22/18 18:24	1
2,4-Dinitrophenol	<0.70		0.80	0.70	mg/Kg	☼	10/19/18 22:40	10/22/18 18:24	1
2,4-Dinitrotoluene	<0.063		0.20	0.063	mg/Kg	☼	10/19/18 22:40	10/22/18 18:24	1
2,6-Dinitrotoluene	<0.078		0.20	0.078	mg/Kg	☼	10/19/18 22:40	10/22/18 18:24	1
Di-n-octyl phthalate	<0.065		0.20	0.065	mg/Kg	☼	10/19/18 22:40	10/22/18 18:24	1
Fluoranthene	0.095		0.040	0.0074	mg/Kg	☼	10/19/18 22:40	10/22/18 18:24	1
Fluorene	<0.0056		0.040	0.0056	mg/Kg	☼	10/19/18 22:40	10/22/18 18:24	1
Hexachlorobenzene	<0.0092		0.080	0.0092	mg/Kg	☼	10/19/18 22:40	10/22/18 18:24	1
Hexachlorobutadiene	<0.063		0.20	0.063	mg/Kg	☼	10/19/18 22:40	10/22/18 18:24	1
Hexachlorocyclopentadiene	<0.23		0.80	0.23	mg/Kg	☼	10/19/18 22:40	10/22/18 18:24	1
Hexachloroethane	<0.060		0.20	0.060	mg/Kg	☼	10/19/18 22:40	10/22/18 18:24	1
Indeno[1,2,3-cd]pyrene	0.031	J	0.040	0.010	mg/Kg	☼	10/19/18 22:40	10/22/18 18:24	1
Isophorone	<0.045		0.20	0.045	mg/Kg	☼	10/19/18 22:40	10/22/18 18:24	1
2-Methylnaphthalene	<0.0073		0.080	0.0073	mg/Kg	☼	10/19/18 22:40	10/22/18 18:24	1
2-Methylphenol	<0.064		0.20	0.064	mg/Kg	☼	10/19/18 22:40	10/22/18 18:24	1
3 & 4 Methylphenol	<0.066		0.20	0.066	mg/Kg	☼	10/19/18 22:40	10/22/18 18:24	1
Naphthalene	<0.0061		0.040	0.0061	mg/Kg	☼	10/19/18 22:40	10/22/18 18:24	1
2-Nitroaniline	<0.054		0.20	0.054	mg/Kg	☼	10/19/18 22:40	10/22/18 18:24	1
3-Nitroaniline	<0.12		0.40	0.12	mg/Kg	☼	10/19/18 22:40	10/22/18 18:24	1
4-Nitroaniline	<0.17		0.40	0.17	mg/Kg	☼	10/19/18 22:40	10/22/18 18:24	1
Nitrobenzene	<0.0099		0.040	0.0099	mg/Kg	☼	10/19/18 22:40	10/22/18 18:24	1
2-Nitrophenol	<0.094		0.40	0.094	mg/Kg	☼	10/19/18 22:40	10/22/18 18:24	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-2

Client Sample ID: 2947V-9-B03 (0-5)

Lab Sample ID: 500-153168-10

Date Collected: 10/15/18 12:25

Matrix: Solid

Date Received: 10/15/18 16:40

Percent Solids: 82.6

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	☼	10/19/18 22:40	10/22/18 18:24	1
N-Nitrosodi-n-propylamine	<0.049		0.080	0.049	mg/Kg	☼	10/19/18 22:40	10/22/18 18:24	1
N-Nitrosodiphenylamine	<0.047		0.20	0.047	mg/Kg	☼	10/19/18 22:40	10/22/18 18:24	1
2,2'-oxybis[1-chloropropane]	<0.046		0.20	0.046	mg/Kg	☼	10/19/18 22:40	10/22/18 18:24	1
Pentachlorophenol	<0.64		0.80	0.64	mg/Kg	☼	10/19/18 22:40	10/22/18 18:24	1
Phenanthrene	0.028	J	0.040	0.0055	mg/Kg	☼	10/19/18 22:40	10/22/18 18:24	1
Phenol	<0.088		0.20	0.088	mg/Kg	☼	10/19/18 22:40	10/22/18 18:24	1
Pyrene	0.085		0.040	0.0079	mg/Kg	☼	10/19/18 22:40	10/22/18 18:24	1
1,2,4-Trichlorobenzene	<0.043		0.20	0.043	mg/Kg	☼	10/19/18 22:40	10/22/18 18:24	1
2,4,5-Trichlorophenol	<0.091		0.40	0.091	mg/Kg	☼	10/19/18 22:40	10/22/18 18:24	1
2,4,6-Trichlorophenol	<0.14		0.40	0.14	mg/Kg	☼	10/19/18 22:40	10/22/18 18:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	105		44 - 121	10/19/18 22:40	10/22/18 18:24	1
2-Fluorophenol	154	X	46 - 133	10/19/18 22:40	10/22/18 18:24	1
Nitrobenzene-d5	114		41 - 120	10/19/18 22:40	10/22/18 18:24	1
Phenol-d5	128	X	46 - 125	10/19/18 22:40	10/22/18 18:24	1
Terphenyl-d14	126		35 - 160	10/19/18 22:40	10/22/18 18:24	1
2,4,6-Tribromophenol	102		25 - 139	10/19/18 22:40	10/22/18 18:24	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.43	J B	1.2	0.23	mg/Kg	☼	10/18/18 08:28	10/19/18 01:44	1
Arsenic	14		0.60	0.21	mg/Kg	☼	10/18/18 08:28	10/19/18 01:44	1
Barium	77		0.60	0.069	mg/Kg	☼	10/18/18 08:28	10/19/18 01:44	1
Beryllium	0.72		0.24	0.056	mg/Kg	☼	10/18/18 08:28	10/19/18 01:44	1
Cadmium	0.20		0.12	0.022	mg/Kg	☼	10/18/18 08:28	10/19/18 01:44	1
Chromium	17		0.60	0.30	mg/Kg	☼	10/18/18 08:28	10/19/18 01:44	1
Cobalt	15		0.30	0.079	mg/Kg	☼	10/18/18 08:28	10/19/18 01:44	1
Copper	26	B	0.60	0.17	mg/Kg	☼	10/18/18 08:28	10/19/18 01:44	1
Iron	24000	B	12	6.3	mg/Kg	☼	10/18/18 08:28	10/19/18 01:44	1
Lead	31		0.30	0.14	mg/Kg	☼	10/18/18 08:28	10/19/18 01:44	1
Magnesium	4000	B	6.0	3.0	mg/Kg	☼	10/18/18 08:28	10/19/18 01:44	1
Calcium	4000	B	12	2.0	mg/Kg	☼	10/18/18 08:28	10/19/18 01:44	1
Manganese	760		0.60	0.087	mg/Kg	☼	10/18/18 08:28	10/19/18 01:44	1
Nickel	32		0.60	0.18	mg/Kg	☼	10/18/18 08:28	10/19/18 01:44	1
Selenium	0.59	J B	0.60	0.35	mg/Kg	☼	10/18/18 08:28	10/19/18 01:44	1
Silver	0.40		0.30	0.078	mg/Kg	☼	10/18/18 08:28	10/19/18 01:44	1
Thallium	0.40	J	0.60	0.30	mg/Kg	☼	10/18/18 08:28	10/19/18 01:44	1
Vanadium	29		0.30	0.071	mg/Kg	☼	10/18/18 08:28	10/19/18 01:44	1
Zinc	95	B	1.2	0.53	mg/Kg	☼	10/18/18 08:28	10/19/18 01:44	1
Potassium	2000		30	11	mg/Kg	☼	10/18/18 08:28	10/19/18 01:44	1
Sodium	390		60	8.9	mg/Kg	☼	10/18/18 08:28	10/19/18 01:44	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		10/18/18 15:08	10/19/18 19:49	1
Barium	0.33	J	0.50	0.050	mg/L		10/18/18 15:08	10/19/18 19:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/18/18 15:08	10/19/18 19:49	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		10/18/18 15:08	10/19/18 19:49	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-2

Client Sample ID: 2947V-9-B03 (0-5)

Lab Sample ID: 500-153168-10

Date Collected: 10/15/18 12:25

Matrix: Solid

Date Received: 10/15/18 16:40

Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	130		5.0	0.50	mg/L		10/18/18 15:08	10/19/18 19:49	1
Chromium	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:49	1
Cobalt	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:49	1
Copper	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:49	1
Iron	<0.20		0.40	0.20	mg/L		10/18/18 15:08	10/19/18 19:49	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/18/18 15:08	10/19/18 19:49	1
Magnesium	66		2.5	0.50	mg/L		10/18/18 15:08	10/19/18 19:49	1
Manganese	0.11		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:49	1
Nickel	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:49	1
Potassium	2.0 J		2.5	0.50	mg/L		10/18/18 15:08	10/19/18 19:49	1
Selenium	<0.020		0.050	0.020	mg/L		10/18/18 15:08	10/19/18 19:49	1
Silver	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:49	1
Vanadium	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:49	1
Zinc	<0.020		0.50	0.020	mg/L		10/18/18 15:08	10/19/18 19:49	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		10/18/18 15:08	10/24/18 15:11	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/18/18 15:08	10/23/18 03:48	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		10/19/18 11:20	10/22/18 11:15	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.018	0.0062	mg/Kg	☼	10/18/18 16:20	10/19/18 10:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.20		0.59	0.20	mg/Kg	☼	10/24/18 14:10	10/24/18 22:11	1
pH	7.8		0.2	0.2	SU			10/22/18 17:23	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-2

Client Sample ID: 2947V-9-B03 (0-5) Dup

Lab Sample ID: 500-153168-11

Date Collected: 10/15/18 12:30

Matrix: Solid

Date Received: 10/15/18 16:40

Percent Solids: 82.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0080		0.018	0.0080	mg/Kg	☼	10/16/18 17:55	10/19/18 07:20	1
Benzene	<0.00047		0.0018	0.00047	mg/Kg	☼	10/16/18 17:55	10/19/18 07:20	1
Bromodichloromethane	<0.00037		0.0018	0.00037	mg/Kg	☼	10/16/18 17:55	10/19/18 07:20	1
Bromoform	<0.00053		0.0018	0.00053	mg/Kg	☼	10/16/18 17:55	10/19/18 07:20	1
Bromomethane	<0.0017		0.0046	0.0017	mg/Kg	☼	10/16/18 17:55	10/19/18 07:20	1
2-Butanone (MEK)	<0.0020		0.0046	0.0020	mg/Kg	☼	10/16/18 17:55	10/19/18 07:20	1
Carbon disulfide	<0.00095		0.0046	0.00095	mg/Kg	☼	10/16/18 17:55	10/19/18 07:20	1
Carbon tetrachloride	<0.00053		0.0018	0.00053	mg/Kg	☼	10/16/18 17:55	10/19/18 07:20	1
Chlorobenzene	<0.00067		0.0018	0.00067	mg/Kg	☼	10/16/18 17:55	10/19/18 07:20	1
Chloroethane	<0.0014		0.0046	0.0014	mg/Kg	☼	10/16/18 17:55	10/19/18 07:20	1
Chloroform	<0.00063		0.0018	0.00063	mg/Kg	☼	10/16/18 17:55	10/19/18 07:20	1
Chloromethane	<0.0018	*	0.0046	0.0018	mg/Kg	☼	10/16/18 17:55	10/19/18 07:20	1
cis-1,2-Dichloroethene	<0.00051		0.0018	0.00051	mg/Kg	☼	10/16/18 17:55	10/19/18 07:20	1
cis-1,3-Dichloropropene	<0.00055		0.0018	0.00055	mg/Kg	☼	10/16/18 17:55	10/19/18 07:20	1
Dibromochloromethane	<0.00060		0.0018	0.00060	mg/Kg	☼	10/16/18 17:55	10/19/18 07:20	1
1,1-Dichloroethane	<0.00063		0.0018	0.00063	mg/Kg	☼	10/16/18 17:55	10/19/18 07:20	1
1,2-Dichloroethane	<0.0014		0.0046	0.0014	mg/Kg	☼	10/16/18 17:55	10/19/18 07:20	1
1,1-Dichloroethene	<0.00063		0.0018	0.00063	mg/Kg	☼	10/16/18 17:55	10/19/18 07:20	1
1,2-Dichloropropane	<0.00047		0.0018	0.00047	mg/Kg	☼	10/16/18 17:55	10/19/18 07:20	1
1,3-Dichloropropene, Total	<0.00064		0.0018	0.00064	mg/Kg	☼	10/16/18 17:55	10/19/18 07:20	1
Ethylbenzene	<0.00087		0.0018	0.00087	mg/Kg	☼	10/16/18 17:55	10/19/18 07:20	1
2-Hexanone	<0.0014		0.0046	0.0014	mg/Kg	☼	10/16/18 17:55	10/19/18 07:20	1
Methylene Chloride	<0.0018		0.0046	0.0018	mg/Kg	☼	10/16/18 17:55	10/19/18 07:20	1
4-Methyl-2-pentanone (MIBK)	<0.0014		0.0046	0.0014	mg/Kg	☼	10/16/18 17:55	10/19/18 07:20	1
Methyl tert-butyl ether	<0.00054		0.0018	0.00054	mg/Kg	☼	10/16/18 17:55	10/19/18 07:20	1
Styrene	<0.00055		0.0018	0.00055	mg/Kg	☼	10/16/18 17:55	10/19/18 07:20	1
1,1,2,2-Tetrachloroethane	<0.00058		0.0018	0.00058	mg/Kg	☼	10/16/18 17:55	10/19/18 07:20	1
Tetrachloroethene	<0.00062		0.0018	0.00062	mg/Kg	☼	10/16/18 17:55	10/19/18 07:20	1
Toluene	<0.00046		0.0018	0.00046	mg/Kg	☼	10/16/18 17:55	10/19/18 07:20	1
trans-1,2-Dichloroethene	<0.00081		0.0018	0.00081	mg/Kg	☼	10/16/18 17:55	10/19/18 07:20	1
trans-1,3-Dichloropropene	<0.00064		0.0018	0.00064	mg/Kg	☼	10/16/18 17:55	10/19/18 07:20	1
1,1,1-Trichloroethane	<0.00061		0.0018	0.00061	mg/Kg	☼	10/16/18 17:55	10/19/18 07:20	1
1,1,2-Trichloroethane	<0.00078		0.0018	0.00078	mg/Kg	☼	10/16/18 17:55	10/19/18 07:20	1
Trichloroethene	<0.00062		0.0018	0.00062	mg/Kg	☼	10/16/18 17:55	10/19/18 07:20	1
Vinyl acetate	<0.0016		0.0046	0.0016	mg/Kg	☼	10/16/18 17:55	10/19/18 07:20	1
Vinyl chloride	<0.00081		0.0018	0.00081	mg/Kg	☼	10/16/18 17:55	10/19/18 07:20	1
Xylenes, Total	<0.00058		0.0037	0.00058	mg/Kg	☼	10/16/18 17:55	10/19/18 07:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		75 - 131	10/16/18 17:55	10/19/18 07:20	1
Dibromofluoromethane	112		75 - 126	10/16/18 17:55	10/19/18 07:20	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	10/16/18 17:55	10/19/18 07:20	1
Toluene-d8 (Surr)	96		75 - 124	10/16/18 17:55	10/19/18 07:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0070		0.039	0.0070	mg/Kg	☼	10/19/18 22:40	10/24/18 16:15	1
Acenaphthylene	<0.0051		0.039	0.0051	mg/Kg	☼	10/19/18 22:40	10/24/18 16:15	1
Anthracene	0.0090	J	0.039	0.0065	mg/Kg	☼	10/19/18 22:40	10/24/18 16:15	1
Benzo[a]anthracene	0.049		0.039	0.0052	mg/Kg	☼	10/19/18 22:40	10/24/18 16:15	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-2

Client Sample ID: 2947V-9-B03 (0-5) Dup

Lab Sample ID: 500-153168-11

Date Collected: 10/15/18 12:30

Matrix: Solid

Date Received: 10/15/18 16:40

Percent Solids: 82.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.053	B	0.039	0.0075	mg/Kg	☼	10/19/18 22:40	10/24/18 16:15	1
Benzo[b]fluoranthene	0.095		0.039	0.0084	mg/Kg	☼	10/19/18 22:40	10/24/18 16:15	1
Benzo[g,h,i]perylene	0.024	J	0.039	0.013	mg/Kg	☼	10/19/18 22:40	10/24/18 16:15	1
Benzo[k]fluoranthene	0.031	J	0.039	0.011	mg/Kg	☼	10/19/18 22:40	10/24/18 16:15	1
Bis(2-chloroethoxy)methane	<0.040		0.20	0.040	mg/Kg	☼	10/19/18 22:40	10/24/18 16:15	1
Bis(2-chloroethyl)ether	<0.058		0.20	0.058	mg/Kg	☼	10/19/18 22:40	10/24/18 16:15	1
Bis(2-ethylhexyl) phthalate	<0.071		0.20	0.071	mg/Kg	☼	10/19/18 22:40	10/24/18 16:15	1
4-Bromophenyl phenyl ether	<0.051		0.20	0.051	mg/Kg	☼	10/19/18 22:40	10/24/18 16:15	1
Butyl benzyl phthalate	<0.074		0.20	0.074	mg/Kg	☼	10/19/18 22:40	10/24/18 16:15	1
Carbazole	<0.097		0.20	0.097	mg/Kg	☼	10/19/18 22:40	10/24/18 16:15	1
4-Chloroaniline	<0.18		0.79	0.18	mg/Kg	☼	10/19/18 22:40	10/24/18 16:15	1
4-Chloro-3-methylphenol	<0.13		0.39	0.13	mg/Kg	☼	10/19/18 22:40	10/24/18 16:15	1
2-Chloronaphthalene	<0.043		0.20	0.043	mg/Kg	☼	10/19/18 22:40	10/24/18 16:15	1
2-Chlorophenol	<0.067		0.20	0.067	mg/Kg	☼	10/19/18 22:40	10/24/18 16:15	1
4-Chlorophenyl phenyl ether	<0.046		0.20	0.046	mg/Kg	☼	10/19/18 22:40	10/24/18 16:15	1
Chrysene	0.062		0.039	0.011	mg/Kg	☼	10/19/18 22:40	10/24/18 16:15	1
Dibenz(a,h)anthracene	<0.0075		0.039	0.0075	mg/Kg	☼	10/19/18 22:40	10/24/18 16:15	1
Dibenzofuran	<0.046		0.20	0.046	mg/Kg	☼	10/19/18 22:40	10/24/18 16:15	1
1,2-Dichlorobenzene	<0.047		0.20	0.047	mg/Kg	☼	10/19/18 22:40	10/24/18 16:15	1
1,3-Dichlorobenzene	<0.044		0.20	0.044	mg/Kg	☼	10/19/18 22:40	10/24/18 16:15	1
1,4-Dichlorobenzene	<0.050		0.20	0.050	mg/Kg	☼	10/19/18 22:40	10/24/18 16:15	1
3,3'-Dichlorobenzidine	<0.055		0.20	0.055	mg/Kg	☼	10/19/18 22:40	10/24/18 16:15	1
2,4-Dichlorophenol	<0.093		0.39	0.093	mg/Kg	☼	10/19/18 22:40	10/24/18 16:15	1
Diethyl phthalate	<0.066		0.20	0.066	mg/Kg	☼	10/19/18 22:40	10/24/18 16:15	1
2,4-Dimethylphenol	<0.15		0.39	0.15	mg/Kg	☼	10/19/18 22:40	10/24/18 16:15	1
Dimethyl phthalate	<0.051		0.20	0.051	mg/Kg	☼	10/19/18 22:40	10/24/18 16:15	1
Di-n-butyl phthalate	<0.059		0.20	0.059	mg/Kg	☼	10/19/18 22:40	10/24/18 16:15	1
4,6-Dinitro-2-methylphenol	<0.31		0.79	0.31	mg/Kg	☼	10/19/18 22:40	10/24/18 16:15	1
2,4-Dinitrophenol	<0.69		0.79	0.69	mg/Kg	☼	10/19/18 22:40	10/24/18 16:15	1
2,4-Dinitrotoluene	<0.062		0.20	0.062	mg/Kg	☼	10/19/18 22:40	10/24/18 16:15	1
2,6-Dinitrotoluene	<0.077		0.20	0.077	mg/Kg	☼	10/19/18 22:40	10/24/18 16:15	1
Di-n-octyl phthalate	<0.064		0.20	0.064	mg/Kg	☼	10/19/18 22:40	10/24/18 16:15	1
Fluoranthene	0.12		0.039	0.0072	mg/Kg	☼	10/19/18 22:40	10/24/18 16:15	1
Fluorene	<0.0055		0.039	0.0055	mg/Kg	☼	10/19/18 22:40	10/24/18 16:15	1
Hexachlorobenzene	<0.0090		0.079	0.0090	mg/Kg	☼	10/19/18 22:40	10/24/18 16:15	1
Hexachlorobutadiene	<0.061		0.20	0.061	mg/Kg	☼	10/19/18 22:40	10/24/18 16:15	1
Hexachlorocyclopentadiene	<0.22		0.79	0.22	mg/Kg	☼	10/19/18 22:40	10/24/18 16:15	1
Hexachloroethane	<0.059		0.20	0.059	mg/Kg	☼	10/19/18 22:40	10/24/18 16:15	1
Indeno[1,2,3-cd]pyrene	0.021	J	0.039	0.010	mg/Kg	☼	10/19/18 22:40	10/24/18 16:15	1
Isophorone	<0.044		0.20	0.044	mg/Kg	☼	10/19/18 22:40	10/24/18 16:15	1
2-Methylnaphthalene	<0.0072		0.079	0.0072	mg/Kg	☼	10/19/18 22:40	10/24/18 16:15	1
2-Methylphenol	<0.063		0.20	0.063	mg/Kg	☼	10/19/18 22:40	10/24/18 16:15	1
3 & 4 Methylphenol	<0.065		0.20	0.065	mg/Kg	☼	10/19/18 22:40	10/24/18 16:15	1
Naphthalene	<0.0060		0.039	0.0060	mg/Kg	☼	10/19/18 22:40	10/24/18 16:15	1
2-Nitroaniline	<0.052		0.20	0.052	mg/Kg	☼	10/19/18 22:40	10/24/18 16:15	1
3-Nitroaniline	<0.12		0.39	0.12	mg/Kg	☼	10/19/18 22:40	10/24/18 16:15	1
4-Nitroaniline	<0.16		0.39	0.16	mg/Kg	☼	10/19/18 22:40	10/24/18 16:15	1
Nitrobenzene	<0.0097		0.039	0.0097	mg/Kg	☼	10/19/18 22:40	10/24/18 16:15	1
2-Nitrophenol	<0.092		0.39	0.092	mg/Kg	☼	10/19/18 22:40	10/24/18 16:15	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-2

Client Sample ID: 2947V-9-B03 (0-5) Dup

Lab Sample ID: 500-153168-11

Date Collected: 10/15/18 12:30

Matrix: Solid

Date Received: 10/15/18 16:40

Percent Solids: 82.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.37		0.79	0.37	mg/Kg	☼	10/19/18 22:40	10/24/18 16:15	1
N-Nitrosodi-n-propylamine	<0.048		0.079	0.048	mg/Kg	☼	10/19/18 22:40	10/24/18 16:15	1
N-Nitrosodiphenylamine	<0.046		0.20	0.046	mg/Kg	☼	10/19/18 22:40	10/24/18 16:15	1
2,2'-oxybis[1-chloropropane]	<0.045		0.20	0.045	mg/Kg	☼	10/19/18 22:40	10/24/18 16:15	1
Pentachlorophenol	<0.63		0.79	0.63	mg/Kg	☼	10/19/18 22:40	10/24/18 16:15	1
Phenanthrene	0.047		0.039	0.0054	mg/Kg	☼	10/19/18 22:40	10/24/18 16:15	1
Phenol	<0.087		0.20	0.087	mg/Kg	☼	10/19/18 22:40	10/24/18 16:15	1
Pyrene	0.086		0.039	0.0077	mg/Kg	☼	10/19/18 22:40	10/24/18 16:15	1
1,2,4-Trichlorobenzene	<0.042		0.20	0.042	mg/Kg	☼	10/19/18 22:40	10/24/18 16:15	1
2,4,5-Trichlorophenol	<0.089		0.39	0.089	mg/Kg	☼	10/19/18 22:40	10/24/18 16:15	1
2,4,6-Trichlorophenol	<0.13		0.39	0.13	mg/Kg	☼	10/19/18 22:40	10/24/18 16:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	88		44 - 121	10/19/18 22:40	10/24/18 16:15	1
2-Fluorophenol	115		46 - 133	10/19/18 22:40	10/24/18 16:15	1
Nitrobenzene-d5	90		41 - 120	10/19/18 22:40	10/24/18 16:15	1
Phenol-d5	116		46 - 125	10/19/18 22:40	10/24/18 16:15	1
Terphenyl-d14	83		35 - 160	10/19/18 22:40	10/24/18 16:15	1
2,4,6-Tribromophenol	108		25 - 139	10/19/18 22:40	10/24/18 16:15	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.23		1.2	0.23	mg/Kg	☼	10/18/18 08:28	10/19/18 01:48	1
Arsenic	12		0.60	0.20	mg/Kg	☼	10/18/18 08:28	10/19/18 01:48	1
Barium	82		0.60	0.068	mg/Kg	☼	10/18/18 08:28	10/19/18 01:48	1
Beryllium	0.69		0.24	0.056	mg/Kg	☼	10/18/18 08:28	10/19/18 01:48	1
Cadmium	0.22		0.12	0.022	mg/Kg	☼	10/18/18 08:28	10/19/18 01:48	1
Chromium	17		0.60	0.30	mg/Kg	☼	10/18/18 08:28	10/19/18 01:48	1
Cobalt	15		0.30	0.078	mg/Kg	☼	10/18/18 08:28	10/19/18 01:48	1
Copper	21 B		0.60	0.17	mg/Kg	☼	10/18/18 08:28	10/19/18 01:48	1
Iron	22000 B		12	6.2	mg/Kg	☼	10/18/18 08:28	10/19/18 01:48	1
Lead	33		0.30	0.14	mg/Kg	☼	10/18/18 08:28	10/19/18 01:48	1
Magnesium	4000 B		6.0	3.0	mg/Kg	☼	10/18/18 08:28	10/19/18 01:48	1
Calcium	4300 B		12	2.0	mg/Kg	☼	10/18/18 08:28	10/19/18 01:48	1
Manganese	680		0.60	0.087	mg/Kg	☼	10/18/18 08:28	10/19/18 01:48	1
Nickel	30		0.60	0.17	mg/Kg	☼	10/18/18 08:28	10/19/18 01:48	1
Selenium	<0.35		0.60	0.35	mg/Kg	☼	10/18/18 08:28	10/19/18 01:48	1
Silver	0.39		0.30	0.077	mg/Kg	☼	10/18/18 08:28	10/19/18 01:48	1
Thallium	0.30 J		0.60	0.30	mg/Kg	☼	10/18/18 08:28	10/19/18 01:48	1
Vanadium	28		0.30	0.071	mg/Kg	☼	10/18/18 08:28	10/19/18 01:48	1
Zinc	94 B		1.2	0.53	mg/Kg	☼	10/18/18 08:28	10/19/18 01:48	1
Potassium	2000		30	11	mg/Kg	☼	10/18/18 08:28	10/19/18 01:48	1
Sodium	420		60	8.9	mg/Kg	☼	10/18/18 08:28	10/19/18 01:48	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		10/18/18 15:08	10/19/18 19:53	1
Barium	0.35 J		0.50	0.050	mg/L		10/18/18 15:08	10/19/18 19:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/18/18 15:08	10/19/18 19:53	1
Cadmium	0.0022 J		0.0050	0.0020	mg/L		10/18/18 15:08	10/19/18 19:53	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-2

Client Sample ID: 2947V-9-B03 (0-5) Dup

Lab Sample ID: 500-153168-11

Date Collected: 10/15/18 12:30

Matrix: Solid

Date Received: 10/15/18 16:40

Percent Solids: 82.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	150		5.0	0.50	mg/L		10/18/18 15:08	10/19/18 19:53	1
Chromium	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:53	1
Cobalt	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:53	1
Copper	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:53	1
Iron	<0.20		0.40	0.20	mg/L		10/18/18 15:08	10/19/18 19:53	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/18/18 15:08	10/19/18 19:53	1
Magnesium	73		2.5	0.50	mg/L		10/18/18 15:08	10/19/18 19:53	1
Manganese	0.13		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:53	1
Nickel	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:53	1
Potassium	1.9 J		2.5	0.50	mg/L		10/18/18 15:08	10/19/18 19:53	1
Selenium	<0.020		0.050	0.020	mg/L		10/18/18 15:08	10/19/18 19:53	1
Silver	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:53	1
Vanadium	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:53	1
Zinc	0.077 J B		0.50	0.020	mg/L		10/18/18 15:08	10/19/18 19:53	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		10/18/18 15:08	10/24/18 15:15	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/18/18 15:08	10/23/18 03:52	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		10/19/18 11:20	10/22/18 11:22	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.019	0.0065	mg/Kg	☼	10/18/18 16:20	10/19/18 10:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.19		0.54	0.19	mg/Kg	☼	10/24/18 14:10	10/24/18 22:11	1
pH	7.8		0.2	0.2	SU			10/22/18 17:23	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-2

Client Sample ID: 2947V-9-B02 (0-5)

Lab Sample ID: 500-153168-12

Date Collected: 10/15/18 12:55

Matrix: Solid

Date Received: 10/15/18 16:40

Percent Solids: 83.1

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	☼	10/16/18 17:55	10/19/18 07:45	1
Benzene	<0.00045		0.0018	0.00045	mg/Kg	☼	10/16/18 17:55	10/19/18 07:45	1
Bromodichloromethane	<0.00036		0.0018	0.00036	mg/Kg	☼	10/16/18 17:55	10/19/18 07:45	1
Bromoform	<0.00051		0.0018	0.00051	mg/Kg	☼	10/16/18 17:55	10/19/18 07:45	1
Bromomethane	<0.0017		0.0044	0.0017	mg/Kg	☼	10/16/18 17:55	10/19/18 07:45	1
2-Butanone (MEK)	<0.0020		0.0044	0.0020	mg/Kg	☼	10/16/18 17:55	10/19/18 07:45	1
Carbon disulfide	<0.00092		0.0044	0.00092	mg/Kg	☼	10/16/18 17:55	10/19/18 07:45	1
Carbon tetrachloride	<0.00051		0.0018	0.00051	mg/Kg	☼	10/16/18 17:55	10/19/18 07:45	1
Chlorobenzene	<0.00065		0.0018	0.00065	mg/Kg	☼	10/16/18 17:55	10/19/18 07:45	1
Chloroethane	<0.0013		0.0044	0.0013	mg/Kg	☼	10/16/18 17:55	10/19/18 07:45	1
Chloroform	<0.00061		0.0018	0.00061	mg/Kg	☼	10/16/18 17:55	10/19/18 07:45	1
Chloromethane	<0.0018	*	0.0044	0.0018	mg/Kg	☼	10/16/18 17:55	10/19/18 07:45	1
cis-1,2-Dichloroethene	<0.00049		0.0018	0.00049	mg/Kg	☼	10/16/18 17:55	10/19/18 07:45	1
cis-1,3-Dichloropropene	<0.00053		0.0018	0.00053	mg/Kg	☼	10/16/18 17:55	10/19/18 07:45	1
Dibromochloromethane	<0.00058		0.0018	0.00058	mg/Kg	☼	10/16/18 17:55	10/19/18 07:45	1
1,1-Dichloroethane	<0.00060		0.0018	0.00060	mg/Kg	☼	10/16/18 17:55	10/19/18 07:45	1
1,2-Dichloroethane	<0.0014		0.0044	0.0014	mg/Kg	☼	10/16/18 17:55	10/19/18 07:45	1
1,1-Dichloroethene	<0.00061		0.0018	0.00061	mg/Kg	☼	10/16/18 17:55	10/19/18 07:45	1
1,2-Dichloropropane	<0.00046		0.0018	0.00046	mg/Kg	☼	10/16/18 17:55	10/19/18 07:45	1
1,3-Dichloropropene, Total	<0.00062		0.0018	0.00062	mg/Kg	☼	10/16/18 17:55	10/19/18 07:45	1
Ethylbenzene	<0.00084		0.0018	0.00084	mg/Kg	☼	10/16/18 17:55	10/19/18 07:45	1
2-Hexanone	<0.0014		0.0044	0.0014	mg/Kg	☼	10/16/18 17:55	10/19/18 07:45	1
Methylene Chloride	<0.0017		0.0044	0.0017	mg/Kg	☼	10/16/18 17:55	10/19/18 07:45	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0044	0.0013	mg/Kg	☼	10/16/18 17:55	10/19/18 07:45	1
Methyl tert-butyl ether	<0.00052		0.0018	0.00052	mg/Kg	☼	10/16/18 17:55	10/19/18 07:45	1
Styrene	<0.00053		0.0018	0.00053	mg/Kg	☼	10/16/18 17:55	10/19/18 07:45	1
1,1,2,2-Tetrachloroethane	<0.00056		0.0018	0.00056	mg/Kg	☼	10/16/18 17:55	10/19/18 07:45	1
Tetrachloroethene	<0.00060		0.0018	0.00060	mg/Kg	☼	10/16/18 17:55	10/19/18 07:45	1
Toluene	<0.00044		0.0018	0.00044	mg/Kg	☼	10/16/18 17:55	10/19/18 07:45	1
trans-1,2-Dichloroethene	<0.00078		0.0018	0.00078	mg/Kg	☼	10/16/18 17:55	10/19/18 07:45	1
trans-1,3-Dichloropropene	<0.00062		0.0018	0.00062	mg/Kg	☼	10/16/18 17:55	10/19/18 07:45	1
1,1,1-Trichloroethane	<0.00059		0.0018	0.00059	mg/Kg	☼	10/16/18 17:55	10/19/18 07:45	1
1,1,2-Trichloroethane	<0.00076		0.0018	0.00076	mg/Kg	☼	10/16/18 17:55	10/19/18 07:45	1
Trichloroethene	<0.00060		0.0018	0.00060	mg/Kg	☼	10/16/18 17:55	10/19/18 07:45	1
Vinyl acetate	<0.0015		0.0044	0.0015	mg/Kg	☼	10/16/18 17:55	10/19/18 07:45	1
Vinyl chloride	<0.00078		0.0018	0.00078	mg/Kg	☼	10/16/18 17:55	10/19/18 07:45	1
Xylenes, Total	<0.00056		0.0035	0.00056	mg/Kg	☼	10/16/18 17:55	10/19/18 07:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		75 - 131	10/16/18 17:55	10/19/18 07:45	1
Dibromofluoromethane	114		75 - 126	10/16/18 17:55	10/19/18 07:45	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	10/16/18 17:55	10/19/18 07:45	1
Toluene-d8 (Surr)	95		75 - 124	10/16/18 17:55	10/19/18 07:45	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	☼	10/19/18 22:40	10/22/18 15:36	1
Acenaphthylene	<0.0051		0.038	0.0051	mg/Kg	☼	10/19/18 22:40	10/22/18 15:36	1
Anthracene	<0.0064		0.038	0.0064	mg/Kg	☼	10/19/18 22:40	10/22/18 15:36	1
Benzo[a]anthracene	0.0053	J	0.038	0.0052	mg/Kg	☼	10/19/18 22:40	10/22/18 15:36	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-2

Client Sample ID: 2947V-9-B02 (0-5)

Lab Sample ID: 500-153168-12

Date Collected: 10/15/18 12:55

Matrix: Solid

Date Received: 10/15/18 16:40

Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.0075		0.038	0.0075	mg/Kg	☼	10/19/18 22:40	10/22/18 15:36	1
Benzo[b]fluoranthene	0.0088	J	0.038	0.0083	mg/Kg	☼	10/19/18 22:40	10/22/18 15:36	1
Benzo[g,h,i]perylene	<0.012		0.038	0.012	mg/Kg	☼	10/19/18 22:40	10/22/18 15:36	1
Benzo[k]fluoranthene	<0.011		0.038	0.011	mg/Kg	☼	10/19/18 22:40	10/22/18 15:36	1
Bis(2-chloroethoxy)methane	<0.039		0.19	0.039	mg/Kg	☼	10/19/18 22:40	10/22/18 15:36	1
Bis(2-chloroethyl)ether	<0.058		0.19	0.058	mg/Kg	☼	10/19/18 22:40	10/22/18 15:36	1
Bis(2-ethylhexyl) phthalate	<0.070		0.19	0.070	mg/Kg	☼	10/19/18 22:40	10/22/18 15:36	1
4-Bromophenyl phenyl ether	<0.051		0.19	0.051	mg/Kg	☼	10/19/18 22:40	10/22/18 15:36	1
Butyl benzyl phthalate	<0.073		0.19	0.073	mg/Kg	☼	10/19/18 22:40	10/22/18 15:36	1
Carbazole	<0.096		0.19	0.096	mg/Kg	☼	10/19/18 22:40	10/22/18 15:36	1
4-Chloroaniline	<0.18		0.78	0.18	mg/Kg	☼	10/19/18 22:40	10/22/18 15:36	1
4-Chloro-3-methylphenol	<0.13		0.38	0.13	mg/Kg	☼	10/19/18 22:40	10/22/18 15:36	1
2-Chloronaphthalene	<0.043		0.19	0.043	mg/Kg	☼	10/19/18 22:40	10/22/18 15:36	1
2-Chlorophenol	<0.066		0.19	0.066	mg/Kg	☼	10/19/18 22:40	10/22/18 15:36	1
4-Chlorophenyl phenyl ether	<0.045		0.19	0.045	mg/Kg	☼	10/19/18 22:40	10/22/18 15:36	1
Chrysene	<0.011		0.038	0.011	mg/Kg	☼	10/19/18 22:40	10/22/18 15:36	1
Dibenz(a,h)anthracene	<0.0074		0.038	0.0074	mg/Kg	☼	10/19/18 22:40	10/22/18 15:36	1
Dibenzofuran	<0.045		0.19	0.045	mg/Kg	☼	10/19/18 22:40	10/22/18 15:36	1
1,2-Dichlorobenzene	<0.046		0.19	0.046	mg/Kg	☼	10/19/18 22:40	10/22/18 15:36	1
1,3-Dichlorobenzene	<0.043		0.19	0.043	mg/Kg	☼	10/19/18 22:40	10/22/18 15:36	1
1,4-Dichlorobenzene	<0.049		0.19	0.049	mg/Kg	☼	10/19/18 22:40	10/22/18 15:36	1
3,3'-Dichlorobenzidine	<0.054		0.19	0.054	mg/Kg	☼	10/19/18 22:40	10/22/18 15:36	1
2,4-Dichlorophenol	<0.091		0.38	0.091	mg/Kg	☼	10/19/18 22:40	10/22/18 15:36	1
Diethyl phthalate	<0.065		0.19	0.065	mg/Kg	☼	10/19/18 22:40	10/22/18 15:36	1
2,4-Dimethylphenol	<0.15		0.38	0.15	mg/Kg	☼	10/19/18 22:40	10/22/18 15:36	1
Dimethyl phthalate	<0.050		0.19	0.050	mg/Kg	☼	10/19/18 22:40	10/22/18 15:36	1
Di-n-butyl phthalate	<0.059		0.19	0.059	mg/Kg	☼	10/19/18 22:40	10/22/18 15:36	1
4,6-Dinitro-2-methylphenol	<0.31		0.78	0.31	mg/Kg	☼	10/19/18 22:40	10/22/18 15:36	1
2,4-Dinitrophenol	<0.68		0.78	0.68	mg/Kg	☼	10/19/18 22:40	10/22/18 15:36	1
2,4-Dinitrotoluene	<0.061		0.19	0.061	mg/Kg	☼	10/19/18 22:40	10/22/18 15:36	1
2,6-Dinitrotoluene	<0.076		0.19	0.076	mg/Kg	☼	10/19/18 22:40	10/22/18 15:36	1
Di-n-octyl phthalate	<0.063		0.19	0.063	mg/Kg	☼	10/19/18 22:40	10/22/18 15:36	1
Fluoranthene	0.0097	J	0.038	0.0071	mg/Kg	☼	10/19/18 22:40	10/22/18 15:36	1
Fluorene	<0.0054		0.038	0.0054	mg/Kg	☼	10/19/18 22:40	10/22/18 15:36	1
Hexachlorobenzene	<0.0089		0.078	0.0089	mg/Kg	☼	10/19/18 22:40	10/22/18 15:36	1
Hexachlorobutadiene	<0.061		0.19	0.061	mg/Kg	☼	10/19/18 22:40	10/22/18 15:36	1
Hexachlorocyclopentadiene	<0.22		0.78	0.22	mg/Kg	☼	10/19/18 22:40	10/22/18 15:36	1
Hexachloroethane	<0.059		0.19	0.059	mg/Kg	☼	10/19/18 22:40	10/22/18 15:36	1
Indeno[1,2,3-cd]pyrene	<0.010		0.038	0.010	mg/Kg	☼	10/19/18 22:40	10/22/18 15:36	1
Isophorone	<0.043		0.19	0.043	mg/Kg	☼	10/19/18 22:40	10/22/18 15:36	1
2-Methylnaphthalene	<0.0071		0.078	0.0071	mg/Kg	☼	10/19/18 22:40	10/22/18 15:36	1
2-Methylphenol	<0.062		0.19	0.062	mg/Kg	☼	10/19/18 22:40	10/22/18 15:36	1
3 & 4 Methylphenol	<0.064		0.19	0.064	mg/Kg	☼	10/19/18 22:40	10/22/18 15:36	1
Naphthalene	<0.0059		0.038	0.0059	mg/Kg	☼	10/19/18 22:40	10/22/18 15:36	1
2-Nitroaniline	<0.052		0.19	0.052	mg/Kg	☼	10/19/18 22:40	10/22/18 15:36	1
3-Nitroaniline	<0.12		0.38	0.12	mg/Kg	☼	10/19/18 22:40	10/22/18 15:36	1
4-Nitroaniline	<0.16		0.38	0.16	mg/Kg	☼	10/19/18 22:40	10/22/18 15:36	1
Nitrobenzene	<0.0096		0.038	0.0096	mg/Kg	☼	10/19/18 22:40	10/22/18 15:36	1
2-Nitrophenol	<0.091		0.38	0.091	mg/Kg	☼	10/19/18 22:40	10/22/18 15:36	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-2

Client Sample ID: 2947V-9-B02 (0-5)

Lab Sample ID: 500-153168-12

Date Collected: 10/15/18 12:55

Matrix: Solid

Date Received: 10/15/18 16:40

Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.37		0.78	0.37	mg/Kg	☼	10/19/18 22:40	10/22/18 15:36	1
N-Nitrosodi-n-propylamine	<0.047		0.078	0.047	mg/Kg	☼	10/19/18 22:40	10/22/18 15:36	1
N-Nitrosodiphenylamine	<0.045		0.19	0.045	mg/Kg	☼	10/19/18 22:40	10/22/18 15:36	1
2,2'-oxybis[1-chloropropane]	<0.045		0.19	0.045	mg/Kg	☼	10/19/18 22:40	10/22/18 15:36	1
Pentachlorophenol	<0.62		0.78	0.62	mg/Kg	☼	10/19/18 22:40	10/22/18 15:36	1
Phenanthrene	<0.0054		0.038	0.0054	mg/Kg	☼	10/19/18 22:40	10/22/18 15:36	1
Phenol	<0.086		0.19	0.086	mg/Kg	☼	10/19/18 22:40	10/22/18 15:36	1
Pyrene	<0.0077		0.038	0.0077	mg/Kg	☼	10/19/18 22:40	10/22/18 15:36	1
1,2,4-Trichlorobenzene	<0.042		0.19	0.042	mg/Kg	☼	10/19/18 22:40	10/22/18 15:36	1
2,4,5-Trichlorophenol	<0.088		0.38	0.088	mg/Kg	☼	10/19/18 22:40	10/22/18 15:36	1
2,4,6-Trichlorophenol	<0.13		0.38	0.13	mg/Kg	☼	10/19/18 22:40	10/22/18 15:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	111		44 - 121	10/19/18 22:40	10/22/18 15:36	1
2-Fluorophenol	172	X	46 - 133	10/19/18 22:40	10/22/18 15:36	1
Nitrobenzene-d5	119		41 - 120	10/19/18 22:40	10/22/18 15:36	1
Phenol-d5	146	X	46 - 125	10/19/18 22:40	10/22/18 15:36	1
Terphenyl-d14	123		35 - 160	10/19/18 22:40	10/22/18 15:36	1
2,4,6-Tribromophenol	115		25 - 139	10/19/18 22:40	10/22/18 15:36	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.42	J B	1.1	0.22	mg/Kg	☼	10/18/18 08:28	10/19/18 01:52	1
Arsenic	17		0.56	0.19	mg/Kg	☼	10/18/18 08:28	10/19/18 01:52	1
Barium	61		0.56	0.064	mg/Kg	☼	10/18/18 08:28	10/19/18 01:52	1
Beryllium	0.67		0.22	0.052	mg/Kg	☼	10/18/18 08:28	10/19/18 01:52	1
Cadmium	0.13		0.11	0.020	mg/Kg	☼	10/18/18 08:28	10/19/18 01:52	1
Chromium	18		0.56	0.28	mg/Kg	☼	10/18/18 08:28	10/19/18 01:52	1
Cobalt	15		0.28	0.073	mg/Kg	☼	10/18/18 08:28	10/19/18 01:52	1
Copper	20	B	0.56	0.16	mg/Kg	☼	10/18/18 08:28	10/19/18 01:52	1
Iron	28000	B	11	5.8	mg/Kg	☼	10/18/18 08:28	10/19/18 01:52	1
Lead	22		0.28	0.13	mg/Kg	☼	10/18/18 08:28	10/19/18 01:52	1
Magnesium	2900	B	5.6	2.8	mg/Kg	☼	10/18/18 08:28	10/19/18 01:52	1
Calcium	1500	B	11	1.9	mg/Kg	☼	10/18/18 08:28	10/19/18 01:52	1
Manganese	700		0.56	0.081	mg/Kg	☼	10/18/18 08:28	10/19/18 01:52	1
Nickel	28		0.56	0.16	mg/Kg	☼	10/18/18 08:28	10/19/18 01:52	1
Selenium	<0.33		0.56	0.33	mg/Kg	☼	10/18/18 08:28	10/19/18 01:52	1
Silver	0.35		0.28	0.072	mg/Kg	☼	10/18/18 08:28	10/19/18 01:52	1
Thallium	<0.28		0.56	0.28	mg/Kg	☼	10/18/18 08:28	10/19/18 01:52	1
Vanadium	30		0.28	0.066	mg/Kg	☼	10/18/18 08:28	10/19/18 01:52	1
Zinc	95	B	1.1	0.49	mg/Kg	☼	10/18/18 08:28	10/19/18 01:52	1
Potassium	1900		28	9.9	mg/Kg	☼	10/18/18 08:28	10/19/18 01:52	1
Sodium	510		56	8.3	mg/Kg	☼	10/18/18 08:28	10/19/18 01:52	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		10/18/18 15:08	10/19/18 19:57	1
Barium	0.20	J	0.50	0.050	mg/L		10/18/18 15:08	10/19/18 19:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/18/18 15:08	10/19/18 19:57	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		10/18/18 15:08	10/19/18 19:57	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-2

Client Sample ID: 2947V-9-B02 (0-5)

Lab Sample ID: 500-153168-12

Date Collected: 10/15/18 12:55

Matrix: Solid

Date Received: 10/15/18 16:40

Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	43		5.0	0.50	mg/L		10/18/18 15:08	10/19/18 19:57	1
Chromium	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:57	1
Cobalt	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:57	1
Copper	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:57	1
Iron	<0.20		0.40	0.20	mg/L		10/18/18 15:08	10/19/18 19:57	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/18/18 15:08	10/19/18 19:57	1
Magnesium	16		2.5	0.50	mg/L		10/18/18 15:08	10/19/18 19:57	1
Manganese	0.053		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:57	1
Nickel	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:57	1
Potassium	0.67 J		2.5	0.50	mg/L		10/18/18 15:08	10/19/18 19:57	1
Selenium	<0.020		0.050	0.020	mg/L		10/18/18 15:08	10/19/18 19:57	1
Silver	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:57	1
Vanadium	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 19:57	1
Zinc	<0.020		0.50	0.020	mg/L		10/18/18 15:08	10/19/18 19:57	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		10/18/18 15:08	10/24/18 15:18	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/18/18 15:08	10/23/18 03:56	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		10/19/18 11:20	10/22/18 11:24	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.019	0.0065	mg/Kg	☼	10/18/18 16:20	10/19/18 10:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.20		0.57	0.20	mg/Kg	☼	10/24/18 14:10	10/24/18 22:12	1
pH	7.8		0.2	0.2	SU			10/22/18 17:23	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-2

Client Sample ID: 2947V-9-B01 (0-5)

Lab Sample ID: 500-153168-13

Date Collected: 10/15/18 13:15

Matrix: Solid

Date Received: 10/15/18 16:40

Percent Solids: 81.8

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	☼	10/16/18 17:55	10/19/18 08:11	1
Benzene	<0.00048		0.0019	0.00048	mg/Kg	☼	10/16/18 17:55	10/19/18 08:11	1
Bromodichloromethane	<0.00039		0.0019	0.00039	mg/Kg	☼	10/16/18 17:55	10/19/18 08:11	1
Bromoform	<0.00055		0.0019	0.00055	mg/Kg	☼	10/16/18 17:55	10/19/18 08:11	1
Bromomethane	<0.0018		0.0047	0.0018	mg/Kg	☼	10/16/18 17:55	10/19/18 08:11	1
2-Butanone (MEK)	<0.0021		0.0047	0.0021	mg/Kg	☼	10/16/18 17:55	10/19/18 08:11	1
Carbon disulfide	<0.00099		0.0047	0.00099	mg/Kg	☼	10/16/18 17:55	10/19/18 08:11	1
Carbon tetrachloride	<0.00055		0.0019	0.00055	mg/Kg	☼	10/16/18 17:55	10/19/18 08:11	1
Chlorobenzene	<0.00070		0.0019	0.00070	mg/Kg	☼	10/16/18 17:55	10/19/18 08:11	1
Chloroethane	<0.0014		0.0047	0.0014	mg/Kg	☼	10/16/18 17:55	10/19/18 08:11	1
Chloroform	<0.00066		0.0019	0.00066	mg/Kg	☼	10/16/18 17:55	10/19/18 08:11	1
Chloromethane	<0.0019	*	0.0047	0.0019	mg/Kg	☼	10/16/18 17:55	10/19/18 08:11	1
cis-1,2-Dichloroethene	<0.00053		0.0019	0.00053	mg/Kg	☼	10/16/18 17:55	10/19/18 08:11	1
cis-1,3-Dichloropropene	<0.00057		0.0019	0.00057	mg/Kg	☼	10/16/18 17:55	10/19/18 08:11	1
Dibromochloromethane	<0.00062		0.0019	0.00062	mg/Kg	☼	10/16/18 17:55	10/19/18 08:11	1
1,1-Dichloroethane	<0.00065		0.0019	0.00065	mg/Kg	☼	10/16/18 17:55	10/19/18 08:11	1
1,2-Dichloroethane	<0.0015		0.0047	0.0015	mg/Kg	☼	10/16/18 17:55	10/19/18 08:11	1
1,1-Dichloroethene	<0.00065		0.0019	0.00065	mg/Kg	☼	10/16/18 17:55	10/19/18 08:11	1
1,2-Dichloropropane	<0.00049		0.0019	0.00049	mg/Kg	☼	10/16/18 17:55	10/19/18 08:11	1
1,3-Dichloropropane, Total	<0.00067		0.0019	0.00067	mg/Kg	☼	10/16/18 17:55	10/19/18 08:11	1
Ethylbenzene	<0.00091		0.0019	0.00091	mg/Kg	☼	10/16/18 17:55	10/19/18 08:11	1
2-Hexanone	<0.0015		0.0047	0.0015	mg/Kg	☼	10/16/18 17:55	10/19/18 08:11	1
Methylene Chloride	<0.0019		0.0047	0.0019	mg/Kg	☼	10/16/18 17:55	10/19/18 08:11	1
4-Methyl-2-pentanone (MIBK)	<0.0014		0.0047	0.0014	mg/Kg	☼	10/16/18 17:55	10/19/18 08:11	1
Methyl tert-butyl ether	<0.00056		0.0019	0.00056	mg/Kg	☼	10/16/18 17:55	10/19/18 08:11	1
Styrene	<0.00057		0.0019	0.00057	mg/Kg	☼	10/16/18 17:55	10/19/18 08:11	1
1,1,2,2-Tetrachloroethane	<0.00061		0.0019	0.00061	mg/Kg	☼	10/16/18 17:55	10/19/18 08:11	1
Tetrachloroethene	<0.00065		0.0019	0.00065	mg/Kg	☼	10/16/18 17:55	10/19/18 08:11	1
Toluene	<0.00048		0.0019	0.00048	mg/Kg	☼	10/16/18 17:55	10/19/18 08:11	1
trans-1,2-Dichloroethene	<0.00084		0.0019	0.00084	mg/Kg	☼	10/16/18 17:55	10/19/18 08:11	1
trans-1,3-Dichloropropene	<0.00067		0.0019	0.00067	mg/Kg	☼	10/16/18 17:55	10/19/18 08:11	1
1,1,1-Trichloroethane	<0.00064		0.0019	0.00064	mg/Kg	☼	10/16/18 17:55	10/19/18 08:11	1
1,1,2-Trichloroethane	<0.00081		0.0019	0.00081	mg/Kg	☼	10/16/18 17:55	10/19/18 08:11	1
Trichloroethene	<0.00064		0.0019	0.00064	mg/Kg	☼	10/16/18 17:55	10/19/18 08:11	1
Vinyl acetate	<0.0016		0.0047	0.0016	mg/Kg	☼	10/16/18 17:55	10/19/18 08:11	1
Vinyl chloride	<0.00084		0.0019	0.00084	mg/Kg	☼	10/16/18 17:55	10/19/18 08:11	1
Xylenes, Total	<0.00061		0.0038	0.00061	mg/Kg	☼	10/16/18 17:55	10/19/18 08:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		75 - 131	10/16/18 17:55	10/19/18 08:11	1
Dibromofluoromethane	112		75 - 126	10/16/18 17:55	10/19/18 08:11	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	10/16/18 17:55	10/19/18 08:11	1
Toluene-d8 (Surr)	93		75 - 124	10/16/18 17:55	10/19/18 08:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0070		0.039	0.0070	mg/Kg	☼	10/19/18 22:40	10/22/18 16:32	1
Acenaphthylene	0.0072	J	0.039	0.0052	mg/Kg	☼	10/19/18 22:40	10/22/18 16:32	1
Anthracene	<0.0065		0.039	0.0065	mg/Kg	☼	10/19/18 22:40	10/22/18 16:32	1
Benzo[a]anthracene	0.040		0.039	0.0053	mg/Kg	☼	10/19/18 22:40	10/22/18 16:32	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-2

Client Sample ID: 2947V-9-B01 (0-5)

Lab Sample ID: 500-153168-13

Date Collected: 10/15/18 13:15

Matrix: Solid

Date Received: 10/15/18 16:40

Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.060	B	0.039	0.0076	mg/Kg	☼	10/19/18 22:40	10/22/18 16:32	1
Benzo[b]fluoranthene	0.11		0.039	0.0084	mg/Kg	☼	10/19/18 22:40	10/22/18 16:32	1
Benzo[g,h,i]perylene	0.040		0.039	0.013	mg/Kg	☼	10/19/18 22:40	10/22/18 16:32	1
Benzo[k]fluoranthene	0.029	J	0.039	0.012	mg/Kg	☼	10/19/18 22:40	10/22/18 16:32	1
Bis(2-chloroethoxy)methane	<0.040		0.20	0.040	mg/Kg	☼	10/19/18 22:40	10/22/18 16:32	1
Bis(2-chloroethyl)ether	<0.059		0.20	0.059	mg/Kg	☼	10/19/18 22:40	10/22/18 16:32	1
Bis(2-ethylhexyl) phthalate	<0.072		0.20	0.072	mg/Kg	☼	10/19/18 22:40	10/22/18 16:32	1
4-Bromophenyl phenyl ether	<0.052		0.20	0.052	mg/Kg	☼	10/19/18 22:40	10/22/18 16:32	1
Butyl benzyl phthalate	<0.074		0.20	0.074	mg/Kg	☼	10/19/18 22:40	10/22/18 16:32	1
Carbazole	<0.098		0.20	0.098	mg/Kg	☼	10/19/18 22:40	10/22/18 16:32	1
4-Chloroaniline	<0.18		0.79	0.18	mg/Kg	☼	10/19/18 22:40	10/22/18 16:32	1
4-Chloro-3-methylphenol	<0.13		0.39	0.13	mg/Kg	☼	10/19/18 22:40	10/22/18 16:32	1
2-Chloronaphthalene	<0.043		0.20	0.043	mg/Kg	☼	10/19/18 22:40	10/22/18 16:32	1
2-Chlorophenol	<0.067		0.20	0.067	mg/Kg	☼	10/19/18 22:40	10/22/18 16:32	1
4-Chlorophenyl phenyl ether	<0.046		0.20	0.046	mg/Kg	☼	10/19/18 22:40	10/22/18 16:32	1
Chrysene	0.063		0.039	0.011	mg/Kg	☼	10/19/18 22:40	10/22/18 16:32	1
Dibenz(a,h)anthracene	0.0086	J	0.039	0.0076	mg/Kg	☼	10/19/18 22:40	10/22/18 16:32	1
Dibenzofuran	<0.046		0.20	0.046	mg/Kg	☼	10/19/18 22:40	10/22/18 16:32	1
1,2-Dichlorobenzene	<0.047		0.20	0.047	mg/Kg	☼	10/19/18 22:40	10/22/18 16:32	1
1,3-Dichlorobenzene	<0.044		0.20	0.044	mg/Kg	☼	10/19/18 22:40	10/22/18 16:32	1
1,4-Dichlorobenzene	<0.050		0.20	0.050	mg/Kg	☼	10/19/18 22:40	10/22/18 16:32	1
3,3'-Dichlorobenzidine	<0.055		0.20	0.055	mg/Kg	☼	10/19/18 22:40	10/22/18 16:32	1
2,4-Dichlorophenol	<0.093		0.39	0.093	mg/Kg	☼	10/19/18 22:40	10/22/18 16:32	1
Diethyl phthalate	<0.066		0.20	0.066	mg/Kg	☼	10/19/18 22:40	10/22/18 16:32	1
2,4-Dimethylphenol	<0.15		0.39	0.15	mg/Kg	☼	10/19/18 22:40	10/22/18 16:32	1
Dimethyl phthalate	<0.051		0.20	0.051	mg/Kg	☼	10/19/18 22:40	10/22/18 16:32	1
Di-n-butyl phthalate	<0.060		0.20	0.060	mg/Kg	☼	10/19/18 22:40	10/22/18 16:32	1
4,6-Dinitro-2-methylphenol	<0.31		0.79	0.31	mg/Kg	☼	10/19/18 22:40	10/22/18 16:32	1
2,4-Dinitrophenol	<0.69		0.79	0.69	mg/Kg	☼	10/19/18 22:40	10/22/18 16:32	1
2,4-Dinitrotoluene	<0.062		0.20	0.062	mg/Kg	☼	10/19/18 22:40	10/22/18 16:32	1
2,6-Dinitrotoluene	<0.077		0.20	0.077	mg/Kg	☼	10/19/18 22:40	10/22/18 16:32	1
Di-n-octyl phthalate	<0.064		0.20	0.064	mg/Kg	☼	10/19/18 22:40	10/22/18 16:32	1
Fluoranthene	0.095		0.039	0.0073	mg/Kg	☼	10/19/18 22:40	10/22/18 16:32	1
Fluorene	<0.0055		0.039	0.0055	mg/Kg	☼	10/19/18 22:40	10/22/18 16:32	1
Hexachlorobenzene	<0.0091		0.079	0.0091	mg/Kg	☼	10/19/18 22:40	10/22/18 16:32	1
Hexachlorobutadiene	<0.062		0.20	0.062	mg/Kg	☼	10/19/18 22:40	10/22/18 16:32	1
Hexachlorocyclopentadiene	<0.23		0.79	0.23	mg/Kg	☼	10/19/18 22:40	10/22/18 16:32	1
Hexachloroethane	<0.060		0.20	0.060	mg/Kg	☼	10/19/18 22:40	10/22/18 16:32	1
Indeno[1,2,3-cd]pyrene	0.034	J	0.039	0.010	mg/Kg	☼	10/19/18 22:40	10/22/18 16:32	1
Isophorone	<0.044		0.20	0.044	mg/Kg	☼	10/19/18 22:40	10/22/18 16:32	1
2-Methylnaphthalene	<0.0072		0.079	0.0072	mg/Kg	☼	10/19/18 22:40	10/22/18 16:32	1
2-Methylphenol	<0.063		0.20	0.063	mg/Kg	☼	10/19/18 22:40	10/22/18 16:32	1
3 & 4 Methylphenol	<0.065		0.20	0.065	mg/Kg	☼	10/19/18 22:40	10/22/18 16:32	1
Naphthalene	<0.0060		0.039	0.0060	mg/Kg	☼	10/19/18 22:40	10/22/18 16:32	1
2-Nitroaniline	<0.053		0.20	0.053	mg/Kg	☼	10/19/18 22:40	10/22/18 16:32	1
3-Nitroaniline	<0.12		0.39	0.12	mg/Kg	☼	10/19/18 22:40	10/22/18 16:32	1
4-Nitroaniline	<0.16		0.39	0.16	mg/Kg	☼	10/19/18 22:40	10/22/18 16:32	1
Nitrobenzene	<0.0098		0.039	0.0098	mg/Kg	☼	10/19/18 22:40	10/22/18 16:32	1
2-Nitrophenol	<0.092		0.39	0.092	mg/Kg	☼	10/19/18 22:40	10/22/18 16:32	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-2

Client Sample ID: 2947V-9-B01 (0-5)

Lab Sample ID: 500-153168-13

Date Collected: 10/15/18 13:15

Matrix: Solid

Date Received: 10/15/18 16:40

Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.37		0.79	0.37	mg/Kg	☼	10/19/18 22:40	10/22/18 16:32	1
N-Nitrosodi-n-propylamine	<0.048		0.079	0.048	mg/Kg	☼	10/19/18 22:40	10/22/18 16:32	1
N-Nitrosodiphenylamine	<0.046		0.20	0.046	mg/Kg	☼	10/19/18 22:40	10/22/18 16:32	1
2,2'-oxybis[1-chloropropane]	<0.045		0.20	0.045	mg/Kg	☼	10/19/18 22:40	10/22/18 16:32	1
Pentachlorophenol	<0.63		0.79	0.63	mg/Kg	☼	10/19/18 22:40	10/22/18 16:32	1
Phenanthrene	0.031	J	0.039	0.0055	mg/Kg	☼	10/19/18 22:40	10/22/18 16:32	1
Phenol	<0.087		0.20	0.087	mg/Kg	☼	10/19/18 22:40	10/22/18 16:32	1
Pyrene	0.080		0.039	0.0078	mg/Kg	☼	10/19/18 22:40	10/22/18 16:32	1
1,2,4-Trichlorobenzene	<0.042		0.20	0.042	mg/Kg	☼	10/19/18 22:40	10/22/18 16:32	1
2,4,5-Trichlorophenol	<0.089		0.39	0.089	mg/Kg	☼	10/19/18 22:40	10/22/18 16:32	1
2,4,6-Trichlorophenol	<0.13		0.39	0.13	mg/Kg	☼	10/19/18 22:40	10/22/18 16:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	101		44 - 121	10/19/18 22:40	10/22/18 16:32	1
2-Fluorophenol	162	X	46 - 133	10/19/18 22:40	10/22/18 16:32	1
Nitrobenzene-d5	113		41 - 120	10/19/18 22:40	10/22/18 16:32	1
Phenol-d5	136	X	46 - 125	10/19/18 22:40	10/22/18 16:32	1
Terphenyl-d14	115		35 - 160	10/19/18 22:40	10/22/18 16:32	1
2,4,6-Tribromophenol	100		25 - 139	10/19/18 22:40	10/22/18 16:32	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.43	J B	1.2	0.23	mg/Kg	☼	10/18/18 08:28	10/19/18 01:56	1
Arsenic	15		0.59	0.20	mg/Kg	☼	10/18/18 08:28	10/19/18 01:56	1
Barium	69		0.59	0.067	mg/Kg	☼	10/18/18 08:28	10/19/18 01:56	1
Beryllium	0.71		0.23	0.055	mg/Kg	☼	10/18/18 08:28	10/19/18 01:56	1
Cadmium	0.22		0.12	0.021	mg/Kg	☼	10/18/18 08:28	10/19/18 01:56	1
Chromium	17		0.59	0.29	mg/Kg	☼	10/18/18 08:28	10/19/18 01:56	1
Cobalt	14		0.29	0.077	mg/Kg	☼	10/18/18 08:28	10/19/18 01:56	1
Copper	22	B	0.59	0.16	mg/Kg	☼	10/18/18 08:28	10/19/18 01:56	1
Iron	25000	B	12	6.1	mg/Kg	☼	10/18/18 08:28	10/19/18 01:56	1
Lead	30		0.29	0.14	mg/Kg	☼	10/18/18 08:28	10/19/18 01:56	1
Magnesium	4900	B	5.9	2.9	mg/Kg	☼	10/18/18 08:28	10/19/18 01:56	1
Calcium	5600	B	12	2.0	mg/Kg	☼	10/18/18 08:28	10/19/18 01:56	1
Manganese	800		0.59	0.085	mg/Kg	☼	10/18/18 08:28	10/19/18 01:56	1
Nickel	31		0.59	0.17	mg/Kg	☼	10/18/18 08:28	10/19/18 01:56	1
Selenium	<0.35		0.59	0.35	mg/Kg	☼	10/18/18 08:28	10/19/18 01:56	1
Silver	0.35		0.29	0.076	mg/Kg	☼	10/18/18 08:28	10/19/18 01:56	1
Thallium	0.52	J	0.59	0.29	mg/Kg	☼	10/18/18 08:28	10/19/18 01:56	1
Vanadium	28		0.29	0.069	mg/Kg	☼	10/18/18 08:28	10/19/18 01:56	1
Zinc	120	B	1.2	0.52	mg/Kg	☼	10/18/18 08:28	10/19/18 01:56	1
Potassium	2000		29	10	mg/Kg	☼	10/18/18 08:28	10/19/18 01:56	1
Sodium	290		59	8.7	mg/Kg	☼	10/18/18 08:28	10/19/18 01:56	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		10/18/18 15:08	10/19/18 20:01	1
Barium	0.33	J	0.50	0.050	mg/L		10/18/18 15:08	10/19/18 20:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/18/18 15:08	10/19/18 20:01	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		10/18/18 15:08	10/19/18 20:01	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-2

Client Sample ID: 2947V-9-B01 (0-5)

Lab Sample ID: 500-153168-13

Date Collected: 10/15/18 13:15

Matrix: Solid

Date Received: 10/15/18 16:40

Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	150		5.0	0.50	mg/L		10/18/18 15:08	10/19/18 20:01	1
Chromium	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 20:01	1
Cobalt	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 20:01	1
Copper	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 20:01	1
Iron	<0.20		0.40	0.20	mg/L		10/18/18 15:08	10/19/18 20:01	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/18/18 15:08	10/19/18 20:01	1
Magnesium	75		2.5	0.50	mg/L		10/18/18 15:08	10/19/18 20:01	1
Manganese	0.095		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 20:01	1
Nickel	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 20:01	1
Potassium	1.1 J		2.5	0.50	mg/L		10/18/18 15:08	10/19/18 20:01	1
Selenium	<0.020		0.050	0.020	mg/L		10/18/18 15:08	10/19/18 20:01	1
Silver	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 20:01	1
Vanadium	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 20:01	1
Zinc	0.064 J B		0.50	0.020	mg/L		10/18/18 15:08	10/19/18 20:01	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		10/18/18 15:08	10/24/18 15:23	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/18/18 15:08	10/23/18 03:59	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		10/19/18 11:20	10/22/18 11:26	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.020	0.0066	mg/Kg	☼	10/18/18 16:20	10/19/18 10:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.17		0.49	0.17	mg/Kg	☼	10/24/18 14:10	10/24/18 22:12	1
pH	8.0		0.2	0.2	SU			10/22/18 17:23	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-2

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
X	Surrogate is outside control limits
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.

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.
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.
F3	Duplicate RPD exceeds the control limit
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.

General Chemistry

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

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 - Romeoville - WO 054

TestAmerica Job ID: 500-153168-2

Laboratory: 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	04-30-19

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
Company: Terracon
Address: 192 Exchange Blvd
Glendale Heights, IL
Address: Glendale Heights, IL
Phone: 630-445-0160
Fax:
E-Mail: Matt.Weiss@Terracon.com

Bill To (optional)
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-153168
Chain of Custody Number:
Page 1 of 1
Temperature °C of Cooler:

Client		Client Project #		Preservative		Parameter		Matrix		Comments	
<u>IDOT</u>		<u>11187007U</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		Project Location/State		Lab Project #		Lab PM		Matrix		Comments	
<u>11187007U</u>		<u>Homerville, IL</u>				<u>D.G.F.</u>		<u>VOC'S</u> <u>SOL'S</u> <u>Total 23</u> <u>Inorganics</u> <u>PH</u> <u>TCUP 23</u> <u>Inorganics</u> <u>SPUP 23</u> <u>Inorganics</u>			
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix					
<u>5</u>		<u>2947U-9-B08 (0-5)</u>	<u>10/15/18</u>	<u>1035</u>	<u>5</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>6</u>		<u>2947U-9-B07 (0-5)</u>	<u>10/15/18</u>	<u>1055</u>	<u>5</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>7</u>		<u>2947U-9-B06 (0-5)</u>	<u>10/15/18</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>8</u>		<u>2947U-9-B05 (0-5)</u>	<u>10/15/18</u>	<u>1140</u>	<u>5</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>9</u>		<u>2947U-9-B04 (0-5)</u>	<u>10/15/18</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>10</u>		<u>2947U-9-B03 (0-5)</u>	<u>10/15/18</u>	<u>1225</u>	<u>5</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>11</u>		<u>2947U-9-B03 Dup (0-5)</u>	<u>10/15/18</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>12</u>		<u>2947U-9-B02 (0-5)</u>	<u>10/15/18</u>	<u>1255</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>2947U-9-B01 (0-5)</u>	<u>10/15/18</u>	<u>1315</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 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>10/15/18</u> Time: <u>1550</u>	Received By <u>[Signature]</u> Company: <u>TA</u> Date: <u>10/15/18</u> Time: <u>1550</u>	Lab Courier: <u>TPA</u>
Relinquished By <u>[Signature]</u> Company: <u>TA</u> Date: <u>10/15/18</u> Time: <u>1640</u>	Received By <u>[Signature]</u> Company: <u>TA-CHI</u> Date: <u>10/16/18</u> Time: <u>0720</u>	Shipped: _____
Relinquished By Company: _____ Date: _____ Time: _____	Received By Company: _____ Date: _____ Time: _____	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
* NO Aluminum
* Hold SPUP 23 Inorganics
Per Terracon Instructions

Lab Comments:

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-153168-2

Login Number: 153168

List Source: 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	
Cooler Temperature is recorded.	True	5.9,5.6
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	





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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 112-IL Rte 53 from IL Rte 7 to S/o Murphy Dr Office Phone Number, if available: _____

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

IL Rte 53 (Southbound) IDOT STA 190+50 to 201+40, 202+40 to 203+40 (ISGS Site 2947V-10)

City: Romeoville State: IL Zip Code: 60446

County: Will Township: Lockport

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

Latitude: 41.61633 Longitude: -88.07732

(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: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Contact: Irma Romiti-Johnson

Email, if available: irma.romiti-johnson@illinois.gov

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

Project Name: FAP 112-IL Rte 53 from IL Rte 7 to S/o Murphy Dr

Latitude: 41.61633 Longitude: -88.07732

Uncontaminated Site Certification

III. Basis for Certification and Attachments

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

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

Soil from borings B02 through B12, and B14 were sampled adjacent to ISGS Site No 2947V-10. See Exhibits 7, 8 and Table 5 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 Nos J153333-1 and J153234-2. 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, Chen Yang (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



Chen Yang
 Printed Name:

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

05/28/2019
 Date:

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2947V-10-B02 (0-5)	2947V-10-B03 (0-5)	2947V-10-B04 (0-5)	2947V-10-B05 (0-5)	2947V-10-B06 (0-5)	2947V-10-B07 (0-5)	2947V-10-B08 (0-5)	2947V-10-B09 (0-5)	2947V-10-B10 (0-5)	2947V-10-B11 (0-5)	2947V-10-B12 (0-5)	2947V-10-B12 (0-5) DUP	2947V-10-B14 (0-5)		
				CCDD	Sample Depth (feet)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)
				mg/kg	Date Collected	10/17/2018	10/17/2018	10/16/2018	10/16/2018	10/16/2018	10/16/2018	10/16/2018	10/16/2018	10/16/2018	10/16/2018	10/16/2018	10/16/2018	10/16/2018	10/16/2018	10/16/2018
		pH 6.25-9.0	Chicago	MSAs																
Semivolatile Organic Analytical Parameters																				
Acenaphthene	mg/kg	0.09	0.13	570		<0.0075	<0.0073	<0.0069	<0.0073	0.014	0.015	<0.0067	0.024	0.015	0.029	0.014	0.024	0.01		
Acenaphthylene	mg/kg	0.03	0.07	85		<0.0055	<0.0053	<0.0051	0.0056	0.021	0.018	0.017	0.019	0.015	0.026	0.027	0.043	0.0057		
Anthracene	mg/kg	0.25	0.4	12000		0.014	<0.0068	0.014	<0.0068	0.045	0.063	0.016	0.099	0.039	0.1	0.057	0.094	0.014		
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.042	0.012	0.061	0.042	0.18	0.27	0.077	0.57	0.24	0.53	0.35	0.53	0.049		
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.074	0.013	0.065	0.053	0.22	0.32	0.088	0.53	0.27	0.53	0.42	0.63	0.057		
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.17	0.023	0.1	0.064	0.38	0.73	0.12	0.92	0.51	1.1	0.81	1.3	0.069		
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.036	<0.013	0.047	0.033	0.12	0.16	0.061	0.28	0.13	0.26	0.25	0.37	0.042		
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.052	<0.012	0.031	0.017	0.14	0.26	0.064	0.62	0.19	0.31	0.32	0.52	0.027		
Chrysene	mg/kg	1.2	2.7	88		0.067	0.018	0.07	0.047	0.24	0.34	0.094	0.67	0.31	0.65	0.49	0.78	0.061		
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		0.012	<0.0078	0.028	0.026	0.024	0.039	0.03	0.073	0.045	0.085	0.063	0.085	0.028		
Fluoranthene	mg/kg	2.7	4.1	3100		0.036	0.021	0.12	0.058	0.44	0.7	0.15	1.3	0.51	1.2	0.81	1.2	0.087		
Fluorene	mg/kg	0.1	0.18	560		<0.0058	<0.0057	<0.0054	<0.0057	0.016	0.016	<0.0052	0.023	0.0095	0.028	0.013	0.022	<0.0054		
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.038	<0.011	0.055	0.043	0.1	0.14	0.067	0.26	0.13	0.24	0.24	0.34	0.044		
Naphthalene	mg/kg	0.04	0.2	1.8		<0.0064	<0.0062	<0.0059	<0.0062	0.012	0.0087	<0.0057	0.0094	<0.0058	0.0081	0.0061	0.012	<0.0059		
Phenanthrene	mg/kg	1.3	2.5	210		0.015	0.013	0.056	0.016	0.25	0.28	0.061	0.5	0.19	0.54	0.26	0.41	0.05		
Pyrene	mg/kg	1.9	3.0	2300		0.046	0.019	0.098	0.054	0.43	0.57	0.13	1.1	0.45	0.99	0.65	1	0.082		
bis(2-Ethylhexyl)phthalate	mg/kg	---	---	46		<0.076	<0.074	<0.070	<0.074	0.092	0.1	<0.068	4.6	<0.069	<0.071	<0.068	0.097	<0.070		
Butylbenzylphthalate	mg/kg	---	---	930		<0.079	<0.077	<0.073	<0.077	0.97	0.11	<0.071	<0.072	<0.072	<0.074	<0.071	<0.073	<0.073		
2-Methylnaphthalene	mg/kg	---	0.14	---		<0.0076	<0.0075	<0.0071	<0.0074	0.022	0.012	<0.0069	0.0091	<0.0069	0.0079	<0.0069	0.01	<0.0070		
Inorganic Analytical Parameters																				
Arsenic	mg/kg	---	13	11.3		8.8	7.5	12	12	9.7	6.9	11	5.6	6.7	6.5	8	9.9	12		
Barium	mg/kg	---	110	1500		110	130	94	75	84	95	85	130	54	67	73	84	61		
Cadmium	mg/kg	---	0.6	5.2		0.27	0.22	0.38	0.38	0.51	0.54	0.53	0.45	0.28	0.36	0.34	0.4	0.29		
Chromium, total	mg/kg	---	16.2	21		16	19	32	18	17	18	14	25	12	19	16	20	14		
Lead	mg/kg	---	36	107		55	42	39	81	130	130	110	33	54	41	34	42	45		
Mercury	mg/kg	---	0.06	0.89		0.033	0.028	0.051	0.035	0.026	0.023	0.028	0.018	0.012	0.021	0.024	0.028	0.038		
Selenium	mg/kg	---	0.48	1.3		1.2	1.2	0.47	0.5	<0.34	<0.32	<0.34	<0.33	<0.32	<0.32	0.36	<0.33	<0.35		
Silver	mg/kg	---	0.55	4.4		0.27	0.32	0.26	0.26	0.21	0.14	0.15	0.2	0.12	0.13	0.21	0.2	0.2		
Antimony	mg/kg	---	4.0	5		0.31	0.34	0.37	0.4	0.31	0.49	0.5	0.55	0.42	0.23	0.5	0.42	0.38		
Beryllium	mg/kg	---	0.59	22		0.69	0.72	0.69	0.69	0.64	0.52	0.71	0.44	0.44	0.44	0.51	0.55	0.64		
Calcium	mg/kg	---	9,300	---		13000	3400	12000	8000	62000	110000	91000	140000	110000	120000	110000	96000	17000		
Cobalt	mg/kg	---	8.9	20		9.3	12	11	12	9.1	6.9	7.5	5.6	5.8	5.4	6.6	8.4	12		
Copper	mg/kg	---	19.6	2900		18	16	28	25	28	25	22	28	24	25	22	28	26		
Cyanide	mg/kg	---	0.51	---		<0.21	<0.20	<0.16	<0.20	<0.14	<0.17	<0.17	<0.18	<0.18	<0.19	<0.18	<0.19	<0.17		
Iron	mg/kg	---	15,900	15000		21000	19000	22000	23000	19000	14000	19000	17000	14000	17000	15000	17000	21000		
Magnesium	mg/kg	---	4,820	325000		8800	3100	8300	6000	29000	48000	41000	79000	53000	69000	48000	43000	11000		
Manganese	mg/kg	---	636	630		520	800	590	590	480	510	440	620	370	410	440	590	560		
Nickel	mg/kg	---	18	100		23	23	28	28	24	19	19	16	14	15	17	20	28		
Potassium	mg/kg	---	1,268	---		1700	2000	1800	1600	1600	1300	1600	1100	1400	1200	1500	1500	1400		
Sodium	mg/kg	---	130	---		920	2000	510	1200	660	700	990	1000	350	280	540	510	1200		
Thallium	mg/kg	---	0.32	2.6		<0.30	<0.32	<0.30	<0.29	<0.29	<0.27	<0.29	<0.28	<0.27	<0.27	<0.27	<0.28	<0.29		
Vanadium	mg/kg	---	25.2	550		27	30	28	28	22	19	20	22	17	17	19	22	23		
Zinc	mg/kg	---	95	5100		110	79	120	110	110	110	88	120	71	86	98	120	110		
pH			6.25	9		8.1	7.8	8.3	8.4	8.7	9	8.9	8.8	8.8	8.5	8.6	8.6	8.1		

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2947V-10-B02 (0-5)	2947V-10-B03 (0-5)	2947V-10-B04 (0-5)	2947V-10-B05 (0-5)	2947V-10-B06 (0-5)	2947V-10-B07 (0-5)	2947V-10-B08 (0-5)	2947V-10-B09 (0-5)	2947V-10-B10 (0-5)	2947V-10-B11 (0-5)	2947V-10-B12 (0-5)	2947V-10-B12 (0-5) DUP	2947V-10-B14 (0-5)		
				CCDD	Sample Depth (feet)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)
				mg/kg pH 6.25-9.0	Date Collected	10/17/2018	10/17/2018	10/16/2018	10/16/2018	10/16/2018	10/16/2018	10/16/2018	10/16/2018	10/16/2018	10/16/2018	10/16/2018	10/16/2018	10/16/2018	10/16/2018	10/16/2018
		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	---	---	---		0.95	--	--	2.3	--	0.66	1.2	0.89	--	--	0.77	0.74	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	<0.010	<0.010	<0.010	<0.010		
Barium,TCLP	mg/L	---	---	---		0.6	0.36	0.63	0.42	0.72	0.61	0.57	0.47	0.54	0.63	0.49	0.55	0.42		
Cadmium,TCLP	mg/L	---	---	---		0.0026	<0.0020	0.0035	0.0036	0.0043	0.005	0.0045	0.0045	0.0035	0.0041	0.004	0.0046	0.004		
Chromium,TCLP	mg/L	---	---	---		<0.010	0.012	0.011	0.011	0.023	0.023	0.022	0.022	0.021	0.022	0.023	0.02	0.022		
Lead,TCLP	mg/L	---	---	---		<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<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	<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	<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	<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	<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	<0.0040	<0.0040	<0.0040	<0.0040		
Calcium,TCLP	mg/L	---	---	---		250	66	270	190	320	350	320	340	340	350	340	340	210		
Cobalt,TCLP	mg/L	---	---	---		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.02		
Copper,TCLP	mg/L	---	---	---		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.01	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010		
Cyanide,TCLP	mg/L	---	---	---		----	----	----	----	----	----	----	----	----	----	----	----	----		
Iron,TCLP	mg/L	---	---	---		<0.20	2.1	<0.20	<0.20	0.28	0.24	<0.20	<0.20	0.22	0.21	<0.20	0.23	0.31		
Magnesium,TCLP	mg/L	---	---	---		120	23	140	94	170	170	170	160	170	170	160	160	95		
Manganese,TCLP	mg/L	---	---	---		0.28	0.068	0.12	0.21	0.099	0.35	0.18	0.85	0.094	0.13	0.4	0.72	5.4		
Nickel,TCLP	mg/L	---	---	---		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.016	<0.010	<0.010	<0.010	<0.010	0.019		
Potassium,TCLP	mg/L	---	---	---		0.78	2	0.86	0.58	0.83	0.83	0.58	0.91	0.9	1.1	0.88	0.89	1.5		
Sodium,TCLP	mg/L	---	---	---		----	----	----	----	----	----	----	----	----	----	----	----	----		
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<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	<0.010	<0.010	<0.010	<0.010		
Zinc,TCLP	mg/L	---	---	---		0.22	0.051	0.16	0.036	0.35	0.07	0.31	0.14	0.35	0.087	0.083	0.6	0.083		

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-153333-1

Client Project/Site: IDOT - Romeoville - WO 054

For:

Terracon Consulting Eng & Scientists

192 Exchange Blvd

Glendale Heights, Illinois 60139

Attn: Mr. Matthew Weiss

Jodie Bracken

Authorized for release by:

10/30/2018 6:02:16 PM

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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 - Romeoville - WO 054

TestAmerica Job ID: 500-153333-1

Job ID: 500-153333-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-153333-1

Receipt

The samples were received on 10/17/2018 4:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 0.6° C, 2.8° C, 4.3° C and 4.6° C.

GC/MS VOA

Method(s) 8260B: The laboratory control sample duplicate (LCSD) for analytical batch 456980 recovered outside control limits for the following analyte: Chloroethane. This analyte was biased high in the LCSD, was within limits in the LCS and was not detected in the associated samples; therefore, the data has been reported.

The laboratory control sample duplicate (LCSD) for 456980 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 500-456396 and analytical batch 500-456594 recovered outside control limits for 2-Methylnaphthalene, 2-Chlorophenol, 2,4-Dimethylphenol, Naphthalene, Hexachlorobenzene, N-Nitrosodiphenylamine, Fluoranthene and Anthracene. 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.

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

Metals

Method(s) 6010B: The method blank for preparation batch 500-456420 and analytical batch 500-456707 contained Copper above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

No additional analytical or quality issues were noted, other than those described above or 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 - Romeoville - WO 054

TestAmerica Job ID: 500-153333-1

Client Sample ID: 2947V-10-B03 (0-5)

Lab Sample ID: 500-153333-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.012	J	0.040	0.0055	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.013	J	0.040	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.023	J	0.040	0.0088	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.018	J	0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.021	J*	0.040	0.0075	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.013	J	0.040	0.0057	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.019	J	0.040	0.0081	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.34	J	1.3	0.25	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.5		0.64	0.22	mg/Kg	1	☼	6010B	Total/NA
Barium	130		0.64	0.073	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.72		0.25	0.060	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.22	B	0.13	0.023	mg/Kg	1	☼	6010B	Total/NA
Chromium	19		0.64	0.32	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.32	0.083	mg/Kg	1	☼	6010B	Total/NA
Copper	16	B	0.64	0.18	mg/Kg	1	☼	6010B	Total/NA
Iron	19000	B	13	6.6	mg/Kg	1	☼	6010B	Total/NA
Lead	42		0.32	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	3100	B	6.4	3.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	3400	B	13	2.2	mg/Kg	1	☼	6010B	Total/NA
Manganese	800		0.64	0.092	mg/Kg	1	☼	6010B	Total/NA
Nickel	23		0.64	0.19	mg/Kg	1	☼	6010B	Total/NA
Selenium	1.2	B	0.64	0.37	mg/Kg	1	☼	6010B	Total/NA
Silver	0.32		0.32	0.082	mg/Kg	1	☼	6010B	Total/NA
Vanadium	30		0.32	0.075	mg/Kg	1	☼	6010B	Total/NA
Zinc	79		1.3	0.56	mg/Kg	1	☼	6010B	Total/NA
Potassium	2000		32	11	mg/Kg	1	☼	6010B	Total/NA
Sodium	2000		64	9.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.36	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	66		5.0	0.50	mg/L	1		6010B	TCLP
Chromium	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	2.1		0.40	0.20	mg/L	1		6010B	TCLP
Magnesium	23		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.068		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.0	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.051	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.028		0.020	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	7.8		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2947V-10-B02 (0-5)

Lab Sample ID: 500-153333-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.014	J*	0.041	0.0069	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.042		0.041	0.0056	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.074		0.041	0.0080	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.17		0.041	0.0090	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.036	J	0.041	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.052		0.041	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.067		0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.012	J	0.041	0.0080	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.036	J*	0.041	0.0077	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153333-1

Client Sample ID: 2947V-10-B02 (0-5) (Continued)

Lab Sample ID: 500-153333-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Indeno[1,2,3-cd]pyrene	0.038	J	0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.015	J	0.041	0.0058	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.046		0.041	0.0083	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.31	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.8		0.60	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	110		0.60	0.069	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.69		0.24	0.056	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.27	B	0.12	0.022	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.3		0.30	0.079	mg/Kg	1	☼	6010B	Total/NA
Copper	18	B	0.60	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	21000	B	12	6.3	mg/Kg	1	☼	6010B	Total/NA
Lead	55		0.30	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	8800	B	6.0	3.0	mg/Kg	1	☼	6010B	Total/NA
Calcium	13000	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	520		0.60	0.088	mg/Kg	1	☼	6010B	Total/NA
Nickel	23		0.60	0.18	mg/Kg	1	☼	6010B	Total/NA
Selenium	1.2	B	0.60	0.36	mg/Kg	1	☼	6010B	Total/NA
Silver	0.27	J	0.30	0.078	mg/Kg	1	☼	6010B	Total/NA
Vanadium	27		0.30	0.071	mg/Kg	1	☼	6010B	Total/NA
Zinc	110		1.2	0.53	mg/Kg	1	☼	6010B	Total/NA
Potassium	1700		30	11	mg/Kg	1	☼	6010B	Total/NA
Sodium	920		60	8.9	mg/Kg	1	☼	6010B	Total/NA
Barium	0.60		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0026	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	250		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	120		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.28		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.78	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.22	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.95		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.033		0.021	0.0069	mg/Kg	1	☼	7471B	Total/NA
pH	8.1		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2947V-10-B01 (0-5)

Lab Sample ID: 500-153333-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.45	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	15		0.62	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	43		0.62	0.071	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.71		0.25	0.058	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.12	B	0.12	0.022	mg/Kg	1	☼	6010B	Total/NA
Chromium	18		0.62	0.31	mg/Kg	1	☼	6010B	Total/NA
Cobalt	15		0.31	0.081	mg/Kg	1	☼	6010B	Total/NA
Copper	32	B	0.62	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	27000	B	12	6.4	mg/Kg	1	☼	6010B	Total/NA
Lead	25		0.31	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	3300	B	6.2	3.1	mg/Kg	1	☼	6010B	Total/NA
Calcium	1600	B	12	2.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	480		0.62	0.090	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153333-1

Client Sample ID: 2947V-10-B01 (0-5) (Continued)

Lab Sample ID: 500-153333-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	35		0.62	0.18	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.85	B	0.62	0.36	mg/Kg	1	☼	6010B	Total/NA
Silver	0.33		0.31	0.080	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.43	J	0.62	0.31	mg/Kg	1	☼	6010B	Total/NA
Vanadium	28		0.31	0.073	mg/Kg	1	☼	6010B	Total/NA
Zinc	110		1.2	0.54	mg/Kg	1	☼	6010B	Total/NA
Potassium	1600		31	11	mg/Kg	1	☼	6010B	Total/NA
Sodium	990		62	9.2	mg/Kg	1	☼	6010B	Total/NA
Barium	0.15	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	33		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	8.4		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.035		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.51	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.031	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.038		0.020	0.0067	mg/Kg	1	☼	7471B	Total/NA
pH	7.6		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153333-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-153333-1	2947V-10-B03 (0-5)	Solid	10/17/18 13:05	10/17/18 16:40
500-153333-2	2947V-10-B02 (0-5)	Solid	10/17/18 13:25	10/17/18 16:40
500-153333-3	2947V-10-B01 (0-5)	Solid	10/17/18 13:40	10/17/18 16:40

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153333-1

Client Sample ID: 2947V-10-B03 (0-5)

Lab Sample ID: 500-153333-1

Date Collected: 10/17/18 13:05

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 77.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0088		0.020	0.0088	mg/Kg	☼	10/18/18 07:15	10/26/18 21:00	1
Benzene	<0.00052		0.0020	0.00052	mg/Kg	☼	10/18/18 07:15	10/26/18 21:00	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg	☼	10/18/18 07:15	10/26/18 21:00	1
Bromoform	<0.00059		0.0020	0.00059	mg/Kg	☼	10/18/18 07:15	10/26/18 21:00	1
Bromomethane	<0.0019		0.0051	0.0019	mg/Kg	☼	10/18/18 07:15	10/26/18 21:00	1
2-Butanone (MEK)	<0.0022		0.0051	0.0022	mg/Kg	☼	10/18/18 07:15	10/26/18 21:00	1
Carbon disulfide	<0.0011		0.0051	0.0011	mg/Kg	☼	10/18/18 07:15	10/26/18 21:00	1
Carbon tetrachloride	<0.00059		0.0020	0.00059	mg/Kg	☼	10/18/18 07:15	10/26/18 21:00	1
Chlorobenzene	<0.00075		0.0020	0.00075	mg/Kg	☼	10/18/18 07:15	10/26/18 21:00	1
Chloroethane	<0.0015	*	0.0051	0.0015	mg/Kg	☼	10/18/18 07:15	10/26/18 21:00	1
Chloroform	<0.00070		0.0020	0.00070	mg/Kg	☼	10/18/18 07:15	10/26/18 21:00	1
Chloromethane	<0.0020		0.0051	0.0020	mg/Kg	☼	10/18/18 07:15	10/26/18 21:00	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg	☼	10/18/18 07:15	10/26/18 21:00	1
cis-1,3-Dichloropropene	<0.00061		0.0020	0.00061	mg/Kg	☼	10/18/18 07:15	10/26/18 21:00	1
Dibromochloromethane	<0.00066		0.0020	0.00066	mg/Kg	☼	10/18/18 07:15	10/26/18 21:00	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg	☼	10/18/18 07:15	10/26/18 21:00	1
1,2-Dichloroethane	<0.0016		0.0051	0.0016	mg/Kg	☼	10/18/18 07:15	10/26/18 21:00	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg	☼	10/18/18 07:15	10/26/18 21:00	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg	☼	10/18/18 07:15	10/26/18 21:00	1
1,3-Dichloropropane, Total	<0.00071		0.0020	0.00071	mg/Kg	☼	10/18/18 07:15	10/26/18 21:00	1
Ethylbenzene	<0.00097		0.0020	0.00097	mg/Kg	☼	10/18/18 07:15	10/26/18 21:00	1
2-Hexanone	<0.0016		0.0051	0.0016	mg/Kg	☼	10/18/18 07:15	10/26/18 21:00	1
Methylene Chloride	<0.0020		0.0051	0.0020	mg/Kg	☼	10/18/18 07:15	10/26/18 21:00	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0051	0.0015	mg/Kg	☼	10/18/18 07:15	10/26/18 21:00	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg	☼	10/18/18 07:15	10/26/18 21:00	1
Styrene	<0.00061		0.0020	0.00061	mg/Kg	☼	10/18/18 07:15	10/26/18 21:00	1
1,1,2,2-Tetrachloroethane	<0.00065		0.0020	0.00065	mg/Kg	☼	10/18/18 07:15	10/26/18 21:00	1
Tetrachloroethene	<0.00069		0.0020	0.00069	mg/Kg	☼	10/18/18 07:15	10/26/18 21:00	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg	☼	10/18/18 07:15	10/26/18 21:00	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg	☼	10/18/18 07:15	10/26/18 21:00	1
trans-1,3-Dichloropropene	<0.00071		0.0020	0.00071	mg/Kg	☼	10/18/18 07:15	10/26/18 21:00	1
1,1,1-Trichloroethane	<0.00068		0.0020	0.00068	mg/Kg	☼	10/18/18 07:15	10/26/18 21:00	1
1,1,2-Trichloroethane	<0.00087		0.0020	0.00087	mg/Kg	☼	10/18/18 07:15	10/26/18 21:00	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg	☼	10/18/18 07:15	10/26/18 21:00	1
Vinyl acetate	<0.0018		0.0051	0.0018	mg/Kg	☼	10/18/18 07:15	10/26/18 21:00	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg	☼	10/18/18 07:15	10/26/18 21:00	1
Xylenes, Total	<0.00065		0.0040	0.00065	mg/Kg	☼	10/18/18 07:15	10/26/18 21:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		75 - 131	10/18/18 07:15	10/26/18 21:00	1
Dibromofluoromethane	99		75 - 126	10/18/18 07:15	10/26/18 21:00	1
1,2-Dichloroethane-d4 (Surr)	120		70 - 134	10/18/18 07:15	10/26/18 21:00	1
Toluene-d8 (Surr)	92		75 - 124	10/18/18 07:15	10/26/18 21:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0073		0.040	0.0073	mg/Kg	☼	10/23/18 16:16	10/25/18 12:41	1
Acenaphthylene	<0.0053		0.040	0.0053	mg/Kg	☼	10/23/18 16:16	10/25/18 12:41	1
Anthracene	<0.0068	*	0.040	0.0068	mg/Kg	☼	10/23/18 16:16	10/25/18 12:41	1
Benzo[a]anthracene	0.012	J	0.040	0.0055	mg/Kg	☼	10/23/18 16:16	10/25/18 12:41	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153333-1

Client Sample ID: 2947V-10-B03 (0-5)

Lab Sample ID: 500-153333-1

Date Collected: 10/17/18 13:05

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 77.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.013	J	0.040	0.0078	mg/Kg	☼	10/23/18 16:16	10/25/18 12:41	1
Benzo[b]fluoranthene	0.023	J	0.040	0.0088	mg/Kg	☼	10/23/18 16:16	10/25/18 12:41	1
Benzo[g,h,i]perylene	<0.013		0.040	0.013	mg/Kg	☼	10/23/18 16:16	10/25/18 12:41	1
Benzo[k]fluoranthene	<0.012		0.040	0.012	mg/Kg	☼	10/23/18 16:16	10/25/18 12:41	1
Bis(2-chloroethoxy)methane	<0.041		0.20	0.041	mg/Kg	☼	10/23/18 16:16	10/25/18 12:41	1
Bis(2-chloroethyl)ether	<0.061		0.20	0.061	mg/Kg	☼	10/23/18 16:16	10/25/18 12:41	1
Bis(2-ethylhexyl) phthalate	<0.074		0.20	0.074	mg/Kg	☼	10/23/18 16:16	10/25/18 12:41	1
4-Bromophenyl phenyl ether	<0.053		0.20	0.053	mg/Kg	☼	10/23/18 16:16	10/25/18 12:41	1
Butyl benzyl phthalate	<0.077		0.20	0.077	mg/Kg	☼	10/23/18 16:16	10/25/18 12:41	1
Carbazole	<0.10		0.20	0.10	mg/Kg	☼	10/23/18 16:16	10/25/18 12:41	1
4-Chloroaniline	<0.19		0.82	0.19	mg/Kg	☼	10/23/18 16:16	10/25/18 12:41	1
4-Chloro-3-methylphenol	<0.14		0.40	0.14	mg/Kg	☼	10/23/18 16:16	10/25/18 12:41	1
2-Chloronaphthalene	<0.045		0.20	0.045	mg/Kg	☼	10/23/18 16:16	10/25/18 12:41	1
2-Chlorophenol	<0.069	*	0.20	0.069	mg/Kg	☼	10/23/18 16:16	10/25/18 12:41	1
4-Chlorophenyl phenyl ether	<0.047		0.20	0.047	mg/Kg	☼	10/23/18 16:16	10/25/18 12:41	1
Chrysene	0.018	J	0.040	0.011	mg/Kg	☼	10/23/18 16:16	10/25/18 12:41	1
Dibenz(a,h)anthracene	<0.0078		0.040	0.0078	mg/Kg	☼	10/23/18 16:16	10/25/18 12:41	1
Dibenzofuran	<0.047		0.20	0.047	mg/Kg	☼	10/23/18 16:16	10/25/18 12:41	1
1,2-Dichlorobenzene	<0.048		0.20	0.048	mg/Kg	☼	10/23/18 16:16	10/25/18 12:41	1
1,3-Dichlorobenzene	<0.046		0.20	0.046	mg/Kg	☼	10/23/18 16:16	10/25/18 12:41	1
1,4-Dichlorobenzene	<0.052		0.20	0.052	mg/Kg	☼	10/23/18 16:16	10/25/18 12:41	1
3,3'-Dichlorobenzidine	<0.057		0.20	0.057	mg/Kg	☼	10/23/18 16:16	10/25/18 12:41	1
2,4-Dichlorophenol	<0.096		0.40	0.096	mg/Kg	☼	10/23/18 16:16	10/25/18 12:41	1
Diethyl phthalate	<0.069		0.20	0.069	mg/Kg	☼	10/23/18 16:16	10/25/18 12:41	1
2,4-Dimethylphenol	<0.15	*	0.40	0.15	mg/Kg	☼	10/23/18 16:16	10/25/18 12:41	1
Dimethyl phthalate	<0.053		0.20	0.053	mg/Kg	☼	10/23/18 16:16	10/25/18 12:41	1
Di-n-butyl phthalate	<0.062		0.20	0.062	mg/Kg	☼	10/23/18 16:16	10/25/18 12:41	1
4,6-Dinitro-2-methylphenol	<0.33		0.82	0.33	mg/Kg	☼	10/23/18 16:16	10/25/18 12:41	1
2,4-Dinitrophenol	<0.71		0.82	0.71	mg/Kg	☼	10/23/18 16:16	10/25/18 12:41	1
2,4-Dinitrotoluene	<0.064		0.20	0.064	mg/Kg	☼	10/23/18 16:16	10/25/18 12:41	1
2,6-Dinitrotoluene	<0.080		0.20	0.080	mg/Kg	☼	10/23/18 16:16	10/25/18 12:41	1
Di-n-octyl phthalate	<0.066		0.20	0.066	mg/Kg	☼	10/23/18 16:16	10/25/18 12:41	1
Fluoranthene	0.021	J *	0.040	0.0075	mg/Kg	☼	10/23/18 16:16	10/25/18 12:41	1
Fluorene	<0.0057		0.040	0.0057	mg/Kg	☼	10/23/18 16:16	10/25/18 12:41	1
Hexachlorobenzene	<0.0094	*	0.082	0.0094	mg/Kg	☼	10/23/18 16:16	10/25/18 12:41	1
Hexachlorobutadiene	<0.064		0.20	0.064	mg/Kg	☼	10/23/18 16:16	10/25/18 12:41	1
Hexachlorocyclopentadiene	<0.23		0.82	0.23	mg/Kg	☼	10/23/18 16:16	10/25/18 12:41	1
Hexachloroethane	<0.062		0.20	0.062	mg/Kg	☼	10/23/18 16:16	10/25/18 12:41	1
Indeno[1,2,3-cd]pyrene	<0.011		0.040	0.011	mg/Kg	☼	10/23/18 16:16	10/25/18 12:41	1
Isophorone	<0.046		0.20	0.046	mg/Kg	☼	10/23/18 16:16	10/25/18 12:41	1
2-Methylnaphthalene	<0.0075	*	0.082	0.0075	mg/Kg	☼	10/23/18 16:16	10/25/18 12:41	1
2-Methylphenol	<0.065		0.20	0.065	mg/Kg	☼	10/23/18 16:16	10/25/18 12:41	1
3 & 4 Methylphenol	<0.068		0.20	0.068	mg/Kg	☼	10/23/18 16:16	10/25/18 12:41	1
Naphthalene	<0.0062	*	0.040	0.0062	mg/Kg	☼	10/23/18 16:16	10/25/18 12:41	1
2-Nitroaniline	<0.055		0.20	0.055	mg/Kg	☼	10/23/18 16:16	10/25/18 12:41	1
3-Nitroaniline	<0.13		0.40	0.13	mg/Kg	☼	10/23/18 16:16	10/25/18 12:41	1
4-Nitroaniline	<0.17		0.40	0.17	mg/Kg	☼	10/23/18 16:16	10/25/18 12:41	1
Nitrobenzene	<0.010		0.040	0.010	mg/Kg	☼	10/23/18 16:16	10/25/18 12:41	1
2-Nitrophenol	<0.096		0.40	0.096	mg/Kg	☼	10/23/18 16:16	10/25/18 12:41	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153333-1

Client Sample ID: 2947V-10-B03 (0-5)

Lab Sample ID: 500-153333-1

Date Collected: 10/17/18 13:05

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 77.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.39		0.82	0.39	mg/Kg	☼	10/23/18 16:16	10/25/18 12:41	1
N-Nitrosodi-n-propylamine	<0.050		0.082	0.050	mg/Kg	☼	10/23/18 16:16	10/25/18 12:41	1
N-Nitrosodiphenylamine	<0.048	*	0.20	0.048	mg/Kg	☼	10/23/18 16:16	10/25/18 12:41	1
2,2'-oxybis[1-chloropropane]	<0.047		0.20	0.047	mg/Kg	☼	10/23/18 16:16	10/25/18 12:41	1
Pentachlorophenol	<0.65		0.82	0.65	mg/Kg	☼	10/23/18 16:16	10/25/18 12:41	1
Phenanthrene	0.013	J	0.040	0.0057	mg/Kg	☼	10/23/18 16:16	10/25/18 12:41	1
Phenol	<0.090		0.20	0.090	mg/Kg	☼	10/23/18 16:16	10/25/18 12:41	1
Pyrene	0.019	J	0.040	0.0081	mg/Kg	☼	10/23/18 16:16	10/25/18 12:41	1
1,2,4-Trichlorobenzene	<0.044		0.20	0.044	mg/Kg	☼	10/23/18 16:16	10/25/18 12:41	1
2,4,5-Trichlorophenol	<0.093		0.40	0.093	mg/Kg	☼	10/23/18 16:16	10/25/18 12:41	1
2,4,6-Trichlorophenol	<0.14		0.40	0.14	mg/Kg	☼	10/23/18 16:16	10/25/18 12:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	111		43 - 145	10/23/18 16:16	10/25/18 12:41	1
2-Fluorophenol	133		31 - 166	10/23/18 16:16	10/25/18 12:41	1
Nitrobenzene-d5	109		37 - 147	10/23/18 16:16	10/25/18 12:41	1
Phenol-d5	128		30 - 153	10/23/18 16:16	10/25/18 12:41	1
Terphenyl-d14	140		42 - 157	10/23/18 16:16	10/25/18 12:41	1
2,4,6-Tribromophenol	102		31 - 143	10/23/18 16:16	10/25/18 12:41	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.34	J	1.3	0.25	mg/Kg	☼	10/23/18 18:09	10/24/18 18:05	1
Arsenic	7.5		0.64	0.22	mg/Kg	☼	10/23/18 18:09	10/24/18 18:05	1
Barium	130		0.64	0.073	mg/Kg	☼	10/23/18 18:09	10/24/18 18:05	1
Beryllium	0.72		0.25	0.060	mg/Kg	☼	10/23/18 18:09	10/24/18 18:05	1
Cadmium	0.22	B	0.13	0.023	mg/Kg	☼	10/23/18 18:09	10/24/18 18:05	1
Chromium	19		0.64	0.32	mg/Kg	☼	10/23/18 18:09	10/24/18 18:05	1
Cobalt	12		0.32	0.083	mg/Kg	☼	10/23/18 18:09	10/24/18 18:05	1
Copper	16	B	0.64	0.18	mg/Kg	☼	10/23/18 18:09	10/24/18 18:05	1
Iron	19000	B	13	6.6	mg/Kg	☼	10/23/18 18:09	10/24/18 18:05	1
Lead	42		0.32	0.15	mg/Kg	☼	10/23/18 18:09	10/24/18 18:05	1
Magnesium	3100	B	6.4	3.2	mg/Kg	☼	10/23/18 18:09	10/24/18 18:05	1
Calcium	3400	B	13	2.2	mg/Kg	☼	10/23/18 18:09	10/24/18 18:05	1
Manganese	800		0.64	0.092	mg/Kg	☼	10/23/18 18:09	10/24/18 18:05	1
Nickel	23		0.64	0.19	mg/Kg	☼	10/23/18 18:09	10/24/18 18:05	1
Selenium	1.2	B	0.64	0.37	mg/Kg	☼	10/23/18 18:09	10/24/18 18:05	1
Silver	0.32		0.32	0.082	mg/Kg	☼	10/23/18 18:09	10/24/18 18:05	1
Thallium	<0.32		0.64	0.32	mg/Kg	☼	10/23/18 18:09	10/24/18 18:05	1
Vanadium	30		0.32	0.075	mg/Kg	☼	10/23/18 18:09	10/24/18 18:05	1
Zinc	79		1.3	0.56	mg/Kg	☼	10/23/18 18:09	10/24/18 18:05	1
Potassium	2000		32	11	mg/Kg	☼	10/23/18 18:09	10/24/18 18:05	1
Sodium	2000		64	9.4	mg/Kg	☼	10/23/18 18:09	10/24/18 18:05	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		10/24/18 15:31	10/25/18 16:37	1
Barium	0.36	J	0.50	0.050	mg/L		10/24/18 15:31	10/25/18 16:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/24/18 15:31	10/25/18 16:37	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		10/24/18 15:31	10/25/18 16:37	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153333-1

Client Sample ID: 2947V-10-B03 (0-5)

Lab Sample ID: 500-153333-1

Date Collected: 10/17/18 13:05

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 77.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	66		5.0	0.50	mg/L		10/24/18 15:31	10/25/18 16:37	1
Chromium	0.012	J	0.025	0.010	mg/L		10/24/18 15:31	10/25/18 16:37	1
Cobalt	<0.010		0.025	0.010	mg/L		10/24/18 15:31	10/25/18 16:37	1
Copper	<0.010		0.025	0.010	mg/L		10/24/18 15:31	10/25/18 16:37	1
Iron	2.1		0.40	0.20	mg/L		10/24/18 15:31	10/25/18 16:37	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/24/18 15:31	10/25/18 16:37	1
Magnesium	23		2.5	0.50	mg/L		10/24/18 15:31	10/25/18 16:37	1
Manganese	0.068		0.025	0.010	mg/L		10/24/18 15:31	10/25/18 16:37	1
Nickel	<0.010		0.025	0.010	mg/L		10/24/18 15:31	10/25/18 16:37	1
Potassium	2.0	J	2.5	0.50	mg/L		10/24/18 15:31	10/25/18 16:37	1
Selenium	<0.020		0.050	0.020	mg/L		10/24/18 15:31	10/25/18 16:37	1
Silver	<0.010		0.025	0.010	mg/L		10/24/18 15:31	10/25/18 16:37	1
Vanadium	<0.010		0.025	0.010	mg/L		10/24/18 15:31	10/25/18 16:37	1
Zinc	0.051	J	0.50	0.020	mg/L		10/24/18 15:31	10/25/18 16:37	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		10/24/18 15:31	10/25/18 14:08	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/24/18 15:31	10/25/18 14:08	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		10/24/18 11:25	10/25/18 09:27	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.020	0.0065	mg/Kg	☼	10/23/18 15:50	10/24/18 10:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.20		0.57	0.20	mg/Kg	☼	10/26/18 11:10	10/26/18 15:28	1
pH	7.8		0.2	0.2	SU			10/24/18 14:08	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153333-1

Client Sample ID: 2947V-10-B02 (0-5)

Lab Sample ID: 500-153333-2

Date Collected: 10/17/18 13:25

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 77.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0089		0.020	0.0089	mg/Kg	☼	10/18/18 07:15	10/26/18 21:26	1
Benzene	<0.00052		0.0020	0.00052	mg/Kg	☼	10/18/18 07:15	10/26/18 21:26	1
Bromodichloromethane	<0.00042		0.0020	0.00042	mg/Kg	☼	10/18/18 07:15	10/26/18 21:26	1
Bromoform	<0.00060		0.0020	0.00060	mg/Kg	☼	10/18/18 07:15	10/26/18 21:26	1
Bromomethane	<0.0019		0.0051	0.0019	mg/Kg	☼	10/18/18 07:15	10/26/18 21:26	1
2-Butanone (MEK)	<0.0023		0.0051	0.0023	mg/Kg	☼	10/18/18 07:15	10/26/18 21:26	1
Carbon disulfide	<0.0011		0.0051	0.0011	mg/Kg	☼	10/18/18 07:15	10/26/18 21:26	1
Carbon tetrachloride	<0.00059		0.0020	0.00059	mg/Kg	☼	10/18/18 07:15	10/26/18 21:26	1
Chlorobenzene	<0.00075		0.0020	0.00075	mg/Kg	☼	10/18/18 07:15	10/26/18 21:26	1
Chloroethane	<0.0015	*	0.0051	0.0015	mg/Kg	☼	10/18/18 07:15	10/26/18 21:26	1
Chloroform	<0.00071		0.0020	0.00071	mg/Kg	☼	10/18/18 07:15	10/26/18 21:26	1
Chloromethane	<0.0021		0.0051	0.0021	mg/Kg	☼	10/18/18 07:15	10/26/18 21:26	1
cis-1,2-Dichloroethene	<0.00057		0.0020	0.00057	mg/Kg	☼	10/18/18 07:15	10/26/18 21:26	1
cis-1,3-Dichloropropene	<0.00062		0.0020	0.00062	mg/Kg	☼	10/18/18 07:15	10/26/18 21:26	1
Dibromochloromethane	<0.00067		0.0020	0.00067	mg/Kg	☼	10/18/18 07:15	10/26/18 21:26	1
1,1-Dichloroethane	<0.00070		0.0020	0.00070	mg/Kg	☼	10/18/18 07:15	10/26/18 21:26	1
1,2-Dichloroethane	<0.0016		0.0051	0.0016	mg/Kg	☼	10/18/18 07:15	10/26/18 21:26	1
1,1-Dichloroethene	<0.00070		0.0020	0.00070	mg/Kg	☼	10/18/18 07:15	10/26/18 21:26	1
1,2-Dichloropropane	<0.00053		0.0020	0.00053	mg/Kg	☼	10/18/18 07:15	10/26/18 21:26	1
1,3-Dichloropropane, Total	<0.00072		0.0020	0.00072	mg/Kg	☼	10/18/18 07:15	10/26/18 21:26	1
Ethylbenzene	<0.00098		0.0020	0.00098	mg/Kg	☼	10/18/18 07:15	10/26/18 21:26	1
2-Hexanone	<0.0016		0.0051	0.0016	mg/Kg	☼	10/18/18 07:15	10/26/18 21:26	1
Methylene Chloride	<0.0020		0.0051	0.0020	mg/Kg	☼	10/18/18 07:15	10/26/18 21:26	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0051	0.0015	mg/Kg	☼	10/18/18 07:15	10/26/18 21:26	1
Methyl tert-butyl ether	<0.00060		0.0020	0.00060	mg/Kg	☼	10/18/18 07:15	10/26/18 21:26	1
Styrene	<0.00062		0.0020	0.00062	mg/Kg	☼	10/18/18 07:15	10/26/18 21:26	1
1,1,2,2-Tetrachloroethane	<0.00065		0.0020	0.00065	mg/Kg	☼	10/18/18 07:15	10/26/18 21:26	1
Tetrachloroethene	<0.00070		0.0020	0.00070	mg/Kg	☼	10/18/18 07:15	10/26/18 21:26	1
Toluene	<0.00052		0.0020	0.00052	mg/Kg	☼	10/18/18 07:15	10/26/18 21:26	1
trans-1,2-Dichloroethene	<0.00090		0.0020	0.00090	mg/Kg	☼	10/18/18 07:15	10/26/18 21:26	1
trans-1,3-Dichloropropene	<0.00072		0.0020	0.00072	mg/Kg	☼	10/18/18 07:15	10/26/18 21:26	1
1,1,1-Trichloroethane	<0.00068		0.0020	0.00068	mg/Kg	☼	10/18/18 07:15	10/26/18 21:26	1
1,1,2-Trichloroethane	<0.00088		0.0020	0.00088	mg/Kg	☼	10/18/18 07:15	10/26/18 21:26	1
Trichloroethene	<0.00069		0.0020	0.00069	mg/Kg	☼	10/18/18 07:15	10/26/18 21:26	1
Vinyl acetate	<0.0018		0.0051	0.0018	mg/Kg	☼	10/18/18 07:15	10/26/18 21:26	1
Vinyl chloride	<0.00090		0.0020	0.00090	mg/Kg	☼	10/18/18 07:15	10/26/18 21:26	1
Xylenes, Total	<0.00065		0.0041	0.00065	mg/Kg	☼	10/18/18 07:15	10/26/18 21:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		75 - 131	10/18/18 07:15	10/26/18 21:26	1
Dibromofluoromethane	101		75 - 126	10/18/18 07:15	10/26/18 21:26	1
1,2-Dichloroethane-d4 (Surr)	123		70 - 134	10/18/18 07:15	10/26/18 21:26	1
Toluene-d8 (Surr)	91		75 - 124	10/18/18 07:15	10/26/18 21:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0075		0.041	0.0075	mg/Kg	☼	10/23/18 16:16	10/25/18 13:09	1
Acenaphthylene	<0.0055		0.041	0.0055	mg/Kg	☼	10/23/18 16:16	10/25/18 13:09	1
Anthracene	0.014	J *	0.041	0.0069	mg/Kg	☼	10/23/18 16:16	10/25/18 13:09	1
Benzo[a]anthracene	0.042		0.041	0.0056	mg/Kg	☼	10/23/18 16:16	10/25/18 13:09	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153333-1

Client Sample ID: 2947V-10-B02 (0-5)

Lab Sample ID: 500-153333-2

Date Collected: 10/17/18 13:25

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 77.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.074		0.041	0.0080	mg/Kg	☼	10/23/18 16:16	10/25/18 13:09	1
Benzo[b]fluoranthene	0.17		0.041	0.0090	mg/Kg	☼	10/23/18 16:16	10/25/18 13:09	1
Benzo[g,h,i]perylene	0.036	J	0.041	0.013	mg/Kg	☼	10/23/18 16:16	10/25/18 13:09	1
Benzo[k]fluoranthene	0.052		0.041	0.012	mg/Kg	☼	10/23/18 16:16	10/25/18 13:09	1
Bis(2-chloroethoxy)methane	<0.042		0.21	0.042	mg/Kg	☼	10/23/18 16:16	10/25/18 13:09	1
Bis(2-chloroethyl)ether	<0.062		0.21	0.062	mg/Kg	☼	10/23/18 16:16	10/25/18 13:09	1
Bis(2-ethylhexyl) phthalate	<0.076		0.21	0.076	mg/Kg	☼	10/23/18 16:16	10/25/18 13:09	1
4-Bromophenyl phenyl ether	<0.055		0.21	0.055	mg/Kg	☼	10/23/18 16:16	10/25/18 13:09	1
Butyl benzyl phthalate	<0.079		0.21	0.079	mg/Kg	☼	10/23/18 16:16	10/25/18 13:09	1
Carbazole	<0.10		0.21	0.10	mg/Kg	☼	10/23/18 16:16	10/25/18 13:09	1
4-Chloroaniline	<0.20		0.84	0.20	mg/Kg	☼	10/23/18 16:16	10/25/18 13:09	1
4-Chloro-3-methylphenol	<0.14		0.41	0.14	mg/Kg	☼	10/23/18 16:16	10/25/18 13:09	1
2-Chloronaphthalene	<0.046		0.21	0.046	mg/Kg	☼	10/23/18 16:16	10/25/18 13:09	1
2-Chlorophenol	<0.071	*	0.21	0.071	mg/Kg	☼	10/23/18 16:16	10/25/18 13:09	1
4-Chlorophenyl phenyl ether	<0.049		0.21	0.049	mg/Kg	☼	10/23/18 16:16	10/25/18 13:09	1
Chrysene	0.067		0.041	0.011	mg/Kg	☼	10/23/18 16:16	10/25/18 13:09	1
Dibenz(a,h)anthracene	0.012	J	0.041	0.0080	mg/Kg	☼	10/23/18 16:16	10/25/18 13:09	1
Dibenzofuran	<0.049		0.21	0.049	mg/Kg	☼	10/23/18 16:16	10/25/18 13:09	1
1,2-Dichlorobenzene	<0.050		0.21	0.050	mg/Kg	☼	10/23/18 16:16	10/25/18 13:09	1
1,3-Dichlorobenzene	<0.047		0.21	0.047	mg/Kg	☼	10/23/18 16:16	10/25/18 13:09	1
1,4-Dichlorobenzene	<0.053		0.21	0.053	mg/Kg	☼	10/23/18 16:16	10/25/18 13:09	1
3,3'-Dichlorobenzidine	<0.058		0.21	0.058	mg/Kg	☼	10/23/18 16:16	10/25/18 13:09	1
2,4-Dichlorophenol	<0.099		0.41	0.099	mg/Kg	☼	10/23/18 16:16	10/25/18 13:09	1
Diethyl phthalate	<0.070		0.21	0.070	mg/Kg	☼	10/23/18 16:16	10/25/18 13:09	1
2,4-Dimethylphenol	<0.16	*	0.41	0.16	mg/Kg	☼	10/23/18 16:16	10/25/18 13:09	1
Dimethyl phthalate	<0.054		0.21	0.054	mg/Kg	☼	10/23/18 16:16	10/25/18 13:09	1
Di-n-butyl phthalate	<0.063		0.21	0.063	mg/Kg	☼	10/23/18 16:16	10/25/18 13:09	1
4,6-Dinitro-2-methylphenol	<0.33		0.84	0.33	mg/Kg	☼	10/23/18 16:16	10/25/18 13:09	1
2,4-Dinitrophenol	<0.73		0.84	0.73	mg/Kg	☼	10/23/18 16:16	10/25/18 13:09	1
2,4-Dinitrotoluene	<0.066		0.21	0.066	mg/Kg	☼	10/23/18 16:16	10/25/18 13:09	1
2,6-Dinitrotoluene	<0.082		0.21	0.082	mg/Kg	☼	10/23/18 16:16	10/25/18 13:09	1
Di-n-octyl phthalate	<0.068		0.21	0.068	mg/Kg	☼	10/23/18 16:16	10/25/18 13:09	1
Fluoranthene	0.036	J *	0.041	0.0077	mg/Kg	☼	10/23/18 16:16	10/25/18 13:09	1
Fluorene	<0.0058		0.041	0.0058	mg/Kg	☼	10/23/18 16:16	10/25/18 13:09	1
Hexachlorobenzene	<0.0096	*	0.084	0.0096	mg/Kg	☼	10/23/18 16:16	10/25/18 13:09	1
Hexachlorobutadiene	<0.065		0.21	0.065	mg/Kg	☼	10/23/18 16:16	10/25/18 13:09	1
Hexachlorocyclopentadiene	<0.24		0.84	0.24	mg/Kg	☼	10/23/18 16:16	10/25/18 13:09	1
Hexachloroethane	<0.063		0.21	0.063	mg/Kg	☼	10/23/18 16:16	10/25/18 13:09	1
Indeno[1,2,3-cd]pyrene	0.038	J	0.041	0.011	mg/Kg	☼	10/23/18 16:16	10/25/18 13:09	1
Isophorone	<0.047		0.21	0.047	mg/Kg	☼	10/23/18 16:16	10/25/18 13:09	1
2-Methylnaphthalene	<0.0076	*	0.084	0.0076	mg/Kg	☼	10/23/18 16:16	10/25/18 13:09	1
2-Methylphenol	<0.067		0.21	0.067	mg/Kg	☼	10/23/18 16:16	10/25/18 13:09	1
3 & 4 Methylphenol	<0.069		0.21	0.069	mg/Kg	☼	10/23/18 16:16	10/25/18 13:09	1
Naphthalene	<0.0064	*	0.041	0.0064	mg/Kg	☼	10/23/18 16:16	10/25/18 13:09	1
2-Nitroaniline	<0.056		0.21	0.056	mg/Kg	☼	10/23/18 16:16	10/25/18 13:09	1
3-Nitroaniline	<0.13		0.41	0.13	mg/Kg	☼	10/23/18 16:16	10/25/18 13:09	1
4-Nitroaniline	<0.17		0.41	0.17	mg/Kg	☼	10/23/18 16:16	10/25/18 13:09	1
Nitrobenzene	<0.010		0.041	0.010	mg/Kg	☼	10/23/18 16:16	10/25/18 13:09	1
2-Nitrophenol	<0.098		0.41	0.098	mg/Kg	☼	10/23/18 16:16	10/25/18 13:09	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153333-1

Client Sample ID: 2947V-10-B02 (0-5)

Lab Sample ID: 500-153333-2

Date Collected: 10/17/18 13:25

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 77.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.40		0.84	0.40	mg/Kg	☼	10/23/18 16:16	10/25/18 13:09	1
N-Nitrosodi-n-propylamine	<0.051		0.084	0.051	mg/Kg	☼	10/23/18 16:16	10/25/18 13:09	1
N-Nitrosodiphenylamine	<0.049	*	0.21	0.049	mg/Kg	☼	10/23/18 16:16	10/25/18 13:09	1
2,2'-oxybis[1-chloropropane]	<0.048		0.21	0.048	mg/Kg	☼	10/23/18 16:16	10/25/18 13:09	1
Pentachlorophenol	<0.67		0.84	0.67	mg/Kg	☼	10/23/18 16:16	10/25/18 13:09	1
Phenanthrene	0.015	J	0.041	0.0058	mg/Kg	☼	10/23/18 16:16	10/25/18 13:09	1
Phenol	<0.092		0.21	0.092	mg/Kg	☼	10/23/18 16:16	10/25/18 13:09	1
Pyrene	0.046		0.041	0.0083	mg/Kg	☼	10/23/18 16:16	10/25/18 13:09	1
1,2,4-Trichlorobenzene	<0.045		0.21	0.045	mg/Kg	☼	10/23/18 16:16	10/25/18 13:09	1
2,4,5-Trichlorophenol	<0.095		0.41	0.095	mg/Kg	☼	10/23/18 16:16	10/25/18 13:09	1
2,4,6-Trichlorophenol	<0.14		0.41	0.14	mg/Kg	☼	10/23/18 16:16	10/25/18 13:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	94		43 - 145	10/23/18 16:16	10/25/18 13:09	1
2-Fluorophenol	109		31 - 166	10/23/18 16:16	10/25/18 13:09	1
Nitrobenzene-d5	91		37 - 147	10/23/18 16:16	10/25/18 13:09	1
Phenol-d5	109		30 - 153	10/23/18 16:16	10/25/18 13:09	1
Terphenyl-d14	120		42 - 157	10/23/18 16:16	10/25/18 13:09	1
2,4,6-Tribromophenol	79		31 - 143	10/23/18 16:16	10/25/18 13:09	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.31	J	1.2	0.24	mg/Kg	☼	10/23/18 18:09	10/24/18 18:09	1
Arsenic	8.8		0.60	0.21	mg/Kg	☼	10/23/18 18:09	10/24/18 18:09	1
Barium	110		0.60	0.069	mg/Kg	☼	10/23/18 18:09	10/24/18 18:09	1
Beryllium	0.69		0.24	0.056	mg/Kg	☼	10/23/18 18:09	10/24/18 18:09	1
Cadmium	0.27	B	0.12	0.022	mg/Kg	☼	10/23/18 18:09	10/24/18 18:09	1
Chromium	16		0.60	0.30	mg/Kg	☼	10/23/18 18:09	10/24/18 18:09	1
Cobalt	9.3		0.30	0.079	mg/Kg	☼	10/23/18 18:09	10/24/18 18:09	1
Copper	18	B	0.60	0.17	mg/Kg	☼	10/23/18 18:09	10/24/18 18:09	1
Iron	21000	B	12	6.3	mg/Kg	☼	10/23/18 18:09	10/24/18 18:09	1
Lead	55		0.30	0.14	mg/Kg	☼	10/23/18 18:09	10/24/18 18:09	1
Magnesium	8800	B	6.0	3.0	mg/Kg	☼	10/23/18 18:09	10/24/18 18:09	1
Calcium	13000	B	12	2.0	mg/Kg	☼	10/23/18 18:09	10/24/18 18:09	1
Manganese	520		0.60	0.088	mg/Kg	☼	10/23/18 18:09	10/24/18 18:09	1
Nickel	23		0.60	0.18	mg/Kg	☼	10/23/18 18:09	10/24/18 18:09	1
Selenium	1.2	B	0.60	0.36	mg/Kg	☼	10/23/18 18:09	10/24/18 18:09	1
Silver	0.27	J	0.30	0.078	mg/Kg	☼	10/23/18 18:09	10/24/18 18:09	1
Thallium	<0.30		0.60	0.30	mg/Kg	☼	10/23/18 18:09	10/24/18 18:09	1
Vanadium	27		0.30	0.071	mg/Kg	☼	10/23/18 18:09	10/24/18 18:09	1
Zinc	110		1.2	0.53	mg/Kg	☼	10/23/18 18:09	10/24/18 18:09	1
Potassium	1700		30	11	mg/Kg	☼	10/23/18 18:09	10/24/18 18:09	1
Sodium	920		60	8.9	mg/Kg	☼	10/23/18 18:09	10/24/18 18:09	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		10/24/18 15:31	10/25/18 16:41	1
Barium	0.60		0.50	0.050	mg/L		10/24/18 15:31	10/25/18 16:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/24/18 15:31	10/25/18 16:41	1
Cadmium	0.0026	J	0.0050	0.0020	mg/L		10/24/18 15:31	10/25/18 16:41	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153333-1

Client Sample ID: 2947V-10-B02 (0-5)

Lab Sample ID: 500-153333-2

Date Collected: 10/17/18 13:25

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 77.0

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		10/24/18 15:31	10/25/18 16:41	1
Chromium	<0.010		0.025	0.010	mg/L		10/24/18 15:31	10/25/18 16:41	1
Cobalt	<0.010		0.025	0.010	mg/L		10/24/18 15:31	10/25/18 16:41	1
Copper	<0.010		0.025	0.010	mg/L		10/24/18 15:31	10/25/18 16:41	1
Iron	<0.20		0.40	0.20	mg/L		10/24/18 15:31	10/25/18 16:41	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/24/18 15:31	10/25/18 16:41	1
Magnesium	120		2.5	0.50	mg/L		10/24/18 15:31	10/25/18 16:41	1
Manganese	0.28		0.025	0.010	mg/L		10/24/18 15:31	10/25/18 16:41	1
Nickel	<0.010		0.025	0.010	mg/L		10/24/18 15:31	10/25/18 16:41	1
Potassium	0.78 J		2.5	0.50	mg/L		10/24/18 15:31	10/25/18 16:41	1
Selenium	<0.020		0.050	0.020	mg/L		10/24/18 15:31	10/25/18 16:41	1
Silver	<0.010		0.025	0.010	mg/L		10/24/18 15:31	10/25/18 16:41	1
Vanadium	<0.010		0.025	0.010	mg/L		10/24/18 15:31	10/25/18 16:41	1
Zinc	0.22 J		0.50	0.020	mg/L		10/24/18 15:31	10/25/18 16:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.95		0.025	0.010	mg/L		10/24/18 15:30	10/25/18 14:26	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		10/24/18 15:31	10/25/18 14:10	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/24/18 15:31	10/25/18 14:10	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		10/24/18 11:25	10/25/18 09:36	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.021	0.0069	mg/Kg	☼	10/23/18 15:50	10/24/18 10:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.21		0.61	0.21	mg/Kg	☼	10/26/18 11:10	10/26/18 15:29	1
pH	8.1		0.2	0.2	SU			10/24/18 14:11	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153333-1

Client Sample ID: 2947V-10-B01 (0-5)

Lab Sample ID: 500-153333-3

Date Collected: 10/17/18 13:40

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 79.4

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	☼	10/18/18 07:15	10/26/18 21:51	1
Benzene	<0.00049		0.0019	0.00049	mg/Kg	☼	10/18/18 07:15	10/26/18 21:51	1
Bromodichloromethane	<0.00039		0.0019	0.00039	mg/Kg	☼	10/18/18 07:15	10/26/18 21:51	1
Bromoform	<0.00056		0.0019	0.00056	mg/Kg	☼	10/18/18 07:15	10/26/18 21:51	1
Bromomethane	<0.0018		0.0048	0.0018	mg/Kg	☼	10/18/18 07:15	10/26/18 21:51	1
2-Butanone (MEK)	<0.0021		0.0048	0.0021	mg/Kg	☼	10/18/18 07:15	10/26/18 21:51	1
Carbon disulfide	<0.00099		0.0048	0.00099	mg/Kg	☼	10/18/18 07:15	10/26/18 21:51	1
Carbon tetrachloride	<0.00055		0.0019	0.00055	mg/Kg	☼	10/18/18 07:15	10/26/18 21:51	1
Chlorobenzene	<0.00070		0.0019	0.00070	mg/Kg	☼	10/18/18 07:15	10/26/18 21:51	1
Chloroethane	<0.0014	*	0.0048	0.0014	mg/Kg	☼	10/18/18 07:15	10/26/18 21:51	1
Chloroform	<0.00066		0.0019	0.00066	mg/Kg	☼	10/18/18 07:15	10/26/18 21:51	1
Chloromethane	<0.0019		0.0048	0.0019	mg/Kg	☼	10/18/18 07:15	10/26/18 21:51	1
cis-1,2-Dichloroethene	<0.00053		0.0019	0.00053	mg/Kg	☼	10/18/18 07:15	10/26/18 21:51	1
cis-1,3-Dichloropropene	<0.00057		0.0019	0.00057	mg/Kg	☼	10/18/18 07:15	10/26/18 21:51	1
Dibromochloromethane	<0.00062		0.0019	0.00062	mg/Kg	☼	10/18/18 07:15	10/26/18 21:51	1
1,1-Dichloroethane	<0.00065		0.0019	0.00065	mg/Kg	☼	10/18/18 07:15	10/26/18 21:51	1
1,2-Dichloroethane	<0.0015		0.0048	0.0015	mg/Kg	☼	10/18/18 07:15	10/26/18 21:51	1
1,1-Dichloroethene	<0.00066		0.0019	0.00066	mg/Kg	☼	10/18/18 07:15	10/26/18 21:51	1
1,2-Dichloropropane	<0.00049		0.0019	0.00049	mg/Kg	☼	10/18/18 07:15	10/26/18 21:51	1
1,3-Dichloropropene, Total	<0.00067		0.0019	0.00067	mg/Kg	☼	10/18/18 07:15	10/26/18 21:51	1
Ethylbenzene	<0.00091		0.0019	0.00091	mg/Kg	☼	10/18/18 07:15	10/26/18 21:51	1
2-Hexanone	<0.0015		0.0048	0.0015	mg/Kg	☼	10/18/18 07:15	10/26/18 21:51	1
Methylene Chloride	<0.0019		0.0048	0.0019	mg/Kg	☼	10/18/18 07:15	10/26/18 21:51	1
4-Methyl-2-pentanone (MIBK)	<0.0014		0.0048	0.0014	mg/Kg	☼	10/18/18 07:15	10/26/18 21:51	1
Methyl tert-butyl ether	<0.00056		0.0019	0.00056	mg/Kg	☼	10/18/18 07:15	10/26/18 21:51	1
Styrene	<0.00058		0.0019	0.00058	mg/Kg	☼	10/18/18 07:15	10/26/18 21:51	1
1,1,2,2-Tetrachloroethane	<0.00061		0.0019	0.00061	mg/Kg	☼	10/18/18 07:15	10/26/18 21:51	1
Tetrachloroethene	<0.00065		0.0019	0.00065	mg/Kg	☼	10/18/18 07:15	10/26/18 21:51	1
Toluene	<0.00048		0.0019	0.00048	mg/Kg	☼	10/18/18 07:15	10/26/18 21:51	1
trans-1,2-Dichloroethene	<0.00084		0.0019	0.00084	mg/Kg	☼	10/18/18 07:15	10/26/18 21:51	1
trans-1,3-Dichloropropene	<0.00067		0.0019	0.00067	mg/Kg	☼	10/18/18 07:15	10/26/18 21:51	1
1,1,1-Trichloroethane	<0.00064		0.0019	0.00064	mg/Kg	☼	10/18/18 07:15	10/26/18 21:51	1
1,1,2-Trichloroethane	<0.00082		0.0019	0.00082	mg/Kg	☼	10/18/18 07:15	10/26/18 21:51	1
Trichloroethene	<0.00064		0.0019	0.00064	mg/Kg	☼	10/18/18 07:15	10/26/18 21:51	1
Vinyl acetate	<0.0017		0.0048	0.0017	mg/Kg	☼	10/18/18 07:15	10/26/18 21:51	1
Vinyl chloride	<0.00084		0.0019	0.00084	mg/Kg	☼	10/18/18 07:15	10/26/18 21:51	1
Xylenes, Total	<0.00061		0.0038	0.00061	mg/Kg	☼	10/18/18 07:15	10/26/18 21:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		75 - 131	10/18/18 07:15	10/26/18 21:51	1
Dibromofluoromethane	98		75 - 126	10/18/18 07:15	10/26/18 21:51	1
1,2-Dichloroethane-d4 (Surr)	122		70 - 134	10/18/18 07:15	10/26/18 21:51	1
Toluene-d8 (Surr)	91		75 - 124	10/18/18 07:15	10/26/18 21:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0074		0.041	0.0074	mg/Kg	☼	10/23/18 16:16	10/25/18 13:37	1
Acenaphthylene	<0.0054		0.041	0.0054	mg/Kg	☼	10/23/18 16:16	10/25/18 13:37	1
Anthracene	<0.0069	*	0.041	0.0069	mg/Kg	☼	10/23/18 16:16	10/25/18 13:37	1
Benzo[a]anthracene	<0.0056		0.041	0.0056	mg/Kg	☼	10/23/18 16:16	10/25/18 13:37	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153333-1

Client Sample ID: 2947V-10-B01 (0-5)

Lab Sample ID: 500-153333-3

Date Collected: 10/17/18 13:40

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 79.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.0080		0.041	0.0080	mg/Kg	☼	10/23/18 16:16	10/25/18 13:37	1
Benzo[b]fluoranthene	<0.0089		0.041	0.0089	mg/Kg	☼	10/23/18 16:16	10/25/18 13:37	1
Benzo[g,h,i]perylene	<0.013		0.041	0.013	mg/Kg	☼	10/23/18 16:16	10/25/18 13:37	1
Benzo[k]fluoranthene	<0.012		0.041	0.012	mg/Kg	☼	10/23/18 16:16	10/25/18 13:37	1
Bis(2-chloroethoxy)methane	<0.042		0.21	0.042	mg/Kg	☼	10/23/18 16:16	10/25/18 13:37	1
Bis(2-chloroethyl)ether	<0.062		0.21	0.062	mg/Kg	☼	10/23/18 16:16	10/25/18 13:37	1
Bis(2-ethylhexyl) phthalate	<0.075		0.21	0.075	mg/Kg	☼	10/23/18 16:16	10/25/18 13:37	1
4-Bromophenyl phenyl ether	<0.054		0.21	0.054	mg/Kg	☼	10/23/18 16:16	10/25/18 13:37	1
Butyl benzyl phthalate	<0.079		0.21	0.079	mg/Kg	☼	10/23/18 16:16	10/25/18 13:37	1
Carbazole	<0.10		0.21	0.10	mg/Kg	☼	10/23/18 16:16	10/25/18 13:37	1
4-Chloroaniline	<0.19		0.83	0.19	mg/Kg	☼	10/23/18 16:16	10/25/18 13:37	1
4-Chloro-3-methylphenol	<0.14		0.41	0.14	mg/Kg	☼	10/23/18 16:16	10/25/18 13:37	1
2-Chloronaphthalene	<0.046		0.21	0.046	mg/Kg	☼	10/23/18 16:16	10/25/18 13:37	1
2-Chlorophenol	<0.070 *		0.21	0.070	mg/Kg	☼	10/23/18 16:16	10/25/18 13:37	1
4-Chlorophenyl phenyl ether	<0.048		0.21	0.048	mg/Kg	☼	10/23/18 16:16	10/25/18 13:37	1
Chrysene	<0.011		0.041	0.011	mg/Kg	☼	10/23/18 16:16	10/25/18 13:37	1
Dibenz(a,h)anthracene	<0.0080		0.041	0.0080	mg/Kg	☼	10/23/18 16:16	10/25/18 13:37	1
Dibenzofuran	<0.048		0.21	0.048	mg/Kg	☼	10/23/18 16:16	10/25/18 13:37	1
1,2-Dichlorobenzene	<0.049		0.21	0.049	mg/Kg	☼	10/23/18 16:16	10/25/18 13:37	1
1,3-Dichlorobenzene	<0.046		0.21	0.046	mg/Kg	☼	10/23/18 16:16	10/25/18 13:37	1
1,4-Dichlorobenzene	<0.053		0.21	0.053	mg/Kg	☼	10/23/18 16:16	10/25/18 13:37	1
3,3'-Dichlorobenzidine	<0.058		0.21	0.058	mg/Kg	☼	10/23/18 16:16	10/25/18 13:37	1
2,4-Dichlorophenol	<0.098		0.41	0.098	mg/Kg	☼	10/23/18 16:16	10/25/18 13:37	1
Diethyl phthalate	<0.070		0.21	0.070	mg/Kg	☼	10/23/18 16:16	10/25/18 13:37	1
2,4-Dimethylphenol	<0.16 *		0.41	0.16	mg/Kg	☼	10/23/18 16:16	10/25/18 13:37	1
Dimethyl phthalate	<0.054		0.21	0.054	mg/Kg	☼	10/23/18 16:16	10/25/18 13:37	1
Di-n-butyl phthalate	<0.063		0.21	0.063	mg/Kg	☼	10/23/18 16:16	10/25/18 13:37	1
4,6-Dinitro-2-methylphenol	<0.33		0.83	0.33	mg/Kg	☼	10/23/18 16:16	10/25/18 13:37	1
2,4-Dinitrophenol	<0.73		0.83	0.73	mg/Kg	☼	10/23/18 16:16	10/25/18 13:37	1
2,4-Dinitrotoluene	<0.066		0.21	0.066	mg/Kg	☼	10/23/18 16:16	10/25/18 13:37	1
2,6-Dinitrotoluene	<0.081		0.21	0.081	mg/Kg	☼	10/23/18 16:16	10/25/18 13:37	1
Di-n-octyl phthalate	<0.067		0.21	0.067	mg/Kg	☼	10/23/18 16:16	10/25/18 13:37	1
Fluoranthene	<0.0077 *		0.041	0.0077	mg/Kg	☼	10/23/18 16:16	10/25/18 13:37	1
Fluorene	<0.0058		0.041	0.0058	mg/Kg	☼	10/23/18 16:16	10/25/18 13:37	1
Hexachlorobenzene	<0.0096 *		0.083	0.0096	mg/Kg	☼	10/23/18 16:16	10/25/18 13:37	1
Hexachlorobutadiene	<0.065		0.21	0.065	mg/Kg	☼	10/23/18 16:16	10/25/18 13:37	1
Hexachlorocyclopentadiene	<0.24		0.83	0.24	mg/Kg	☼	10/23/18 16:16	10/25/18 13:37	1
Hexachloroethane	<0.063		0.21	0.063	mg/Kg	☼	10/23/18 16:16	10/25/18 13:37	1
Indeno[1,2,3-cd]pyrene	<0.011		0.041	0.011	mg/Kg	☼	10/23/18 16:16	10/25/18 13:37	1
Isophorone	<0.046		0.21	0.046	mg/Kg	☼	10/23/18 16:16	10/25/18 13:37	1
2-Methylnaphthalene	<0.0076 *		0.083	0.0076	mg/Kg	☼	10/23/18 16:16	10/25/18 13:37	1
2-Methylphenol	<0.066		0.21	0.066	mg/Kg	☼	10/23/18 16:16	10/25/18 13:37	1
3 & 4 Methylphenol	<0.069		0.21	0.069	mg/Kg	☼	10/23/18 16:16	10/25/18 13:37	1
Naphthalene	<0.0064 *		0.041	0.0064	mg/Kg	☼	10/23/18 16:16	10/25/18 13:37	1
2-Nitroaniline	<0.056		0.21	0.056	mg/Kg	☼	10/23/18 16:16	10/25/18 13:37	1
3-Nitroaniline	<0.13		0.41	0.13	mg/Kg	☼	10/23/18 16:16	10/25/18 13:37	1
4-Nitroaniline	<0.17		0.41	0.17	mg/Kg	☼	10/23/18 16:16	10/25/18 13:37	1
Nitrobenzene	<0.010		0.041	0.010	mg/Kg	☼	10/23/18 16:16	10/25/18 13:37	1
2-Nitrophenol	<0.098		0.41	0.098	mg/Kg	☼	10/23/18 16:16	10/25/18 13:37	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153333-1

Client Sample ID: 2947V-10-B01 (0-5)

Lab Sample ID: 500-153333-3

Date Collected: 10/17/18 13:40

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 79.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.39		0.83	0.39	mg/Kg	☼	10/23/18 16:16	10/25/18 13:37	1
N-Nitrosodi-n-propylamine	<0.050		0.083	0.050	mg/Kg	☼	10/23/18 16:16	10/25/18 13:37	1
N-Nitrosodiphenylamine	<0.049	*	0.21	0.049	mg/Kg	☼	10/23/18 16:16	10/25/18 13:37	1
2,2'-oxybis[1-chloropropane]	<0.048		0.21	0.048	mg/Kg	☼	10/23/18 16:16	10/25/18 13:37	1
Pentachlorophenol	<0.66		0.83	0.66	mg/Kg	☼	10/23/18 16:16	10/25/18 13:37	1
Phenanthrene	<0.0058		0.041	0.0058	mg/Kg	☼	10/23/18 16:16	10/25/18 13:37	1
Phenol	<0.092		0.21	0.092	mg/Kg	☼	10/23/18 16:16	10/25/18 13:37	1
Pyrene	<0.0082		0.041	0.0082	mg/Kg	☼	10/23/18 16:16	10/25/18 13:37	1
1,2,4-Trichlorobenzene	<0.044		0.21	0.044	mg/Kg	☼	10/23/18 16:16	10/25/18 13:37	1
2,4,5-Trichlorophenol	<0.094		0.41	0.094	mg/Kg	☼	10/23/18 16:16	10/25/18 13:37	1
2,4,6-Trichlorophenol	<0.14		0.41	0.14	mg/Kg	☼	10/23/18 16:16	10/25/18 13:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	96		43 - 145	10/23/18 16:16	10/25/18 13:37	1
2-Fluorophenol	115		31 - 166	10/23/18 16:16	10/25/18 13:37	1
Nitrobenzene-d5	93		37 - 147	10/23/18 16:16	10/25/18 13:37	1
Phenol-d5	114		30 - 153	10/23/18 16:16	10/25/18 13:37	1
Terphenyl-d14	128		42 - 157	10/23/18 16:16	10/25/18 13:37	1
2,4,6-Tribromophenol	79		31 - 143	10/23/18 16:16	10/25/18 13:37	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.45	J	1.2	0.24	mg/Kg	☼	10/23/18 18:09	10/24/18 18:13	1
Arsenic	15		0.62	0.21	mg/Kg	☼	10/23/18 18:09	10/24/18 18:13	1
Barium	43		0.62	0.071	mg/Kg	☼	10/23/18 18:09	10/24/18 18:13	1
Beryllium	0.71		0.25	0.058	mg/Kg	☼	10/23/18 18:09	10/24/18 18:13	1
Cadmium	0.12	B	0.12	0.022	mg/Kg	☼	10/23/18 18:09	10/24/18 18:13	1
Chromium	18		0.62	0.31	mg/Kg	☼	10/23/18 18:09	10/24/18 18:13	1
Cobalt	15		0.31	0.081	mg/Kg	☼	10/23/18 18:09	10/24/18 18:13	1
Copper	32	B	0.62	0.17	mg/Kg	☼	10/23/18 18:09	10/24/18 18:13	1
Iron	27000	B	12	6.4	mg/Kg	☼	10/23/18 18:09	10/24/18 18:13	1
Lead	25		0.31	0.14	mg/Kg	☼	10/23/18 18:09	10/24/18 18:13	1
Magnesium	3300	B	6.2	3.1	mg/Kg	☼	10/23/18 18:09	10/24/18 18:13	1
Calcium	1600	B	12	2.1	mg/Kg	☼	10/23/18 18:09	10/24/18 18:13	1
Manganese	480		0.62	0.090	mg/Kg	☼	10/23/18 18:09	10/24/18 18:13	1
Nickel	35		0.62	0.18	mg/Kg	☼	10/23/18 18:09	10/24/18 18:13	1
Selenium	0.85	B	0.62	0.36	mg/Kg	☼	10/23/18 18:09	10/24/18 18:13	1
Silver	0.33		0.31	0.080	mg/Kg	☼	10/23/18 18:09	10/24/18 18:13	1
Thallium	0.43	J	0.62	0.31	mg/Kg	☼	10/23/18 18:09	10/24/18 18:13	1
Vanadium	28		0.31	0.073	mg/Kg	☼	10/23/18 18:09	10/24/18 18:13	1
Zinc	110		1.2	0.54	mg/Kg	☼	10/23/18 18:09	10/24/18 18:13	1
Potassium	1600		31	11	mg/Kg	☼	10/23/18 18:09	10/24/18 18:13	1
Sodium	990		62	9.2	mg/Kg	☼	10/23/18 18:09	10/24/18 18:13	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		10/24/18 15:31	10/25/18 16:45	1
Barium	0.15	J	0.50	0.050	mg/L		10/24/18 15:31	10/25/18 16:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/24/18 15:31	10/25/18 16:45	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		10/24/18 15:31	10/25/18 16:45	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153333-1

Client Sample ID: 2947V-10-B01 (0-5)

Lab Sample ID: 500-153333-3

Date Collected: 10/17/18 13:40

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 79.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	33		5.0	0.50	mg/L		10/24/18 15:31	10/25/18 16:45	1
Chromium	<0.010		0.025	0.010	mg/L		10/24/18 15:31	10/25/18 16:45	1
Cobalt	<0.010		0.025	0.010	mg/L		10/24/18 15:31	10/25/18 16:45	1
Copper	<0.010		0.025	0.010	mg/L		10/24/18 15:31	10/25/18 16:45	1
Iron	<0.20		0.40	0.20	mg/L		10/24/18 15:31	10/25/18 16:45	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/24/18 15:31	10/25/18 16:45	1
Magnesium	8.4		2.5	0.50	mg/L		10/24/18 15:31	10/25/18 16:45	1
Manganese	0.035		0.025	0.010	mg/L		10/24/18 15:31	10/25/18 16:45	1
Nickel	<0.010		0.025	0.010	mg/L		10/24/18 15:31	10/25/18 16:45	1
Potassium	0.51	J	2.5	0.50	mg/L		10/24/18 15:31	10/25/18 16:45	1
Selenium	<0.020		0.050	0.020	mg/L		10/24/18 15:31	10/25/18 16:45	1
Silver	<0.010		0.025	0.010	mg/L		10/24/18 15:31	10/25/18 16:45	1
Vanadium	<0.010		0.025	0.010	mg/L		10/24/18 15:31	10/25/18 16:45	1
Zinc	0.031	J	0.50	0.020	mg/L		10/24/18 15:31	10/25/18 16:45	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		10/24/18 15:31	10/25/18 14:11	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/24/18 15:31	10/25/18 14:11	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		10/24/18 11:25	10/25/18 09:38	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038		0.020	0.0067	mg/Kg	☼	10/23/18 15:50	10/24/18 11:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.16		0.48	0.16	mg/Kg	☼	10/26/18 11:10	10/26/18 15:30	1
pH	7.6		0.2	0.2	SU			10/24/18 14:14	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153333-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

GC/MS Semi 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.

Metals

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.
B	Compound was found in the blank and sample.

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 - Romeoville - WO 054

TestAmerica Job ID: 500-153333-1

Laboratory: 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	04-30-19

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

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 60
Phone: 708.534.5200 Fax: 708.534



500-153333 COC

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

Bill To (optional)
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-153333
Chain of Custody Number:
Page 1 of 1
Temperature °C of Cooler: 4°C 8 Dec 18

Client		Client Project #		Preservative		Parameter		Matrix		Comments				
<u>IPOT</u>		<u>11187007U</u>												
Project Name		Project Location/State		Lab Project #		Date		Time		# of Containers				
<u>11187007U</u>		<u>Romero, IL</u>												
Sampler		Lab PM		Date		Time		# of Containers		Matrix				
<u>D.G. #1</u>														
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	UCC'S	SUCC'S	Total	PH	TECP	SPCP	Matrix	Comments
<u>1</u>		<u>2947 U-10-B03 (0.5)</u>	<u>10/17/18</u>	<u>1305</u>	<u>5</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		<u>Enargenic</u>	
<u>2</u>		<u>2947 U-10-B02 (0.5)</u>	<u>10/17/18</u>	<u>1325</u>	<u>5</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		<u>Enargenic</u>	
<u>3</u>		<u>2947 U-10-B01 (0.5)</u>	<u>10/17/18</u>	<u>1340</u>	<u>5</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		<u>Enargenic</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 6 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>10/17/18</u> Time: <u>1545</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>10/17/18</u> Time: <u>1545</u>	Lab Courier: <u>[Signature]</u>
Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>10/17/18</u> Time: <u>1640</u>	Received By: <u>[Signature]</u> Company: <u>TA-CHE</u> Date: <u>10/17/18</u> Time: <u>1640</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:
* NO ALUMINUM
* HOLD SPCP 23 ENARGENICS
PER TERRACON INSTRUCTIONS

Lab Comments:

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-153333-1

Login Number: 153333

List Source: 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	
Cooler Temperature is recorded.	True	4.6,2.8,0.6,4.3
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	



TestAmerica

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ANALYTICAL REPORT

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

TestAmerica Job ID: 500-153234-2
Client Project/Site: IDOT - Romeoville - WO 054

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

Attn: Mr. Matthew Weiss



Authorized for release by:
10/31/2018 11:26:35 AM

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

LINKS

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results through
TotalAccess

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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 - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Job ID: 500-153234-2

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-153234-2

Receipt

The samples were received on 10/16/2018 4:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 4.8° C and 5.1° C.

GC/MS VOA

The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for 456520 recovered outside control limits for the following analytes: Chloroethane and Bromomethane. These analytes were biased high in the LCS/ LCSD and were 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 acid surrogate and/or one base surrogate outside acceptance limits: 2947V-10-B17 (0-5) (500-153234-4) and 2947V-10-B09 (0-5) (500-153234-13). 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

Method(s) 6010B: The method blank for preparation batch 500-456209 and analytical batch 500-456462 contained Copper above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

Method(s) 6010B: The interference check standard solution (ICSA) associated with Analytical batch 500-456706 had results for Copper above the reporting limit (RL). Associated samples 2947V-10-B16 (0-5) (500-153234-5), 2947V-10-B15 (0-5) (500-153234-6), 2947V-10-B14 (0-5) (500-153234-7), 2947V-10-B10 (0-5) (500-153234-12), 2947V-10-B08 (0-5) (500-153234-14), 2947V-10-B07 (0-5) (500-153234-15), 2947V-10-B06 (0-5) (500-153234-16), 2947V-10-B05 (0-5) (500-153234-17) and 2947V-10-B04 (0-5) (500-153234-18) were non-detects for Copper, therefore the data has been reported.

No additional analytical or quality issues were noted, other than those described above or 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 - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B17 (0-5)

Lab Sample ID: 500-153234-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.48		0.038	0.0069	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.078		0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Anthracene	1.3		0.038	0.0064	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	2.6		0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	1.8		0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.93		0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.93		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Carbazole	0.36		0.19	0.096	mg/Kg	1	☼	8270D	Total/NA
Chrysene	2.2		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.21		0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Dibenzofuran	0.26		0.19	0.045	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.45		0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.90		0.038	0.0099	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.035	J	0.077	0.0071	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.017	J	0.038	0.0059	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene - DL	4.5		0.19	0.041	mg/Kg	5	☼	8270D	Total/NA
Fluoranthene - DL	6.6		0.19	0.036	mg/Kg	5	☼	8270D	Total/NA
Phenanthrene - DL	5.5		0.19	0.027	mg/Kg	5	☼	8270D	Total/NA
Pyrene - DL	7.9		0.19	0.038	mg/Kg	5	☼	8270D	Total/NA
Antimony	0.44	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.6		0.55	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	96		0.55	0.063	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.76		0.22	0.052	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.43	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.9		0.28	0.073	mg/Kg	1	☼	6010B	Total/NA
Copper	20	B	0.55	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	20000	B	11	5.8	mg/Kg	1	☼	6010B	Total/NA
Lead	59		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	6600		5.5	2.8	mg/Kg	1	☼	6010B	Total/NA
Calcium	10000		11	1.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	520	B	0.55	0.080	mg/Kg	1	☼	6010B	Total/NA
Nickel	22		0.55	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.35	J	0.55	0.33	mg/Kg	1	☼	6010B	Total/NA
Silver	0.30		0.28	0.072	mg/Kg	1	☼	6010B	Total/NA
Vanadium	25		0.28	0.065	mg/Kg	1	☼	6010B	Total/NA
Zinc	130		1.1	0.49	mg/Kg	1	☼	6010B	Total/NA
Potassium	1500		28	9.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	800		55	8.2	mg/Kg	1	☼	6010B	Total/NA
Barium	0.58		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0038	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	220		5.0	0.50	mg/L	1		6010B	TCLP
Chromium	0.011	J B	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.46		0.40	0.20	mg/L	1		6010B	TCLP
Magnesium	100		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.82		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	4.0		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.90	B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.0		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.11	B	0.019	0.0063	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B17 (0-5) (Continued)

Lab Sample ID: 500-153234-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
pH	7.9		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2947V-10-B16 (0-5)

Lab Sample ID: 500-153234-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0082	J	0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.024	J	0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.012	J	0.039	0.0084	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.0089	J	0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.022	J	0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.0088	J	0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.53	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	15		0.56	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	44		0.56	0.063	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.66		0.22	0.052	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.16	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.28	0.073	mg/Kg	1	☼	6010B	Total/NA
Copper	33	B	0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	24000	B	11	5.8	mg/Kg	1	☼	6010B	Total/NA
Lead	22		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	12000		5.6	2.8	mg/Kg	1	☼	6010B	Total/NA
Calcium	17000		11	1.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	430	B	0.56	0.081	mg/Kg	1	☼	6010B	Total/NA
Nickel	31		0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Silver	0.24	J	0.28	0.072	mg/Kg	1	☼	6010B	Total/NA
Vanadium	25		0.28	0.066	mg/Kg	1	☼	6010B	Total/NA
Zinc	100		1.1	0.49	mg/Kg	1	☼	6010B	Total/NA
Potassium	1500		28	9.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	980		56	8.2	mg/Kg	1	☼	6010B	Total/NA
Barium	0.39	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0030	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	310		5.0	0.50	mg/L	1		6010B	TCLP
Chromium	0.011	J B	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.29	J	0.40	0.20	mg/L	1		6010B	TCLP
Magnesium	120		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	2.1		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.010	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.6	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.065	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.76		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.037	B	0.019	0.0064	mg/Kg	1	☼	7471B	Total/NA
pH	8.2		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2947V-10-B15 (0-5)

Lab Sample ID: 500-153234-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0075	J	0.039	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.021	J	0.039	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.011	J	0.039	0.0084	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B15 (0-5) (Continued)

Lab Sample ID: 500-153234-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.0096	J	0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.022	J	0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0085	J	0.039	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.011	J	0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.37	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	15		0.56	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	43		0.56	0.064	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.67		0.22	0.052	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.20	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.28	0.073	mg/Kg	1	☼	6010B	Total/NA
Copper	34	B	0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	25000	B	11	5.8	mg/Kg	1	☼	6010B	Total/NA
Lead	27		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	4500		5.6	2.8	mg/Kg	1	☼	6010B	Total/NA
Calcium	4600		11	1.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	510	B	0.56	0.081	mg/Kg	1	☼	6010B	Total/NA
Nickel	34		0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Silver	0.25	J	0.28	0.072	mg/Kg	1	☼	6010B	Total/NA
Vanadium	26		0.28	0.066	mg/Kg	1	☼	6010B	Total/NA
Zinc	110		1.1	0.49	mg/Kg	1	☼	6010B	Total/NA
Potassium	1600		28	9.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	800		56	8.2	mg/Kg	1	☼	6010B	Total/NA
Barium	0.25	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0030	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	160		5.0	0.50	mg/L	1		6010B	TCLP
Chromium	0.022	J B	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.31	J	0.40	0.20	mg/L	1		6010B	TCLP
Magnesium	75		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.33		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.2	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.26	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	2.3		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.041	B	0.018	0.0060	mg/Kg	1	☼	7471B	Total/NA
pH	8.5		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2947V-10-B14 (0-5)

Lab Sample ID: 500-153234-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.010	J	0.038	0.0069	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.0057	J	0.038	0.0050	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.014	J	0.038	0.0064	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.049		0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.057		0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.069		0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.042		0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.027	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.061		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.028	J	0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.087		0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B14 (0-5) (Continued)

Lab Sample ID: 500-153234-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Indeno[1,2,3-cd]pyrene	0.044		0.038	0.0099	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.050		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.082		0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.38	J	1.2	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	12		0.59	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	61		0.59	0.067	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.64		0.23	0.055	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.29	B	0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Chromium	14		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.29	0.077	mg/Kg	1	☼	6010B	Total/NA
Copper	26	B	0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	21000	B	12	6.1	mg/Kg	1	☼	6010B	Total/NA
Lead	45		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	11000		5.9	2.9	mg/Kg	1	☼	6010B	Total/NA
Calcium	17000		12	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	560	B	0.59	0.085	mg/Kg	1	☼	6010B	Total/NA
Nickel	28		0.59	0.17	mg/Kg	1	☼	6010B	Total/NA
Silver	0.20	J	0.29	0.076	mg/Kg	1	☼	6010B	Total/NA
Vanadium	23		0.29	0.069	mg/Kg	1	☼	6010B	Total/NA
Zinc	110		1.2	0.52	mg/Kg	1	☼	6010B	Total/NA
Potassium	1400		29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	1200		59	8.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.42	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0040	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	210		5.0	0.50	mg/L	1		6010B	TCLP
Chromium	0.022	J B	0.025	0.010	mg/L	1		6010B	TCLP
Cobalt	0.020	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.31	J	0.40	0.20	mg/L	1		6010B	TCLP
Magnesium	95		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	5.4		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.019	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.5	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.083	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	2.0		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.038	B	0.018	0.0061	mg/Kg	1	☼	7471B	Total/NA
pH	8.1		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2947V-10-B13 (0-5)

Lab Sample ID: 500-153234-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.016	J	0.041	0.0074	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.029	J	0.041	0.0054	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.037	J	0.041	0.0069	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.15		0.041	0.0055	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.17		0.041	0.0080	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.28		0.041	0.0089	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.11		0.041	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.11		0.041	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.19		0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.045		0.041	0.0079	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B13 (0-5) (Continued)

Lab Sample ID: 500-153234-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.33		0.041	0.0076	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.011	J	0.041	0.0058	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.10		0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.14		0.041	0.0057	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.28		0.041	0.0082	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.31	J	1.2	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	14		0.59	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	74		0.59	0.067	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.72		0.24	0.055	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.39	B	0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Chromium	19		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.29	0.077	mg/Kg	1	☼	6010B	Total/NA
Copper	30	B	0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	27000	B	12	6.1	mg/Kg	1	☼	6010B	Total/NA
Lead	52		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	9800		5.9	2.9	mg/Kg	1	☼	6010B	Total/NA
Calcium	15000		12	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	780	B	0.59	0.085	mg/Kg	1	☼	6010B	Total/NA
Nickel	35		0.59	0.17	mg/Kg	1	☼	6010B	Total/NA
Silver	0.35		0.29	0.076	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.42	J	0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	23		0.29	0.069	mg/Kg	1	☼	6010B	Total/NA
Zinc	140		1.2	0.52	mg/Kg	1	☼	6010B	Total/NA
Potassium	1600		29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	980		59	8.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.45	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0046	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	310		5.0	0.50	mg/L	1		6010B	TCLP
Chromium	0.022	J B	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.27	J	0.40	0.20	mg/L	1		6010B	TCLP
Magnesium	130		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	5.6		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.022	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.2	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.45	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.5		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.039	B	0.019	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	8.7		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2947V-10-B12 (0-5)

Lab Sample ID: 500-153234-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.014	J	0.037	0.0067	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.027	J	0.037	0.0049	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.057		0.037	0.0063	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.35		0.037	0.0050	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.42		0.037	0.0073	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.81		0.037	0.0081	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.25		0.037	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.32		0.037	0.011	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B12 (0-5) (Continued)

Lab Sample ID: 500-153234-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysene	0.49		0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.063		0.037	0.0072	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.81		0.037	0.0070	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.013	J	0.037	0.0053	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.24		0.037	0.0097	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.0061	J	0.037	0.0058	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.26		0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.65		0.037	0.0074	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.50	J	1.1	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.0		0.55	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	73		0.55	0.062	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.51		0.22	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.34	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.6		0.27	0.072	mg/Kg	1	☼	6010B	Total/NA
Copper	22	B	0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	15000	B	11	5.7	mg/Kg	1	☼	6010B	Total/NA
Lead	34		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	48000		5.5	2.7	mg/Kg	1	☼	6010B	Total/NA
Calcium	110000		55	9.3	mg/Kg	5	☼	6010B	Total/NA
Manganese	440	B	0.55	0.079	mg/Kg	1	☼	6010B	Total/NA
Nickel	17		0.55	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.36	J	0.55	0.32	mg/Kg	1	☼	6010B	Total/NA
Silver	0.21	J	0.27	0.070	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.27	0.064	mg/Kg	1	☼	6010B	Total/NA
Zinc	98		1.1	0.48	mg/Kg	1	☼	6010B	Total/NA
Potassium	1500		27	9.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	540		55	8.1	mg/Kg	1	☼	6010B	Total/NA
Barium	0.49	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0040	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	340		5.0	0.50	mg/L	1		6010B	TCLP
Chromium	0.023	J B	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	160		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.40		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.88	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.083	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.77		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.024	B	0.018	0.0058	mg/Kg	1	☼	7471B	Total/NA
pH	8.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2947V-10-B12 (0-5) Dup

Lab Sample ID: 500-153234-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.024	J	0.038	0.0069	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.043		0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.094		0.038	0.0064	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.53		0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.63		0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	1.3		0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.37		0.038	0.012	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B12 (0-5) Dup (Continued)

Lab Sample ID: 500-153234-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[k]fluoranthene	0.52		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.097	J	0.19	0.070	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.78		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.085		0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	1.2		0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.022	J	0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.34		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.010	J	0.078	0.0071	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.012	J	0.038	0.0059	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.41		0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	1.0		0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.42	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.9		0.56	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	84		0.56	0.064	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.55		0.22	0.052	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.40	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	20		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.4		0.28	0.073	mg/Kg	1	☼	6010B	Total/NA
Copper	28	B	0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	17000	B	11	5.8	mg/Kg	1	☼	6010B	Total/NA
Lead	42		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	43000		5.6	2.8	mg/Kg	1	☼	6010B	Total/NA
Calcium	96000		56	9.5	mg/Kg	5	☼	6010B	Total/NA
Manganese	590	B	0.56	0.081	mg/Kg	1	☼	6010B	Total/NA
Nickel	20		0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Silver	0.20	J	0.28	0.072	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.28	0.066	mg/Kg	1	☼	6010B	Total/NA
Zinc	120		1.1	0.49	mg/Kg	1	☼	6010B	Total/NA
Potassium	1500		28	9.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	510		56	8.3	mg/Kg	1	☼	6010B	Total/NA
Barium	0.55		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0046	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	340		5.0	0.50	mg/L	1		6010B	TCLP
Chromium	0.020	J B	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.23	J	0.40	0.20	mg/L	1		6010B	TCLP
Magnesium	160		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.72		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.89	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.60	B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.74		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.028	B	0.018	0.0059	mg/Kg	1	☼	7471B	Total/NA
pH	8.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2947V-10-B11 (0-5)

Lab Sample ID: 500-153234-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.029	J	0.039	0.0070	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.026	J	0.039	0.0052	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.10		0.039	0.0065	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.53		0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B11 (0-5) (Continued)

Lab Sample ID: 500-153234-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	0.53		0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	1.1		0.039	0.0084	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.26		0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.31		0.039	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.65		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.085		0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	1.2		0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.028	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.24		0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.0079	J	0.079	0.0072	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.0081	J	0.039	0.0060	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.54		0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.99		0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.23	J	1.1	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.5		0.54	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	67		0.54	0.062	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.44		0.22	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.36	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	19		0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.4		0.27	0.071	mg/Kg	1	☼	6010B	Total/NA
Copper	25	B	0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	17000	B	54	28	mg/Kg	5	☼	6010B	Total/NA
Lead	41		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	69000		27	13	mg/Kg	5	☼	6010B	Total/NA
Calcium	120000		54	9.2	mg/Kg	5	☼	6010B	Total/NA
Manganese	410	B	0.54	0.079	mg/Kg	1	☼	6010B	Total/NA
Nickel	15		0.54	0.16	mg/Kg	1	☼	6010B	Total/NA
Silver	0.13	J	0.27	0.070	mg/Kg	1	☼	6010B	Total/NA
Vanadium	17		0.27	0.064	mg/Kg	1	☼	6010B	Total/NA
Zinc	86		1.1	0.48	mg/Kg	1	☼	6010B	Total/NA
Potassium	1200		27	9.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	280		54	8.0	mg/Kg	1	☼	6010B	Total/NA
Barium	0.63		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0041	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	350		5.0	0.50	mg/L	1		6010B	TCLP
Chromium	0.022	J B	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.21	J	0.40	0.20	mg/L	1		6010B	TCLP
Magnesium	170		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.13		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.1	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.087	J B	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.021	B	0.019	0.0063	mg/Kg	1	☼	7471B	Total/NA
pH	8.5		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2947V-10-B10 (0-5)

Lab Sample ID: 500-153234-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.015	J	0.037	0.0068	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.015	J	0.037	0.0050	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.039		0.037	0.0063	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B10 (0-5) (Continued)

Lab Sample ID: 500-153234-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.24		0.037	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.27		0.037	0.0073	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.51		0.037	0.0081	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.13		0.037	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.19		0.037	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.31		0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.045		0.037	0.0073	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.51		0.037	0.0070	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0095	J	0.037	0.0053	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.13		0.037	0.0097	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.19		0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.45		0.037	0.0075	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.42	J	1.1	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.7		0.54	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	54		0.54	0.062	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.44		0.22	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.28	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	12		0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.8		0.27	0.071	mg/Kg	1	☼	6010B	Total/NA
Copper	24	B	0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	14000	B	11	5.6	mg/Kg	1	☼	6010B	Total/NA
Lead	54		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	53000		5.4	2.7	mg/Kg	1	☼	6010B	Total/NA
Calcium	110000		54	9.2	mg/Kg	5	☼	6010B	Total/NA
Manganese	370	B	0.54	0.079	mg/Kg	1	☼	6010B	Total/NA
Nickel	14		0.54	0.16	mg/Kg	1	☼	6010B	Total/NA
Silver	0.12	J	0.27	0.070	mg/Kg	1	☼	6010B	Total/NA
Vanadium	17		0.27	0.064	mg/Kg	1	☼	6010B	Total/NA
Zinc	71		1.1	0.48	mg/Kg	1	☼	6010B	Total/NA
Potassium	1400		27	9.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	350		54	8.0	mg/Kg	1	☼	6010B	Total/NA
Barium	0.54		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0035	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	340		5.0	0.50	mg/L	1		6010B	TCLP
Chromium	0.021	J B	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.22	J	0.40	0.20	mg/L	1		6010B	TCLP
Magnesium	170		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.094		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.90	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.35	J B	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.012	J B	0.016	0.0055	mg/Kg	1	☼	7471B	Total/NA
pH	8.8		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2947V-10-B09 (0-5)

Lab Sample ID: 500-153234-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.024	J	0.037	0.0068	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.019	J	0.037	0.0050	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.099		0.037	0.0063	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.57		0.037	0.0051	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B09 (0-5) (Continued)

Lab Sample ID: 500-153234-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	0.53		0.037	0.0073	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.92		0.037	0.0081	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.28		0.037	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.62		0.037	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.67		0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.073		0.037	0.0073	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	1.3		0.037	0.0070	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.023	J	0.037	0.0053	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.26		0.037	0.0098	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.0091	J	0.076	0.0069	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.0094	J	0.037	0.0058	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.50		0.037	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	1.1		0.037	0.0075	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate - DL	4.6		0.38	0.14	mg/Kg	2	☼	8270D	Total/NA
Antimony	0.55	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.6		0.57	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	130		0.57	0.065	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.44		0.23	0.053	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.45	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	25		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.6		0.28	0.074	mg/Kg	1	☼	6010B	Total/NA
Copper	28	B	0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	17000	B	57	30	mg/Kg	5	☼	6010B	Total/NA
Lead	33		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	79000		28	14	mg/Kg	5	☼	6010B	Total/NA
Calcium	140000		57	9.6	mg/Kg	5	☼	6010B	Total/NA
Manganese	620	B	0.57	0.082	mg/Kg	1	☼	6010B	Total/NA
Nickel	16		0.57	0.17	mg/Kg	1	☼	6010B	Total/NA
Silver	0.20	J	0.28	0.073	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.28	0.067	mg/Kg	1	☼	6010B	Total/NA
Zinc	120		1.1	0.50	mg/Kg	1	☼	6010B	Total/NA
Potassium	1100		28	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	1000		57	8.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.47	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0045	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	340		5.0	0.50	mg/L	1		6010B	TCLP
Chromium	0.022	J B	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	160		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.85		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.016	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.91	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.14	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.89		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.018	B	0.018	0.0060	mg/Kg	1	☼	7471B	Total/NA
pH	8.8		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2947V-10-B08 (0-5)

Lab Sample ID: 500-153234-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.017	J	0.037	0.0049	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B08 (0-5) (Continued)

Lab Sample ID: 500-153234-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Anthracene	0.016	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	0.088		0.037	0.0072	mg/Kg	1	☼	8270D	Total/NA	
Benzo[b]fluoranthene	0.12		0.037	0.0081	mg/Kg	1	☼	8270D	Total/NA	
Benzo[g,h,i]perylene	0.061		0.037	0.012	mg/Kg	1	☼	8270D	Total/NA	
Benzo[k]fluoranthene	0.064		0.037	0.011	mg/Kg	1	☼	8270D	Total/NA	
Chrysene	0.094		0.037	0.010	mg/Kg	1	☼	8270D	Total/NA	
Dibenz(a,h)anthracene	0.030	J	0.037	0.0072	mg/Kg	1	☼	8270D	Total/NA	
Fluoranthene	0.15		0.037	0.0069	mg/Kg	1	☼	8270D	Total/NA	
Indeno[1,2,3-cd]pyrene	0.067		0.037	0.0097	mg/Kg	1	☼	8270D	Total/NA	
Phenanthrene	0.061		0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA	
Pyrene	0.13		0.037	0.0074	mg/Kg	1	☼	8270D	Total/NA	
Antimony	0.50	J	1.2	0.22	mg/Kg	1	☼	6010B	Total/NA	
Arsenic	11		0.58	0.20	mg/Kg	1	☼	6010B	Total/NA	
Barium	85		0.58	0.066	mg/Kg	1	☼	6010B	Total/NA	
Beryllium	0.71		0.23	0.054	mg/Kg	1	☼	6010B	Total/NA	
Cadmium	0.53	B	0.12	0.021	mg/Kg	1	☼	6010B	Total/NA	
Chromium	14		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA	
Cobalt	7.5		0.29	0.076	mg/Kg	1	☼	6010B	Total/NA	
Copper	22	B	0.58	0.16	mg/Kg	1	☼	6010B	Total/NA	
Iron	19000	B	12	6.0	mg/Kg	1	☼	6010B	Total/NA	
Lead	110		0.29	0.13	mg/Kg	1	☼	6010B	Total/NA	
Magnesium	41000		5.8	2.9	mg/Kg	1	☼	6010B	Total/NA	
Calcium	91000		58	9.8	mg/Kg	5	☼	6010B	Total/NA	
Manganese	440	B	0.58	0.084	mg/Kg	1	☼	6010B	Total/NA	
Nickel	19		0.58	0.17	mg/Kg	1	☼	6010B	Total/NA	
Silver	0.15	J	0.29	0.074	mg/Kg	1	☼	6010B	Total/NA	
Vanadium	20		0.29	0.068	mg/Kg	1	☼	6010B	Total/NA	
Zinc	88		1.2	0.51	mg/Kg	1	☼	6010B	Total/NA	
Potassium	1600		29	10	mg/Kg	1	☼	6010B	Total/NA	
Sodium	990		58	8.5	mg/Kg	1	☼	6010B	Total/NA	
Barium	0.57		0.50	0.050	mg/L	1		6010B	TCLP	
Cadmium	0.0045	J	0.0050	0.0020	mg/L	1		6010B	TCLP	
Calcium	320		5.0	0.50	mg/L	1		6010B	TCLP	
Chromium	0.022	J B	0.025	0.010	mg/L	1		6010B	TCLP	
Copper	0.010	J ^	0.025	0.010	mg/L	1		6010B	TCLP	
Magnesium	170		2.5	0.50	mg/L	1		6010B	TCLP	
Manganese	0.18		0.025	0.010	mg/L	1		6010B	TCLP	
Potassium	0.58	J	2.5	0.50	mg/L	1		6010B	TCLP	
Zinc	0.31	J B	0.50	0.020	mg/L	1		6010B	TCLP	
Manganese	1.2		0.025	0.010	mg/L	1		6010B	SPLP East	
Mercury	0.028	B	0.017	0.0057	mg/Kg	1	☼	7471B	Total/NA	
pH	8.9		0.2	0.2	SU	1		9045D	Total/NA	

Client Sample ID: 2947V-10-B07 (0-5)

Lab Sample ID: 500-153234-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acenaphthene	0.015	J	0.037	0.0067	mg/Kg	1	☼	8270D	Total/NA	
Acenaphthylene	0.018	J	0.037	0.0049	mg/Kg	1	☼	8270D	Total/NA	
Anthracene	0.063		0.037	0.0062	mg/Kg	1	☼	8270D	Total/NA	

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B07 (0-5) (Continued)

Lab Sample ID: 500-153234-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Benzo[a]anthracene	0.27		0.037	0.0050	mg/Kg	1	☼	8270D	Total/NA	
Benzo[a]pyrene	0.32		0.037	0.0072	mg/Kg	1	☼	8270D	Total/NA	
Benzo[b]fluoranthene	0.73		0.037	0.0080	mg/Kg	1	☼	8270D	Total/NA	
Benzo[g,h,i]perylene	0.16		0.037	0.012	mg/Kg	1	☼	8270D	Total/NA	
Benzo[k]fluoranthene	0.26		0.037	0.011	mg/Kg	1	☼	8270D	Total/NA	
Bis(2-ethylhexyl) phthalate	0.10	J	0.19	0.068	mg/Kg	1	☼	8270D	Total/NA	
Butyl benzyl phthalate	0.11	J	0.19	0.071	mg/Kg	1	☼	8270D	Total/NA	
Chrysene	0.34		0.037	0.010	mg/Kg	1	☼	8270D	Total/NA	
Dibenz(a,h)anthracene	0.039		0.037	0.0072	mg/Kg	1	☼	8270D	Total/NA	
Fluoranthene	0.70		0.037	0.0069	mg/Kg	1	☼	8270D	Total/NA	
Fluorene	0.016	J	0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA	
Indeno[1,2,3-cd]pyrene	0.14		0.037	0.0097	mg/Kg	1	☼	8270D	Total/NA	
2-Methylnaphthalene	0.012	J	0.075	0.0069	mg/Kg	1	☼	8270D	Total/NA	
Naphthalene	0.0087	J	0.037	0.0057	mg/Kg	1	☼	8270D	Total/NA	
Phenanthrene	0.28		0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA	
Pyrene	0.57		0.037	0.0074	mg/Kg	1	☼	8270D	Total/NA	
Antimony	0.49	J	1.1	0.21	mg/Kg	1	☼	6010B	Total/NA	
Arsenic	6.9		0.54	0.19	mg/Kg	1	☼	6010B	Total/NA	
Barium	95		0.54	0.062	mg/Kg	1	☼	6010B	Total/NA	
Beryllium	0.52		0.22	0.051	mg/Kg	1	☼	6010B	Total/NA	
Cadmium	0.54	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA	
Chromium	18		0.54	0.27	mg/Kg	1	☼	6010B	Total/NA	
Cobalt	6.9		0.27	0.071	mg/Kg	1	☼	6010B	Total/NA	
Copper	25	B	0.54	0.15	mg/Kg	1	☼	6010B	Total/NA	
Iron	14000	B	11	5.6	mg/Kg	1	☼	6010B	Total/NA	
Lead	130		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA	
Magnesium	48000		5.4	2.7	mg/Kg	1	☼	6010B	Total/NA	
Calcium	110000		54	9.2	mg/Kg	5	☼	6010B	Total/NA	
Manganese	510	B	0.54	0.079	mg/Kg	1	☼	6010B	Total/NA	
Nickel	19		0.54	0.16	mg/Kg	1	☼	6010B	Total/NA	
Silver	0.14	J	0.27	0.070	mg/Kg	1	☼	6010B	Total/NA	
Vanadium	19		0.27	0.064	mg/Kg	1	☼	6010B	Total/NA	
Zinc	110		1.1	0.48	mg/Kg	1	☼	6010B	Total/NA	
Potassium	1300		27	9.6	mg/Kg	1	☼	6010B	Total/NA	
Sodium	700		54	8.0	mg/Kg	1	☼	6010B	Total/NA	
Barium	0.61		0.50	0.050	mg/L	1		6010B	TCLP	
Cadmium	0.0050		0.0050	0.0020	mg/L	1		6010B	TCLP	
Calcium	350		5.0	0.50	mg/L	1		6010B	TCLP	
Chromium	0.023	J B	0.025	0.010	mg/L	1		6010B	TCLP	
Iron	0.24	J	0.40	0.20	mg/L	1		6010B	TCLP	
Magnesium	170		2.5	0.50	mg/L	1		6010B	TCLP	
Manganese	0.35		0.025	0.010	mg/L	1		6010B	TCLP	
Potassium	0.83	J	2.5	0.50	mg/L	1		6010B	TCLP	
Zinc	0.070	J B	0.50	0.020	mg/L	1		6010B	TCLP	
Manganese	0.66		0.025	0.010	mg/L	1		6010B	SPLP East	
Mercury	0.023	B	0.018	0.0061	mg/Kg	1	☼	7471B	Total/NA	
pH	9.0		0.2	0.2	SU	1		9045D	Total/NA	

Client Sample ID: 2947V-10-B06 (0-5)

Lab Sample ID: 500-153234-16

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B06 (0-5) (Continued)

Lab Sample ID: 500-153234-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.014	J	0.039	0.0070	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.021	J	0.039	0.0051	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.045		0.039	0.0065	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.18		0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.22		0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.38		0.039	0.0084	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.12		0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.14		0.039	0.012	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.092	J	0.20	0.071	mg/Kg	1	☼	8270D	Total/NA
Butyl benzyl phthalate	0.97		0.20	0.074	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.24		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.024	J	0.039	0.0075	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.44		0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.016	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.10		0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.022	J	0.079	0.0072	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.012	J	0.039	0.0060	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.25		0.039	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.43		0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.31	J	1.2	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.7		0.58	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	84		0.58	0.066	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.64		0.23	0.054	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.51	B	0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.1		0.29	0.076	mg/Kg	1	☼	6010B	Total/NA
Copper	28	B	0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	19000	B	12	6.0	mg/Kg	1	☼	6010B	Total/NA
Lead	130		0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	29000		5.8	2.9	mg/Kg	1	☼	6010B	Total/NA
Calcium	62000		58	9.8	mg/Kg	5	☼	6010B	Total/NA
Manganese	480	B	0.58	0.084	mg/Kg	1	☼	6010B	Total/NA
Nickel	24		0.58	0.17	mg/Kg	1	☼	6010B	Total/NA
Silver	0.21	J	0.29	0.074	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.29	0.068	mg/Kg	1	☼	6010B	Total/NA
Zinc	110		1.2	0.51	mg/Kg	1	☼	6010B	Total/NA
Potassium	1600		29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	660		58	8.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.72		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0043	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	320		5.0	0.50	mg/L	1		6010B	TCLP
Chromium	0.023	J B	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.28	J	0.40	0.20	mg/L	1		6010B	TCLP
Magnesium	170		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.099		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.83	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.35	J B	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.026	B	0.019	0.0063	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.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B05 (0-5)

Lab Sample ID: 500-153234-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acenaphthylene	0.0056	J	0.040	0.0053	mg/Kg	1	☼	8270D	Total/NA	
Benzo[a]anthracene	0.042		0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA	
Benzo[a]pyrene	0.053		0.040	0.0078	mg/Kg	1	☼	8270D	Total/NA	
Benzo[b]fluoranthene	0.064		0.040	0.0087	mg/Kg	1	☼	8270D	Total/NA	
Benzo[g,h,i]perylene	0.033	J	0.040	0.013	mg/Kg	1	☼	8270D	Total/NA	
Benzo[k]fluoranthene	0.017	J	0.040	0.012	mg/Kg	1	☼	8270D	Total/NA	
Chrysene	0.047		0.040	0.011	mg/Kg	1	☼	8270D	Total/NA	
Dibenz(a,h)anthracene	0.026	J	0.040	0.0078	mg/Kg	1	☼	8270D	Total/NA	
Fluoranthene	0.058		0.040	0.0075	mg/Kg	1	☼	8270D	Total/NA	
Indeno[1,2,3-cd]pyrene	0.043		0.040	0.010	mg/Kg	1	☼	8270D	Total/NA	
Phenanthrene	0.016	J	0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA	
Pyrene	0.054		0.040	0.0080	mg/Kg	1	☼	8270D	Total/NA	
Antimony	0.40	J	1.2	0.23	mg/Kg	1	☼	6010B	Total/NA	
Arsenic	12		0.59	0.20	mg/Kg	1	☼	6010B	Total/NA	
Barium	75		0.59	0.067	mg/Kg	1	☼	6010B	Total/NA	
Beryllium	0.69		0.23	0.055	mg/Kg	1	☼	6010B	Total/NA	
Cadmium	0.38	B	0.12	0.021	mg/Kg	1	☼	6010B	Total/NA	
Chromium	18		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA	
Cobalt	12		0.29	0.077	mg/Kg	1	☼	6010B	Total/NA	
Copper	25	B	0.59	0.16	mg/Kg	1	☼	6010B	Total/NA	
Iron	23000	B	12	6.1	mg/Kg	1	☼	6010B	Total/NA	
Lead	81		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA	
Magnesium	6000		5.9	2.9	mg/Kg	1	☼	6010B	Total/NA	
Calcium	8000		12	2.0	mg/Kg	1	☼	6010B	Total/NA	
Manganese	590	B	0.59	0.085	mg/Kg	1	☼	6010B	Total/NA	
Nickel	28		0.59	0.17	mg/Kg	1	☼	6010B	Total/NA	
Selenium	0.50	J	0.59	0.34	mg/Kg	1	☼	6010B	Total/NA	
Silver	0.26	J	0.29	0.076	mg/Kg	1	☼	6010B	Total/NA	
Vanadium	28		0.29	0.069	mg/Kg	1	☼	6010B	Total/NA	
Zinc	110		1.2	0.52	mg/Kg	1	☼	6010B	Total/NA	
Potassium	1600		29	10	mg/Kg	1	☼	6010B	Total/NA	
Sodium	1200		59	8.7	mg/Kg	1	☼	6010B	Total/NA	
Barium	0.42	J	0.50	0.050	mg/L	1		6010B	TCLP	
Cadmium	0.0036	J	0.0050	0.0020	mg/L	1		6010B	TCLP	
Calcium	190		5.0	0.50	mg/L	1		6010B	TCLP	
Chromium	0.011	J B	0.025	0.010	mg/L	1		6010B	TCLP	
Magnesium	94		2.5	0.50	mg/L	1		6010B	TCLP	
Manganese	0.21		0.025	0.010	mg/L	1		6010B	TCLP	
Potassium	0.58	J	2.5	0.50	mg/L	1		6010B	TCLP	
Zinc	0.036	J B	0.50	0.020	mg/L	1		6010B	TCLP	
Manganese	2.3		0.025	0.010	mg/L	1		6010B	SPLP East	
Mercury	0.035	B	0.020	0.0066	mg/Kg	1	☼	7471B	Total/NA	
pH	8.4		0.2	0.2	SU	1		9045D	Total/NA	

Client Sample ID: 2947V-10-B04 (0-5)

Lab Sample ID: 500-153234-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Anthracene	0.014	J	0.038	0.0064	mg/Kg	1	☼	8270D	Total/NA	
Benzo[a]anthracene	0.061		0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA	
Benzo[a]pyrene	0.065		0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA	

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B04 (0-5) (Continued)

Lab Sample ID: 500-153234-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	0.10		0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.047		0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.031	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.070		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.028	J	0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.12		0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.055		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.056		0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.098		0.038	0.0077	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.37	J	1.2	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	12		0.60	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	94		0.60	0.069	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.69		0.24	0.056	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.38	B	0.12	0.022	mg/Kg	1	☼	6010B	Total/NA
Chromium	32		0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.30	0.079	mg/Kg	1	☼	6010B	Total/NA
Copper	28	B	0.60	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	22000	B	12	6.3	mg/Kg	1	☼	6010B	Total/NA
Lead	39		0.30	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	8300		6.0	3.0	mg/Kg	1	☼	6010B	Total/NA
Calcium	12000		12	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	590	B	0.60	0.087	mg/Kg	1	☼	6010B	Total/NA
Nickel	28		0.60	0.17	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.47	J	0.60	0.35	mg/Kg	1	☼	6010B	Total/NA
Silver	0.26	J	0.30	0.078	mg/Kg	1	☼	6010B	Total/NA
Vanadium	28		0.30	0.071	mg/Kg	1	☼	6010B	Total/NA
Zinc	120		1.2	0.53	mg/Kg	1	☼	6010B	Total/NA
Potassium	1800		30	11	mg/Kg	1	☼	6010B	Total/NA
Sodium	510		60	8.9	mg/Kg	1	☼	6010B	Total/NA
Barium	0.63		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
Chromium	0.011	J B	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	140		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.12		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.86	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.16	J B	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.051	B	0.019	0.0064	mg/Kg	1	☼	7471B	Total/NA
pH	8.3		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-153234-4	2947V-10-B17 (0-5)	Solid	10/16/18 09:45	10/16/18 16:40
500-153234-5	2947V-10-B16 (0-5)	Solid	10/16/18 10:15	10/16/18 16:40
500-153234-6	2947V-10-B15 (0-5)	Solid	10/16/18 10:35	10/16/18 16:40
500-153234-7	2947V-10-B14 (0-5)	Solid	10/16/18 10:55	10/16/18 16:40
500-153234-8	2947V-10-B13 (0-5)	Solid	10/16/18 11:15	10/16/18 16:40
500-153234-9	2947V-10-B12 (0-5)	Solid	10/16/18 11:35	10/16/18 16:40
500-153234-10	2947V-10-B12 (0-5) Dup	Solid	10/16/18 11:40	10/16/18 16:40
500-153234-11	2947V-10-B11 (0-5)	Solid	10/16/18 12:10	10/16/18 16:40
500-153234-12	2947V-10-B10 (0-5)	Solid	10/16/18 12:40	10/16/18 16:40
500-153234-13	2947V-10-B09 (0-5)	Solid	10/16/18 13:00	10/16/18 16:40
500-153234-14	2947V-10-B08 (0-5)	Solid	10/16/18 13:25	10/16/18 16:40
500-153234-15	2947V-10-B07 (0-5)	Solid	10/16/18 13:55	10/16/18 16:40
500-153234-16	2947V-10-B06 (0-5)	Solid	10/16/18 14:20	10/16/18 16:40
500-153234-17	2947V-10-B05 (0-5)	Solid	10/16/18 14:50	10/16/18 16:40
500-153234-18	2947V-10-B04 (0-5)	Solid	10/16/18 15:20	10/16/18 16:40

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B17 (0-5)

Lab Sample ID: 500-153234-4

Date Collected: 10/16/18 09:45

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 82.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0086		0.020	0.0086	mg/Kg	☼	10/17/18 18:00	10/25/18 05:07	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg	☼	10/17/18 18:00	10/25/18 05:07	1
Bromodichloromethane	<0.00040		0.0020	0.00040	mg/Kg	☼	10/17/18 18:00	10/25/18 05:07	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg	☼	10/17/18 18:00	10/25/18 05:07	1
Bromomethane	<0.0019 *		0.0050	0.0019	mg/Kg	☼	10/17/18 18:00	10/25/18 05:07	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg	☼	10/17/18 18:00	10/25/18 05:07	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg	☼	10/17/18 18:00	10/25/18 05:07	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg	☼	10/17/18 18:00	10/25/18 05:07	1
Chlorobenzene	<0.00073		0.0020	0.00073	mg/Kg	☼	10/17/18 18:00	10/25/18 05:07	1
Chloroethane	<0.0015 *		0.0050	0.0015	mg/Kg	☼	10/17/18 18:00	10/25/18 05:07	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg	☼	10/17/18 18:00	10/25/18 05:07	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg	☼	10/17/18 18:00	10/25/18 05:07	1
cis-1,2-Dichloroethene	<0.00055		0.0020	0.00055	mg/Kg	☼	10/17/18 18:00	10/25/18 05:07	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg	☼	10/17/18 18:00	10/25/18 05:07	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg	☼	10/17/18 18:00	10/25/18 05:07	1
1,1-Dichloroethane	<0.00068		0.0020	0.00068	mg/Kg	☼	10/17/18 18:00	10/25/18 05:07	1
1,2-Dichloroethane	<0.0015		0.0050	0.0015	mg/Kg	☼	10/17/18 18:00	10/25/18 05:07	1
1,1-Dichloroethene	<0.00068		0.0020	0.00068	mg/Kg	☼	10/17/18 18:00	10/25/18 05:07	1
1,2-Dichloropropane	<0.00051		0.0020	0.00051	mg/Kg	☼	10/17/18 18:00	10/25/18 05:07	1
1,3-Dichloropropane, Total	<0.00070		0.0020	0.00070	mg/Kg	☼	10/17/18 18:00	10/25/18 05:07	1
Ethylbenzene	<0.00095		0.0020	0.00095	mg/Kg	☼	10/17/18 18:00	10/25/18 05:07	1
2-Hexanone	<0.0015		0.0050	0.0015	mg/Kg	☼	10/17/18 18:00	10/25/18 05:07	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg	☼	10/17/18 18:00	10/25/18 05:07	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg	☼	10/17/18 18:00	10/25/18 05:07	1
Methyl tert-butyl ether	<0.00058		0.0020	0.00058	mg/Kg	☼	10/17/18 18:00	10/25/18 05:07	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg	☼	10/17/18 18:00	10/25/18 05:07	1
1,1,2,2-Tetrachloroethane	<0.00063		0.0020	0.00063	mg/Kg	☼	10/17/18 18:00	10/25/18 05:07	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg	☼	10/17/18 18:00	10/25/18 05:07	1
Toluene	<0.00050		0.0020	0.00050	mg/Kg	☼	10/17/18 18:00	10/25/18 05:07	1
trans-1,2-Dichloroethene	<0.00088		0.0020	0.00088	mg/Kg	☼	10/17/18 18:00	10/25/18 05:07	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg	☼	10/17/18 18:00	10/25/18 05:07	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg	☼	10/17/18 18:00	10/25/18 05:07	1
1,1,2-Trichloroethane	<0.00085		0.0020	0.00085	mg/Kg	☼	10/17/18 18:00	10/25/18 05:07	1
Trichloroethene	<0.00067		0.0020	0.00067	mg/Kg	☼	10/17/18 18:00	10/25/18 05:07	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg	☼	10/17/18 18:00	10/25/18 05:07	1
Vinyl chloride	<0.00088		0.0020	0.00088	mg/Kg	☼	10/17/18 18:00	10/25/18 05:07	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg	☼	10/17/18 18:00	10/25/18 05:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		75 - 131	10/17/18 18:00	10/25/18 05:07	1
Dibromofluoromethane	96		75 - 126	10/17/18 18:00	10/25/18 05:07	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	10/17/18 18:00	10/25/18 05:07	1
Toluene-d8 (Surr)	94		75 - 124	10/17/18 18:00	10/25/18 05:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.48		0.038	0.0069	mg/Kg	☼	10/20/18 01:56	10/23/18 18:13	1
Acenaphthylene	0.078		0.038	0.0051	mg/Kg	☼	10/20/18 01:56	10/23/18 18:13	1
Anthracene	1.3		0.038	0.0064	mg/Kg	☼	10/20/18 01:56	10/23/18 18:13	1
Benzo[a]anthracene	2.6		0.038	0.0052	mg/Kg	☼	10/20/18 01:56	10/23/18 18:13	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B17 (0-5)

Lab Sample ID: 500-153234-4

Date Collected: 10/16/18 09:45

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 82.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	1.8		0.038	0.0074	mg/Kg	☼	10/20/18 01:56	10/23/18 18:13	1
Benzo[g,h,i]perylene	0.93		0.038	0.012	mg/Kg	☼	10/20/18 01:56	10/23/18 18:13	1
Benzo[k]fluoranthene	0.93		0.038	0.011	mg/Kg	☼	10/20/18 01:56	10/23/18 18:13	1
Bis(2-chloroethoxy)methane	<0.039		0.19	0.039	mg/Kg	☼	10/20/18 01:56	10/23/18 18:13	1
Bis(2-chloroethyl)ether	<0.058		0.19	0.058	mg/Kg	☼	10/20/18 01:56	10/23/18 18:13	1
Bis(2-ethylhexyl) phthalate	<0.070		0.19	0.070	mg/Kg	☼	10/20/18 01:56	10/23/18 18:13	1
4-Bromophenyl phenyl ether	<0.051		0.19	0.051	mg/Kg	☼	10/20/18 01:56	10/23/18 18:13	1
Butyl benzyl phthalate	<0.073		0.19	0.073	mg/Kg	☼	10/20/18 01:56	10/23/18 18:13	1
Carbazole	0.36		0.19	0.096	mg/Kg	☼	10/20/18 01:56	10/23/18 18:13	1
4-Chloroaniline	<0.18		0.77	0.18	mg/Kg	☼	10/20/18 01:56	10/23/18 18:13	1
4-Chloro-3-methylphenol	<0.13		0.38	0.13	mg/Kg	☼	10/20/18 01:56	10/23/18 18:13	1
2-Chloronaphthalene	<0.042		0.19	0.042	mg/Kg	☼	10/20/18 01:56	10/23/18 18:13	1
2-Chlorophenol	<0.065		0.19	0.065	mg/Kg	☼	10/20/18 01:56	10/23/18 18:13	1
4-Chlorophenyl phenyl ether	<0.045		0.19	0.045	mg/Kg	☼	10/20/18 01:56	10/23/18 18:13	1
Chrysene	2.2		0.038	0.010	mg/Kg	☼	10/20/18 01:56	10/23/18 18:13	1
Dibenz(a,h)anthracene	0.21		0.038	0.0074	mg/Kg	☼	10/20/18 01:56	10/23/18 18:13	1
Dibenzofuran	0.26		0.19	0.045	mg/Kg	☼	10/20/18 01:56	10/23/18 18:13	1
1,2-Dichlorobenzene	<0.046		0.19	0.046	mg/Kg	☼	10/20/18 01:56	10/23/18 18:13	1
1,3-Dichlorobenzene	<0.043		0.19	0.043	mg/Kg	☼	10/20/18 01:56	10/23/18 18:13	1
1,4-Dichlorobenzene	<0.049		0.19	0.049	mg/Kg	☼	10/20/18 01:56	10/23/18 18:13	1
3,3'-Dichlorobenzidine	<0.054		0.19	0.054	mg/Kg	☼	10/20/18 01:56	10/23/18 18:13	1
2,4-Dichlorophenol	<0.091		0.38	0.091	mg/Kg	☼	10/20/18 01:56	10/23/18 18:13	1
Diethyl phthalate	<0.065		0.19	0.065	mg/Kg	☼	10/20/18 01:56	10/23/18 18:13	1
2,4-Dimethylphenol	<0.15		0.38	0.15	mg/Kg	☼	10/20/18 01:56	10/23/18 18:13	1
Dimethyl phthalate	<0.050		0.19	0.050	mg/Kg	☼	10/20/18 01:56	10/23/18 18:13	1
Di-n-butyl phthalate	<0.058		0.19	0.058	mg/Kg	☼	10/20/18 01:56	10/23/18 18:13	1
4,6-Dinitro-2-methylphenol	<0.31		0.77	0.31	mg/Kg	☼	10/20/18 01:56	10/23/18 18:13	1
2,4-Dinitrophenol	<0.68		0.77	0.68	mg/Kg	☼	10/20/18 01:56	10/23/18 18:13	1
2,4-Dinitrotoluene	<0.061		0.19	0.061	mg/Kg	☼	10/20/18 01:56	10/23/18 18:13	1
2,6-Dinitrotoluene	<0.075		0.19	0.075	mg/Kg	☼	10/20/18 01:56	10/23/18 18:13	1
Di-n-octyl phthalate	<0.063		0.19	0.063	mg/Kg	☼	10/20/18 01:56	10/23/18 18:13	1
Fluorene	0.45		0.038	0.0054	mg/Kg	☼	10/20/18 01:56	10/23/18 18:13	1
Hexachlorobenzene	<0.0089		0.077	0.0089	mg/Kg	☼	10/20/18 01:56	10/23/18 18:13	1
Hexachlorobutadiene	<0.060		0.19	0.060	mg/Kg	☼	10/20/18 01:56	10/23/18 18:13	1
Hexachlorocyclopentadiene	<0.22		0.77	0.22	mg/Kg	☼	10/20/18 01:56	10/23/18 18:13	1
Hexachloroethane	<0.058		0.19	0.058	mg/Kg	☼	10/20/18 01:56	10/23/18 18:13	1
Indeno[1,2,3-cd]pyrene	0.90		0.038	0.0099	mg/Kg	☼	10/20/18 01:56	10/23/18 18:13	1
Isophorone	<0.043		0.19	0.043	mg/Kg	☼	10/20/18 01:56	10/23/18 18:13	1
2-Methylnaphthalene	0.035 J		0.077	0.0071	mg/Kg	☼	10/20/18 01:56	10/23/18 18:13	1
2-Methylphenol	<0.062		0.19	0.062	mg/Kg	☼	10/20/18 01:56	10/23/18 18:13	1
3 & 4 Methylphenol	<0.064		0.19	0.064	mg/Kg	☼	10/20/18 01:56	10/23/18 18:13	1
Naphthalene	0.017 J		0.038	0.0059	mg/Kg	☼	10/20/18 01:56	10/23/18 18:13	1
2-Nitroaniline	<0.052		0.19	0.052	mg/Kg	☼	10/20/18 01:56	10/23/18 18:13	1
3-Nitroaniline	<0.12		0.38	0.12	mg/Kg	☼	10/20/18 01:56	10/23/18 18:13	1
4-Nitroaniline	<0.16		0.38	0.16	mg/Kg	☼	10/20/18 01:56	10/23/18 18:13	1
Nitrobenzene	<0.0096		0.038	0.0096	mg/Kg	☼	10/20/18 01:56	10/23/18 18:13	1
2-Nitrophenol	<0.091		0.38	0.091	mg/Kg	☼	10/20/18 01:56	10/23/18 18:13	1
4-Nitrophenol	<0.36		0.77	0.36	mg/Kg	☼	10/20/18 01:56	10/23/18 18:13	1
N-Nitrosodi-n-propylamine	<0.047		0.077	0.047	mg/Kg	☼	10/20/18 01:56	10/23/18 18:13	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B17 (0-5)

Lab Sample ID: 500-153234-4

Date Collected: 10/16/18 09:45

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 82.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiphenylamine	<0.045		0.19	0.045	mg/Kg	☼	10/20/18 01:56	10/23/18 18:13	1
2,2'-oxybis[1-chloropropane]	<0.044		0.19	0.044	mg/Kg	☼	10/20/18 01:56	10/23/18 18:13	1
Pentachlorophenol	<0.62		0.77	0.62	mg/Kg	☼	10/20/18 01:56	10/23/18 18:13	1
Phenol	<0.085		0.19	0.085	mg/Kg	☼	10/20/18 01:56	10/23/18 18:13	1
1,2,4-Trichlorobenzene	<0.041		0.19	0.041	mg/Kg	☼	10/20/18 01:56	10/23/18 18:13	1
2,4,5-Trichlorophenol	<0.088		0.38	0.088	mg/Kg	☼	10/20/18 01:56	10/23/18 18:13	1
2,4,6-Trichlorophenol	<0.13		0.38	0.13	mg/Kg	☼	10/20/18 01:56	10/23/18 18:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	88		43 - 145	10/20/18 01:56	10/23/18 18:13	1
2-Fluorophenol	125		31 - 166	10/20/18 01:56	10/23/18 18:13	1
Nitrobenzene-d5	85		37 - 147	10/20/18 01:56	10/23/18 18:13	1
Phenol-d5	114		30 - 153	10/20/18 01:56	10/23/18 18:13	1
Terphenyl-d14	96		42 - 157	10/20/18 01:56	10/23/18 18:13	1
2,4,6-Tribromophenol	87		31 - 143	10/20/18 01:56	10/23/18 18:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	4.5		0.19	0.041	mg/Kg	☼	10/20/18 01:56	10/29/18 19:20	5
Fluoranthene	6.6		0.19	0.036	mg/Kg	☼	10/20/18 01:56	10/29/18 19:20	5
Phenanthrene	5.5		0.19	0.027	mg/Kg	☼	10/20/18 01:56	10/29/18 19:20	5
Pyrene	7.9		0.19	0.038	mg/Kg	☼	10/20/18 01:56	10/29/18 19:20	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.44	J	1.1	0.22	mg/Kg	☼	10/23/18 08:25	10/24/18 01:12	1
Arsenic	9.6		0.55	0.19	mg/Kg	☼	10/23/18 08:25	10/24/18 01:12	1
Barium	96		0.55	0.063	mg/Kg	☼	10/23/18 08:25	10/24/18 01:12	1
Beryllium	0.76		0.22	0.052	mg/Kg	☼	10/23/18 08:25	10/24/18 01:12	1
Cadmium	0.43	B	0.11	0.020	mg/Kg	☼	10/23/18 08:25	10/24/18 01:12	1
Chromium	15		0.55	0.27	mg/Kg	☼	10/23/18 08:25	10/24/18 01:12	1
Cobalt	9.9		0.28	0.073	mg/Kg	☼	10/23/18 08:25	10/24/18 01:12	1
Copper	20	B	0.55	0.16	mg/Kg	☼	10/23/18 08:25	10/24/18 01:12	1
Iron	20000	B	11	5.8	mg/Kg	☼	10/23/18 08:25	10/24/18 01:12	1
Lead	59		0.28	0.13	mg/Kg	☼	10/23/18 08:25	10/24/18 01:12	1
Magnesium	6600		5.5	2.8	mg/Kg	☼	10/23/18 08:25	10/24/18 01:12	1
Calcium	10000		11	1.9	mg/Kg	☼	10/23/18 08:25	10/24/18 01:12	1
Manganese	520	B	0.55	0.080	mg/Kg	☼	10/23/18 08:25	10/24/18 01:12	1
Nickel	22		0.55	0.16	mg/Kg	☼	10/23/18 08:25	10/24/18 01:12	1
Selenium	0.35	J	0.55	0.33	mg/Kg	☼	10/23/18 08:25	10/24/18 01:12	1
Silver	0.30		0.28	0.072	mg/Kg	☼	10/23/18 08:25	10/24/18 01:12	1
Thallium	<0.28		0.55	0.28	mg/Kg	☼	10/23/18 08:25	10/24/18 01:12	1
Vanadium	25		0.28	0.065	mg/Kg	☼	10/23/18 08:25	10/24/18 01:12	1
Zinc	130		1.1	0.49	mg/Kg	☼	10/23/18 08:25	10/24/18 01:12	1
Potassium	1500		28	9.8	mg/Kg	☼	10/23/18 08:25	10/24/18 01:12	1
Sodium	800		55	8.2	mg/Kg	☼	10/23/18 08:25	10/24/18 01:12	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	☼	10/24/18 09:14	10/24/18 23:24	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B17 (0-5)

Lab Sample ID: 500-153234-4

Date Collected: 10/16/18 09:45

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 82.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.58		0.50	0.050	mg/L		10/24/18 09:14	10/24/18 23:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/24/18 09:14	10/24/18 23:24	1
Cadmium	0.0038	J	0.0050	0.0020	mg/L		10/24/18 09:14	10/24/18 23:24	1
Calcium	220		5.0	0.50	mg/L		10/24/18 09:14	10/24/18 23:24	1
Chromium	0.011	J B	0.025	0.010	mg/L		10/24/18 09:14	10/24/18 23:24	1
Cobalt	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/24/18 23:24	1
Copper	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/25/18 10:43	1
Iron	0.46		0.40	0.20	mg/L		10/24/18 09:14	10/24/18 23:24	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/24/18 09:14	10/24/18 23:24	1
Magnesium	100		2.5	0.50	mg/L		10/24/18 09:14	10/24/18 23:24	1
Manganese	0.82		0.025	0.010	mg/L		10/24/18 09:14	10/24/18 23:24	1
Nickel	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/24/18 23:24	1
Potassium	4.0		2.5	0.50	mg/L		10/24/18 09:14	10/24/18 23:24	1
Selenium	<0.020		0.050	0.020	mg/L		10/24/18 09:14	10/24/18 23:24	1
Silver	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/24/18 23:24	1
Vanadium	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/24/18 23:24	1
Zinc	0.90	B	0.50	0.020	mg/L		10/24/18 09:14	10/24/18 23:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.0		0.025	0.010	mg/L		10/24/18 15:28	10/25/18 11:36	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		10/24/18 09:14	10/25/18 13:13	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/24/18 09:14	10/25/18 05:04	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		10/24/18 11:25	10/25/18 08:15	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11	B	0.019	0.0063	mg/Kg	☼	10/23/18 15:50	10/24/18 08:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.20		0.59	0.20	mg/Kg	☼	10/25/18 13:30	10/25/18 18:44	1
pH	7.9		0.2	0.2	SU			10/23/18 14:12	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B16 (0-5)

Lab Sample ID: 500-153234-5

Date Collected: 10/16/18 10:15

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0072		0.016	0.0072	mg/Kg	☼	10/17/18 18:00	10/25/18 05:32	1
Benzene	<0.00042		0.0016	0.00042	mg/Kg	☼	10/17/18 18:00	10/25/18 05:32	1
Bromodichloromethane	<0.00033		0.0016	0.00033	mg/Kg	☼	10/17/18 18:00	10/25/18 05:32	1
Bromoform	<0.00048		0.0016	0.00048	mg/Kg	☼	10/17/18 18:00	10/25/18 05:32	1
Bromomethane	<0.0016	*	0.0041	0.0016	mg/Kg	☼	10/17/18 18:00	10/25/18 05:32	1
2-Butanone (MEK)	<0.0018		0.0041	0.0018	mg/Kg	☼	10/17/18 18:00	10/25/18 05:32	1
Carbon disulfide	<0.00086		0.0041	0.00086	mg/Kg	☼	10/17/18 18:00	10/25/18 05:32	1
Carbon tetrachloride	<0.00048		0.0016	0.00048	mg/Kg	☼	10/17/18 18:00	10/25/18 05:32	1
Chlorobenzene	<0.00061		0.0016	0.00061	mg/Kg	☼	10/17/18 18:00	10/25/18 05:32	1
Chloroethane	<0.0012	*	0.0041	0.0012	mg/Kg	☼	10/17/18 18:00	10/25/18 05:32	1
Chloroform	<0.00057		0.0016	0.00057	mg/Kg	☼	10/17/18 18:00	10/25/18 05:32	1
Chloromethane	<0.0017		0.0041	0.0017	mg/Kg	☼	10/17/18 18:00	10/25/18 05:32	1
cis-1,2-Dichloroethene	<0.00046		0.0016	0.00046	mg/Kg	☼	10/17/18 18:00	10/25/18 05:32	1
cis-1,3-Dichloropropene	<0.00050		0.0016	0.00050	mg/Kg	☼	10/17/18 18:00	10/25/18 05:32	1
Dibromochloromethane	<0.00054		0.0016	0.00054	mg/Kg	☼	10/17/18 18:00	10/25/18 05:32	1
1,1-Dichloroethane	<0.00056		0.0016	0.00056	mg/Kg	☼	10/17/18 18:00	10/25/18 05:32	1
1,2-Dichloroethane	<0.0013		0.0041	0.0013	mg/Kg	☼	10/17/18 18:00	10/25/18 05:32	1
1,1-Dichloroethene	<0.00057		0.0016	0.00057	mg/Kg	☼	10/17/18 18:00	10/25/18 05:32	1
1,2-Dichloropropane	<0.00043		0.0016	0.00043	mg/Kg	☼	10/17/18 18:00	10/25/18 05:32	1
1,3-Dichloropropane, Total	<0.00058		0.0016	0.00058	mg/Kg	☼	10/17/18 18:00	10/25/18 05:32	1
Ethylbenzene	<0.00079		0.0016	0.00079	mg/Kg	☼	10/17/18 18:00	10/25/18 05:32	1
2-Hexanone	<0.0013		0.0041	0.0013	mg/Kg	☼	10/17/18 18:00	10/25/18 05:32	1
Methylene Chloride	<0.0016		0.0041	0.0016	mg/Kg	☼	10/17/18 18:00	10/25/18 05:32	1
4-Methyl-2-pentanone (MIBK)	<0.0012		0.0041	0.0012	mg/Kg	☼	10/17/18 18:00	10/25/18 05:32	1
Methyl tert-butyl ether	<0.00048		0.0016	0.00048	mg/Kg	☼	10/17/18 18:00	10/25/18 05:32	1
Styrene	<0.00050		0.0016	0.00050	mg/Kg	☼	10/17/18 18:00	10/25/18 05:32	1
1,1,2,2-Tetrachloroethane	<0.00053		0.0016	0.00053	mg/Kg	☼	10/17/18 18:00	10/25/18 05:32	1
Tetrachloroethene	<0.00056		0.0016	0.00056	mg/Kg	☼	10/17/18 18:00	10/25/18 05:32	1
Toluene	<0.00042		0.0016	0.00042	mg/Kg	☼	10/17/18 18:00	10/25/18 05:32	1
trans-1,2-Dichloroethene	<0.00073		0.0016	0.00073	mg/Kg	☼	10/17/18 18:00	10/25/18 05:32	1
trans-1,3-Dichloropropene	<0.00058		0.0016	0.00058	mg/Kg	☼	10/17/18 18:00	10/25/18 05:32	1
1,1,1-Trichloroethane	<0.00055		0.0016	0.00055	mg/Kg	☼	10/17/18 18:00	10/25/18 05:32	1
1,1,2-Trichloroethane	<0.00071		0.0016	0.00071	mg/Kg	☼	10/17/18 18:00	10/25/18 05:32	1
Trichloroethene	<0.00056		0.0016	0.00056	mg/Kg	☼	10/17/18 18:00	10/25/18 05:32	1
Vinyl acetate	<0.0014		0.0041	0.0014	mg/Kg	☼	10/17/18 18:00	10/25/18 05:32	1
Vinyl chloride	<0.00073		0.0016	0.00073	mg/Kg	☼	10/17/18 18:00	10/25/18 05:32	1
Xylenes, Total	<0.00053		0.0033	0.00053	mg/Kg	☼	10/17/18 18:00	10/25/18 05:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		75 - 131	10/17/18 18:00	10/25/18 05:32	1
Dibromofluoromethane	97		75 - 126	10/17/18 18:00	10/25/18 05:32	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	10/17/18 18:00	10/25/18 05:32	1
Toluene-d8 (Surr)	92		75 - 124	10/17/18 18:00	10/25/18 05:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0070		0.039	0.0070	mg/Kg	☼	10/20/18 01:56	10/23/18 18:40	1
Acenaphthylene	<0.0051		0.039	0.0051	mg/Kg	☼	10/20/18 01:56	10/23/18 18:40	1
Anthracene	<0.0065		0.039	0.0065	mg/Kg	☼	10/20/18 01:56	10/23/18 18:40	1
Benzo[a]anthracene	0.0082	J	0.039	0.0053	mg/Kg	☼	10/20/18 01:56	10/23/18 18:40	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B16 (0-5)

Lab Sample ID: 500-153234-5

Date Collected: 10/16/18 10:15

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.024	J	0.039	0.0076	mg/Kg	☼	10/20/18 01:56	10/23/18 18:40	1
Benzo[b]fluoranthene	0.012	J	0.039	0.0084	mg/Kg	☼	10/20/18 01:56	10/23/18 18:40	1
Benzo[g,h,i]perylene	<0.013		0.039	0.013	mg/Kg	☼	10/20/18 01:56	10/23/18 18:40	1
Benzo[k]fluoranthene	<0.011		0.039	0.011	mg/Kg	☼	10/20/18 01:56	10/23/18 18:40	1
Bis(2-chloroethoxy)methane	<0.040		0.20	0.040	mg/Kg	☼	10/20/18 01:56	10/23/18 18:40	1
Bis(2-chloroethyl)ether	<0.058		0.20	0.058	mg/Kg	☼	10/20/18 01:56	10/23/18 18:40	1
Bis(2-ethylhexyl) phthalate	<0.071		0.20	0.071	mg/Kg	☼	10/20/18 01:56	10/23/18 18:40	1
4-Bromophenyl phenyl ether	<0.051		0.20	0.051	mg/Kg	☼	10/20/18 01:56	10/23/18 18:40	1
Butyl benzyl phthalate	<0.074		0.20	0.074	mg/Kg	☼	10/20/18 01:56	10/23/18 18:40	1
Carbazole	<0.097		0.20	0.097	mg/Kg	☼	10/20/18 01:56	10/23/18 18:40	1
4-Chloroaniline	<0.18		0.79	0.18	mg/Kg	☼	10/20/18 01:56	10/23/18 18:40	1
4-Chloro-3-methylphenol	<0.13		0.39	0.13	mg/Kg	☼	10/20/18 01:56	10/23/18 18:40	1
2-Chloronaphthalene	<0.043		0.20	0.043	mg/Kg	☼	10/20/18 01:56	10/23/18 18:40	1
2-Chlorophenol	<0.067		0.20	0.067	mg/Kg	☼	10/20/18 01:56	10/23/18 18:40	1
4-Chlorophenyl phenyl ether	<0.046		0.20	0.046	mg/Kg	☼	10/20/18 01:56	10/23/18 18:40	1
Chrysene	<0.011		0.039	0.011	mg/Kg	☼	10/20/18 01:56	10/23/18 18:40	1
Dibenz(a,h)anthracene	<0.0075		0.039	0.0075	mg/Kg	☼	10/20/18 01:56	10/23/18 18:40	1
Dibenzofuran	<0.046		0.20	0.046	mg/Kg	☼	10/20/18 01:56	10/23/18 18:40	1
1,2-Dichlorobenzene	<0.047		0.20	0.047	mg/Kg	☼	10/20/18 01:56	10/23/18 18:40	1
1,3-Dichlorobenzene	<0.044		0.20	0.044	mg/Kg	☼	10/20/18 01:56	10/23/18 18:40	1
1,4-Dichlorobenzene	<0.050		0.20	0.050	mg/Kg	☼	10/20/18 01:56	10/23/18 18:40	1
3,3'-Dichlorobenzidine	<0.055		0.20	0.055	mg/Kg	☼	10/20/18 01:56	10/23/18 18:40	1
2,4-Dichlorophenol	<0.093		0.39	0.093	mg/Kg	☼	10/20/18 01:56	10/23/18 18:40	1
Diethyl phthalate	<0.066		0.20	0.066	mg/Kg	☼	10/20/18 01:56	10/23/18 18:40	1
2,4-Dimethylphenol	<0.15		0.39	0.15	mg/Kg	☼	10/20/18 01:56	10/23/18 18:40	1
Dimethyl phthalate	<0.051		0.20	0.051	mg/Kg	☼	10/20/18 01:56	10/23/18 18:40	1
Di-n-butyl phthalate	<0.059		0.20	0.059	mg/Kg	☼	10/20/18 01:56	10/23/18 18:40	1
4,6-Dinitro-2-methylphenol	<0.31		0.79	0.31	mg/Kg	☼	10/20/18 01:56	10/23/18 18:40	1
2,4-Dinitrophenol	<0.69		0.79	0.69	mg/Kg	☼	10/20/18 01:56	10/23/18 18:40	1
2,4-Dinitrotoluene	<0.062		0.20	0.062	mg/Kg	☼	10/20/18 01:56	10/23/18 18:40	1
2,6-Dinitrotoluene	<0.077		0.20	0.077	mg/Kg	☼	10/20/18 01:56	10/23/18 18:40	1
Di-n-octyl phthalate	<0.064		0.20	0.064	mg/Kg	☼	10/20/18 01:56	10/23/18 18:40	1
Fluoranthene	0.0089	J	0.039	0.0072	mg/Kg	☼	10/20/18 01:56	10/23/18 18:40	1
Fluorene	<0.0055		0.039	0.0055	mg/Kg	☼	10/20/18 01:56	10/23/18 18:40	1
Hexachlorobenzene	<0.0090		0.079	0.0090	mg/Kg	☼	10/20/18 01:56	10/23/18 18:40	1
Hexachlorobutadiene	<0.061		0.20	0.061	mg/Kg	☼	10/20/18 01:56	10/23/18 18:40	1
Hexachlorocyclopentadiene	<0.22		0.79	0.22	mg/Kg	☼	10/20/18 01:56	10/23/18 18:40	1
Hexachloroethane	<0.059		0.20	0.059	mg/Kg	☼	10/20/18 01:56	10/23/18 18:40	1
Indeno[1,2,3-cd]pyrene	0.022	J	0.039	0.010	mg/Kg	☼	10/20/18 01:56	10/23/18 18:40	1
Isophorone	<0.044		0.20	0.044	mg/Kg	☼	10/20/18 01:56	10/23/18 18:40	1
2-Methylnaphthalene	<0.0072		0.079	0.0072	mg/Kg	☼	10/20/18 01:56	10/23/18 18:40	1
2-Methylphenol	<0.063		0.20	0.063	mg/Kg	☼	10/20/18 01:56	10/23/18 18:40	1
3 & 4 Methylphenol	<0.065		0.20	0.065	mg/Kg	☼	10/20/18 01:56	10/23/18 18:40	1
Naphthalene	<0.0060		0.039	0.0060	mg/Kg	☼	10/20/18 01:56	10/23/18 18:40	1
2-Nitroaniline	<0.053		0.20	0.053	mg/Kg	☼	10/20/18 01:56	10/23/18 18:40	1
3-Nitroaniline	<0.12		0.39	0.12	mg/Kg	☼	10/20/18 01:56	10/23/18 18:40	1
4-Nitroaniline	<0.16		0.39	0.16	mg/Kg	☼	10/20/18 01:56	10/23/18 18:40	1
Nitrobenzene	<0.0097		0.039	0.0097	mg/Kg	☼	10/20/18 01:56	10/23/18 18:40	1
2-Nitrophenol	<0.092		0.39	0.092	mg/Kg	☼	10/20/18 01:56	10/23/18 18:40	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B16 (0-5)

Lab Sample ID: 500-153234-5

Date Collected: 10/16/18 10:15

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.37		0.79	0.37	mg/Kg	☼	10/20/18 01:56	10/23/18 18:40	1
N-Nitrosodi-n-propylamine	<0.048		0.079	0.048	mg/Kg	☼	10/20/18 01:56	10/23/18 18:40	1
N-Nitrosodiphenylamine	<0.046		0.20	0.046	mg/Kg	☼	10/20/18 01:56	10/23/18 18:40	1
2,2'-oxybis[1-chloropropane]	<0.045		0.20	0.045	mg/Kg	☼	10/20/18 01:56	10/23/18 18:40	1
Pentachlorophenol	<0.63		0.79	0.63	mg/Kg	☼	10/20/18 01:56	10/23/18 18:40	1
Phenanthrene	<0.0054		0.039	0.0054	mg/Kg	☼	10/20/18 01:56	10/23/18 18:40	1
Phenol	<0.087		0.20	0.087	mg/Kg	☼	10/20/18 01:56	10/23/18 18:40	1
Pyrene	0.0088	J	0.039	0.0078	mg/Kg	☼	10/20/18 01:56	10/23/18 18:40	1
1,2,4-Trichlorobenzene	<0.042		0.20	0.042	mg/Kg	☼	10/20/18 01:56	10/23/18 18:40	1
2,4,5-Trichlorophenol	<0.089		0.39	0.089	mg/Kg	☼	10/20/18 01:56	10/23/18 18:40	1
2,4,6-Trichlorophenol	<0.13		0.39	0.13	mg/Kg	☼	10/20/18 01:56	10/23/18 18:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	94		43 - 145	10/20/18 01:56	10/23/18 18:40	1
2-Fluorophenol	130		31 - 166	10/20/18 01:56	10/23/18 18:40	1
Nitrobenzene-d5	86		37 - 147	10/20/18 01:56	10/23/18 18:40	1
Phenol-d5	123		30 - 153	10/20/18 01:56	10/23/18 18:40	1
Terphenyl-d14	98		42 - 157	10/20/18 01:56	10/23/18 18:40	1
2,4,6-Tribromophenol	43		31 - 143	10/20/18 01:56	10/23/18 18:40	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	☼	10/23/18 08:25	10/24/18 01:16	1
Arsenic	15		0.56	0.19	mg/Kg	☼	10/23/18 08:25	10/24/18 01:16	1
Barium	44		0.56	0.063	mg/Kg	☼	10/23/18 08:25	10/24/18 01:16	1
Beryllium	0.66		0.22	0.052	mg/Kg	☼	10/23/18 08:25	10/24/18 01:16	1
Cadmium	0.16	B	0.11	0.020	mg/Kg	☼	10/23/18 08:25	10/24/18 01:16	1
Chromium	15		0.56	0.28	mg/Kg	☼	10/23/18 08:25	10/24/18 01:16	1
Cobalt	13		0.28	0.073	mg/Kg	☼	10/23/18 08:25	10/24/18 01:16	1
Copper	33	B	0.56	0.16	mg/Kg	☼	10/23/18 08:25	10/24/18 01:16	1
Iron	24000	B	11	5.8	mg/Kg	☼	10/23/18 08:25	10/24/18 01:16	1
Lead	22		0.28	0.13	mg/Kg	☼	10/23/18 08:25	10/24/18 01:16	1
Magnesium	12000		5.6	2.8	mg/Kg	☼	10/23/18 08:25	10/24/18 01:16	1
Calcium	17000		11	1.9	mg/Kg	☼	10/23/18 08:25	10/24/18 01:16	1
Manganese	430	B	0.56	0.081	mg/Kg	☼	10/23/18 08:25	10/24/18 01:16	1
Nickel	31		0.56	0.16	mg/Kg	☼	10/23/18 08:25	10/24/18 01:16	1
Selenium	<0.33		0.56	0.33	mg/Kg	☼	10/23/18 08:25	10/24/18 01:16	1
Silver	0.24	J	0.28	0.072	mg/Kg	☼	10/23/18 08:25	10/24/18 01:16	1
Thallium	<0.28		0.56	0.28	mg/Kg	☼	10/23/18 08:25	10/24/18 01:16	1
Vanadium	25		0.28	0.066	mg/Kg	☼	10/23/18 08:25	10/24/18 01:16	1
Zinc	100		1.1	0.49	mg/Kg	☼	10/23/18 08:25	10/24/18 01:16	1
Potassium	1500		28	9.8	mg/Kg	☼	10/23/18 08:25	10/24/18 01:16	1
Sodium	980		56	8.2	mg/Kg	☼	10/23/18 08:25	10/24/18 01:16	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		10/24/18 09:14	10/24/18 23:28	1
Barium	0.39	J	0.50	0.050	mg/L		10/24/18 09:14	10/24/18 23:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/24/18 09:14	10/24/18 23:28	1
Cadmium	0.0030	J	0.0050	0.0020	mg/L		10/24/18 09:14	10/24/18 23:28	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B16 (0-5)

Lab Sample ID: 500-153234-5

Date Collected: 10/16/18 10:15

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 85.0

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		10/24/18 09:14	10/24/18 23:28	1
Chromium	0.011	J B	0.025	0.010	mg/L		10/24/18 09:14	10/24/18 23:28	1
Cobalt	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/24/18 23:28	1
Copper	<0.010	^	0.025	0.010	mg/L		10/24/18 09:14	10/24/18 23:28	1
Iron	0.29	J	0.40	0.20	mg/L		10/24/18 09:14	10/24/18 23:28	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/24/18 09:14	10/24/18 23:28	1
Magnesium	120		2.5	0.50	mg/L		10/24/18 09:14	10/24/18 23:28	1
Manganese	2.1		0.025	0.010	mg/L		10/24/18 09:14	10/24/18 23:28	1
Nickel	0.010	J	0.025	0.010	mg/L		10/24/18 09:14	10/24/18 23:28	1
Potassium	1.6	J	2.5	0.50	mg/L		10/24/18 09:14	10/24/18 23:28	1
Selenium	<0.020		0.050	0.020	mg/L		10/24/18 09:14	10/24/18 23:28	1
Silver	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/24/18 23:28	1
Vanadium	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/24/18 23:28	1
Zinc	0.065	J B	0.50	0.020	mg/L		10/24/18 09:14	10/24/18 23:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.76		0.025	0.010	mg/L		10/24/18 15:28	10/25/18 11:40	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		10/24/18 09:14	10/25/18 13:14	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/24/18 09:14	10/25/18 05:08	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		10/24/18 11:25	10/25/18 08:17	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.037	B	0.019	0.0064	mg/Kg	☼	10/23/18 15:50	10/24/18 08:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.16		0.47	0.16	mg/Kg	☼	10/25/18 13:30	10/25/18 18:44	1
pH	8.2		0.2	0.2	SU			10/23/18 14:15	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B15 (0-5)

Lab Sample ID: 500-153234-6

Date Collected: 10/16/18 10:35

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 83.0

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	☼	10/17/18 18:00	10/25/18 05:57	1
Benzene	<0.00045		0.0018	0.00045	mg/Kg	☼	10/17/18 18:00	10/25/18 05:57	1
Bromodichloromethane	<0.00036		0.0018	0.00036	mg/Kg	☼	10/17/18 18:00	10/25/18 05:57	1
Bromoform	<0.00052		0.0018	0.00052	mg/Kg	☼	10/17/18 18:00	10/25/18 05:57	1
Bromomethane	<0.0017	*	0.0044	0.0017	mg/Kg	☼	10/17/18 18:00	10/25/18 05:57	1
2-Butanone (MEK)	<0.0020		0.0044	0.0020	mg/Kg	☼	10/17/18 18:00	10/25/18 05:57	1
Carbon disulfide	<0.00092		0.0044	0.00092	mg/Kg	☼	10/17/18 18:00	10/25/18 05:57	1
Carbon tetrachloride	<0.00052		0.0018	0.00052	mg/Kg	☼	10/17/18 18:00	10/25/18 05:57	1
Chlorobenzene	<0.00066		0.0018	0.00066	mg/Kg	☼	10/17/18 18:00	10/25/18 05:57	1
Chloroethane	<0.0013	*	0.0044	0.0013	mg/Kg	☼	10/17/18 18:00	10/25/18 05:57	1
Chloroform	<0.00062		0.0018	0.00062	mg/Kg	☼	10/17/18 18:00	10/25/18 05:57	1
Chloromethane	<0.0018		0.0044	0.0018	mg/Kg	☼	10/17/18 18:00	10/25/18 05:57	1
cis-1,2-Dichloroethene	<0.00050		0.0018	0.00050	mg/Kg	☼	10/17/18 18:00	10/25/18 05:57	1
cis-1,3-Dichloropropene	<0.00054		0.0018	0.00054	mg/Kg	☼	10/17/18 18:00	10/25/18 05:57	1
Dibromochloromethane	<0.00058		0.0018	0.00058	mg/Kg	☼	10/17/18 18:00	10/25/18 05:57	1
1,1-Dichloroethane	<0.00061		0.0018	0.00061	mg/Kg	☼	10/17/18 18:00	10/25/18 05:57	1
1,2-Dichloroethane	<0.0014		0.0044	0.0014	mg/Kg	☼	10/17/18 18:00	10/25/18 05:57	1
1,1-Dichloroethene	<0.00061		0.0018	0.00061	mg/Kg	☼	10/17/18 18:00	10/25/18 05:57	1
1,2-Dichloropropane	<0.00046		0.0018	0.00046	mg/Kg	☼	10/17/18 18:00	10/25/18 05:57	1
1,3-Dichloropropane, Total	<0.00062		0.0018	0.00062	mg/Kg	☼	10/17/18 18:00	10/25/18 05:57	1
Ethylbenzene	<0.00085		0.0018	0.00085	mg/Kg	☼	10/17/18 18:00	10/25/18 05:57	1
2-Hexanone	<0.0014		0.0044	0.0014	mg/Kg	☼	10/17/18 18:00	10/25/18 05:57	1
Methylene Chloride	<0.0018		0.0044	0.0018	mg/Kg	☼	10/17/18 18:00	10/25/18 05:57	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0044	0.0013	mg/Kg	☼	10/17/18 18:00	10/25/18 05:57	1
Methyl tert-butyl ether	<0.00052		0.0018	0.00052	mg/Kg	☼	10/17/18 18:00	10/25/18 05:57	1
Styrene	<0.00054		0.0018	0.00054	mg/Kg	☼	10/17/18 18:00	10/25/18 05:57	1
1,1,2,2-Tetrachloroethane	<0.00057		0.0018	0.00057	mg/Kg	☼	10/17/18 18:00	10/25/18 05:57	1
Tetrachloroethene	<0.00061		0.0018	0.00061	mg/Kg	☼	10/17/18 18:00	10/25/18 05:57	1
Toluene	<0.00045		0.0018	0.00045	mg/Kg	☼	10/17/18 18:00	10/25/18 05:57	1
trans-1,2-Dichloroethene	<0.00079		0.0018	0.00079	mg/Kg	☼	10/17/18 18:00	10/25/18 05:57	1
trans-1,3-Dichloropropene	<0.00062		0.0018	0.00062	mg/Kg	☼	10/17/18 18:00	10/25/18 05:57	1
1,1,1-Trichloroethane	<0.00060		0.0018	0.00060	mg/Kg	☼	10/17/18 18:00	10/25/18 05:57	1
1,1,2-Trichloroethane	<0.00076		0.0018	0.00076	mg/Kg	☼	10/17/18 18:00	10/25/18 05:57	1
Trichloroethene	<0.00060		0.0018	0.00060	mg/Kg	☼	10/17/18 18:00	10/25/18 05:57	1
Vinyl acetate	<0.0015		0.0044	0.0015	mg/Kg	☼	10/17/18 18:00	10/25/18 05:57	1
Vinyl chloride	<0.00079		0.0018	0.00079	mg/Kg	☼	10/17/18 18:00	10/25/18 05:57	1
Xylenes, Total	<0.00057		0.0036	0.00057	mg/Kg	☼	10/17/18 18:00	10/25/18 05:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		75 - 131	10/17/18 18:00	10/25/18 05:57	1
Dibromofluoromethane	92		75 - 126	10/17/18 18:00	10/25/18 05:57	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	10/17/18 18:00	10/25/18 05:57	1
Toluene-d8 (Surr)	93		75 - 124	10/17/18 18:00	10/25/18 05:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0070		0.039	0.0070	mg/Kg	☼	10/20/18 01:56	10/23/18 16:27	1
Acenaphthylene	<0.0051		0.039	0.0051	mg/Kg	☼	10/20/18 01:56	10/23/18 16:27	1
Anthracene	<0.0065		0.039	0.0065	mg/Kg	☼	10/20/18 01:56	10/23/18 16:27	1
Benzo[a]anthracene	0.0075	J	0.039	0.0052	mg/Kg	☼	10/20/18 01:56	10/23/18 16:27	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B15 (0-5)

Lab Sample ID: 500-153234-6

Date Collected: 10/16/18 10:35

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.021	J	0.039	0.0075	mg/Kg	☼	10/20/18 01:56	10/23/18 16:27	1
Benzo[b]fluoranthene	0.011	J	0.039	0.0084	mg/Kg	☼	10/20/18 01:56	10/23/18 16:27	1
Benzo[g,h,i]perylene	<0.013		0.039	0.013	mg/Kg	☼	10/20/18 01:56	10/23/18 16:27	1
Benzo[k]fluoranthene	<0.011		0.039	0.011	mg/Kg	☼	10/20/18 01:56	10/23/18 16:27	1
Bis(2-chloroethoxy)methane	<0.040		0.20	0.040	mg/Kg	☼	10/20/18 01:56	10/23/18 16:27	1
Bis(2-chloroethyl)ether	<0.058		0.20	0.058	mg/Kg	☼	10/20/18 01:56	10/23/18 16:27	1
Bis(2-ethylhexyl) phthalate	<0.071		0.20	0.071	mg/Kg	☼	10/20/18 01:56	10/23/18 16:27	1
4-Bromophenyl phenyl ether	<0.051		0.20	0.051	mg/Kg	☼	10/20/18 01:56	10/23/18 16:27	1
Butyl benzyl phthalate	<0.074		0.20	0.074	mg/Kg	☼	10/20/18 01:56	10/23/18 16:27	1
Carbazole	<0.097		0.20	0.097	mg/Kg	☼	10/20/18 01:56	10/23/18 16:27	1
4-Chloroaniline	<0.18		0.79	0.18	mg/Kg	☼	10/20/18 01:56	10/23/18 16:27	1
4-Chloro-3-methylphenol	<0.13		0.39	0.13	mg/Kg	☼	10/20/18 01:56	10/23/18 16:27	1
2-Chloronaphthalene	<0.043		0.20	0.043	mg/Kg	☼	10/20/18 01:56	10/23/18 16:27	1
2-Chlorophenol	<0.067		0.20	0.067	mg/Kg	☼	10/20/18 01:56	10/23/18 16:27	1
4-Chlorophenyl phenyl ether	<0.046		0.20	0.046	mg/Kg	☼	10/20/18 01:56	10/23/18 16:27	1
Chrysene	<0.011		0.039	0.011	mg/Kg	☼	10/20/18 01:56	10/23/18 16:27	1
Dibenz(a,h)anthracene	<0.0075		0.039	0.0075	mg/Kg	☼	10/20/18 01:56	10/23/18 16:27	1
Dibenzofuran	<0.046		0.20	0.046	mg/Kg	☼	10/20/18 01:56	10/23/18 16:27	1
1,2-Dichlorobenzene	<0.047		0.20	0.047	mg/Kg	☼	10/20/18 01:56	10/23/18 16:27	1
1,3-Dichlorobenzene	<0.044		0.20	0.044	mg/Kg	☼	10/20/18 01:56	10/23/18 16:27	1
1,4-Dichlorobenzene	<0.050		0.20	0.050	mg/Kg	☼	10/20/18 01:56	10/23/18 16:27	1
3,3'-Dichlorobenzidine	<0.055		0.20	0.055	mg/Kg	☼	10/20/18 01:56	10/23/18 16:27	1
2,4-Dichlorophenol	<0.093		0.39	0.093	mg/Kg	☼	10/20/18 01:56	10/23/18 16:27	1
Diethyl phthalate	<0.066		0.20	0.066	mg/Kg	☼	10/20/18 01:56	10/23/18 16:27	1
2,4-Dimethylphenol	<0.15		0.39	0.15	mg/Kg	☼	10/20/18 01:56	10/23/18 16:27	1
Dimethyl phthalate	<0.051		0.20	0.051	mg/Kg	☼	10/20/18 01:56	10/23/18 16:27	1
Di-n-butyl phthalate	<0.059		0.20	0.059	mg/Kg	☼	10/20/18 01:56	10/23/18 16:27	1
4,6-Dinitro-2-methylphenol	<0.31		0.79	0.31	mg/Kg	☼	10/20/18 01:56	10/23/18 16:27	1
2,4-Dinitrophenol	<0.69		0.79	0.69	mg/Kg	☼	10/20/18 01:56	10/23/18 16:27	1
2,4-Dinitrotoluene	<0.062		0.20	0.062	mg/Kg	☼	10/20/18 01:56	10/23/18 16:27	1
2,6-Dinitrotoluene	<0.077		0.20	0.077	mg/Kg	☼	10/20/18 01:56	10/23/18 16:27	1
Di-n-octyl phthalate	<0.064		0.20	0.064	mg/Kg	☼	10/20/18 01:56	10/23/18 16:27	1
Fluoranthene	0.0096	J	0.039	0.0072	mg/Kg	☼	10/20/18 01:56	10/23/18 16:27	1
Fluorene	<0.0055		0.039	0.0055	mg/Kg	☼	10/20/18 01:56	10/23/18 16:27	1
Hexachlorobenzene	<0.0090		0.079	0.0090	mg/Kg	☼	10/20/18 01:56	10/23/18 16:27	1
Hexachlorobutadiene	<0.061		0.20	0.061	mg/Kg	☼	10/20/18 01:56	10/23/18 16:27	1
Hexachlorocyclopentadiene	<0.22		0.79	0.22	mg/Kg	☼	10/20/18 01:56	10/23/18 16:27	1
Hexachloroethane	<0.059		0.20	0.059	mg/Kg	☼	10/20/18 01:56	10/23/18 16:27	1
Indeno[1,2,3-cd]pyrene	0.022	J	0.039	0.010	mg/Kg	☼	10/20/18 01:56	10/23/18 16:27	1
Isophorone	<0.044		0.20	0.044	mg/Kg	☼	10/20/18 01:56	10/23/18 16:27	1
2-Methylnaphthalene	<0.0072		0.079	0.0072	mg/Kg	☼	10/20/18 01:56	10/23/18 16:27	1
2-Methylphenol	<0.063		0.20	0.063	mg/Kg	☼	10/20/18 01:56	10/23/18 16:27	1
3 & 4 Methylphenol	<0.065		0.20	0.065	mg/Kg	☼	10/20/18 01:56	10/23/18 16:27	1
Naphthalene	<0.0060		0.039	0.0060	mg/Kg	☼	10/20/18 01:56	10/23/18 16:27	1
2-Nitroaniline	<0.052		0.20	0.052	mg/Kg	☼	10/20/18 01:56	10/23/18 16:27	1
3-Nitroaniline	<0.12		0.39	0.12	mg/Kg	☼	10/20/18 01:56	10/23/18 16:27	1
4-Nitroaniline	<0.16		0.39	0.16	mg/Kg	☼	10/20/18 01:56	10/23/18 16:27	1
Nitrobenzene	<0.0097		0.039	0.0097	mg/Kg	☼	10/20/18 01:56	10/23/18 16:27	1
2-Nitrophenol	<0.092		0.39	0.092	mg/Kg	☼	10/20/18 01:56	10/23/18 16:27	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B15 (0-5)

Lab Sample ID: 500-153234-6

Date Collected: 10/16/18 10:35

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.37		0.79	0.37	mg/Kg	☼	10/20/18 01:56	10/23/18 16:27	1
N-Nitrosodi-n-propylamine	<0.048		0.079	0.048	mg/Kg	☼	10/20/18 01:56	10/23/18 16:27	1
N-Nitrosodiphenylamine	<0.046		0.20	0.046	mg/Kg	☼	10/20/18 01:56	10/23/18 16:27	1
2,2'-oxybis[1-chloropropane]	<0.045		0.20	0.045	mg/Kg	☼	10/20/18 01:56	10/23/18 16:27	1
Pentachlorophenol	<0.63		0.79	0.63	mg/Kg	☼	10/20/18 01:56	10/23/18 16:27	1
Phenanthrene	0.0085	J	0.039	0.0054	mg/Kg	☼	10/20/18 01:56	10/23/18 16:27	1
Phenol	<0.087		0.20	0.087	mg/Kg	☼	10/20/18 01:56	10/23/18 16:27	1
Pyrene	0.011	J	0.039	0.0077	mg/Kg	☼	10/20/18 01:56	10/23/18 16:27	1
1,2,4-Trichlorobenzene	<0.042		0.20	0.042	mg/Kg	☼	10/20/18 01:56	10/23/18 16:27	1
2,4,5-Trichlorophenol	<0.089		0.39	0.089	mg/Kg	☼	10/20/18 01:56	10/23/18 16:27	1
2,4,6-Trichlorophenol	<0.13		0.39	0.13	mg/Kg	☼	10/20/18 01:56	10/23/18 16:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	90		43 - 145	10/20/18 01:56	10/23/18 16:27	1
2-Fluorophenol	123		31 - 166	10/20/18 01:56	10/23/18 16:27	1
Nitrobenzene-d5	86		37 - 147	10/20/18 01:56	10/23/18 16:27	1
Phenol-d5	113		30 - 153	10/20/18 01:56	10/23/18 16:27	1
Terphenyl-d14	95		42 - 157	10/20/18 01:56	10/23/18 16:27	1
2,4,6-Tribromophenol	52		31 - 143	10/20/18 01:56	10/23/18 16:27	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.37	J	1.1	0.22	mg/Kg	☼	10/23/18 08:25	10/24/18 01:20	1
Arsenic	15		0.56	0.19	mg/Kg	☼	10/23/18 08:25	10/24/18 01:20	1
Barium	43		0.56	0.064	mg/Kg	☼	10/23/18 08:25	10/24/18 01:20	1
Beryllium	0.67		0.22	0.052	mg/Kg	☼	10/23/18 08:25	10/24/18 01:20	1
Cadmium	0.20	B	0.11	0.020	mg/Kg	☼	10/23/18 08:25	10/24/18 01:20	1
Chromium	16		0.56	0.28	mg/Kg	☼	10/23/18 08:25	10/24/18 01:20	1
Cobalt	13		0.28	0.073	mg/Kg	☼	10/23/18 08:25	10/24/18 01:20	1
Copper	34	B	0.56	0.16	mg/Kg	☼	10/23/18 08:25	10/24/18 01:20	1
Iron	25000	B	11	5.8	mg/Kg	☼	10/23/18 08:25	10/24/18 01:20	1
Lead	27		0.28	0.13	mg/Kg	☼	10/23/18 08:25	10/24/18 01:20	1
Magnesium	4500		5.6	2.8	mg/Kg	☼	10/23/18 08:25	10/24/18 01:20	1
Calcium	4600		11	1.9	mg/Kg	☼	10/23/18 08:25	10/24/18 01:20	1
Manganese	510	B	0.56	0.081	mg/Kg	☼	10/23/18 08:25	10/24/18 01:20	1
Nickel	34		0.56	0.16	mg/Kg	☼	10/23/18 08:25	10/24/18 01:20	1
Selenium	<0.33		0.56	0.33	mg/Kg	☼	10/23/18 08:25	10/24/18 01:20	1
Silver	0.25	J	0.28	0.072	mg/Kg	☼	10/23/18 08:25	10/24/18 01:20	1
Thallium	<0.28		0.56	0.28	mg/Kg	☼	10/23/18 08:25	10/24/18 01:20	1
Vanadium	26		0.28	0.066	mg/Kg	☼	10/23/18 08:25	10/24/18 01:20	1
Zinc	110		1.1	0.49	mg/Kg	☼	10/23/18 08:25	10/24/18 01:20	1
Potassium	1600		28	9.9	mg/Kg	☼	10/23/18 08:25	10/24/18 01:20	1
Sodium	800		56	8.2	mg/Kg	☼	10/23/18 08:25	10/24/18 01:20	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		10/24/18 09:14	10/24/18 23:32	1
Barium	0.25	J	0.50	0.050	mg/L		10/24/18 09:14	10/24/18 23:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/24/18 09:14	10/24/18 23:32	1
Cadmium	0.0030	J	0.0050	0.0020	mg/L		10/24/18 09:14	10/24/18 23:32	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B15 (0-5)

Lab Sample ID: 500-153234-6

Date Collected: 10/16/18 10:35

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	160		5.0	0.50	mg/L		10/24/18 09:14	10/24/18 23:32	1
Chromium	0.022	J B	0.025	0.010	mg/L		10/24/18 09:14	10/24/18 23:32	1
Cobalt	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/24/18 23:32	1
Copper	<0.010	^	0.025	0.010	mg/L		10/24/18 09:14	10/24/18 23:32	1
Iron	0.31	J	0.40	0.20	mg/L		10/24/18 09:14	10/24/18 23:32	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/24/18 09:14	10/24/18 23:32	1
Magnesium	75		2.5	0.50	mg/L		10/24/18 09:14	10/24/18 23:32	1
Manganese	0.33		0.025	0.010	mg/L		10/24/18 09:14	10/24/18 23:32	1
Nickel	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/24/18 23:32	1
Potassium	1.2	J	2.5	0.50	mg/L		10/24/18 09:14	10/24/18 23:32	1
Selenium	<0.020		0.050	0.020	mg/L		10/24/18 09:14	10/24/18 23:32	1
Silver	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/24/18 23:32	1
Vanadium	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/24/18 23:32	1
Zinc	0.26	J B	0.50	0.020	mg/L		10/24/18 09:14	10/24/18 23:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	2.3		0.025	0.010	mg/L		10/24/18 15:28	10/25/18 11:44	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		10/24/18 09:14	10/25/18 13:15	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/24/18 09:14	10/25/18 05:11	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		10/24/18 11:25	10/25/18 08:19	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.041	B	0.018	0.0060	mg/Kg	☼	10/23/18 15:50	10/24/18 09:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.20		0.59	0.20	mg/Kg	☼	10/25/18 13:30	10/25/18 18:44	1
pH	8.5		0.2	0.2	SU			10/23/18 15:32	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B14 (0-5)

Lab Sample ID: 500-153234-7

Date Collected: 10/16/18 10:55

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 83.8

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	☼	10/17/18 18:00	10/25/18 06:23	1
Benzene	<0.00049		0.0019	0.00049	mg/Kg	☼	10/17/18 18:00	10/25/18 06:23	1
Bromodichloromethane	<0.00039		0.0019	0.00039	mg/Kg	☼	10/17/18 18:00	10/25/18 06:23	1
Bromoform	<0.00056		0.0019	0.00056	mg/Kg	☼	10/17/18 18:00	10/25/18 06:23	1
Bromomethane	<0.0018	*	0.0048	0.0018	mg/Kg	☼	10/17/18 18:00	10/25/18 06:23	1
2-Butanone (MEK)	<0.0021		0.0048	0.0021	mg/Kg	☼	10/17/18 18:00	10/25/18 06:23	1
Carbon disulfide	<0.00099		0.0048	0.00099	mg/Kg	☼	10/17/18 18:00	10/25/18 06:23	1
Carbon tetrachloride	<0.00055		0.0019	0.00055	mg/Kg	☼	10/17/18 18:00	10/25/18 06:23	1
Chlorobenzene	<0.00070		0.0019	0.00070	mg/Kg	☼	10/17/18 18:00	10/25/18 06:23	1
Chloroethane	<0.0014	*	0.0048	0.0014	mg/Kg	☼	10/17/18 18:00	10/25/18 06:23	1
Chloroform	<0.00066		0.0019	0.00066	mg/Kg	☼	10/17/18 18:00	10/25/18 06:23	1
Chloromethane	<0.0019		0.0048	0.0019	mg/Kg	☼	10/17/18 18:00	10/25/18 06:23	1
cis-1,2-Dichloroethene	<0.00053		0.0019	0.00053	mg/Kg	☼	10/17/18 18:00	10/25/18 06:23	1
cis-1,3-Dichloropropene	<0.00057		0.0019	0.00057	mg/Kg	☼	10/17/18 18:00	10/25/18 06:23	1
Dibromochloromethane	<0.00062		0.0019	0.00062	mg/Kg	☼	10/17/18 18:00	10/25/18 06:23	1
1,1-Dichloroethane	<0.00065		0.0019	0.00065	mg/Kg	☼	10/17/18 18:00	10/25/18 06:23	1
1,2-Dichloroethane	<0.0015		0.0048	0.0015	mg/Kg	☼	10/17/18 18:00	10/25/18 06:23	1
1,1-Dichloroethene	<0.00065		0.0019	0.00065	mg/Kg	☼	10/17/18 18:00	10/25/18 06:23	1
1,2-Dichloropropane	<0.00049		0.0019	0.00049	mg/Kg	☼	10/17/18 18:00	10/25/18 06:23	1
1,3-Dichloropropane, Total	<0.00067		0.0019	0.00067	mg/Kg	☼	10/17/18 18:00	10/25/18 06:23	1
Ethylbenzene	<0.00091		0.0019	0.00091	mg/Kg	☼	10/17/18 18:00	10/25/18 06:23	1
2-Hexanone	<0.0015		0.0048	0.0015	mg/Kg	☼	10/17/18 18:00	10/25/18 06:23	1
Methylene Chloride	<0.0019		0.0048	0.0019	mg/Kg	☼	10/17/18 18:00	10/25/18 06:23	1
4-Methyl-2-pentanone (MIBK)	<0.0014		0.0048	0.0014	mg/Kg	☼	10/17/18 18:00	10/25/18 06:23	1
Methyl tert-butyl ether	<0.00056		0.0019	0.00056	mg/Kg	☼	10/17/18 18:00	10/25/18 06:23	1
Styrene	<0.00057		0.0019	0.00057	mg/Kg	☼	10/17/18 18:00	10/25/18 06:23	1
1,1,2,2-Tetrachloroethane	<0.00061		0.0019	0.00061	mg/Kg	☼	10/17/18 18:00	10/25/18 06:23	1
Tetrachloroethene	<0.00065		0.0019	0.00065	mg/Kg	☼	10/17/18 18:00	10/25/18 06:23	1
Toluene	<0.00048		0.0019	0.00048	mg/Kg	☼	10/17/18 18:00	10/25/18 06:23	1
trans-1,2-Dichloroethene	<0.00084		0.0019	0.00084	mg/Kg	☼	10/17/18 18:00	10/25/18 06:23	1
trans-1,3-Dichloropropene	<0.00067		0.0019	0.00067	mg/Kg	☼	10/17/18 18:00	10/25/18 06:23	1
1,1,1-Trichloroethane	<0.00064		0.0019	0.00064	mg/Kg	☼	10/17/18 18:00	10/25/18 06:23	1
1,1,2-Trichloroethane	<0.00082		0.0019	0.00082	mg/Kg	☼	10/17/18 18:00	10/25/18 06:23	1
Trichloroethene	<0.00064		0.0019	0.00064	mg/Kg	☼	10/17/18 18:00	10/25/18 06:23	1
Vinyl acetate	<0.0017		0.0048	0.0017	mg/Kg	☼	10/17/18 18:00	10/25/18 06:23	1
Vinyl chloride	<0.00084		0.0019	0.00084	mg/Kg	☼	10/17/18 18:00	10/25/18 06:23	1
Xylenes, Total	<0.00061		0.0038	0.00061	mg/Kg	☼	10/17/18 18:00	10/25/18 06:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		75 - 131	10/17/18 18:00	10/25/18 06:23	1
Dibromofluoromethane	95		75 - 126	10/17/18 18:00	10/25/18 06:23	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	10/17/18 18:00	10/25/18 06:23	1
Toluene-d8 (Surr)	95		75 - 124	10/17/18 18:00	10/25/18 06:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.010	J	0.038	0.0069	mg/Kg	☼	10/20/18 01:56	10/23/18 16:53	1
Acenaphthylene	0.0057	J	0.038	0.0050	mg/Kg	☼	10/20/18 01:56	10/23/18 16:53	1
Anthracene	0.014	J	0.038	0.0064	mg/Kg	☼	10/20/18 01:56	10/23/18 16:53	1
Benzo[a]anthracene	0.049		0.038	0.0051	mg/Kg	☼	10/20/18 01:56	10/23/18 16:53	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B14 (0-5)

Lab Sample ID: 500-153234-7

Date Collected: 10/16/18 10:55

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.057		0.038	0.0074	mg/Kg	☼	10/20/18 01:56	10/23/18 16:53	1
Benzo[b]fluoranthene	0.069		0.038	0.0083	mg/Kg	☼	10/20/18 01:56	10/23/18 16:53	1
Benzo[g,h,i]perylene	0.042		0.038	0.012	mg/Kg	☼	10/20/18 01:56	10/23/18 16:53	1
Benzo[k]fluoranthene	0.027	J	0.038	0.011	mg/Kg	☼	10/20/18 01:56	10/23/18 16:53	1
Bis(2-chloroethoxy)methane	<0.039		0.19	0.039	mg/Kg	☼	10/20/18 01:56	10/23/18 16:53	1
Bis(2-chloroethyl)ether	<0.057		0.19	0.057	mg/Kg	☼	10/20/18 01:56	10/23/18 16:53	1
Bis(2-ethylhexyl) phthalate	<0.070		0.19	0.070	mg/Kg	☼	10/20/18 01:56	10/23/18 16:53	1
4-Bromophenyl phenyl ether	<0.050		0.19	0.050	mg/Kg	☼	10/20/18 01:56	10/23/18 16:53	1
Butyl benzyl phthalate	<0.073		0.19	0.073	mg/Kg	☼	10/20/18 01:56	10/23/18 16:53	1
Carbazole	<0.096		0.19	0.096	mg/Kg	☼	10/20/18 01:56	10/23/18 16:53	1
4-Chloroaniline	<0.18		0.77	0.18	mg/Kg	☼	10/20/18 01:56	10/23/18 16:53	1
4-Chloro-3-methylphenol	<0.13		0.38	0.13	mg/Kg	☼	10/20/18 01:56	10/23/18 16:53	1
2-Chloronaphthalene	<0.042		0.19	0.042	mg/Kg	☼	10/20/18 01:56	10/23/18 16:53	1
2-Chlorophenol	<0.065		0.19	0.065	mg/Kg	☼	10/20/18 01:56	10/23/18 16:53	1
4-Chlorophenyl phenyl ether	<0.045		0.19	0.045	mg/Kg	☼	10/20/18 01:56	10/23/18 16:53	1
Chrysene	0.061		0.038	0.010	mg/Kg	☼	10/20/18 01:56	10/23/18 16:53	1
Dibenz(a,h)anthracene	0.028	J	0.038	0.0074	mg/Kg	☼	10/20/18 01:56	10/23/18 16:53	1
Dibenzofuran	<0.045		0.19	0.045	mg/Kg	☼	10/20/18 01:56	10/23/18 16:53	1
1,2-Dichlorobenzene	<0.046		0.19	0.046	mg/Kg	☼	10/20/18 01:56	10/23/18 16:53	1
1,3-Dichlorobenzene	<0.043		0.19	0.043	mg/Kg	☼	10/20/18 01:56	10/23/18 16:53	1
1,4-Dichlorobenzene	<0.049		0.19	0.049	mg/Kg	☼	10/20/18 01:56	10/23/18 16:53	1
3,3'-Dichlorobenzidine	<0.054		0.19	0.054	mg/Kg	☼	10/20/18 01:56	10/23/18 16:53	1
2,4-Dichlorophenol	<0.091		0.38	0.091	mg/Kg	☼	10/20/18 01:56	10/23/18 16:53	1
Diethyl phthalate	<0.065		0.19	0.065	mg/Kg	☼	10/20/18 01:56	10/23/18 16:53	1
2,4-Dimethylphenol	<0.14		0.38	0.14	mg/Kg	☼	10/20/18 01:56	10/23/18 16:53	1
Dimethyl phthalate	<0.050		0.19	0.050	mg/Kg	☼	10/20/18 01:56	10/23/18 16:53	1
Di-n-butyl phthalate	<0.058		0.19	0.058	mg/Kg	☼	10/20/18 01:56	10/23/18 16:53	1
4,6-Dinitro-2-methylphenol	<0.31		0.77	0.31	mg/Kg	☼	10/20/18 01:56	10/23/18 16:53	1
2,4-Dinitrophenol	<0.67		0.77	0.67	mg/Kg	☼	10/20/18 01:56	10/23/18 16:53	1
2,4-Dinitrotoluene	<0.061		0.19	0.061	mg/Kg	☼	10/20/18 01:56	10/23/18 16:53	1
2,6-Dinitrotoluene	<0.075		0.19	0.075	mg/Kg	☼	10/20/18 01:56	10/23/18 16:53	1
Di-n-octyl phthalate	<0.062		0.19	0.062	mg/Kg	☼	10/20/18 01:56	10/23/18 16:53	1
Fluoranthene	0.087		0.038	0.0071	mg/Kg	☼	10/20/18 01:56	10/23/18 16:53	1
Fluorene	<0.0054		0.038	0.0054	mg/Kg	☼	10/20/18 01:56	10/23/18 16:53	1
Hexachlorobenzene	<0.0089		0.077	0.0089	mg/Kg	☼	10/20/18 01:56	10/23/18 16:53	1
Hexachlorobutadiene	<0.060		0.19	0.060	mg/Kg	☼	10/20/18 01:56	10/23/18 16:53	1
Hexachlorocyclopentadiene	<0.22		0.77	0.22	mg/Kg	☼	10/20/18 01:56	10/23/18 16:53	1
Hexachloroethane	<0.058		0.19	0.058	mg/Kg	☼	10/20/18 01:56	10/23/18 16:53	1
Indeno[1,2,3-cd]pyrene	0.044		0.038	0.0099	mg/Kg	☼	10/20/18 01:56	10/23/18 16:53	1
Isophorone	<0.043		0.19	0.043	mg/Kg	☼	10/20/18 01:56	10/23/18 16:53	1
2-Methylnaphthalene	<0.0070		0.077	0.0070	mg/Kg	☼	10/20/18 01:56	10/23/18 16:53	1
2-Methylphenol	<0.061		0.19	0.061	mg/Kg	☼	10/20/18 01:56	10/23/18 16:53	1
3 & 4 Methylphenol	<0.064		0.19	0.064	mg/Kg	☼	10/20/18 01:56	10/23/18 16:53	1
Naphthalene	<0.0059		0.038	0.0059	mg/Kg	☼	10/20/18 01:56	10/23/18 16:53	1
2-Nitroaniline	<0.051		0.19	0.051	mg/Kg	☼	10/20/18 01:56	10/23/18 16:53	1
3-Nitroaniline	<0.12		0.38	0.12	mg/Kg	☼	10/20/18 01:56	10/23/18 16:53	1
4-Nitroaniline	<0.16		0.38	0.16	mg/Kg	☼	10/20/18 01:56	10/23/18 16:53	1
Nitrobenzene	<0.0095		0.038	0.0095	mg/Kg	☼	10/20/18 01:56	10/23/18 16:53	1
2-Nitrophenol	<0.090		0.38	0.090	mg/Kg	☼	10/20/18 01:56	10/23/18 16:53	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B14 (0-5)

Lab Sample ID: 500-153234-7

Date Collected: 10/16/18 10:55

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 83.8

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	☼	10/20/18 01:56	10/23/18 16:53	1
N-Nitrosodi-n-propylamine	<0.047		0.077	0.047	mg/Kg	☼	10/20/18 01:56	10/23/18 16:53	1
N-Nitrosodiphenylamine	<0.045		0.19	0.045	mg/Kg	☼	10/20/18 01:56	10/23/18 16:53	1
2,2'-oxybis[1-chloropropane]	<0.044		0.19	0.044	mg/Kg	☼	10/20/18 01:56	10/23/18 16:53	1
Pentachlorophenol	<0.61		0.77	0.61	mg/Kg	☼	10/20/18 01:56	10/23/18 16:53	1
Phenanthrene	0.050		0.038	0.0053	mg/Kg	☼	10/20/18 01:56	10/23/18 16:53	1
Phenol	<0.085		0.19	0.085	mg/Kg	☼	10/20/18 01:56	10/23/18 16:53	1
Pyrene	0.082		0.038	0.0076	mg/Kg	☼	10/20/18 01:56	10/23/18 16:53	1
1,2,4-Trichlorobenzene	<0.041		0.19	0.041	mg/Kg	☼	10/20/18 01:56	10/23/18 16:53	1
2,4,5-Trichlorophenol	<0.087		0.38	0.087	mg/Kg	☼	10/20/18 01:56	10/23/18 16:53	1
2,4,6-Trichlorophenol	<0.13		0.38	0.13	mg/Kg	☼	10/20/18 01:56	10/23/18 16:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	80		43 - 145	10/20/18 01:56	10/23/18 16:53	1
2-Fluorophenol	118		31 - 166	10/20/18 01:56	10/23/18 16:53	1
Nitrobenzene-d5	76		37 - 147	10/20/18 01:56	10/23/18 16:53	1
Phenol-d5	111		30 - 153	10/20/18 01:56	10/23/18 16:53	1
Terphenyl-d14	98		42 - 157	10/20/18 01:56	10/23/18 16:53	1
2,4,6-Tribromophenol	74		31 - 143	10/20/18 01:56	10/23/18 16:53	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.38	J	1.2	0.23	mg/Kg	☼	10/23/18 08:25	10/24/18 01:24	1
Arsenic	12		0.59	0.20	mg/Kg	☼	10/23/18 08:25	10/24/18 01:24	1
Barium	61		0.59	0.067	mg/Kg	☼	10/23/18 08:25	10/24/18 01:24	1
Beryllium	0.64		0.23	0.055	mg/Kg	☼	10/23/18 08:25	10/24/18 01:24	1
Cadmium	0.29	B	0.12	0.021	mg/Kg	☼	10/23/18 08:25	10/24/18 01:24	1
Chromium	14		0.59	0.29	mg/Kg	☼	10/23/18 08:25	10/24/18 01:24	1
Cobalt	12		0.29	0.077	mg/Kg	☼	10/23/18 08:25	10/24/18 01:24	1
Copper	26	B	0.59	0.16	mg/Kg	☼	10/23/18 08:25	10/24/18 01:24	1
Iron	21000	B	12	6.1	mg/Kg	☼	10/23/18 08:25	10/24/18 01:24	1
Lead	45		0.29	0.14	mg/Kg	☼	10/23/18 08:25	10/24/18 01:24	1
Magnesium	11000		5.9	2.9	mg/Kg	☼	10/23/18 08:25	10/24/18 01:24	1
Calcium	17000		12	2.0	mg/Kg	☼	10/23/18 08:25	10/24/18 01:24	1
Manganese	560	B	0.59	0.085	mg/Kg	☼	10/23/18 08:25	10/24/18 01:24	1
Nickel	28		0.59	0.17	mg/Kg	☼	10/23/18 08:25	10/24/18 01:24	1
Selenium	<0.35		0.59	0.35	mg/Kg	☼	10/23/18 08:25	10/24/18 01:24	1
Silver	0.20	J	0.29	0.076	mg/Kg	☼	10/23/18 08:25	10/24/18 01:24	1
Thallium	<0.29		0.59	0.29	mg/Kg	☼	10/23/18 08:25	10/24/18 01:24	1
Vanadium	23		0.29	0.069	mg/Kg	☼	10/23/18 08:25	10/24/18 01:24	1
Zinc	110		1.2	0.52	mg/Kg	☼	10/23/18 08:25	10/24/18 01:24	1
Potassium	1400		29	10	mg/Kg	☼	10/23/18 08:25	10/24/18 01:24	1
Sodium	1200		59	8.7	mg/Kg	☼	10/23/18 08:25	10/24/18 01:24	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		10/24/18 09:14	10/24/18 23:36	1
Barium	0.42	J	0.50	0.050	mg/L		10/24/18 09:14	10/24/18 23:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/24/18 09:14	10/24/18 23:36	1
Cadmium	0.0040	J	0.0050	0.0020	mg/L		10/24/18 09:14	10/24/18 23:36	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B14 (0-5)

Lab Sample ID: 500-153234-7

Date Collected: 10/16/18 10:55

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	210		5.0	0.50	mg/L		10/24/18 09:14	10/24/18 23:36	1
Chromium	0.022	J B	0.025	0.010	mg/L		10/24/18 09:14	10/24/18 23:36	1
Cobalt	0.020	J	0.025	0.010	mg/L		10/24/18 09:14	10/24/18 23:36	1
Copper	<0.010	^	0.025	0.010	mg/L		10/24/18 09:14	10/24/18 23:36	1
Iron	0.31	J	0.40	0.20	mg/L		10/24/18 09:14	10/24/18 23:36	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/24/18 09:14	10/24/18 23:36	1
Magnesium	95		2.5	0.50	mg/L		10/24/18 09:14	10/24/18 23:36	1
Manganese	5.4		0.025	0.010	mg/L		10/24/18 09:14	10/24/18 23:36	1
Nickel	0.019	J	0.025	0.010	mg/L		10/24/18 09:14	10/24/18 23:36	1
Potassium	1.5	J	2.5	0.50	mg/L		10/24/18 09:14	10/24/18 23:36	1
Selenium	<0.020		0.050	0.020	mg/L		10/24/18 09:14	10/24/18 23:36	1
Silver	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/24/18 23:36	1
Vanadium	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/24/18 23:36	1
Zinc	0.083	J B	0.50	0.020	mg/L		10/24/18 09:14	10/24/18 23:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	2.0		0.025	0.010	mg/L		10/24/18 15:28	10/25/18 11:47	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		10/24/18 09:14	10/25/18 13:16	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/24/18 09:14	10/25/18 05:15	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		10/24/18 11:25	10/25/18 08:21	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038	B	0.018	0.0061	mg/Kg	☼	10/23/18 15:50	10/24/18 09:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.17		0.49	0.17	mg/Kg	☼	10/25/18 13:30	10/25/18 18:45	1
pH	8.1		0.2	0.2	SU			10/23/18 15:35	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B13 (0-5)

Lab Sample ID: 500-153234-8

Date Collected: 10/16/18 11:15

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0090		0.021	0.0090	mg/Kg	☼	10/17/18 18:00	10/25/18 06:48	1
Benzene	<0.00053		0.0021	0.00053	mg/Kg	☼	10/17/18 18:00	10/25/18 06:48	1
Bromodichloromethane	<0.00042		0.0021	0.00042	mg/Kg	☼	10/17/18 18:00	10/25/18 06:48	1
Bromoform	<0.00060		0.0021	0.00060	mg/Kg	☼	10/17/18 18:00	10/25/18 06:48	1
Bromomethane	<0.0020	*	0.0052	0.0020	mg/Kg	☼	10/17/18 18:00	10/25/18 06:48	1
2-Butanone (MEK)	<0.0023		0.0052	0.0023	mg/Kg	☼	10/17/18 18:00	10/25/18 06:48	1
Carbon disulfide	<0.0011		0.0052	0.0011	mg/Kg	☼	10/17/18 18:00	10/25/18 06:48	1
Carbon tetrachloride	<0.00060		0.0021	0.00060	mg/Kg	☼	10/17/18 18:00	10/25/18 06:48	1
Chlorobenzene	<0.00076		0.0021	0.00076	mg/Kg	☼	10/17/18 18:00	10/25/18 06:48	1
Chloroethane	<0.0015	*	0.0052	0.0015	mg/Kg	☼	10/17/18 18:00	10/25/18 06:48	1
Chloroform	<0.00072		0.0021	0.00072	mg/Kg	☼	10/17/18 18:00	10/25/18 06:48	1
Chloromethane	<0.0021		0.0052	0.0021	mg/Kg	☼	10/17/18 18:00	10/25/18 06:48	1
cis-1,2-Dichloroethene	<0.00058		0.0021	0.00058	mg/Kg	☼	10/17/18 18:00	10/25/18 06:48	1
cis-1,3-Dichloropropene	<0.00062		0.0021	0.00062	mg/Kg	☼	10/17/18 18:00	10/25/18 06:48	1
Dibromochloromethane	<0.00068		0.0021	0.00068	mg/Kg	☼	10/17/18 18:00	10/25/18 06:48	1
1,1-Dichloroethane	<0.00071		0.0021	0.00071	mg/Kg	☼	10/17/18 18:00	10/25/18 06:48	1
1,2-Dichloroethane	<0.0016		0.0052	0.0016	mg/Kg	☼	10/17/18 18:00	10/25/18 06:48	1
1,1-Dichloroethene	<0.00071		0.0021	0.00071	mg/Kg	☼	10/17/18 18:00	10/25/18 06:48	1
1,2-Dichloropropane	<0.00053		0.0021	0.00053	mg/Kg	☼	10/17/18 18:00	10/25/18 06:48	1
1,3-Dichloropropane, Total	<0.00073		0.0021	0.00073	mg/Kg	☼	10/17/18 18:00	10/25/18 06:48	1
Ethylbenzene	<0.00099		0.0021	0.00099	mg/Kg	☼	10/17/18 18:00	10/25/18 06:48	1
2-Hexanone	<0.0016		0.0052	0.0016	mg/Kg	☼	10/17/18 18:00	10/25/18 06:48	1
Methylene Chloride	<0.0020		0.0052	0.0020	mg/Kg	☼	10/17/18 18:00	10/25/18 06:48	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0052	0.0015	mg/Kg	☼	10/17/18 18:00	10/25/18 06:48	1
Methyl tert-butyl ether	<0.00061		0.0021	0.00061	mg/Kg	☼	10/17/18 18:00	10/25/18 06:48	1
Styrene	<0.00062		0.0021	0.00062	mg/Kg	☼	10/17/18 18:00	10/25/18 06:48	1
1,1,2,2-Tetrachloroethane	<0.00066		0.0021	0.00066	mg/Kg	☼	10/17/18 18:00	10/25/18 06:48	1
Tetrachloroethene	<0.00070		0.0021	0.00070	mg/Kg	☼	10/17/18 18:00	10/25/18 06:48	1
Toluene	<0.00052		0.0021	0.00052	mg/Kg	☼	10/17/18 18:00	10/25/18 06:48	1
trans-1,2-Dichloroethene	<0.00092		0.0021	0.00092	mg/Kg	☼	10/17/18 18:00	10/25/18 06:48	1
trans-1,3-Dichloropropene	<0.00073		0.0021	0.00073	mg/Kg	☼	10/17/18 18:00	10/25/18 06:48	1
1,1,1-Trichloroethane	<0.00069		0.0021	0.00069	mg/Kg	☼	10/17/18 18:00	10/25/18 06:48	1
1,1,2-Trichloroethane	<0.00089		0.0021	0.00089	mg/Kg	☼	10/17/18 18:00	10/25/18 06:48	1
Trichloroethene	<0.00070		0.0021	0.00070	mg/Kg	☼	10/17/18 18:00	10/25/18 06:48	1
Vinyl acetate	<0.0018		0.0052	0.0018	mg/Kg	☼	10/17/18 18:00	10/25/18 06:48	1
Vinyl chloride	<0.00091		0.0021	0.00091	mg/Kg	☼	10/17/18 18:00	10/25/18 06:48	1
Xylenes, Total	<0.00066		0.0041	0.00066	mg/Kg	☼	10/17/18 18:00	10/25/18 06:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		75 - 131	10/17/18 18:00	10/25/18 06:48	1
Dibromofluoromethane	95		75 - 126	10/17/18 18:00	10/25/18 06:48	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	10/17/18 18:00	10/25/18 06:48	1
Toluene-d8 (Surr)	93		75 - 124	10/17/18 18:00	10/25/18 06:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.016	J	0.041	0.0074	mg/Kg	☼	10/20/18 01:56	10/23/18 19:59	1
Acenaphthylene	0.029	J	0.041	0.0054	mg/Kg	☼	10/20/18 01:56	10/23/18 19:59	1
Anthracene	0.037	J	0.041	0.0069	mg/Kg	☼	10/20/18 01:56	10/23/18 19:59	1
Benzo[a]anthracene	0.15		0.041	0.0055	mg/Kg	☼	10/20/18 01:56	10/23/18 19:59	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B13 (0-5)

Lab Sample ID: 500-153234-8

Date Collected: 10/16/18 11:15

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.17		0.041	0.0080	mg/Kg	☼	10/20/18 01:56	10/23/18 19:59	1
Benzo[b]fluoranthene	0.28		0.041	0.0089	mg/Kg	☼	10/20/18 01:56	10/23/18 19:59	1
Benzo[g,h,i]perylene	0.11		0.041	0.013	mg/Kg	☼	10/20/18 01:56	10/23/18 19:59	1
Benzo[k]fluoranthene	0.11		0.041	0.012	mg/Kg	☼	10/20/18 01:56	10/23/18 19:59	1
Bis(2-chloroethoxy)methane	<0.042		0.21	0.042	mg/Kg	☼	10/20/18 01:56	10/23/18 19:59	1
Bis(2-chloroethyl)ether	<0.062		0.21	0.062	mg/Kg	☼	10/20/18 01:56	10/23/18 19:59	1
Bis(2-ethylhexyl) phthalate	<0.075		0.21	0.075	mg/Kg	☼	10/20/18 01:56	10/23/18 19:59	1
4-Bromophenyl phenyl ether	<0.054		0.21	0.054	mg/Kg	☼	10/20/18 01:56	10/23/18 19:59	1
Butyl benzyl phthalate	<0.078		0.21	0.078	mg/Kg	☼	10/20/18 01:56	10/23/18 19:59	1
Carbazole	<0.10		0.21	0.10	mg/Kg	☼	10/20/18 01:56	10/23/18 19:59	1
4-Chloroaniline	<0.19		0.83	0.19	mg/Kg	☼	10/20/18 01:56	10/23/18 19:59	1
4-Chloro-3-methylphenol	<0.14		0.41	0.14	mg/Kg	☼	10/20/18 01:56	10/23/18 19:59	1
2-Chloronaphthalene	<0.045		0.21	0.045	mg/Kg	☼	10/20/18 01:56	10/23/18 19:59	1
2-Chlorophenol	<0.070		0.21	0.070	mg/Kg	☼	10/20/18 01:56	10/23/18 19:59	1
4-Chlorophenyl phenyl ether	<0.048		0.21	0.048	mg/Kg	☼	10/20/18 01:56	10/23/18 19:59	1
Chrysene	0.19		0.041	0.011	mg/Kg	☼	10/20/18 01:56	10/23/18 19:59	1
Dibenz(a,h)anthracene	0.045		0.041	0.0079	mg/Kg	☼	10/20/18 01:56	10/23/18 19:59	1
Dibenzofuran	<0.048		0.21	0.048	mg/Kg	☼	10/20/18 01:56	10/23/18 19:59	1
1,2-Dichlorobenzene	<0.049		0.21	0.049	mg/Kg	☼	10/20/18 01:56	10/23/18 19:59	1
1,3-Dichlorobenzene	<0.046		0.21	0.046	mg/Kg	☼	10/20/18 01:56	10/23/18 19:59	1
1,4-Dichlorobenzene	<0.053		0.21	0.053	mg/Kg	☼	10/20/18 01:56	10/23/18 19:59	1
3,3'-Dichlorobenzidine	<0.058		0.21	0.058	mg/Kg	☼	10/20/18 01:56	10/23/18 19:59	1
2,4-Dichlorophenol	<0.098		0.41	0.098	mg/Kg	☼	10/20/18 01:56	10/23/18 19:59	1
Diethyl phthalate	<0.070		0.21	0.070	mg/Kg	☼	10/20/18 01:56	10/23/18 19:59	1
2,4-Dimethylphenol	<0.16		0.41	0.16	mg/Kg	☼	10/20/18 01:56	10/23/18 19:59	1
Dimethyl phthalate	<0.054		0.21	0.054	mg/Kg	☼	10/20/18 01:56	10/23/18 19:59	1
Di-n-butyl phthalate	<0.063		0.21	0.063	mg/Kg	☼	10/20/18 01:56	10/23/18 19:59	1
4,6-Dinitro-2-methylphenol	<0.33		0.83	0.33	mg/Kg	☼	10/20/18 01:56	10/23/18 19:59	1
2,4-Dinitrophenol	<0.72		0.83	0.72	mg/Kg	☼	10/20/18 01:56	10/23/18 19:59	1
2,4-Dinitrotoluene	<0.065		0.21	0.065	mg/Kg	☼	10/20/18 01:56	10/23/18 19:59	1
2,6-Dinitrotoluene	<0.081		0.21	0.081	mg/Kg	☼	10/20/18 01:56	10/23/18 19:59	1
Di-n-octyl phthalate	<0.067		0.21	0.067	mg/Kg	☼	10/20/18 01:56	10/23/18 19:59	1
Fluoranthene	0.33		0.041	0.0076	mg/Kg	☼	10/20/18 01:56	10/23/18 19:59	1
Fluorene	0.011 J		0.041	0.0058	mg/Kg	☼	10/20/18 01:56	10/23/18 19:59	1
Hexachlorobenzene	<0.0095		0.083	0.0095	mg/Kg	☼	10/20/18 01:56	10/23/18 19:59	1
Hexachlorobutadiene	<0.065		0.21	0.065	mg/Kg	☼	10/20/18 01:56	10/23/18 19:59	1
Hexachlorocyclopentadiene	<0.24		0.83	0.24	mg/Kg	☼	10/20/18 01:56	10/23/18 19:59	1
Hexachloroethane	<0.062		0.21	0.062	mg/Kg	☼	10/20/18 01:56	10/23/18 19:59	1
Indeno[1,2,3-cd]pyrene	0.10		0.041	0.011	mg/Kg	☼	10/20/18 01:56	10/23/18 19:59	1
Isophorone	<0.046		0.21	0.046	mg/Kg	☼	10/20/18 01:56	10/23/18 19:59	1
2-Methylnaphthalene	<0.0076		0.083	0.0076	mg/Kg	☼	10/20/18 01:56	10/23/18 19:59	1
2-Methylphenol	<0.066		0.21	0.066	mg/Kg	☼	10/20/18 01:56	10/23/18 19:59	1
3 & 4 Methylphenol	<0.069		0.21	0.069	mg/Kg	☼	10/20/18 01:56	10/23/18 19:59	1
Naphthalene	<0.0063		0.041	0.0063	mg/Kg	☼	10/20/18 01:56	10/23/18 19:59	1
2-Nitroaniline	<0.055		0.21	0.055	mg/Kg	☼	10/20/18 01:56	10/23/18 19:59	1
3-Nitroaniline	<0.13		0.41	0.13	mg/Kg	☼	10/20/18 01:56	10/23/18 19:59	1
4-Nitroaniline	<0.17		0.41	0.17	mg/Kg	☼	10/20/18 01:56	10/23/18 19:59	1
Nitrobenzene	<0.010		0.041	0.010	mg/Kg	☼	10/20/18 01:56	10/23/18 19:59	1
2-Nitrophenol	<0.097		0.41	0.097	mg/Kg	☼	10/20/18 01:56	10/23/18 19:59	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B13 (0-5)

Lab Sample ID: 500-153234-8

Date Collected: 10/16/18 11:15

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.39		0.83	0.39	mg/Kg	☼	10/20/18 01:56	10/23/18 19:59	1
N-Nitrosodi-n-propylamine	<0.050		0.083	0.050	mg/Kg	☼	10/20/18 01:56	10/23/18 19:59	1
N-Nitrosodiphenylamine	<0.048		0.21	0.048	mg/Kg	☼	10/20/18 01:56	10/23/18 19:59	1
2,2'-oxybis[1-chloropropane]	<0.048		0.21	0.048	mg/Kg	☼	10/20/18 01:56	10/23/18 19:59	1
Pentachlorophenol	<0.66		0.83	0.66	mg/Kg	☼	10/20/18 01:56	10/23/18 19:59	1
Phenanthrene	0.14		0.041	0.0057	mg/Kg	☼	10/20/18 01:56	10/23/18 19:59	1
Phenol	<0.091		0.21	0.091	mg/Kg	☼	10/20/18 01:56	10/23/18 19:59	1
Pyrene	0.28		0.041	0.0082	mg/Kg	☼	10/20/18 01:56	10/23/18 19:59	1
1,2,4-Trichlorobenzene	<0.044		0.21	0.044	mg/Kg	☼	10/20/18 01:56	10/23/18 19:59	1
2,4,5-Trichlorophenol	<0.094		0.41	0.094	mg/Kg	☼	10/20/18 01:56	10/23/18 19:59	1
2,4,6-Trichlorophenol	<0.14		0.41	0.14	mg/Kg	☼	10/20/18 01:56	10/23/18 19:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	81		43 - 145	10/20/18 01:56	10/23/18 19:59	1
2-Fluorophenol	116		31 - 166	10/20/18 01:56	10/23/18 19:59	1
Nitrobenzene-d5	75		37 - 147	10/20/18 01:56	10/23/18 19:59	1
Phenol-d5	111		30 - 153	10/20/18 01:56	10/23/18 19:59	1
Terphenyl-d14	98		42 - 157	10/20/18 01:56	10/23/18 19:59	1
2,4,6-Tribromophenol	64		31 - 143	10/20/18 01:56	10/23/18 19:59	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.31	J	1.2	0.23	mg/Kg	☼	10/23/18 08:25	10/24/18 01:28	1
Arsenic	14		0.59	0.20	mg/Kg	☼	10/23/18 08:25	10/24/18 01:28	1
Barium	74		0.59	0.067	mg/Kg	☼	10/23/18 08:25	10/24/18 01:28	1
Beryllium	0.72		0.24	0.055	mg/Kg	☼	10/23/18 08:25	10/24/18 01:28	1
Cadmium	0.39	B	0.12	0.021	mg/Kg	☼	10/23/18 08:25	10/24/18 01:28	1
Chromium	19		0.59	0.29	mg/Kg	☼	10/23/18 08:25	10/24/18 01:28	1
Cobalt	12		0.29	0.077	mg/Kg	☼	10/23/18 08:25	10/24/18 01:28	1
Copper	30	B	0.59	0.16	mg/Kg	☼	10/23/18 08:25	10/24/18 01:28	1
Iron	27000	B	12	6.1	mg/Kg	☼	10/23/18 08:25	10/24/18 01:28	1
Lead	52		0.29	0.14	mg/Kg	☼	10/23/18 08:25	10/24/18 01:28	1
Magnesium	9800		5.9	2.9	mg/Kg	☼	10/23/18 08:25	10/24/18 01:28	1
Calcium	15000		12	2.0	mg/Kg	☼	10/23/18 08:25	10/24/18 01:28	1
Manganese	780	B	0.59	0.085	mg/Kg	☼	10/23/18 08:25	10/24/18 01:28	1
Nickel	35		0.59	0.17	mg/Kg	☼	10/23/18 08:25	10/24/18 01:28	1
Selenium	<0.35		0.59	0.35	mg/Kg	☼	10/23/18 08:25	10/24/18 01:28	1
Silver	0.35		0.29	0.076	mg/Kg	☼	10/23/18 08:25	10/24/18 01:28	1
Thallium	0.42	J	0.59	0.29	mg/Kg	☼	10/23/18 08:25	10/24/18 01:28	1
Vanadium	23		0.29	0.069	mg/Kg	☼	10/23/18 08:25	10/24/18 01:28	1
Zinc	140		1.2	0.52	mg/Kg	☼	10/23/18 08:25	10/24/18 01:28	1
Potassium	1600		29	10	mg/Kg	☼	10/23/18 08:25	10/24/18 01:28	1
Sodium	980		59	8.7	mg/Kg	☼	10/23/18 08:25	10/24/18 01:28	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		10/24/18 09:14	10/24/18 23:40	1
Barium	0.45	J	0.50	0.050	mg/L		10/24/18 09:14	10/24/18 23:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/24/18 09:14	10/24/18 23:40	1
Cadmium	0.0046	J	0.0050	0.0020	mg/L		10/24/18 09:14	10/24/18 23:40	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B13 (0-5)

Lab Sample ID: 500-153234-8

Date Collected: 10/16/18 11:15

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 79.6

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		10/24/18 09:14	10/24/18 23:40	1
Chromium	0.022	J B	0.025	0.010	mg/L		10/24/18 09:14	10/24/18 23:40	1
Cobalt	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/24/18 23:40	1
Copper	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/25/18 10:47	1
Iron	0.27	J	0.40	0.20	mg/L		10/24/18 09:14	10/24/18 23:40	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/24/18 09:14	10/24/18 23:40	1
Magnesium	130		2.5	0.50	mg/L		10/24/18 09:14	10/24/18 23:40	1
Manganese	5.6		0.025	0.010	mg/L		10/24/18 09:14	10/24/18 23:40	1
Nickel	0.022	J	0.025	0.010	mg/L		10/24/18 09:14	10/24/18 23:40	1
Potassium	1.2	J	2.5	0.50	mg/L		10/24/18 09:14	10/24/18 23:40	1
Selenium	<0.020		0.050	0.020	mg/L		10/24/18 09:14	10/24/18 23:40	1
Silver	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/24/18 23:40	1
Vanadium	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/24/18 23:40	1
Zinc	0.45	J B	0.50	0.020	mg/L		10/24/18 09:14	10/24/18 23:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.5		0.025	0.010	mg/L		10/24/18 15:28	10/25/18 11:51	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		10/24/18 09:14	10/25/18 13:17	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/24/18 09:14	10/25/18 05:19	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		10/24/18 11:25	10/25/18 08:23	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.039	B	0.019	0.0065	mg/Kg	☼	10/23/18 15:50	10/24/18 09:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.18		0.51	0.18	mg/Kg	☼	10/25/18 13:30	10/25/18 18:45	1
pH	8.7		0.2	0.2	SU			10/23/18 15:38	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B12 (0-5)

Lab Sample ID: 500-153234-9

Date Collected: 10/16/18 11:35

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 84.6

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	☼	10/17/18 18:00	10/25/18 07:13	1
Benzene	<0.00046		0.0018	0.00046	mg/Kg	☼	10/17/18 18:00	10/25/18 07:13	1
Bromodichloromethane	<0.00037		0.0018	0.00037	mg/Kg	☼	10/17/18 18:00	10/25/18 07:13	1
Bromoform	<0.00053		0.0018	0.00053	mg/Kg	☼	10/17/18 18:00	10/25/18 07:13	1
Bromomethane	<0.0017	*	0.0045	0.0017	mg/Kg	☼	10/17/18 18:00	10/25/18 07:13	1
2-Butanone (MEK)	<0.0020		0.0045	0.0020	mg/Kg	☼	10/17/18 18:00	10/25/18 07:13	1
Carbon disulfide	<0.00094		0.0045	0.00094	mg/Kg	☼	10/17/18 18:00	10/25/18 07:13	1
Carbon tetrachloride	<0.00052		0.0018	0.00052	mg/Kg	☼	10/17/18 18:00	10/25/18 07:13	1
Chlorobenzene	<0.00067		0.0018	0.00067	mg/Kg	☼	10/17/18 18:00	10/25/18 07:13	1
Chloroethane	<0.0013	*	0.0045	0.0013	mg/Kg	☼	10/17/18 18:00	10/25/18 07:13	1
Chloroform	<0.00063		0.0018	0.00063	mg/Kg	☼	10/17/18 18:00	10/25/18 07:13	1
Chloromethane	<0.0018		0.0045	0.0018	mg/Kg	☼	10/17/18 18:00	10/25/18 07:13	1
cis-1,2-Dichloroethene	<0.00050		0.0018	0.00050	mg/Kg	☼	10/17/18 18:00	10/25/18 07:13	1
cis-1,3-Dichloropropene	<0.00054		0.0018	0.00054	mg/Kg	☼	10/17/18 18:00	10/25/18 07:13	1
Dibromochloromethane	<0.00059		0.0018	0.00059	mg/Kg	☼	10/17/18 18:00	10/25/18 07:13	1
1,1-Dichloroethane	<0.00062		0.0018	0.00062	mg/Kg	☼	10/17/18 18:00	10/25/18 07:13	1
1,2-Dichloroethane	<0.0014		0.0045	0.0014	mg/Kg	☼	10/17/18 18:00	10/25/18 07:13	1
1,1-Dichloroethene	<0.00062		0.0018	0.00062	mg/Kg	☼	10/17/18 18:00	10/25/18 07:13	1
1,2-Dichloropropane	<0.00047		0.0018	0.00047	mg/Kg	☼	10/17/18 18:00	10/25/18 07:13	1
1,3-Dichloropropane, Total	<0.00063		0.0018	0.00063	mg/Kg	☼	10/17/18 18:00	10/25/18 07:13	1
Ethylbenzene	<0.00086		0.0018	0.00086	mg/Kg	☼	10/17/18 18:00	10/25/18 07:13	1
2-Hexanone	<0.0014		0.0045	0.0014	mg/Kg	☼	10/17/18 18:00	10/25/18 07:13	1
Methylene Chloride	<0.0018		0.0045	0.0018	mg/Kg	☼	10/17/18 18:00	10/25/18 07:13	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0045	0.0013	mg/Kg	☼	10/17/18 18:00	10/25/18 07:13	1
Methyl tert-butyl ether	<0.00053		0.0018	0.00053	mg/Kg	☼	10/17/18 18:00	10/25/18 07:13	1
Styrene	<0.00054		0.0018	0.00054	mg/Kg	☼	10/17/18 18:00	10/25/18 07:13	1
1,1,2,2-Tetrachloroethane	<0.00058		0.0018	0.00058	mg/Kg	☼	10/17/18 18:00	10/25/18 07:13	1
Tetrachloroethene	<0.00061		0.0018	0.00061	mg/Kg	☼	10/17/18 18:00	10/25/18 07:13	1
Toluene	<0.00046		0.0018	0.00046	mg/Kg	☼	10/17/18 18:00	10/25/18 07:13	1
trans-1,2-Dichloroethene	<0.00080		0.0018	0.00080	mg/Kg	☼	10/17/18 18:00	10/25/18 07:13	1
trans-1,3-Dichloropropene	<0.00063		0.0018	0.00063	mg/Kg	☼	10/17/18 18:00	10/25/18 07:13	1
1,1,1-Trichloroethane	<0.00061		0.0018	0.00061	mg/Kg	☼	10/17/18 18:00	10/25/18 07:13	1
1,1,2-Trichloroethane	<0.00077		0.0018	0.00077	mg/Kg	☼	10/17/18 18:00	10/25/18 07:13	1
Trichloroethene	<0.00061		0.0018	0.00061	mg/Kg	☼	10/17/18 18:00	10/25/18 07:13	1
Vinyl acetate	<0.0016		0.0045	0.0016	mg/Kg	☼	10/17/18 18:00	10/25/18 07:13	1
Vinyl chloride	<0.00080		0.0018	0.00080	mg/Kg	☼	10/17/18 18:00	10/25/18 07:13	1
Xylenes, Total	<0.00058		0.0036	0.00058	mg/Kg	☼	10/17/18 18:00	10/25/18 07:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		75 - 131	10/17/18 18:00	10/25/18 07:13	1
Dibromofluoromethane	96		75 - 126	10/17/18 18:00	10/25/18 07:13	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	10/17/18 18:00	10/25/18 07:13	1
Toluene-d8 (Surr)	91		75 - 124	10/17/18 18:00	10/25/18 07:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.014	J	0.037	0.0067	mg/Kg	☼	10/20/18 01:56	10/23/18 20:26	1
Acenaphthylene	0.027	J	0.037	0.0049	mg/Kg	☼	10/20/18 01:56	10/23/18 20:26	1
Anthracene	0.057		0.037	0.0063	mg/Kg	☼	10/20/18 01:56	10/23/18 20:26	1
Benzo[a]anthracene	0.35		0.037	0.0050	mg/Kg	☼	10/20/18 01:56	10/23/18 20:26	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B12 (0-5)

Lab Sample ID: 500-153234-9

Date Collected: 10/16/18 11:35

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.42		0.037	0.0073	mg/Kg	☼	10/20/18 01:56	10/23/18 20:26	1
Benzo[b]fluoranthene	0.81		0.037	0.0081	mg/Kg	☼	10/20/18 01:56	10/23/18 20:26	1
Benzo[g,h,i]perylene	0.25		0.037	0.012	mg/Kg	☼	10/20/18 01:56	10/23/18 20:26	1
Benzo[k]fluoranthene	0.32		0.037	0.011	mg/Kg	☼	10/20/18 01:56	10/23/18 20:26	1
Bis(2-chloroethoxy)methane	<0.038		0.19	0.038	mg/Kg	☼	10/20/18 01:56	10/23/18 20:26	1
Bis(2-chloroethyl)ether	<0.056		0.19	0.056	mg/Kg	☼	10/20/18 01:56	10/23/18 20:26	1
Bis(2-ethylhexyl) phthalate	<0.068		0.19	0.068	mg/Kg	☼	10/20/18 01:56	10/23/18 20:26	1
4-Bromophenyl phenyl ether	<0.049		0.19	0.049	mg/Kg	☼	10/20/18 01:56	10/23/18 20:26	1
Butyl benzyl phthalate	<0.071		0.19	0.071	mg/Kg	☼	10/20/18 01:56	10/23/18 20:26	1
Carbazole	<0.094		0.19	0.094	mg/Kg	☼	10/20/18 01:56	10/23/18 20:26	1
4-Chloroaniline	<0.18		0.76	0.18	mg/Kg	☼	10/20/18 01:56	10/23/18 20:26	1
4-Chloro-3-methylphenol	<0.13		0.37	0.13	mg/Kg	☼	10/20/18 01:56	10/23/18 20:26	1
2-Chloronaphthalene	<0.041		0.19	0.041	mg/Kg	☼	10/20/18 01:56	10/23/18 20:26	1
2-Chlorophenol	<0.064		0.19	0.064	mg/Kg	☼	10/20/18 01:56	10/23/18 20:26	1
4-Chlorophenyl phenyl ether	<0.044		0.19	0.044	mg/Kg	☼	10/20/18 01:56	10/23/18 20:26	1
Chrysene	0.49		0.037	0.010	mg/Kg	☼	10/20/18 01:56	10/23/18 20:26	1
Dibenz(a,h)anthracene	0.063		0.037	0.0072	mg/Kg	☼	10/20/18 01:56	10/23/18 20:26	1
Dibenzofuran	<0.044		0.19	0.044	mg/Kg	☼	10/20/18 01:56	10/23/18 20:26	1
1,2-Dichlorobenzene	<0.045		0.19	0.045	mg/Kg	☼	10/20/18 01:56	10/23/18 20:26	1
1,3-Dichlorobenzene	<0.042		0.19	0.042	mg/Kg	☼	10/20/18 01:56	10/23/18 20:26	1
1,4-Dichlorobenzene	<0.048		0.19	0.048	mg/Kg	☼	10/20/18 01:56	10/23/18 20:26	1
3,3'-Dichlorobenzidine	<0.052		0.19	0.052	mg/Kg	☼	10/20/18 01:56	10/23/18 20:26	1
2,4-Dichlorophenol	<0.089		0.37	0.089	mg/Kg	☼	10/20/18 01:56	10/23/18 20:26	1
Diethyl phthalate	<0.064		0.19	0.064	mg/Kg	☼	10/20/18 01:56	10/23/18 20:26	1
2,4-Dimethylphenol	<0.14		0.37	0.14	mg/Kg	☼	10/20/18 01:56	10/23/18 20:26	1
Dimethyl phthalate	<0.049		0.19	0.049	mg/Kg	☼	10/20/18 01:56	10/23/18 20:26	1
Di-n-butyl phthalate	<0.057		0.19	0.057	mg/Kg	☼	10/20/18 01:56	10/23/18 20:26	1
4,6-Dinitro-2-methylphenol	<0.30		0.76	0.30	mg/Kg	☼	10/20/18 01:56	10/23/18 20:26	1
2,4-Dinitrophenol	<0.66		0.76	0.66	mg/Kg	☼	10/20/18 01:56	10/23/18 20:26	1
2,4-Dinitrotoluene	<0.060		0.19	0.060	mg/Kg	☼	10/20/18 01:56	10/23/18 20:26	1
2,6-Dinitrotoluene	<0.074		0.19	0.074	mg/Kg	☼	10/20/18 01:56	10/23/18 20:26	1
Di-n-octyl phthalate	<0.061		0.19	0.061	mg/Kg	☼	10/20/18 01:56	10/23/18 20:26	1
Fluoranthene	0.81		0.037	0.0070	mg/Kg	☼	10/20/18 01:56	10/23/18 20:26	1
Fluorene	0.013 J		0.037	0.0053	mg/Kg	☼	10/20/18 01:56	10/23/18 20:26	1
Hexachlorobenzene	<0.0087		0.076	0.0087	mg/Kg	☼	10/20/18 01:56	10/23/18 20:26	1
Hexachlorobutadiene	<0.059		0.19	0.059	mg/Kg	☼	10/20/18 01:56	10/23/18 20:26	1
Hexachlorocyclopentadiene	<0.22		0.76	0.22	mg/Kg	☼	10/20/18 01:56	10/23/18 20:26	1
Hexachloroethane	<0.057		0.19	0.057	mg/Kg	☼	10/20/18 01:56	10/23/18 20:26	1
Indeno[1,2,3-cd]pyrene	0.24		0.037	0.0097	mg/Kg	☼	10/20/18 01:56	10/23/18 20:26	1
Isophorone	<0.042		0.19	0.042	mg/Kg	☼	10/20/18 01:56	10/23/18 20:26	1
2-Methylnaphthalene	<0.0069		0.076	0.0069	mg/Kg	☼	10/20/18 01:56	10/23/18 20:26	1
2-Methylphenol	<0.060		0.19	0.060	mg/Kg	☼	10/20/18 01:56	10/23/18 20:26	1
3 & 4 Methylphenol	<0.063		0.19	0.063	mg/Kg	☼	10/20/18 01:56	10/23/18 20:26	1
Naphthalene	0.0061 J		0.037	0.0058	mg/Kg	☼	10/20/18 01:56	10/23/18 20:26	1
2-Nitroaniline	<0.050		0.19	0.050	mg/Kg	☼	10/20/18 01:56	10/23/18 20:26	1
3-Nitroaniline	<0.12		0.37	0.12	mg/Kg	☼	10/20/18 01:56	10/23/18 20:26	1
4-Nitroaniline	<0.16		0.37	0.16	mg/Kg	☼	10/20/18 01:56	10/23/18 20:26	1
Nitrobenzene	<0.0094		0.037	0.0094	mg/Kg	☼	10/20/18 01:56	10/23/18 20:26	1
2-Nitrophenol	<0.089		0.37	0.089	mg/Kg	☼	10/20/18 01:56	10/23/18 20:26	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B12 (0-5)

Lab Sample ID: 500-153234-9

Date Collected: 10/16/18 11:35

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.36		0.76	0.36	mg/Kg	☼	10/20/18 01:56	10/23/18 20:26	1
N-Nitrosodi-n-propylamine	<0.046		0.076	0.046	mg/Kg	☼	10/20/18 01:56	10/23/18 20:26	1
N-Nitrosodiphenylamine	<0.044		0.19	0.044	mg/Kg	☼	10/20/18 01:56	10/23/18 20:26	1
2,2'-oxybis[1-chloropropane]	<0.043		0.19	0.043	mg/Kg	☼	10/20/18 01:56	10/23/18 20:26	1
Pentachlorophenol	<0.60		0.76	0.60	mg/Kg	☼	10/20/18 01:56	10/23/18 20:26	1
Phenanthrene	0.26		0.037	0.0052	mg/Kg	☼	10/20/18 01:56	10/23/18 20:26	1
Phenol	<0.083		0.19	0.083	mg/Kg	☼	10/20/18 01:56	10/23/18 20:26	1
Pyrene	0.65		0.037	0.0074	mg/Kg	☼	10/20/18 01:56	10/23/18 20:26	1
1,2,4-Trichlorobenzene	<0.040		0.19	0.040	mg/Kg	☼	10/20/18 01:56	10/23/18 20:26	1
2,4,5-Trichlorophenol	<0.086		0.37	0.086	mg/Kg	☼	10/20/18 01:56	10/23/18 20:26	1
2,4,6-Trichlorophenol	<0.13		0.37	0.13	mg/Kg	☼	10/20/18 01:56	10/23/18 20:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	84		43 - 145	10/20/18 01:56	10/23/18 20:26	1
2-Fluorophenol	111		31 - 166	10/20/18 01:56	10/23/18 20:26	1
Nitrobenzene-d5	76		37 - 147	10/20/18 01:56	10/23/18 20:26	1
Phenol-d5	104		30 - 153	10/20/18 01:56	10/23/18 20:26	1
Terphenyl-d14	90		42 - 157	10/20/18 01:56	10/23/18 20:26	1
2,4,6-Tribromophenol	76		31 - 143	10/20/18 01:56	10/23/18 20:26	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.50	J	1.1	0.21	mg/Kg	☼	10/23/18 08:25	10/24/18 01:32	1
Arsenic	8.0		0.55	0.19	mg/Kg	☼	10/23/18 08:25	10/24/18 01:32	1
Barium	73		0.55	0.062	mg/Kg	☼	10/23/18 08:25	10/24/18 01:32	1
Beryllium	0.51		0.22	0.051	mg/Kg	☼	10/23/18 08:25	10/24/18 01:32	1
Cadmium	0.34	B	0.11	0.020	mg/Kg	☼	10/23/18 08:25	10/24/18 01:32	1
Chromium	16		0.55	0.27	mg/Kg	☼	10/23/18 08:25	10/24/18 01:32	1
Cobalt	6.6		0.27	0.072	mg/Kg	☼	10/23/18 08:25	10/24/18 01:32	1
Copper	22	B	0.55	0.15	mg/Kg	☼	10/23/18 08:25	10/24/18 01:32	1
Iron	15000	B	11	5.7	mg/Kg	☼	10/23/18 08:25	10/24/18 01:32	1
Lead	34		0.27	0.13	mg/Kg	☼	10/23/18 08:25	10/24/18 01:32	1
Magnesium	48000		5.5	2.7	mg/Kg	☼	10/23/18 08:25	10/24/18 01:32	1
Calcium	110000		55	9.3	mg/Kg	☼	10/23/18 08:25	10/24/18 10:27	5
Manganese	440	B	0.55	0.079	mg/Kg	☼	10/23/18 08:25	10/24/18 01:32	1
Nickel	17		0.55	0.16	mg/Kg	☼	10/23/18 08:25	10/24/18 01:32	1
Selenium	0.36	J	0.55	0.32	mg/Kg	☼	10/23/18 08:25	10/24/18 01:32	1
Silver	0.21	J	0.27	0.070	mg/Kg	☼	10/23/18 08:25	10/24/18 01:32	1
Thallium	<0.27		0.55	0.27	mg/Kg	☼	10/23/18 08:25	10/24/18 01:32	1
Vanadium	19		0.27	0.064	mg/Kg	☼	10/23/18 08:25	10/24/18 01:32	1
Zinc	98		1.1	0.48	mg/Kg	☼	10/23/18 08:25	10/24/18 01:32	1
Potassium	1500		27	9.7	mg/Kg	☼	10/23/18 08:25	10/24/18 01:32	1
Sodium	540		55	8.1	mg/Kg	☼	10/23/18 08:25	10/24/18 01:32	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		10/24/18 09:14	10/24/18 23:52	1
Barium	0.49	J	0.50	0.050	mg/L		10/24/18 09:14	10/24/18 23:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/24/18 09:14	10/24/18 23:52	1
Cadmium	0.0040	J	0.0050	0.0020	mg/L		10/24/18 09:14	10/24/18 23:52	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B12 (0-5)

Lab Sample ID: 500-153234-9

Date Collected: 10/16/18 11:35

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 84.6

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		10/24/18 09:14	10/24/18 23:52	1
Chromium	0.023	J B	0.025	0.010	mg/L		10/24/18 09:14	10/24/18 23:52	1
Cobalt	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/24/18 23:52	1
Copper	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/25/18 10:51	1
Iron	<0.20		0.40	0.20	mg/L		10/24/18 09:14	10/24/18 23:52	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/24/18 09:14	10/24/18 23:52	1
Magnesium	160		2.5	0.50	mg/L		10/24/18 09:14	10/24/18 23:52	1
Manganese	0.40		0.025	0.010	mg/L		10/24/18 09:14	10/24/18 23:52	1
Nickel	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/24/18 23:52	1
Potassium	0.88	J	2.5	0.50	mg/L		10/24/18 09:14	10/24/18 23:52	1
Selenium	<0.020		0.050	0.020	mg/L		10/24/18 09:14	10/24/18 23:52	1
Silver	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/24/18 23:52	1
Vanadium	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/24/18 23:52	1
Zinc	0.083	J B	0.50	0.020	mg/L		10/24/18 09:14	10/24/18 23:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.77		0.025	0.010	mg/L		10/24/18 15:28	10/25/18 11:55	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		10/24/18 09:14	10/25/18 13:18	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/24/18 09:14	10/25/18 05:30	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		10/24/18 11:25	10/25/18 08:25	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024	B	0.018	0.0058	mg/Kg	☼	10/23/18 15:50	10/24/18 09:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.18		0.52	0.18	mg/Kg	☼	10/25/18 13:30	10/25/18 18:45	1
pH	8.6		0.2	0.2	SU			10/23/18 15:41	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B12 (0-5) Dup

Lab Sample ID: 500-153234-10

Date Collected: 10/16/18 11:40

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0093		0.021	0.0093	mg/Kg	☼	10/17/18 18:00	10/25/18 07:38	1
Benzene	<0.00054		0.0021	0.00054	mg/Kg	☼	10/17/18 18:00	10/25/18 07:38	1
Bromodichloromethane	<0.00043		0.0021	0.00043	mg/Kg	☼	10/17/18 18:00	10/25/18 07:38	1
Bromoform	<0.00062		0.0021	0.00062	mg/Kg	☼	10/17/18 18:00	10/25/18 07:38	1
Bromomethane	<0.0020	*	0.0053	0.0020	mg/Kg	☼	10/17/18 18:00	10/25/18 07:38	1
2-Butanone (MEK)	<0.0024		0.0053	0.0024	mg/Kg	☼	10/17/18 18:00	10/25/18 07:38	1
Carbon disulfide	<0.0011		0.0053	0.0011	mg/Kg	☼	10/17/18 18:00	10/25/18 07:38	1
Carbon tetrachloride	<0.00062		0.0021	0.00062	mg/Kg	☼	10/17/18 18:00	10/25/18 07:38	1
Chlorobenzene	<0.00078		0.0021	0.00078	mg/Kg	☼	10/17/18 18:00	10/25/18 07:38	1
Chloroethane	<0.0016	*	0.0053	0.0016	mg/Kg	☼	10/17/18 18:00	10/25/18 07:38	1
Chloroform	<0.00074		0.0021	0.00074	mg/Kg	☼	10/17/18 18:00	10/25/18 07:38	1
Chloromethane	<0.0021		0.0053	0.0021	mg/Kg	☼	10/17/18 18:00	10/25/18 07:38	1
cis-1,2-Dichloroethene	<0.00059		0.0021	0.00059	mg/Kg	☼	10/17/18 18:00	10/25/18 07:38	1
cis-1,3-Dichloropropene	<0.00064		0.0021	0.00064	mg/Kg	☼	10/17/18 18:00	10/25/18 07:38	1
Dibromochloromethane	<0.00070		0.0021	0.00070	mg/Kg	☼	10/17/18 18:00	10/25/18 07:38	1
1,1-Dichloroethane	<0.00073		0.0021	0.00073	mg/Kg	☼	10/17/18 18:00	10/25/18 07:38	1
1,2-Dichloroethane	<0.0017		0.0053	0.0017	mg/Kg	☼	10/17/18 18:00	10/25/18 07:38	1
1,1-Dichloroethene	<0.00073		0.0021	0.00073	mg/Kg	☼	10/17/18 18:00	10/25/18 07:38	1
1,2-Dichloropropane	<0.00055		0.0021	0.00055	mg/Kg	☼	10/17/18 18:00	10/25/18 07:38	1
1,3-Dichloropropane, Total	<0.00075		0.0021	0.00075	mg/Kg	☼	10/17/18 18:00	10/25/18 07:38	1
Ethylbenzene	<0.0010		0.0021	0.0010	mg/Kg	☼	10/17/18 18:00	10/25/18 07:38	1
2-Hexanone	<0.0017		0.0053	0.0017	mg/Kg	☼	10/17/18 18:00	10/25/18 07:38	1
Methylene Chloride	<0.0021		0.0053	0.0021	mg/Kg	☼	10/17/18 18:00	10/25/18 07:38	1
4-Methyl-2-pentanone (MIBK)	<0.0016		0.0053	0.0016	mg/Kg	☼	10/17/18 18:00	10/25/18 07:38	1
Methyl tert-butyl ether	<0.00062		0.0021	0.00062	mg/Kg	☼	10/17/18 18:00	10/25/18 07:38	1
Styrene	<0.00064		0.0021	0.00064	mg/Kg	☼	10/17/18 18:00	10/25/18 07:38	1
1,1,2,2-Tetrachloroethane	<0.00068		0.0021	0.00068	mg/Kg	☼	10/17/18 18:00	10/25/18 07:38	1
Tetrachloroethene	<0.00072		0.0021	0.00072	mg/Kg	☼	10/17/18 18:00	10/25/18 07:38	1
Toluene	<0.00054		0.0021	0.00054	mg/Kg	☼	10/17/18 18:00	10/25/18 07:38	1
trans-1,2-Dichloroethene	<0.00094		0.0021	0.00094	mg/Kg	☼	10/17/18 18:00	10/25/18 07:38	1
trans-1,3-Dichloropropene	<0.00075		0.0021	0.00075	mg/Kg	☼	10/17/18 18:00	10/25/18 07:38	1
1,1,1-Trichloroethane	<0.00071		0.0021	0.00071	mg/Kg	☼	10/17/18 18:00	10/25/18 07:38	1
1,1,2-Trichloroethane	<0.00091		0.0021	0.00091	mg/Kg	☼	10/17/18 18:00	10/25/18 07:38	1
Trichloroethene	<0.00072		0.0021	0.00072	mg/Kg	☼	10/17/18 18:00	10/25/18 07:38	1
Vinyl acetate	<0.0018		0.0053	0.0018	mg/Kg	☼	10/17/18 18:00	10/25/18 07:38	1
Vinyl chloride	<0.00094		0.0021	0.00094	mg/Kg	☼	10/17/18 18:00	10/25/18 07:38	1
Xylenes, Total	<0.00068		0.0043	0.00068	mg/Kg	☼	10/17/18 18:00	10/25/18 07:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		75 - 131	10/17/18 18:00	10/25/18 07:38	1
Dibromofluoromethane	95		75 - 126	10/17/18 18:00	10/25/18 07:38	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	10/17/18 18:00	10/25/18 07:38	1
Toluene-d8 (Surr)	89		75 - 124	10/17/18 18:00	10/25/18 07:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.024	J	0.038	0.0069	mg/Kg	☼	10/20/18 01:56	10/23/18 20:53	1
Acenaphthylene	0.043		0.038	0.0051	mg/Kg	☼	10/20/18 01:56	10/23/18 20:53	1
Anthracene	0.094		0.038	0.0064	mg/Kg	☼	10/20/18 01:56	10/23/18 20:53	1
Benzo[a]anthracene	0.53		0.038	0.0052	mg/Kg	☼	10/20/18 01:56	10/23/18 20:53	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B12 (0-5) Dup

Lab Sample ID: 500-153234-10

Date Collected: 10/16/18 11:40

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.63		0.038	0.0075	mg/Kg	☼	10/20/18 01:56	10/23/18 20:53	1
Benzo[b]fluoranthene	1.3		0.038	0.0083	mg/Kg	☼	10/20/18 01:56	10/23/18 20:53	1
Benzo[g,h,i]perylene	0.37		0.038	0.012	mg/Kg	☼	10/20/18 01:56	10/23/18 20:53	1
Benzo[k]fluoranthene	0.52		0.038	0.011	mg/Kg	☼	10/20/18 01:56	10/23/18 20:53	1
Bis(2-chloroethoxy)methane	<0.039		0.19	0.039	mg/Kg	☼	10/20/18 01:56	10/23/18 20:53	1
Bis(2-chloroethyl)ether	<0.058		0.19	0.058	mg/Kg	☼	10/20/18 01:56	10/23/18 20:53	1
Bis(2-ethylhexyl) phthalate	0.097	J	0.19	0.070	mg/Kg	☼	10/20/18 01:56	10/23/18 20:53	1
4-Bromophenyl phenyl ether	<0.051		0.19	0.051	mg/Kg	☼	10/20/18 01:56	10/23/18 20:53	1
Butyl benzyl phthalate	<0.073		0.19	0.073	mg/Kg	☼	10/20/18 01:56	10/23/18 20:53	1
Carbazole	<0.096		0.19	0.096	mg/Kg	☼	10/20/18 01:56	10/23/18 20:53	1
4-Chloroaniline	<0.18		0.78	0.18	mg/Kg	☼	10/20/18 01:56	10/23/18 20:53	1
4-Chloro-3-methylphenol	<0.13		0.38	0.13	mg/Kg	☼	10/20/18 01:56	10/23/18 20:53	1
2-Chloronaphthalene	<0.043		0.19	0.043	mg/Kg	☼	10/20/18 01:56	10/23/18 20:53	1
2-Chlorophenol	<0.066		0.19	0.066	mg/Kg	☼	10/20/18 01:56	10/23/18 20:53	1
4-Chlorophenyl phenyl ether	<0.045		0.19	0.045	mg/Kg	☼	10/20/18 01:56	10/23/18 20:53	1
Chrysene	0.78		0.038	0.010	mg/Kg	☼	10/20/18 01:56	10/23/18 20:53	1
Dibenz(a,h)anthracene	0.085		0.038	0.0074	mg/Kg	☼	10/20/18 01:56	10/23/18 20:53	1
Dibenzofuran	<0.045		0.19	0.045	mg/Kg	☼	10/20/18 01:56	10/23/18 20:53	1
1,2-Dichlorobenzene	<0.046		0.19	0.046	mg/Kg	☼	10/20/18 01:56	10/23/18 20:53	1
1,3-Dichlorobenzene	<0.043		0.19	0.043	mg/Kg	☼	10/20/18 01:56	10/23/18 20:53	1
1,4-Dichlorobenzene	<0.049		0.19	0.049	mg/Kg	☼	10/20/18 01:56	10/23/18 20:53	1
3,3'-Dichlorobenzidine	<0.054		0.19	0.054	mg/Kg	☼	10/20/18 01:56	10/23/18 20:53	1
2,4-Dichlorophenol	<0.091		0.38	0.091	mg/Kg	☼	10/20/18 01:56	10/23/18 20:53	1
Diethyl phthalate	<0.065		0.19	0.065	mg/Kg	☼	10/20/18 01:56	10/23/18 20:53	1
2,4-Dimethylphenol	<0.15		0.38	0.15	mg/Kg	☼	10/20/18 01:56	10/23/18 20:53	1
Dimethyl phthalate	<0.050		0.19	0.050	mg/Kg	☼	10/20/18 01:56	10/23/18 20:53	1
Di-n-butyl phthalate	<0.059		0.19	0.059	mg/Kg	☼	10/20/18 01:56	10/23/18 20:53	1
4,6-Dinitro-2-methylphenol	<0.31		0.78	0.31	mg/Kg	☼	10/20/18 01:56	10/23/18 20:53	1
2,4-Dinitrophenol	<0.68		0.78	0.68	mg/Kg	☼	10/20/18 01:56	10/23/18 20:53	1
2,4-Dinitrotoluene	<0.061		0.19	0.061	mg/Kg	☼	10/20/18 01:56	10/23/18 20:53	1
2,6-Dinitrotoluene	<0.076		0.19	0.076	mg/Kg	☼	10/20/18 01:56	10/23/18 20:53	1
Di-n-octyl phthalate	<0.063		0.19	0.063	mg/Kg	☼	10/20/18 01:56	10/23/18 20:53	1
Fluoranthene	1.2		0.038	0.0071	mg/Kg	☼	10/20/18 01:56	10/23/18 20:53	1
Fluorene	0.022	J	0.038	0.0054	mg/Kg	☼	10/20/18 01:56	10/23/18 20:53	1
Hexachlorobenzene	<0.0089		0.078	0.0089	mg/Kg	☼	10/20/18 01:56	10/23/18 20:53	1
Hexachlorobutadiene	<0.060		0.19	0.060	mg/Kg	☼	10/20/18 01:56	10/23/18 20:53	1
Hexachlorocyclopentadiene	<0.22		0.78	0.22	mg/Kg	☼	10/20/18 01:56	10/23/18 20:53	1
Hexachloroethane	<0.059		0.19	0.059	mg/Kg	☼	10/20/18 01:56	10/23/18 20:53	1
Indeno[1,2,3-cd]pyrene	0.34		0.038	0.010	mg/Kg	☼	10/20/18 01:56	10/23/18 20:53	1
Isophorone	<0.043		0.19	0.043	mg/Kg	☼	10/20/18 01:56	10/23/18 20:53	1
2-Methylnaphthalene	0.010	J	0.078	0.0071	mg/Kg	☼	10/20/18 01:56	10/23/18 20:53	1
2-Methylphenol	<0.062		0.19	0.062	mg/Kg	☼	10/20/18 01:56	10/23/18 20:53	1
3 & 4 Methylphenol	<0.064		0.19	0.064	mg/Kg	☼	10/20/18 01:56	10/23/18 20:53	1
Naphthalene	0.012	J	0.038	0.0059	mg/Kg	☼	10/20/18 01:56	10/23/18 20:53	1
2-Nitroaniline	<0.052		0.19	0.052	mg/Kg	☼	10/20/18 01:56	10/23/18 20:53	1
3-Nitroaniline	<0.12		0.38	0.12	mg/Kg	☼	10/20/18 01:56	10/23/18 20:53	1
4-Nitroaniline	<0.16		0.38	0.16	mg/Kg	☼	10/20/18 01:56	10/23/18 20:53	1
Nitrobenzene	<0.0096		0.038	0.0096	mg/Kg	☼	10/20/18 01:56	10/23/18 20:53	1
2-Nitrophenol	<0.091		0.38	0.091	mg/Kg	☼	10/20/18 01:56	10/23/18 20:53	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B12 (0-5) Dup

Lab Sample ID: 500-153234-10

Date Collected: 10/16/18 11:40

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.37		0.78	0.37	mg/Kg	☼	10/20/18 01:56	10/23/18 20:53	1
N-Nitrosodi-n-propylamine	<0.047		0.078	0.047	mg/Kg	☼	10/20/18 01:56	10/23/18 20:53	1
N-Nitrosodiphenylamine	<0.045		0.19	0.045	mg/Kg	☼	10/20/18 01:56	10/23/18 20:53	1
2,2'-oxybis[1-chloropropane]	<0.045		0.19	0.045	mg/Kg	☼	10/20/18 01:56	10/23/18 20:53	1
Pentachlorophenol	<0.62		0.78	0.62	mg/Kg	☼	10/20/18 01:56	10/23/18 20:53	1
Phenanthrene	0.41		0.038	0.0054	mg/Kg	☼	10/20/18 01:56	10/23/18 20:53	1
Phenol	<0.086		0.19	0.086	mg/Kg	☼	10/20/18 01:56	10/23/18 20:53	1
Pyrene	1.0		0.038	0.0076	mg/Kg	☼	10/20/18 01:56	10/23/18 20:53	1
1,2,4-Trichlorobenzene	<0.041		0.19	0.041	mg/Kg	☼	10/20/18 01:56	10/23/18 20:53	1
2,4,5-Trichlorophenol	<0.088		0.38	0.088	mg/Kg	☼	10/20/18 01:56	10/23/18 20:53	1
2,4,6-Trichlorophenol	<0.13		0.38	0.13	mg/Kg	☼	10/20/18 01:56	10/23/18 20:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	93		43 - 145	10/20/18 01:56	10/23/18 20:53	1
2-Fluorophenol	128		31 - 166	10/20/18 01:56	10/23/18 20:53	1
Nitrobenzene-d5	83		37 - 147	10/20/18 01:56	10/23/18 20:53	1
Phenol-d5	123		30 - 153	10/20/18 01:56	10/23/18 20:53	1
Terphenyl-d14	98		42 - 157	10/20/18 01:56	10/23/18 20:53	1
2,4,6-Tribromophenol	92		31 - 143	10/20/18 01:56	10/23/18 20:53	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	☼	10/23/18 08:25	10/24/18 01:36	1
Arsenic	9.9		0.56	0.19	mg/Kg	☼	10/23/18 08:25	10/24/18 01:36	1
Barium	84		0.56	0.064	mg/Kg	☼	10/23/18 08:25	10/24/18 01:36	1
Beryllium	0.55		0.22	0.052	mg/Kg	☼	10/23/18 08:25	10/24/18 01:36	1
Cadmium	0.40	B	0.11	0.020	mg/Kg	☼	10/23/18 08:25	10/24/18 01:36	1
Chromium	20		0.56	0.28	mg/Kg	☼	10/23/18 08:25	10/24/18 01:36	1
Cobalt	8.4		0.28	0.073	mg/Kg	☼	10/23/18 08:25	10/24/18 01:36	1
Copper	28	B	0.56	0.16	mg/Kg	☼	10/23/18 08:25	10/24/18 01:36	1
Iron	17000	B	11	5.8	mg/Kg	☼	10/23/18 08:25	10/24/18 01:36	1
Lead	42		0.28	0.13	mg/Kg	☼	10/23/18 08:25	10/24/18 01:36	1
Magnesium	43000		5.6	2.8	mg/Kg	☼	10/23/18 08:25	10/24/18 01:36	1
Calcium	96000		56	9.5	mg/Kg	☼	10/23/18 08:25	10/24/18 10:31	5
Manganese	590	B	0.56	0.081	mg/Kg	☼	10/23/18 08:25	10/24/18 01:36	1
Nickel	20		0.56	0.16	mg/Kg	☼	10/23/18 08:25	10/24/18 01:36	1
Selenium	<0.33		0.56	0.33	mg/Kg	☼	10/23/18 08:25	10/24/18 01:36	1
Silver	0.20	J	0.28	0.072	mg/Kg	☼	10/23/18 08:25	10/24/18 01:36	1
Thallium	<0.28		0.56	0.28	mg/Kg	☼	10/23/18 08:25	10/24/18 01:36	1
Vanadium	22		0.28	0.066	mg/Kg	☼	10/23/18 08:25	10/24/18 01:36	1
Zinc	120		1.1	0.49	mg/Kg	☼	10/23/18 08:25	10/24/18 01:36	1
Potassium	1500		28	9.9	mg/Kg	☼	10/23/18 08:25	10/24/18 01:36	1
Sodium	510		56	8.3	mg/Kg	☼	10/23/18 08:25	10/24/18 01:36	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		10/24/18 09:14	10/24/18 23:57	1
Barium	0.55		0.50	0.050	mg/L		10/24/18 09:14	10/24/18 23:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/24/18 09:14	10/24/18 23:57	1
Cadmium	0.0046	J	0.0050	0.0020	mg/L		10/24/18 09:14	10/24/18 23:57	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B12 (0-5) Dup

Lab Sample ID: 500-153234-10

Date Collected: 10/16/18 11:40

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 84.0

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		10/24/18 09:14	10/24/18 23:57	1
Chromium	0.020	J B	0.025	0.010	mg/L		10/24/18 09:14	10/24/18 23:57	1
Cobalt	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/24/18 23:57	1
Copper	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/25/18 10:55	1
Iron	0.23	J	0.40	0.20	mg/L		10/24/18 09:14	10/24/18 23:57	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/24/18 09:14	10/24/18 23:57	1
Magnesium	160		2.5	0.50	mg/L		10/24/18 09:14	10/24/18 23:57	1
Manganese	0.72		0.025	0.010	mg/L		10/24/18 09:14	10/24/18 23:57	1
Nickel	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/24/18 23:57	1
Potassium	0.89	J	2.5	0.50	mg/L		10/24/18 09:14	10/24/18 23:57	1
Selenium	<0.020		0.050	0.020	mg/L		10/24/18 09:14	10/24/18 23:57	1
Silver	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/24/18 23:57	1
Vanadium	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/24/18 23:57	1
Zinc	0.60	B	0.50	0.020	mg/L		10/24/18 09:14	10/24/18 23:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.74		0.025	0.010	mg/L		10/24/18 15:28	10/25/18 11:59	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		10/24/18 09:14	10/25/18 13:19	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/24/18 09:14	10/25/18 05:34	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		10/24/18 11:25	10/25/18 08:28	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028	B	0.018	0.0059	mg/Kg	☼	10/23/18 15:50	10/24/18 09:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.19		0.55	0.19	mg/Kg	☼	10/25/18 13:30	10/25/18 18:46	1
pH	8.6		0.2	0.2	SU			10/23/18 15:44	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B11 (0-5)

Lab Sample ID: 500-153234-11

Date Collected: 10/16/18 12:10

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 84.6

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	☼	10/17/18 18:00	10/25/18 08:03	1
Benzene	<0.00049		0.0019	0.00049	mg/Kg	☼	10/17/18 18:00	10/25/18 08:03	1
Bromodichloromethane	<0.00039		0.0019	0.00039	mg/Kg	☼	10/17/18 18:00	10/25/18 08:03	1
Bromoform	<0.00057		0.0019	0.00057	mg/Kg	☼	10/17/18 18:00	10/25/18 08:03	1
Bromomethane	<0.0018	*	0.0048	0.0018	mg/Kg	☼	10/17/18 18:00	10/25/18 08:03	1
2-Butanone (MEK)	<0.0022		0.0048	0.0022	mg/Kg	☼	10/17/18 18:00	10/25/18 08:03	1
Carbon disulfide	<0.0010		0.0048	0.0010	mg/Kg	☼	10/17/18 18:00	10/25/18 08:03	1
Carbon tetrachloride	<0.00056		0.0019	0.00056	mg/Kg	☼	10/17/18 18:00	10/25/18 08:03	1
Chlorobenzene	<0.00072		0.0019	0.00072	mg/Kg	☼	10/17/18 18:00	10/25/18 08:03	1
Chloroethane	<0.0014	*	0.0048	0.0014	mg/Kg	☼	10/17/18 18:00	10/25/18 08:03	1
Chloroform	<0.00067		0.0019	0.00067	mg/Kg	☼	10/17/18 18:00	10/25/18 08:03	1
Chloromethane	<0.0019		0.0048	0.0019	mg/Kg	☼	10/17/18 18:00	10/25/18 08:03	1
cis-1,2-Dichloroethene	<0.00054		0.0019	0.00054	mg/Kg	☼	10/17/18 18:00	10/25/18 08:03	1
cis-1,3-Dichloropropene	<0.00058		0.0019	0.00058	mg/Kg	☼	10/17/18 18:00	10/25/18 08:03	1
Dibromochloromethane	<0.00063		0.0019	0.00063	mg/Kg	☼	10/17/18 18:00	10/25/18 08:03	1
1,1-Dichloroethane	<0.00066		0.0019	0.00066	mg/Kg	☼	10/17/18 18:00	10/25/18 08:03	1
1,2-Dichloroethane	<0.0015		0.0048	0.0015	mg/Kg	☼	10/17/18 18:00	10/25/18 08:03	1
1,1-Dichloroethene	<0.00067		0.0019	0.00067	mg/Kg	☼	10/17/18 18:00	10/25/18 08:03	1
1,2-Dichloropropane	<0.00050		0.0019	0.00050	mg/Kg	☼	10/17/18 18:00	10/25/18 08:03	1
1,3-Dichloropropane, Total	<0.00068		0.0019	0.00068	mg/Kg	☼	10/17/18 18:00	10/25/18 08:03	1
Ethylbenzene	<0.00093		0.0019	0.00093	mg/Kg	☼	10/17/18 18:00	10/25/18 08:03	1
2-Hexanone	<0.0015		0.0048	0.0015	mg/Kg	☼	10/17/18 18:00	10/25/18 08:03	1
Methylene Chloride	<0.0019		0.0048	0.0019	mg/Kg	☼	10/17/18 18:00	10/25/18 08:03	1
4-Methyl-2-pentanone (MIBK)	<0.0014		0.0048	0.0014	mg/Kg	☼	10/17/18 18:00	10/25/18 08:03	1
Methyl tert-butyl ether	<0.00057		0.0019	0.00057	mg/Kg	☼	10/17/18 18:00	10/25/18 08:03	1
Styrene	<0.00059		0.0019	0.00059	mg/Kg	☼	10/17/18 18:00	10/25/18 08:03	1
1,1,2,2-Tetrachloroethane	<0.00062		0.0019	0.00062	mg/Kg	☼	10/17/18 18:00	10/25/18 08:03	1
Tetrachloroethene	<0.00066		0.0019	0.00066	mg/Kg	☼	10/17/18 18:00	10/25/18 08:03	1
Toluene	<0.00049		0.0019	0.00049	mg/Kg	☼	10/17/18 18:00	10/25/18 08:03	1
trans-1,2-Dichloroethene	<0.00086		0.0019	0.00086	mg/Kg	☼	10/17/18 18:00	10/25/18 08:03	1
trans-1,3-Dichloropropene	<0.00068		0.0019	0.00068	mg/Kg	☼	10/17/18 18:00	10/25/18 08:03	1
1,1,1-Trichloroethane	<0.00065		0.0019	0.00065	mg/Kg	☼	10/17/18 18:00	10/25/18 08:03	1
1,1,2-Trichloroethane	<0.00083		0.0019	0.00083	mg/Kg	☼	10/17/18 18:00	10/25/18 08:03	1
Trichloroethene	<0.00066		0.0019	0.00066	mg/Kg	☼	10/17/18 18:00	10/25/18 08:03	1
Vinyl acetate	<0.0017		0.0048	0.0017	mg/Kg	☼	10/17/18 18:00	10/25/18 08:03	1
Vinyl chloride	<0.00086		0.0019	0.00086	mg/Kg	☼	10/17/18 18:00	10/25/18 08:03	1
Xylenes, Total	<0.00062		0.0039	0.00062	mg/Kg	☼	10/17/18 18:00	10/25/18 08:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		75 - 131	10/17/18 18:00	10/25/18 08:03	1
Dibromofluoromethane	95		75 - 126	10/17/18 18:00	10/25/18 08:03	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	10/17/18 18:00	10/25/18 08:03	1
Toluene-d8 (Surr)	94		75 - 124	10/17/18 18:00	10/25/18 08:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.029	J	0.039	0.0070	mg/Kg	☼	10/20/18 01:56	10/23/18 21:19	1
Acenaphthylene	0.026	J	0.039	0.0052	mg/Kg	☼	10/20/18 01:56	10/23/18 21:19	1
Anthracene	0.10		0.039	0.0065	mg/Kg	☼	10/20/18 01:56	10/23/18 21:19	1
Benzo[a]anthracene	0.53		0.039	0.0053	mg/Kg	☼	10/20/18 01:56	10/23/18 21:19	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B11 (0-5)

Lab Sample ID: 500-153234-11

Date Collected: 10/16/18 12:10

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.53		0.039	0.0076	mg/Kg	☼	10/20/18 01:56	10/23/18 21:19	1
Benzo[b]fluoranthene	1.1		0.039	0.0084	mg/Kg	☼	10/20/18 01:56	10/23/18 21:19	1
Benzo[g,h,i]perylene	0.26		0.039	0.013	mg/Kg	☼	10/20/18 01:56	10/23/18 21:19	1
Benzo[k]fluoranthene	0.31		0.039	0.012	mg/Kg	☼	10/20/18 01:56	10/23/18 21:19	1
Bis(2-chloroethoxy)methane	<0.040		0.20	0.040	mg/Kg	☼	10/20/18 01:56	10/23/18 21:19	1
Bis(2-chloroethyl)ether	<0.059		0.20	0.059	mg/Kg	☼	10/20/18 01:56	10/23/18 21:19	1
Bis(2-ethylhexyl) phthalate	<0.071		0.20	0.071	mg/Kg	☼	10/20/18 01:56	10/23/18 21:19	1
4-Bromophenyl phenyl ether	<0.052		0.20	0.052	mg/Kg	☼	10/20/18 01:56	10/23/18 21:19	1
Butyl benzyl phthalate	<0.074		0.20	0.074	mg/Kg	☼	10/20/18 01:56	10/23/18 21:19	1
Carbazole	<0.098		0.20	0.098	mg/Kg	☼	10/20/18 01:56	10/23/18 21:19	1
4-Chloroaniline	<0.18		0.79	0.18	mg/Kg	☼	10/20/18 01:56	10/23/18 21:19	1
4-Chloro-3-methylphenol	<0.13		0.39	0.13	mg/Kg	☼	10/20/18 01:56	10/23/18 21:19	1
2-Chloronaphthalene	<0.043		0.20	0.043	mg/Kg	☼	10/20/18 01:56	10/23/18 21:19	1
2-Chlorophenol	<0.067		0.20	0.067	mg/Kg	☼	10/20/18 01:56	10/23/18 21:19	1
4-Chlorophenyl phenyl ether	<0.046		0.20	0.046	mg/Kg	☼	10/20/18 01:56	10/23/18 21:19	1
Chrysene	0.65		0.039	0.011	mg/Kg	☼	10/20/18 01:56	10/23/18 21:19	1
Dibenz(a,h)anthracene	0.085		0.039	0.0076	mg/Kg	☼	10/20/18 01:56	10/23/18 21:19	1
Dibenzofuran	<0.046		0.20	0.046	mg/Kg	☼	10/20/18 01:56	10/23/18 21:19	1
1,2-Dichlorobenzene	<0.047		0.20	0.047	mg/Kg	☼	10/20/18 01:56	10/23/18 21:19	1
1,3-Dichlorobenzene	<0.044		0.20	0.044	mg/Kg	☼	10/20/18 01:56	10/23/18 21:19	1
1,4-Dichlorobenzene	<0.050		0.20	0.050	mg/Kg	☼	10/20/18 01:56	10/23/18 21:19	1
3,3'-Dichlorobenzidine	<0.055		0.20	0.055	mg/Kg	☼	10/20/18 01:56	10/23/18 21:19	1
2,4-Dichlorophenol	<0.093		0.39	0.093	mg/Kg	☼	10/20/18 01:56	10/23/18 21:19	1
Diethyl phthalate	<0.066		0.20	0.066	mg/Kg	☼	10/20/18 01:56	10/23/18 21:19	1
2,4-Dimethylphenol	<0.15		0.39	0.15	mg/Kg	☼	10/20/18 01:56	10/23/18 21:19	1
Dimethyl phthalate	<0.051		0.20	0.051	mg/Kg	☼	10/20/18 01:56	10/23/18 21:19	1
Di-n-butyl phthalate	<0.060		0.20	0.060	mg/Kg	☼	10/20/18 01:56	10/23/18 21:19	1
4,6-Dinitro-2-methylphenol	<0.31		0.79	0.31	mg/Kg	☼	10/20/18 01:56	10/23/18 21:19	1
2,4-Dinitrophenol	<0.69		0.79	0.69	mg/Kg	☼	10/20/18 01:56	10/23/18 21:19	1
2,4-Dinitrotoluene	<0.062		0.20	0.062	mg/Kg	☼	10/20/18 01:56	10/23/18 21:19	1
2,6-Dinitrotoluene	<0.077		0.20	0.077	mg/Kg	☼	10/20/18 01:56	10/23/18 21:19	1
Di-n-octyl phthalate	<0.064		0.20	0.064	mg/Kg	☼	10/20/18 01:56	10/23/18 21:19	1
Fluoranthene	1.2		0.039	0.0073	mg/Kg	☼	10/20/18 01:56	10/23/18 21:19	1
Fluorene	0.028 J		0.039	0.0055	mg/Kg	☼	10/20/18 01:56	10/23/18 21:19	1
Hexachlorobenzene	<0.0091		0.079	0.0091	mg/Kg	☼	10/20/18 01:56	10/23/18 21:19	1
Hexachlorobutadiene	<0.061		0.20	0.061	mg/Kg	☼	10/20/18 01:56	10/23/18 21:19	1
Hexachlorocyclopentadiene	<0.22		0.79	0.22	mg/Kg	☼	10/20/18 01:56	10/23/18 21:19	1
Hexachloroethane	<0.059		0.20	0.059	mg/Kg	☼	10/20/18 01:56	10/23/18 21:19	1
Indeno[1,2,3-cd]pyrene	0.24		0.039	0.010	mg/Kg	☼	10/20/18 01:56	10/23/18 21:19	1
Isophorone	<0.044		0.20	0.044	mg/Kg	☼	10/20/18 01:56	10/23/18 21:19	1
2-Methylnaphthalene	0.0079 J		0.079	0.0072	mg/Kg	☼	10/20/18 01:56	10/23/18 21:19	1
2-Methylphenol	<0.063		0.20	0.063	mg/Kg	☼	10/20/18 01:56	10/23/18 21:19	1
3 & 4 Methylphenol	<0.065		0.20	0.065	mg/Kg	☼	10/20/18 01:56	10/23/18 21:19	1
Naphthalene	0.0081 J		0.039	0.0060	mg/Kg	☼	10/20/18 01:56	10/23/18 21:19	1
2-Nitroaniline	<0.053		0.20	0.053	mg/Kg	☼	10/20/18 01:56	10/23/18 21:19	1
3-Nitroaniline	<0.12		0.39	0.12	mg/Kg	☼	10/20/18 01:56	10/23/18 21:19	1
4-Nitroaniline	<0.16		0.39	0.16	mg/Kg	☼	10/20/18 01:56	10/23/18 21:19	1
Nitrobenzene	<0.0098		0.039	0.0098	mg/Kg	☼	10/20/18 01:56	10/23/18 21:19	1
2-Nitrophenol	<0.092		0.39	0.092	mg/Kg	☼	10/20/18 01:56	10/23/18 21:19	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B11 (0-5)

Lab Sample ID: 500-153234-11

Date Collected: 10/16/18 12:10

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.37		0.79	0.37	mg/Kg	☼	10/20/18 01:56	10/23/18 21:19	1
N-Nitrosodi-n-propylamine	<0.048		0.079	0.048	mg/Kg	☼	10/20/18 01:56	10/23/18 21:19	1
N-Nitrosodiphenylamine	<0.046		0.20	0.046	mg/Kg	☼	10/20/18 01:56	10/23/18 21:19	1
2,2'-oxybis[1-chloropropane]	<0.045		0.20	0.045	mg/Kg	☼	10/20/18 01:56	10/23/18 21:19	1
Pentachlorophenol	<0.63		0.79	0.63	mg/Kg	☼	10/20/18 01:56	10/23/18 21:19	1
Phenanthrene	0.54		0.039	0.0055	mg/Kg	☼	10/20/18 01:56	10/23/18 21:19	1
Phenol	<0.087		0.20	0.087	mg/Kg	☼	10/20/18 01:56	10/23/18 21:19	1
Pyrene	0.99		0.039	0.0078	mg/Kg	☼	10/20/18 01:56	10/23/18 21:19	1
1,2,4-Trichlorobenzene	<0.042		0.20	0.042	mg/Kg	☼	10/20/18 01:56	10/23/18 21:19	1
2,4,5-Trichlorophenol	<0.089		0.39	0.089	mg/Kg	☼	10/20/18 01:56	10/23/18 21:19	1
2,4,6-Trichlorophenol	<0.13		0.39	0.13	mg/Kg	☼	10/20/18 01:56	10/23/18 21:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	93		43 - 145	10/20/18 01:56	10/23/18 21:19	1
2-Fluorophenol	125		31 - 166	10/20/18 01:56	10/23/18 21:19	1
Nitrobenzene-d5	86		37 - 147	10/20/18 01:56	10/23/18 21:19	1
Phenol-d5	119		30 - 153	10/20/18 01:56	10/23/18 21:19	1
Terphenyl-d14	102		42 - 157	10/20/18 01:56	10/23/18 21:19	1
2,4,6-Tribromophenol	89		31 - 143	10/20/18 01:56	10/23/18 21:19	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.23	J	1.1	0.21	mg/Kg	☼	10/23/18 08:25	10/24/18 01:48	1
Arsenic	6.5		0.54	0.19	mg/Kg	☼	10/23/18 08:25	10/24/18 01:48	1
Barium	67		0.54	0.062	mg/Kg	☼	10/23/18 08:25	10/24/18 01:48	1
Beryllium	0.44		0.22	0.051	mg/Kg	☼	10/23/18 08:25	10/24/18 01:48	1
Cadmium	0.36	B	0.11	0.020	mg/Kg	☼	10/23/18 08:25	10/24/18 01:48	1
Chromium	19		0.54	0.27	mg/Kg	☼	10/23/18 08:25	10/24/18 01:48	1
Cobalt	5.4		0.27	0.071	mg/Kg	☼	10/23/18 08:25	10/24/18 01:48	1
Copper	25	B	0.54	0.15	mg/Kg	☼	10/23/18 08:25	10/24/18 01:48	1
Iron	17000	B	54	28	mg/Kg	☼	10/23/18 08:25	10/24/18 10:35	5
Lead	41		0.27	0.13	mg/Kg	☼	10/23/18 08:25	10/24/18 01:48	1
Magnesium	69000		27	13	mg/Kg	☼	10/23/18 08:25	10/24/18 10:35	5
Calcium	120000		54	9.2	mg/Kg	☼	10/23/18 08:25	10/24/18 10:35	5
Manganese	410	B	0.54	0.079	mg/Kg	☼	10/23/18 08:25	10/24/18 01:48	1
Nickel	15		0.54	0.16	mg/Kg	☼	10/23/18 08:25	10/24/18 01:48	1
Selenium	<0.32		0.54	0.32	mg/Kg	☼	10/23/18 08:25	10/24/18 01:48	1
Silver	0.13	J	0.27	0.070	mg/Kg	☼	10/23/18 08:25	10/24/18 01:48	1
Thallium	<0.27		0.54	0.27	mg/Kg	☼	10/23/18 08:25	10/24/18 01:48	1
Vanadium	17		0.27	0.064	mg/Kg	☼	10/23/18 08:25	10/24/18 01:48	1
Zinc	86		1.1	0.48	mg/Kg	☼	10/23/18 08:25	10/24/18 01:48	1
Potassium	1200		27	9.6	mg/Kg	☼	10/23/18 08:25	10/24/18 01:48	1
Sodium	280		54	8.0	mg/Kg	☼	10/23/18 08:25	10/24/18 01:48	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		10/24/18 09:14	10/25/18 00:01	1
Barium	0.63		0.50	0.050	mg/L		10/24/18 09:14	10/25/18 00:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/24/18 09:14	10/25/18 00:01	1
Cadmium	0.0041	J	0.0050	0.0020	mg/L		10/24/18 09:14	10/25/18 00:01	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B11 (0-5)

Lab Sample ID: 500-153234-11

Date Collected: 10/16/18 12:10

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	350		5.0	0.50	mg/L		10/24/18 09:14	10/25/18 00:01	1
Chromium	0.022	J B	0.025	0.010	mg/L		10/24/18 09:14	10/25/18 00:01	1
Cobalt	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/25/18 00:01	1
Copper	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/25/18 10:59	1
Iron	0.21	J	0.40	0.20	mg/L		10/24/18 09:14	10/25/18 00:01	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/24/18 09:14	10/25/18 00:01	1
Magnesium	170		2.5	0.50	mg/L		10/24/18 09:14	10/25/18 00:01	1
Manganese	0.13		0.025	0.010	mg/L		10/24/18 09:14	10/25/18 00:01	1
Nickel	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/25/18 00:01	1
Potassium	1.1	J	2.5	0.50	mg/L		10/24/18 09:14	10/25/18 00:01	1
Selenium	<0.020		0.050	0.020	mg/L		10/24/18 09:14	10/25/18 00:01	1
Silver	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/25/18 00:01	1
Vanadium	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/25/18 00:01	1
Zinc	0.087	J B	0.50	0.020	mg/L		10/24/18 09:14	10/25/18 00:01	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		10/24/18 09:14	10/25/18 13:20	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/24/18 09:14	10/25/18 05:38	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		10/24/18 11:25	10/25/18 08:34	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021	B	0.019	0.0063	mg/Kg	☼	10/23/18 15:50	10/24/18 09:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.19		0.55	0.19	mg/Kg	☼	10/25/18 13:30	10/25/18 18:46	1
pH	8.5		0.2	0.2	SU			10/23/18 15:47	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B10 (0-5)

Lab Sample ID: 500-153234-12

Date Collected: 10/16/18 12:40

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 87.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0076		0.017	0.0076	mg/Kg	☼	10/17/18 18:00	10/25/18 08:28	1
Benzene	<0.00044		0.0017	0.00044	mg/Kg	☼	10/17/18 18:00	10/25/18 08:28	1
Bromodichloromethane	<0.00035		0.0017	0.00035	mg/Kg	☼	10/17/18 18:00	10/25/18 08:28	1
Bromoform	<0.00051		0.0017	0.00051	mg/Kg	☼	10/17/18 18:00	10/25/18 08:28	1
Bromomethane	<0.0016	*	0.0044	0.0016	mg/Kg	☼	10/17/18 18:00	10/25/18 08:28	1
2-Butanone (MEK)	<0.0019		0.0044	0.0019	mg/Kg	☼	10/17/18 18:00	10/25/18 08:28	1
Carbon disulfide	<0.00091		0.0044	0.00091	mg/Kg	☼	10/17/18 18:00	10/25/18 08:28	1
Carbon tetrachloride	<0.00051		0.0017	0.00051	mg/Kg	☼	10/17/18 18:00	10/25/18 08:28	1
Chlorobenzene	<0.00064		0.0017	0.00064	mg/Kg	☼	10/17/18 18:00	10/25/18 08:28	1
Chloroethane	<0.0013	*	0.0044	0.0013	mg/Kg	☼	10/17/18 18:00	10/25/18 08:28	1
Chloroform	<0.00060		0.0017	0.00060	mg/Kg	☼	10/17/18 18:00	10/25/18 08:28	1
Chloromethane	<0.0018		0.0044	0.0018	mg/Kg	☼	10/17/18 18:00	10/25/18 08:28	1
cis-1,2-Dichloroethene	<0.00049		0.0017	0.00049	mg/Kg	☼	10/17/18 18:00	10/25/18 08:28	1
cis-1,3-Dichloropropene	<0.00053		0.0017	0.00053	mg/Kg	☼	10/17/18 18:00	10/25/18 08:28	1
Dibromochloromethane	<0.00057		0.0017	0.00057	mg/Kg	☼	10/17/18 18:00	10/25/18 08:28	1
1,1-Dichloroethane	<0.00060		0.0017	0.00060	mg/Kg	☼	10/17/18 18:00	10/25/18 08:28	1
1,2-Dichloroethane	<0.0014		0.0044	0.0014	mg/Kg	☼	10/17/18 18:00	10/25/18 08:28	1
1,1-Dichloroethene	<0.00060		0.0017	0.00060	mg/Kg	☼	10/17/18 18:00	10/25/18 08:28	1
1,2-Dichloropropane	<0.00045		0.0017	0.00045	mg/Kg	☼	10/17/18 18:00	10/25/18 08:28	1
1,3-Dichloropropane, Total	<0.00061		0.0017	0.00061	mg/Kg	☼	10/17/18 18:00	10/25/18 08:28	1
Ethylbenzene	<0.00083		0.0017	0.00083	mg/Kg	☼	10/17/18 18:00	10/25/18 08:28	1
2-Hexanone	<0.0014		0.0044	0.0014	mg/Kg	☼	10/17/18 18:00	10/25/18 08:28	1
Methylene Chloride	<0.0017		0.0044	0.0017	mg/Kg	☼	10/17/18 18:00	10/25/18 08:28	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0044	0.0013	mg/Kg	☼	10/17/18 18:00	10/25/18 08:28	1
Methyl tert-butyl ether	<0.00051		0.0017	0.00051	mg/Kg	☼	10/17/18 18:00	10/25/18 08:28	1
Styrene	<0.00053		0.0017	0.00053	mg/Kg	☼	10/17/18 18:00	10/25/18 08:28	1
1,1,2,2-Tetrachloroethane	<0.00056		0.0017	0.00056	mg/Kg	☼	10/17/18 18:00	10/25/18 08:28	1
Tetrachloroethene	<0.00059		0.0017	0.00059	mg/Kg	☼	10/17/18 18:00	10/25/18 08:28	1
Toluene	<0.00044		0.0017	0.00044	mg/Kg	☼	10/17/18 18:00	10/25/18 08:28	1
trans-1,2-Dichloroethene	<0.00077		0.0017	0.00077	mg/Kg	☼	10/17/18 18:00	10/25/18 08:28	1
trans-1,3-Dichloropropene	<0.00061		0.0017	0.00061	mg/Kg	☼	10/17/18 18:00	10/25/18 08:28	1
1,1,1-Trichloroethane	<0.00058		0.0017	0.00058	mg/Kg	☼	10/17/18 18:00	10/25/18 08:28	1
1,1,2-Trichloroethane	<0.00075		0.0017	0.00075	mg/Kg	☼	10/17/18 18:00	10/25/18 08:28	1
Trichloroethene	<0.00059		0.0017	0.00059	mg/Kg	☼	10/17/18 18:00	10/25/18 08:28	1
Vinyl acetate	<0.0015		0.0044	0.0015	mg/Kg	☼	10/17/18 18:00	10/25/18 08:28	1
Vinyl chloride	<0.00077		0.0017	0.00077	mg/Kg	☼	10/17/18 18:00	10/25/18 08:28	1
Xylenes, Total	<0.00056		0.0035	0.00056	mg/Kg	☼	10/17/18 18:00	10/25/18 08:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		75 - 131	10/17/18 18:00	10/25/18 08:28	1
Dibromofluoromethane	95		75 - 126	10/17/18 18:00	10/25/18 08:28	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	10/17/18 18:00	10/25/18 08:28	1
Toluene-d8 (Surr)	94		75 - 124	10/17/18 18:00	10/25/18 08:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.015	J	0.037	0.0068	mg/Kg	☼	10/20/18 01:56	10/23/18 21:46	1
Acenaphthylene	0.015	J	0.037	0.0050	mg/Kg	☼	10/20/18 01:56	10/23/18 21:46	1
Anthracene	0.039		0.037	0.0063	mg/Kg	☼	10/20/18 01:56	10/23/18 21:46	1
Benzo[a]anthracene	0.24		0.037	0.0051	mg/Kg	☼	10/20/18 01:56	10/23/18 21:46	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B10 (0-5)

Lab Sample ID: 500-153234-12

Date Collected: 10/16/18 12:40

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 87.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.27		0.037	0.0073	mg/Kg	☼	10/20/18 01:56	10/23/18 21:46	1
Benzo[b]fluoranthene	0.51		0.037	0.0081	mg/Kg	☼	10/20/18 01:56	10/23/18 21:46	1
Benzo[g,h,i]perylene	0.13		0.037	0.012	mg/Kg	☼	10/20/18 01:56	10/23/18 21:46	1
Benzo[k]fluoranthene	0.19		0.037	0.011	mg/Kg	☼	10/20/18 01:56	10/23/18 21:46	1
Bis(2-chloroethoxy)methane	<0.038		0.19	0.038	mg/Kg	☼	10/20/18 01:56	10/23/18 21:46	1
Bis(2-chloroethyl)ether	<0.056		0.19	0.056	mg/Kg	☼	10/20/18 01:56	10/23/18 21:46	1
Bis(2-ethylhexyl) phthalate	<0.069		0.19	0.069	mg/Kg	☼	10/20/18 01:56	10/23/18 21:46	1
4-Bromophenyl phenyl ether	<0.050		0.19	0.050	mg/Kg	☼	10/20/18 01:56	10/23/18 21:46	1
Butyl benzyl phthalate	<0.072		0.19	0.072	mg/Kg	☼	10/20/18 01:56	10/23/18 21:46	1
Carbazole	<0.094		0.19	0.094	mg/Kg	☼	10/20/18 01:56	10/23/18 21:46	1
4-Chloroaniline	<0.18		0.76	0.18	mg/Kg	☼	10/20/18 01:56	10/23/18 21:46	1
4-Chloro-3-methylphenol	<0.13		0.37	0.13	mg/Kg	☼	10/20/18 01:56	10/23/18 21:46	1
2-Chloronaphthalene	<0.042		0.19	0.042	mg/Kg	☼	10/20/18 01:56	10/23/18 21:46	1
2-Chlorophenol	<0.064		0.19	0.064	mg/Kg	☼	10/20/18 01:56	10/23/18 21:46	1
4-Chlorophenyl phenyl ether	<0.044		0.19	0.044	mg/Kg	☼	10/20/18 01:56	10/23/18 21:46	1
Chrysene	0.31		0.037	0.010	mg/Kg	☼	10/20/18 01:56	10/23/18 21:46	1
Dibenz(a,h)anthracene	0.045		0.037	0.0073	mg/Kg	☼	10/20/18 01:56	10/23/18 21:46	1
Dibenzofuran	<0.044		0.19	0.044	mg/Kg	☼	10/20/18 01:56	10/23/18 21:46	1
1,2-Dichlorobenzene	<0.045		0.19	0.045	mg/Kg	☼	10/20/18 01:56	10/23/18 21:46	1
1,3-Dichlorobenzene	<0.042		0.19	0.042	mg/Kg	☼	10/20/18 01:56	10/23/18 21:46	1
1,4-Dichlorobenzene	<0.048		0.19	0.048	mg/Kg	☼	10/20/18 01:56	10/23/18 21:46	1
3,3'-Dichlorobenzidine	<0.053		0.19	0.053	mg/Kg	☼	10/20/18 01:56	10/23/18 21:46	1
2,4-Dichlorophenol	<0.089		0.37	0.089	mg/Kg	☼	10/20/18 01:56	10/23/18 21:46	1
Diethyl phthalate	<0.064		0.19	0.064	mg/Kg	☼	10/20/18 01:56	10/23/18 21:46	1
2,4-Dimethylphenol	<0.14		0.37	0.14	mg/Kg	☼	10/20/18 01:56	10/23/18 21:46	1
Dimethyl phthalate	<0.049		0.19	0.049	mg/Kg	☼	10/20/18 01:56	10/23/18 21:46	1
Di-n-butyl phthalate	<0.057		0.19	0.057	mg/Kg	☼	10/20/18 01:56	10/23/18 21:46	1
4,6-Dinitro-2-methylphenol	<0.30		0.76	0.30	mg/Kg	☼	10/20/18 01:56	10/23/18 21:46	1
2,4-Dinitrophenol	<0.66		0.76	0.66	mg/Kg	☼	10/20/18 01:56	10/23/18 21:46	1
2,4-Dinitrotoluene	<0.060		0.19	0.060	mg/Kg	☼	10/20/18 01:56	10/23/18 21:46	1
2,6-Dinitrotoluene	<0.074		0.19	0.074	mg/Kg	☼	10/20/18 01:56	10/23/18 21:46	1
Di-n-octyl phthalate	<0.061		0.19	0.061	mg/Kg	☼	10/20/18 01:56	10/23/18 21:46	1
Fluoranthene	0.51		0.037	0.0070	mg/Kg	☼	10/20/18 01:56	10/23/18 21:46	1
Fluorene	0.0095 J		0.037	0.0053	mg/Kg	☼	10/20/18 01:56	10/23/18 21:46	1
Hexachlorobenzene	<0.0087		0.076	0.0087	mg/Kg	☼	10/20/18 01:56	10/23/18 21:46	1
Hexachlorobutadiene	<0.059		0.19	0.059	mg/Kg	☼	10/20/18 01:56	10/23/18 21:46	1
Hexachlorocyclopentadiene	<0.22		0.76	0.22	mg/Kg	☼	10/20/18 01:56	10/23/18 21:46	1
Hexachloroethane	<0.057		0.19	0.057	mg/Kg	☼	10/20/18 01:56	10/23/18 21:46	1
Indeno[1,2,3-cd]pyrene	0.13		0.037	0.0097	mg/Kg	☼	10/20/18 01:56	10/23/18 21:46	1
Isophorone	<0.042		0.19	0.042	mg/Kg	☼	10/20/18 01:56	10/23/18 21:46	1
2-Methylnaphthalene	<0.0069		0.076	0.0069	mg/Kg	☼	10/20/18 01:56	10/23/18 21:46	1
2-Methylphenol	<0.060		0.19	0.060	mg/Kg	☼	10/20/18 01:56	10/23/18 21:46	1
3 & 4 Methylphenol	<0.063		0.19	0.063	mg/Kg	☼	10/20/18 01:56	10/23/18 21:46	1
Naphthalene	<0.0058		0.037	0.0058	mg/Kg	☼	10/20/18 01:56	10/23/18 21:46	1
2-Nitroaniline	<0.051		0.19	0.051	mg/Kg	☼	10/20/18 01:56	10/23/18 21:46	1
3-Nitroaniline	<0.12		0.37	0.12	mg/Kg	☼	10/20/18 01:56	10/23/18 21:46	1
4-Nitroaniline	<0.16		0.37	0.16	mg/Kg	☼	10/20/18 01:56	10/23/18 21:46	1
Nitrobenzene	<0.0094		0.037	0.0094	mg/Kg	☼	10/20/18 01:56	10/23/18 21:46	1
2-Nitrophenol	<0.089		0.37	0.089	mg/Kg	☼	10/20/18 01:56	10/23/18 21:46	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B10 (0-5)

Lab Sample ID: 500-153234-12

Date Collected: 10/16/18 12:40

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 87.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.36		0.76	0.36	mg/Kg	☼	10/20/18 01:56	10/23/18 21:46	1
N-Nitrosodi-n-propylamine	<0.046		0.076	0.046	mg/Kg	☼	10/20/18 01:56	10/23/18 21:46	1
N-Nitrosodiphenylamine	<0.044		0.19	0.044	mg/Kg	☼	10/20/18 01:56	10/23/18 21:46	1
2,2'-oxybis[1-chloropropane]	<0.044		0.19	0.044	mg/Kg	☼	10/20/18 01:56	10/23/18 21:46	1
Pentachlorophenol	<0.60		0.76	0.60	mg/Kg	☼	10/20/18 01:56	10/23/18 21:46	1
Phenanthrene	0.19		0.037	0.0052	mg/Kg	☼	10/20/18 01:56	10/23/18 21:46	1
Phenol	<0.084		0.19	0.084	mg/Kg	☼	10/20/18 01:56	10/23/18 21:46	1
Pyrene	0.45		0.037	0.0075	mg/Kg	☼	10/20/18 01:56	10/23/18 21:46	1
1,2,4-Trichlorobenzene	<0.041		0.19	0.041	mg/Kg	☼	10/20/18 01:56	10/23/18 21:46	1
2,4,5-Trichlorophenol	<0.086		0.37	0.086	mg/Kg	☼	10/20/18 01:56	10/23/18 21:46	1
2,4,6-Trichlorophenol	<0.13		0.37	0.13	mg/Kg	☼	10/20/18 01:56	10/23/18 21:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	88		43 - 145	10/20/18 01:56	10/23/18 21:46	1
2-Fluorophenol	117		31 - 166	10/20/18 01:56	10/23/18 21:46	1
Nitrobenzene-d5	79		37 - 147	10/20/18 01:56	10/23/18 21:46	1
Phenol-d5	114		30 - 153	10/20/18 01:56	10/23/18 21:46	1
Terphenyl-d14	102		42 - 157	10/20/18 01:56	10/23/18 21:46	1
2,4,6-Tribromophenol	90		31 - 143	10/20/18 01:56	10/23/18 21:46	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.42	J	1.1	0.21	mg/Kg	☼	10/23/18 08:25	10/24/18 01:53	1
Arsenic	6.7		0.54	0.19	mg/Kg	☼	10/23/18 08:25	10/24/18 01:53	1
Barium	54		0.54	0.062	mg/Kg	☼	10/23/18 08:25	10/24/18 01:53	1
Beryllium	0.44		0.22	0.051	mg/Kg	☼	10/23/18 08:25	10/24/18 01:53	1
Cadmium	0.28	B	0.11	0.020	mg/Kg	☼	10/23/18 08:25	10/24/18 01:53	1
Chromium	12		0.54	0.27	mg/Kg	☼	10/23/18 08:25	10/24/18 01:53	1
Cobalt	5.8		0.27	0.071	mg/Kg	☼	10/23/18 08:25	10/24/18 01:53	1
Copper	24	B	0.54	0.15	mg/Kg	☼	10/23/18 08:25	10/24/18 01:53	1
Iron	14000	B	11	5.6	mg/Kg	☼	10/23/18 08:25	10/24/18 01:53	1
Lead	54		0.27	0.13	mg/Kg	☼	10/23/18 08:25	10/24/18 01:53	1
Magnesium	53000		5.4	2.7	mg/Kg	☼	10/23/18 08:25	10/24/18 01:53	1
Calcium	110000		54	9.2	mg/Kg	☼	10/23/18 08:25	10/24/18 10:39	5
Manganese	370	B	0.54	0.079	mg/Kg	☼	10/23/18 08:25	10/24/18 01:53	1
Nickel	14		0.54	0.16	mg/Kg	☼	10/23/18 08:25	10/24/18 01:53	1
Selenium	<0.32		0.54	0.32	mg/Kg	☼	10/23/18 08:25	10/24/18 01:53	1
Silver	0.12	J	0.27	0.070	mg/Kg	☼	10/23/18 08:25	10/24/18 01:53	1
Thallium	<0.27		0.54	0.27	mg/Kg	☼	10/23/18 08:25	10/24/18 01:53	1
Vanadium	17		0.27	0.064	mg/Kg	☼	10/23/18 08:25	10/24/18 01:53	1
Zinc	71		1.1	0.48	mg/Kg	☼	10/23/18 08:25	10/24/18 01:53	1
Potassium	1400		27	9.6	mg/Kg	☼	10/23/18 08:25	10/24/18 01:53	1
Sodium	350		54	8.0	mg/Kg	☼	10/23/18 08:25	10/24/18 01:53	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		10/24/18 09:14	10/25/18 00:05	1
Barium	0.54		0.50	0.050	mg/L		10/24/18 09:14	10/25/18 00:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/24/18 09:14	10/25/18 00:05	1
Cadmium	0.0035	J	0.0050	0.0020	mg/L		10/24/18 09:14	10/25/18 00:05	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B10 (0-5)

Lab Sample ID: 500-153234-12

Date Collected: 10/16/18 12:40

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 87.6

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		10/24/18 09:14	10/25/18 00:05	1
Chromium	0.021	J B	0.025	0.010	mg/L		10/24/18 09:14	10/25/18 00:05	1
Cobalt	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/25/18 00:05	1
Copper	<0.010	^	0.025	0.010	mg/L		10/24/18 09:14	10/25/18 00:05	1
Iron	0.22	J	0.40	0.20	mg/L		10/24/18 09:14	10/25/18 00:05	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/24/18 09:14	10/25/18 00:05	1
Magnesium	170		2.5	0.50	mg/L		10/24/18 09:14	10/25/18 00:05	1
Manganese	0.094		0.025	0.010	mg/L		10/24/18 09:14	10/25/18 00:05	1
Nickel	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/25/18 00:05	1
Potassium	0.90	J	2.5	0.50	mg/L		10/24/18 09:14	10/25/18 00:05	1
Selenium	<0.020		0.050	0.020	mg/L		10/24/18 09:14	10/25/18 00:05	1
Silver	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/25/18 00:05	1
Vanadium	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/25/18 00:05	1
Zinc	0.35	J B	0.50	0.020	mg/L		10/24/18 09:14	10/25/18 00:05	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		10/24/18 09:14	10/25/18 13:21	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/24/18 09:14	10/25/18 05:42	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		10/24/18 11:25	10/25/18 08:36	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.012	J B	0.016	0.0055	mg/Kg	☼	10/23/18 15:50	10/24/18 09:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.18		0.52	0.18	mg/Kg	☼	10/25/18 13:30	10/25/18 18:46	1
pH	8.8		0.2	0.2	SU			10/23/18 18:18	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B09 (0-5)

Lab Sample ID: 500-153234-13

Date Collected: 10/16/18 13:00

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 87.9

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	☼	10/17/18 18:00	10/25/18 08:54	1
Benzene	<0.00043		0.0017	0.00043	mg/Kg	☼	10/17/18 18:00	10/25/18 08:54	1
Bromodichloromethane	<0.00034		0.0017	0.00034	mg/Kg	☼	10/17/18 18:00	10/25/18 08:54	1
Bromoform	<0.00049		0.0017	0.00049	mg/Kg	☼	10/17/18 18:00	10/25/18 08:54	1
Bromomethane	<0.0016	*	0.0042	0.0016	mg/Kg	☼	10/17/18 18:00	10/25/18 08:54	1
2-Butanone (MEK)	<0.0019		0.0042	0.0019	mg/Kg	☼	10/17/18 18:00	10/25/18 08:54	1
Carbon disulfide	<0.00087		0.0042	0.00087	mg/Kg	☼	10/17/18 18:00	10/25/18 08:54	1
Carbon tetrachloride	<0.00049		0.0017	0.00049	mg/Kg	☼	10/17/18 18:00	10/25/18 08:54	1
Chlorobenzene	<0.00062		0.0017	0.00062	mg/Kg	☼	10/17/18 18:00	10/25/18 08:54	1
Chloroethane	<0.0012	*	0.0042	0.0012	mg/Kg	☼	10/17/18 18:00	10/25/18 08:54	1
Chloroform	<0.00058		0.0017	0.00058	mg/Kg	☼	10/17/18 18:00	10/25/18 08:54	1
Chloromethane	<0.0017		0.0042	0.0017	mg/Kg	☼	10/17/18 18:00	10/25/18 08:54	1
cis-1,2-Dichloroethene	<0.00047		0.0017	0.00047	mg/Kg	☼	10/17/18 18:00	10/25/18 08:54	1
cis-1,3-Dichloropropene	<0.00051		0.0017	0.00051	mg/Kg	☼	10/17/18 18:00	10/25/18 08:54	1
Dibromochloromethane	<0.00055		0.0017	0.00055	mg/Kg	☼	10/17/18 18:00	10/25/18 08:54	1
1,1-Dichloroethane	<0.00058		0.0017	0.00058	mg/Kg	☼	10/17/18 18:00	10/25/18 08:54	1
1,2-Dichloroethane	<0.0013		0.0042	0.0013	mg/Kg	☼	10/17/18 18:00	10/25/18 08:54	1
1,1-Dichloroethene	<0.00058		0.0017	0.00058	mg/Kg	☼	10/17/18 18:00	10/25/18 08:54	1
1,2-Dichloropropane	<0.00043		0.0017	0.00043	mg/Kg	☼	10/17/18 18:00	10/25/18 08:54	1
1,3-Dichloropropene, Total	<0.00059		0.0017	0.00059	mg/Kg	☼	10/17/18 18:00	10/25/18 08:54	1
Ethylbenzene	<0.00080		0.0017	0.00080	mg/Kg	☼	10/17/18 18:00	10/25/18 08:54	1
2-Hexanone	<0.0013		0.0042	0.0013	mg/Kg	☼	10/17/18 18:00	10/25/18 08:54	1
Methylene Chloride	<0.0017		0.0042	0.0017	mg/Kg	☼	10/17/18 18:00	10/25/18 08:54	1
4-Methyl-2-pentanone (MIBK)	<0.0012		0.0042	0.0012	mg/Kg	☼	10/17/18 18:00	10/25/18 08:54	1
Methyl tert-butyl ether	<0.00049		0.0017	0.00049	mg/Kg	☼	10/17/18 18:00	10/25/18 08:54	1
Styrene	<0.00051		0.0017	0.00051	mg/Kg	☼	10/17/18 18:00	10/25/18 08:54	1
1,1,2,2-Tetrachloroethane	<0.00054		0.0017	0.00054	mg/Kg	☼	10/17/18 18:00	10/25/18 08:54	1
Tetrachloroethene	<0.00057		0.0017	0.00057	mg/Kg	☼	10/17/18 18:00	10/25/18 08:54	1
Toluene	<0.00042		0.0017	0.00042	mg/Kg	☼	10/17/18 18:00	10/25/18 08:54	1
trans-1,2-Dichloroethene	<0.00074		0.0017	0.00074	mg/Kg	☼	10/17/18 18:00	10/25/18 08:54	1
trans-1,3-Dichloropropene	<0.00059		0.0017	0.00059	mg/Kg	☼	10/17/18 18:00	10/25/18 08:54	1
1,1,1-Trichloroethane	<0.00056		0.0017	0.00056	mg/Kg	☼	10/17/18 18:00	10/25/18 08:54	1
1,1,2-Trichloroethane	<0.00072		0.0017	0.00072	mg/Kg	☼	10/17/18 18:00	10/25/18 08:54	1
Trichloroethene	<0.00057		0.0017	0.00057	mg/Kg	☼	10/17/18 18:00	10/25/18 08:54	1
Vinyl acetate	<0.0015		0.0042	0.0015	mg/Kg	☼	10/17/18 18:00	10/25/18 08:54	1
Vinyl chloride	<0.00074		0.0017	0.00074	mg/Kg	☼	10/17/18 18:00	10/25/18 08:54	1
Xylenes, Total	<0.00054		0.0034	0.00054	mg/Kg	☼	10/17/18 18:00	10/25/18 08:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		75 - 131	10/17/18 18:00	10/25/18 08:54	1
Dibromofluoromethane	93		75 - 126	10/17/18 18:00	10/25/18 08:54	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	10/17/18 18:00	10/25/18 08:54	1
Toluene-d8 (Surr)	93		75 - 124	10/17/18 18:00	10/25/18 08:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.024	J	0.037	0.0068	mg/Kg	☼	10/20/18 01:56	10/23/18 22:13	1
Acenaphthylene	0.019	J	0.037	0.0050	mg/Kg	☼	10/20/18 01:56	10/23/18 22:13	1
Anthracene	0.099		0.037	0.0063	mg/Kg	☼	10/20/18 01:56	10/23/18 22:13	1
Benzo[a]anthracene	0.57		0.037	0.0051	mg/Kg	☼	10/20/18 01:56	10/23/18 22:13	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B09 (0-5)

Lab Sample ID: 500-153234-13

Date Collected: 10/16/18 13:00

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 87.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.53		0.037	0.0073	mg/Kg	☼	10/20/18 01:56	10/23/18 22:13	1
Benzo[b]fluoranthene	0.92		0.037	0.0081	mg/Kg	☼	10/20/18 01:56	10/23/18 22:13	1
Benzo[g,h,i]perylene	0.28		0.037	0.012	mg/Kg	☼	10/20/18 01:56	10/23/18 22:13	1
Benzo[k]fluoranthene	0.62		0.037	0.011	mg/Kg	☼	10/20/18 01:56	10/23/18 22:13	1
Bis(2-chloroethoxy)methane	<0.038		0.19	0.038	mg/Kg	☼	10/20/18 01:56	10/23/18 22:13	1
Bis(2-chloroethyl)ether	<0.056		0.19	0.056	mg/Kg	☼	10/20/18 01:56	10/23/18 22:13	1
4-Bromophenyl phenyl ether	<0.050		0.19	0.050	mg/Kg	☼	10/20/18 01:56	10/23/18 22:13	1
Butyl benzyl phthalate	<0.072		0.19	0.072	mg/Kg	☼	10/20/18 01:56	10/23/18 22:13	1
Carbazole	<0.094		0.19	0.094	mg/Kg	☼	10/20/18 01:56	10/23/18 22:13	1
4-Chloroaniline	<0.18		0.76	0.18	mg/Kg	☼	10/20/18 01:56	10/23/18 22:13	1
4-Chloro-3-methylphenol	<0.13		0.37	0.13	mg/Kg	☼	10/20/18 01:56	10/23/18 22:13	1
2-Chloronaphthalene	<0.042		0.19	0.042	mg/Kg	☼	10/20/18 01:56	10/23/18 22:13	1
2-Chlorophenol	<0.064		0.19	0.064	mg/Kg	☼	10/20/18 01:56	10/23/18 22:13	1
4-Chlorophenyl phenyl ether	<0.044		0.19	0.044	mg/Kg	☼	10/20/18 01:56	10/23/18 22:13	1
Chrysene	0.67		0.037	0.010	mg/Kg	☼	10/20/18 01:56	10/23/18 22:13	1
Dibenz(a,h)anthracene	0.073		0.037	0.0073	mg/Kg	☼	10/20/18 01:56	10/23/18 22:13	1
Dibenzofuran	<0.044		0.19	0.044	mg/Kg	☼	10/20/18 01:56	10/23/18 22:13	1
1,2-Dichlorobenzene	<0.045		0.19	0.045	mg/Kg	☼	10/20/18 01:56	10/23/18 22:13	1
1,3-Dichlorobenzene	<0.042		0.19	0.042	mg/Kg	☼	10/20/18 01:56	10/23/18 22:13	1
1,4-Dichlorobenzene	<0.048		0.19	0.048	mg/Kg	☼	10/20/18 01:56	10/23/18 22:13	1
3,3'-Dichlorobenzidine	<0.053		0.19	0.053	mg/Kg	☼	10/20/18 01:56	10/23/18 22:13	1
2,4-Dichlorophenol	<0.089		0.37	0.089	mg/Kg	☼	10/20/18 01:56	10/23/18 22:13	1
Diethyl phthalate	<0.064		0.19	0.064	mg/Kg	☼	10/20/18 01:56	10/23/18 22:13	1
2,4-Dimethylphenol	<0.14		0.37	0.14	mg/Kg	☼	10/20/18 01:56	10/23/18 22:13	1
Dimethyl phthalate	<0.049		0.19	0.049	mg/Kg	☼	10/20/18 01:56	10/23/18 22:13	1
Di-n-butyl phthalate	<0.057		0.19	0.057	mg/Kg	☼	10/20/18 01:56	10/23/18 22:13	1
4,6-Dinitro-2-methylphenol	<0.30		0.76	0.30	mg/Kg	☼	10/20/18 01:56	10/23/18 22:13	1
2,4-Dinitrophenol	<0.66		0.76	0.66	mg/Kg	☼	10/20/18 01:56	10/23/18 22:13	1
2,4-Dinitrotoluene	<0.060		0.19	0.060	mg/Kg	☼	10/20/18 01:56	10/23/18 22:13	1
2,6-Dinitrotoluene	<0.074		0.19	0.074	mg/Kg	☼	10/20/18 01:56	10/23/18 22:13	1
Di-n-octyl phthalate	<0.061		0.19	0.061	mg/Kg	☼	10/20/18 01:56	10/23/18 22:13	1
Fluoranthene	1.3		0.037	0.0070	mg/Kg	☼	10/20/18 01:56	10/23/18 22:13	1
Fluorene	0.023 J		0.037	0.0053	mg/Kg	☼	10/20/18 01:56	10/23/18 22:13	1
Hexachlorobenzene	<0.0087		0.076	0.0087	mg/Kg	☼	10/20/18 01:56	10/23/18 22:13	1
Hexachlorobutadiene	<0.059		0.19	0.059	mg/Kg	☼	10/20/18 01:56	10/23/18 22:13	1
Hexachlorocyclopentadiene	<0.22		0.76	0.22	mg/Kg	☼	10/20/18 01:56	10/23/18 22:13	1
Hexachloroethane	<0.057		0.19	0.057	mg/Kg	☼	10/20/18 01:56	10/23/18 22:13	1
Indeno[1,2,3-cd]pyrene	0.26		0.037	0.0098	mg/Kg	☼	10/20/18 01:56	10/23/18 22:13	1
Isophorone	<0.042		0.19	0.042	mg/Kg	☼	10/20/18 01:56	10/23/18 22:13	1
2-Methylnaphthalene	0.0091 J		0.076	0.0069	mg/Kg	☼	10/20/18 01:56	10/23/18 22:13	1
2-Methylphenol	<0.060		0.19	0.060	mg/Kg	☼	10/20/18 01:56	10/23/18 22:13	1
3 & 4 Methylphenol	<0.063		0.19	0.063	mg/Kg	☼	10/20/18 01:56	10/23/18 22:13	1
Naphthalene	0.0094 J		0.037	0.0058	mg/Kg	☼	10/20/18 01:56	10/23/18 22:13	1
2-Nitroaniline	<0.051		0.19	0.051	mg/Kg	☼	10/20/18 01:56	10/23/18 22:13	1
3-Nitroaniline	<0.12		0.37	0.12	mg/Kg	☼	10/20/18 01:56	10/23/18 22:13	1
4-Nitroaniline	<0.16		0.37	0.16	mg/Kg	☼	10/20/18 01:56	10/23/18 22:13	1
Nitrobenzene	<0.0094		0.037	0.0094	mg/Kg	☼	10/20/18 01:56	10/23/18 22:13	1
2-Nitrophenol	<0.089		0.37	0.089	mg/Kg	☼	10/20/18 01:56	10/23/18 22:13	1
4-Nitrophenol	<0.36		0.76	0.36	mg/Kg	☼	10/20/18 01:56	10/23/18 22:13	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B09 (0-5)

Lab Sample ID: 500-153234-13

Date Collected: 10/16/18 13:00

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 87.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	<0.046		0.076	0.046	mg/Kg	☼	10/20/18 01:56	10/23/18 22:13	1
N-Nitrosodiphenylamine	<0.044		0.19	0.044	mg/Kg	☼	10/20/18 01:56	10/23/18 22:13	1
2,2'-oxybis[1-chloropropane]	<0.044		0.19	0.044	mg/Kg	☼	10/20/18 01:56	10/23/18 22:13	1
Pentachlorophenol	<0.60		0.76	0.60	mg/Kg	☼	10/20/18 01:56	10/23/18 22:13	1
Phenanthrene	0.50		0.037	0.0053	mg/Kg	☼	10/20/18 01:56	10/23/18 22:13	1
Phenol	<0.084		0.19	0.084	mg/Kg	☼	10/20/18 01:56	10/23/18 22:13	1
Pyrene	1.1		0.037	0.0075	mg/Kg	☼	10/20/18 01:56	10/23/18 22:13	1
1,2,4-Trichlorobenzene	<0.041		0.19	0.041	mg/Kg	☼	10/20/18 01:56	10/23/18 22:13	1
2,4,5-Trichlorophenol	<0.086		0.37	0.086	mg/Kg	☼	10/20/18 01:56	10/23/18 22:13	1
2,4,6-Trichlorophenol	<0.13		0.37	0.13	mg/Kg	☼	10/20/18 01:56	10/23/18 22:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	92		43 - 145	10/20/18 01:56	10/23/18 22:13	1
2-Fluorophenol	121		31 - 166	10/20/18 01:56	10/23/18 22:13	1
Nitrobenzene-d5	84		37 - 147	10/20/18 01:56	10/23/18 22:13	1
Phenol-d5	118		30 - 153	10/20/18 01:56	10/23/18 22:13	1
Terphenyl-d14	104		42 - 157	10/20/18 01:56	10/23/18 22:13	1
2,4,6-Tribromophenol	89		31 - 143	10/20/18 01:56	10/23/18 22:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	4.6		0.38	0.14	mg/Kg	☼	10/20/18 01:56	10/29/18 19:48	2

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.55	J	1.1	0.22	mg/Kg	☼	10/23/18 08:25	10/24/18 01:57	1
Arsenic	5.6		0.57	0.19	mg/Kg	☼	10/23/18 08:25	10/24/18 01:57	1
Barium	130		0.57	0.065	mg/Kg	☼	10/23/18 08:25	10/24/18 01:57	1
Beryllium	0.44		0.23	0.053	mg/Kg	☼	10/23/18 08:25	10/24/18 01:57	1
Cadmium	0.45	B	0.11	0.020	mg/Kg	☼	10/23/18 08:25	10/24/18 01:57	1
Chromium	25		0.57	0.28	mg/Kg	☼	10/23/18 08:25	10/24/18 01:57	1
Cobalt	5.6		0.28	0.074	mg/Kg	☼	10/23/18 08:25	10/24/18 01:57	1
Copper	28	B	0.57	0.16	mg/Kg	☼	10/23/18 08:25	10/24/18 01:57	1
Iron	17000	B	57	30	mg/Kg	☼	10/23/18 08:25	10/24/18 10:43	5
Lead	33		0.28	0.13	mg/Kg	☼	10/23/18 08:25	10/24/18 01:57	1
Magnesium	79000		28	14	mg/Kg	☼	10/23/18 08:25	10/24/18 10:43	5
Calcium	140000		57	9.6	mg/Kg	☼	10/23/18 08:25	10/24/18 10:43	5
Manganese	620	B	0.57	0.082	mg/Kg	☼	10/23/18 08:25	10/24/18 01:57	1
Nickel	16		0.57	0.17	mg/Kg	☼	10/23/18 08:25	10/24/18 01:57	1
Selenium	<0.33		0.57	0.33	mg/Kg	☼	10/23/18 08:25	10/24/18 01:57	1
Silver	0.20	J	0.28	0.073	mg/Kg	☼	10/23/18 08:25	10/24/18 01:57	1
Thallium	<0.28		0.57	0.28	mg/Kg	☼	10/23/18 08:25	10/24/18 01:57	1
Vanadium	22		0.28	0.067	mg/Kg	☼	10/23/18 08:25	10/24/18 01:57	1
Zinc	120		1.1	0.50	mg/Kg	☼	10/23/18 08:25	10/24/18 01:57	1
Potassium	1100		28	10	mg/Kg	☼	10/23/18 08:25	10/24/18 01:57	1
Sodium	1000		57	8.4	mg/Kg	☼	10/23/18 08:25	10/24/18 01:57	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		10/24/18 09:14	10/25/18 00:09	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B09 (0-5)

Lab Sample ID: 500-153234-13

Date Collected: 10/16/18 13:00

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 87.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.47	J	0.50	0.050	mg/L		10/24/18 09:14	10/25/18 00:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/24/18 09:14	10/25/18 00:09	1
Cadmium	0.0045	J	0.0050	0.0020	mg/L		10/24/18 09:14	10/25/18 00:09	1
Calcium	340		5.0	0.50	mg/L		10/24/18 09:14	10/25/18 00:09	1
Chromium	0.022	J B	0.025	0.010	mg/L		10/24/18 09:14	10/25/18 00:09	1
Cobalt	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/25/18 00:09	1
Copper	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/25/18 11:03	1
Iron	<0.20		0.40	0.20	mg/L		10/24/18 09:14	10/25/18 00:09	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/24/18 09:14	10/25/18 00:09	1
Magnesium	160		2.5	0.50	mg/L		10/24/18 09:14	10/25/18 00:09	1
Manganese	0.85		0.025	0.010	mg/L		10/24/18 09:14	10/25/18 00:09	1
Nickel	0.016	J	0.025	0.010	mg/L		10/24/18 09:14	10/25/18 00:09	1
Potassium	0.91	J	2.5	0.50	mg/L		10/24/18 09:14	10/25/18 00:09	1
Selenium	<0.020		0.050	0.020	mg/L		10/24/18 09:14	10/25/18 00:09	1
Silver	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/25/18 00:09	1
Vanadium	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/25/18 00:09	1
Zinc	0.14	J B	0.50	0.020	mg/L		10/24/18 09:14	10/25/18 00:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.89		0.025	0.010	mg/L		10/24/18 15:28	10/25/18 12:19	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		10/24/18 09:14	10/25/18 13:24	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/24/18 09:14	10/25/18 05:45	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		10/24/18 11:25	10/25/18 08:38	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018	B	0.018	0.0060	mg/Kg	☼	10/23/18 15:50	10/24/18 09:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.18		0.52	0.18	mg/Kg	☼	10/25/18 13:30	10/25/18 18:47	1
pH	8.8		0.2	0.2	SU			10/23/18 18:18	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B08 (0-5)

Lab Sample ID: 500-153234-14

Date Collected: 10/16/18 13:25

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0075		0.017	0.0075	mg/Kg	☼	10/17/18 18:00	10/25/18 09:20	1
Benzene	<0.00044		0.0017	0.00044	mg/Kg	☼	10/17/18 18:00	10/25/18 09:20	1
Bromodichloromethane	<0.00035		0.0017	0.00035	mg/Kg	☼	10/17/18 18:00	10/25/18 09:20	1
Bromoform	<0.00050		0.0017	0.00050	mg/Kg	☼	10/17/18 18:00	10/25/18 09:20	1
Bromomethane	<0.0016	*	0.0043	0.0016	mg/Kg	☼	10/17/18 18:00	10/25/18 09:20	1
2-Butanone (MEK)	<0.0019		0.0043	0.0019	mg/Kg	☼	10/17/18 18:00	10/25/18 09:20	1
Carbon disulfide	<0.00090		0.0043	0.00090	mg/Kg	☼	10/17/18 18:00	10/25/18 09:20	1
Carbon tetrachloride	<0.00050		0.0017	0.00050	mg/Kg	☼	10/17/18 18:00	10/25/18 09:20	1
Chlorobenzene	<0.00064		0.0017	0.00064	mg/Kg	☼	10/17/18 18:00	10/25/18 09:20	1
Chloroethane	<0.0013	*	0.0043	0.0013	mg/Kg	☼	10/17/18 18:00	10/25/18 09:20	1
Chloroform	<0.00060		0.0017	0.00060	mg/Kg	☼	10/17/18 18:00	10/25/18 09:20	1
Chloromethane	<0.0017		0.0043	0.0017	mg/Kg	☼	10/17/18 18:00	10/25/18 09:20	1
cis-1,2-Dichloroethene	<0.00048		0.0017	0.00048	mg/Kg	☼	10/17/18 18:00	10/25/18 09:20	1
cis-1,3-Dichloropropene	<0.00052		0.0017	0.00052	mg/Kg	☼	10/17/18 18:00	10/25/18 09:20	1
Dibromochloromethane	<0.00056		0.0017	0.00056	mg/Kg	☼	10/17/18 18:00	10/25/18 09:20	1
1,1-Dichloroethane	<0.00059		0.0017	0.00059	mg/Kg	☼	10/17/18 18:00	10/25/18 09:20	1
1,2-Dichloroethane	<0.0013		0.0043	0.0013	mg/Kg	☼	10/17/18 18:00	10/25/18 09:20	1
1,1-Dichloroethene	<0.00059		0.0017	0.00059	mg/Kg	☼	10/17/18 18:00	10/25/18 09:20	1
1,2-Dichloropropane	<0.00045		0.0017	0.00045	mg/Kg	☼	10/17/18 18:00	10/25/18 09:20	1
1,3-Dichloropropane, Total	<0.00060		0.0017	0.00060	mg/Kg	☼	10/17/18 18:00	10/25/18 09:20	1
Ethylbenzene	<0.00082		0.0017	0.00082	mg/Kg	☼	10/17/18 18:00	10/25/18 09:20	1
2-Hexanone	<0.0013		0.0043	0.0013	mg/Kg	☼	10/17/18 18:00	10/25/18 09:20	1
Methylene Chloride	<0.0017		0.0043	0.0017	mg/Kg	☼	10/17/18 18:00	10/25/18 09:20	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0043	0.0013	mg/Kg	☼	10/17/18 18:00	10/25/18 09:20	1
Methyl tert-butyl ether	<0.00051		0.0017	0.00051	mg/Kg	☼	10/17/18 18:00	10/25/18 09:20	1
Styrene	<0.00052		0.0017	0.00052	mg/Kg	☼	10/17/18 18:00	10/25/18 09:20	1
1,1,2,2-Tetrachloroethane	<0.00055		0.0017	0.00055	mg/Kg	☼	10/17/18 18:00	10/25/18 09:20	1
Tetrachloroethene	<0.00059		0.0017	0.00059	mg/Kg	☼	10/17/18 18:00	10/25/18 09:20	1
Toluene	<0.00044		0.0017	0.00044	mg/Kg	☼	10/17/18 18:00	10/25/18 09:20	1
trans-1,2-Dichloroethene	<0.00076		0.0017	0.00076	mg/Kg	☼	10/17/18 18:00	10/25/18 09:20	1
trans-1,3-Dichloropropene	<0.00060		0.0017	0.00060	mg/Kg	☼	10/17/18 18:00	10/25/18 09:20	1
1,1,1-Trichloroethane	<0.00058		0.0017	0.00058	mg/Kg	☼	10/17/18 18:00	10/25/18 09:20	1
1,1,2-Trichloroethane	<0.00074		0.0017	0.00074	mg/Kg	☼	10/17/18 18:00	10/25/18 09:20	1
Trichloroethene	<0.00058		0.0017	0.00058	mg/Kg	☼	10/17/18 18:00	10/25/18 09:20	1
Vinyl acetate	<0.0015		0.0043	0.0015	mg/Kg	☼	10/17/18 18:00	10/25/18 09:20	1
Vinyl chloride	<0.00076		0.0017	0.00076	mg/Kg	☼	10/17/18 18:00	10/25/18 09:20	1
Xylenes, Total	<0.00055		0.0034	0.00055	mg/Kg	☼	10/17/18 18:00	10/25/18 09:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		75 - 131	10/17/18 18:00	10/25/18 09:20	1
Dibromofluoromethane	95		75 - 126	10/17/18 18:00	10/25/18 09:20	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	10/17/18 18:00	10/25/18 09:20	1
Toluene-d8 (Surr)	91		75 - 124	10/17/18 18:00	10/25/18 09:20	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	☼	10/20/18 01:56	10/23/18 19:06	1
Acenaphthylene	0.017	J	0.037	0.0049	mg/Kg	☼	10/20/18 01:56	10/23/18 19:06	1
Anthracene	0.016	J	0.037	0.0062	mg/Kg	☼	10/20/18 01:56	10/23/18 19:06	1
Benzo[a]anthracene	0.077		0.037	0.0050	mg/Kg	☼	10/20/18 01:56	10/23/18 19:06	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B08 (0-5)

Lab Sample ID: 500-153234-14

Date Collected: 10/16/18 13:25

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.088		0.037	0.0072	mg/Kg	☼	10/20/18 01:56	10/23/18 19:06	1
Benzo[b]fluoranthene	0.12		0.037	0.0081	mg/Kg	☼	10/20/18 01:56	10/23/18 19:06	1
Benzo[g,h,i]perylene	0.061		0.037	0.012	mg/Kg	☼	10/20/18 01:56	10/23/18 19:06	1
Benzo[k]fluoranthene	0.064		0.037	0.011	mg/Kg	☼	10/20/18 01:56	10/23/18 19:06	1
Bis(2-chloroethoxy)methane	<0.038		0.19	0.038	mg/Kg	☼	10/20/18 01:56	10/23/18 19:06	1
Bis(2-chloroethyl)ether	<0.056		0.19	0.056	mg/Kg	☼	10/20/18 01:56	10/23/18 19:06	1
Bis(2-ethylhexyl) phthalate	<0.068		0.19	0.068	mg/Kg	☼	10/20/18 01:56	10/23/18 19:06	1
4-Bromophenyl phenyl ether	<0.049		0.19	0.049	mg/Kg	☼	10/20/18 01:56	10/23/18 19:06	1
Butyl benzyl phthalate	<0.071		0.19	0.071	mg/Kg	☼	10/20/18 01:56	10/23/18 19:06	1
Carbazole	<0.093		0.19	0.093	mg/Kg	☼	10/20/18 01:56	10/23/18 19:06	1
4-Chloroaniline	<0.18		0.75	0.18	mg/Kg	☼	10/20/18 01:56	10/23/18 19:06	1
4-Chloro-3-methylphenol	<0.13		0.37	0.13	mg/Kg	☼	10/20/18 01:56	10/23/18 19:06	1
2-Chloronaphthalene	<0.041		0.19	0.041	mg/Kg	☼	10/20/18 01:56	10/23/18 19:06	1
2-Chlorophenol	<0.064		0.19	0.064	mg/Kg	☼	10/20/18 01:56	10/23/18 19:06	1
4-Chlorophenyl phenyl ether	<0.044		0.19	0.044	mg/Kg	☼	10/20/18 01:56	10/23/18 19:06	1
Chrysene	0.094		0.037	0.010	mg/Kg	☼	10/20/18 01:56	10/23/18 19:06	1
Dibenz(a,h)anthracene	0.030 J		0.037	0.0072	mg/Kg	☼	10/20/18 01:56	10/23/18 19:06	1
Dibenzofuran	<0.044		0.19	0.044	mg/Kg	☼	10/20/18 01:56	10/23/18 19:06	1
1,2-Dichlorobenzene	<0.045		0.19	0.045	mg/Kg	☼	10/20/18 01:56	10/23/18 19:06	1
1,3-Dichlorobenzene	<0.042		0.19	0.042	mg/Kg	☼	10/20/18 01:56	10/23/18 19:06	1
1,4-Dichlorobenzene	<0.048		0.19	0.048	mg/Kg	☼	10/20/18 01:56	10/23/18 19:06	1
3,3'-Dichlorobenzidine	<0.052		0.19	0.052	mg/Kg	☼	10/20/18 01:56	10/23/18 19:06	1
2,4-Dichlorophenol	<0.089		0.37	0.089	mg/Kg	☼	10/20/18 01:56	10/23/18 19:06	1
Diethyl phthalate	<0.063		0.19	0.063	mg/Kg	☼	10/20/18 01:56	10/23/18 19:06	1
2,4-Dimethylphenol	<0.14		0.37	0.14	mg/Kg	☼	10/20/18 01:56	10/23/18 19:06	1
Dimethyl phthalate	<0.049		0.19	0.049	mg/Kg	☼	10/20/18 01:56	10/23/18 19:06	1
Di-n-butyl phthalate	<0.057		0.19	0.057	mg/Kg	☼	10/20/18 01:56	10/23/18 19:06	1
4,6-Dinitro-2-methylphenol	<0.30		0.75	0.30	mg/Kg	☼	10/20/18 01:56	10/23/18 19:06	1
2,4-Dinitrophenol	<0.66		0.75	0.66	mg/Kg	☼	10/20/18 01:56	10/23/18 19:06	1
2,4-Dinitrotoluene	<0.059		0.19	0.059	mg/Kg	☼	10/20/18 01:56	10/23/18 19:06	1
2,6-Dinitrotoluene	<0.073		0.19	0.073	mg/Kg	☼	10/20/18 01:56	10/23/18 19:06	1
Di-n-octyl phthalate	<0.061		0.19	0.061	mg/Kg	☼	10/20/18 01:56	10/23/18 19:06	1
Fluoranthene	0.15		0.037	0.0069	mg/Kg	☼	10/20/18 01:56	10/23/18 19:06	1
Fluorene	<0.0052		0.037	0.0052	mg/Kg	☼	10/20/18 01:56	10/23/18 19:06	1
Hexachlorobenzene	<0.0086		0.075	0.0086	mg/Kg	☼	10/20/18 01:56	10/23/18 19:06	1
Hexachlorobutadiene	<0.059		0.19	0.059	mg/Kg	☼	10/20/18 01:56	10/23/18 19:06	1
Hexachlorocyclopentadiene	<0.21		0.75	0.21	mg/Kg	☼	10/20/18 01:56	10/23/18 19:06	1
Hexachloroethane	<0.057		0.19	0.057	mg/Kg	☼	10/20/18 01:56	10/23/18 19:06	1
Indeno[1,2,3-cd]pyrene	0.067		0.037	0.0097	mg/Kg	☼	10/20/18 01:56	10/23/18 19:06	1
Isophorone	<0.042		0.19	0.042	mg/Kg	☼	10/20/18 01:56	10/23/18 19:06	1
2-Methylnaphthalene	<0.0069		0.075	0.0069	mg/Kg	☼	10/20/18 01:56	10/23/18 19:06	1
2-Methylphenol	<0.060		0.19	0.060	mg/Kg	☼	10/20/18 01:56	10/23/18 19:06	1
3 & 4 Methylphenol	<0.062		0.19	0.062	mg/Kg	☼	10/20/18 01:56	10/23/18 19:06	1
Naphthalene	<0.0057		0.037	0.0057	mg/Kg	☼	10/20/18 01:56	10/23/18 19:06	1
2-Nitroaniline	<0.050		0.19	0.050	mg/Kg	☼	10/20/18 01:56	10/23/18 19:06	1
3-Nitroaniline	<0.12		0.37	0.12	mg/Kg	☼	10/20/18 01:56	10/23/18 19:06	1
4-Nitroaniline	<0.16		0.37	0.16	mg/Kg	☼	10/20/18 01:56	10/23/18 19:06	1
Nitrobenzene	<0.0093		0.037	0.0093	mg/Kg	☼	10/20/18 01:56	10/23/18 19:06	1
2-Nitrophenol	<0.088		0.37	0.088	mg/Kg	☼	10/20/18 01:56	10/23/18 19:06	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B08 (0-5)

Lab Sample ID: 500-153234-14

Date Collected: 10/16/18 13:25

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 85.9

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	☼	10/20/18 01:56	10/23/18 19:06	1
N-Nitrosodi-n-propylamine	<0.046		0.075	0.046	mg/Kg	☼	10/20/18 01:56	10/23/18 19:06	1
N-Nitrosodiphenylamine	<0.044		0.19	0.044	mg/Kg	☼	10/20/18 01:56	10/23/18 19:06	1
2,2'-oxybis[1-chloropropane]	<0.043		0.19	0.043	mg/Kg	☼	10/20/18 01:56	10/23/18 19:06	1
Pentachlorophenol	<0.60		0.75	0.60	mg/Kg	☼	10/20/18 01:56	10/23/18 19:06	1
Phenanthrene	0.061		0.037	0.0052	mg/Kg	☼	10/20/18 01:56	10/23/18 19:06	1
Phenol	<0.083		0.19	0.083	mg/Kg	☼	10/20/18 01:56	10/23/18 19:06	1
Pyrene	0.13		0.037	0.0074	mg/Kg	☼	10/20/18 01:56	10/23/18 19:06	1
1,2,4-Trichlorobenzene	<0.040		0.19	0.040	mg/Kg	☼	10/20/18 01:56	10/23/18 19:06	1
2,4,5-Trichlorophenol	<0.085		0.37	0.085	mg/Kg	☼	10/20/18 01:56	10/23/18 19:06	1
2,4,6-Trichlorophenol	<0.13		0.37	0.13	mg/Kg	☼	10/20/18 01:56	10/23/18 19:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	89		43 - 145	10/20/18 01:56	10/23/18 19:06	1
2-Fluorophenol	119		31 - 166	10/20/18 01:56	10/23/18 19:06	1
Nitrobenzene-d5	81		37 - 147	10/20/18 01:56	10/23/18 19:06	1
Phenol-d5	115		30 - 153	10/20/18 01:56	10/23/18 19:06	1
Terphenyl-d14	98		42 - 157	10/20/18 01:56	10/23/18 19:06	1
2,4,6-Tribromophenol	68		31 - 143	10/20/18 01:56	10/23/18 19:06	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.50	J	1.2	0.22	mg/Kg	☼	10/23/18 08:25	10/24/18 02:01	1
Arsenic	11		0.58	0.20	mg/Kg	☼	10/23/18 08:25	10/24/18 02:01	1
Barium	85		0.58	0.066	mg/Kg	☼	10/23/18 08:25	10/24/18 02:01	1
Beryllium	0.71		0.23	0.054	mg/Kg	☼	10/23/18 08:25	10/24/18 02:01	1
Cadmium	0.53	B	0.12	0.021	mg/Kg	☼	10/23/18 08:25	10/24/18 02:01	1
Chromium	14		0.58	0.29	mg/Kg	☼	10/23/18 08:25	10/24/18 02:01	1
Cobalt	7.5		0.29	0.076	mg/Kg	☼	10/23/18 08:25	10/24/18 02:01	1
Copper	22	B	0.58	0.16	mg/Kg	☼	10/23/18 08:25	10/24/18 02:01	1
Iron	19000	B	12	6.0	mg/Kg	☼	10/23/18 08:25	10/24/18 02:01	1
Lead	110		0.29	0.13	mg/Kg	☼	10/23/18 08:25	10/24/18 02:01	1
Magnesium	41000		5.8	2.9	mg/Kg	☼	10/23/18 08:25	10/24/18 02:01	1
Calcium	91000		58	9.8	mg/Kg	☼	10/23/18 08:25	10/24/18 10:47	5
Manganese	440	B	0.58	0.084	mg/Kg	☼	10/23/18 08:25	10/24/18 02:01	1
Nickel	19		0.58	0.17	mg/Kg	☼	10/23/18 08:25	10/24/18 02:01	1
Selenium	<0.34		0.58	0.34	mg/Kg	☼	10/23/18 08:25	10/24/18 02:01	1
Silver	0.15	J	0.29	0.074	mg/Kg	☼	10/23/18 08:25	10/24/18 02:01	1
Thallium	<0.29		0.58	0.29	mg/Kg	☼	10/23/18 08:25	10/24/18 02:01	1
Vanadium	20		0.29	0.068	mg/Kg	☼	10/23/18 08:25	10/24/18 02:01	1
Zinc	88		1.2	0.51	mg/Kg	☼	10/23/18 08:25	10/24/18 02:01	1
Potassium	1600		29	10	mg/Kg	☼	10/23/18 08:25	10/24/18 02:01	1
Sodium	990		58	8.5	mg/Kg	☼	10/23/18 08:25	10/24/18 02:01	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		10/24/18 09:14	10/25/18 00:13	1
Barium	0.57		0.50	0.050	mg/L		10/24/18 09:14	10/25/18 00:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/24/18 09:14	10/25/18 00:13	1
Cadmium	0.0045	J	0.0050	0.0020	mg/L		10/24/18 09:14	10/25/18 00:13	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B08 (0-5)

Lab Sample ID: 500-153234-14

Date Collected: 10/16/18 13:25

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 85.9

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		10/24/18 09:14	10/25/18 00:13	1
Chromium	0.022	J B	0.025	0.010	mg/L		10/24/18 09:14	10/25/18 00:13	1
Cobalt	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/25/18 00:13	1
Copper	0.010	J ^	0.025	0.010	mg/L		10/24/18 09:14	10/25/18 00:13	1
Iron	<0.20		0.40	0.20	mg/L		10/24/18 09:14	10/25/18 00:13	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/24/18 09:14	10/25/18 00:13	1
Magnesium	170		2.5	0.50	mg/L		10/24/18 09:14	10/25/18 00:13	1
Manganese	0.18		0.025	0.010	mg/L		10/24/18 09:14	10/25/18 00:13	1
Nickel	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/25/18 00:13	1
Potassium	0.58	J	2.5	0.50	mg/L		10/24/18 09:14	10/25/18 00:13	1
Selenium	<0.020		0.050	0.020	mg/L		10/24/18 09:14	10/25/18 00:13	1
Silver	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/25/18 00:13	1
Vanadium	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/25/18 00:13	1
Zinc	0.31	J B	0.50	0.020	mg/L		10/24/18 09:14	10/25/18 00:13	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		10/24/18 15:28	10/25/18 12:23	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		10/24/18 09:14	10/25/18 13:25	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/24/18 09:14	10/25/18 05:49	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		10/24/18 11:25	10/25/18 08:40	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028	B	0.017	0.0057	mg/Kg	☼	10/23/18 15:50	10/24/18 09:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.17		0.48	0.17	mg/Kg	☼	10/25/18 13:30	10/25/18 18:48	1
pH	8.9		0.2	0.2	SU			10/23/18 18:18	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B07 (0-5)

Lab Sample ID: 500-153234-15

Date Collected: 10/16/18 13:55

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 88.0

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	☼	10/17/18 18:00	10/25/18 09:45	1
Benzene	<0.00046		0.0018	0.00046	mg/Kg	☼	10/17/18 18:00	10/25/18 09:45	1
Bromodichloromethane	<0.00037		0.0018	0.00037	mg/Kg	☼	10/17/18 18:00	10/25/18 09:45	1
Bromoform	<0.00053		0.0018	0.00053	mg/Kg	☼	10/17/18 18:00	10/25/18 09:45	1
Bromomethane	<0.0017	*	0.0045	0.0017	mg/Kg	☼	10/17/18 18:00	10/25/18 09:45	1
2-Butanone (MEK)	<0.0020		0.0045	0.0020	mg/Kg	☼	10/17/18 18:00	10/25/18 09:45	1
Carbon disulfide	<0.00094		0.0045	0.00094	mg/Kg	☼	10/17/18 18:00	10/25/18 09:45	1
Carbon tetrachloride	<0.00052		0.0018	0.00052	mg/Kg	☼	10/17/18 18:00	10/25/18 09:45	1
Chlorobenzene	<0.00066		0.0018	0.00066	mg/Kg	☼	10/17/18 18:00	10/25/18 09:45	1
Chloroethane	<0.0013	*	0.0045	0.0013	mg/Kg	☼	10/17/18 18:00	10/25/18 09:45	1
Chloroform	<0.00062		0.0018	0.00062	mg/Kg	☼	10/17/18 18:00	10/25/18 09:45	1
Chloromethane	<0.0018		0.0045	0.0018	mg/Kg	☼	10/17/18 18:00	10/25/18 09:45	1
cis-1,2-Dichloroethene	<0.00050		0.0018	0.00050	mg/Kg	☼	10/17/18 18:00	10/25/18 09:45	1
cis-1,3-Dichloropropene	<0.00054		0.0018	0.00054	mg/Kg	☼	10/17/18 18:00	10/25/18 09:45	1
Dibromochloromethane	<0.00059		0.0018	0.00059	mg/Kg	☼	10/17/18 18:00	10/25/18 09:45	1
1,1-Dichloroethane	<0.00062		0.0018	0.00062	mg/Kg	☼	10/17/18 18:00	10/25/18 09:45	1
1,2-Dichloroethane	<0.0014		0.0045	0.0014	mg/Kg	☼	10/17/18 18:00	10/25/18 09:45	1
1,1-Dichloroethene	<0.00062		0.0018	0.00062	mg/Kg	☼	10/17/18 18:00	10/25/18 09:45	1
1,2-Dichloropropane	<0.00047		0.0018	0.00047	mg/Kg	☼	10/17/18 18:00	10/25/18 09:45	1
1,3-Dichloropropane, Total	<0.00063		0.0018	0.00063	mg/Kg	☼	10/17/18 18:00	10/25/18 09:45	1
Ethylbenzene	<0.00086		0.0018	0.00086	mg/Kg	☼	10/17/18 18:00	10/25/18 09:45	1
2-Hexanone	<0.0014		0.0045	0.0014	mg/Kg	☼	10/17/18 18:00	10/25/18 09:45	1
Methylene Chloride	<0.0018		0.0045	0.0018	mg/Kg	☼	10/17/18 18:00	10/25/18 09:45	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0045	0.0013	mg/Kg	☼	10/17/18 18:00	10/25/18 09:45	1
Methyl tert-butyl ether	<0.00053		0.0018	0.00053	mg/Kg	☼	10/17/18 18:00	10/25/18 09:45	1
Styrene	<0.00054		0.0018	0.00054	mg/Kg	☼	10/17/18 18:00	10/25/18 09:45	1
1,1,2,2-Tetrachloroethane	<0.00058		0.0018	0.00058	mg/Kg	☼	10/17/18 18:00	10/25/18 09:45	1
Tetrachloroethene	<0.00061		0.0018	0.00061	mg/Kg	☼	10/17/18 18:00	10/25/18 09:45	1
Toluene	<0.00045		0.0018	0.00045	mg/Kg	☼	10/17/18 18:00	10/25/18 09:45	1
trans-1,2-Dichloroethene	<0.00080		0.0018	0.00080	mg/Kg	☼	10/17/18 18:00	10/25/18 09:45	1
trans-1,3-Dichloropropene	<0.00063		0.0018	0.00063	mg/Kg	☼	10/17/18 18:00	10/25/18 09:45	1
1,1,1-Trichloroethane	<0.00060		0.0018	0.00060	mg/Kg	☼	10/17/18 18:00	10/25/18 09:45	1
1,1,2-Trichloroethane	<0.00077		0.0018	0.00077	mg/Kg	☼	10/17/18 18:00	10/25/18 09:45	1
Trichloroethene	<0.00061		0.0018	0.00061	mg/Kg	☼	10/17/18 18:00	10/25/18 09:45	1
Vinyl acetate	<0.0016		0.0045	0.0016	mg/Kg	☼	10/17/18 18:00	10/25/18 09:45	1
Vinyl chloride	<0.00080		0.0018	0.00080	mg/Kg	☼	10/17/18 18:00	10/25/18 09:45	1
Xylenes, Total	<0.00058		0.0036	0.00058	mg/Kg	☼	10/17/18 18:00	10/25/18 09:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		75 - 131	10/17/18 18:00	10/25/18 09:45	1
Dibromofluoromethane	94		75 - 126	10/17/18 18:00	10/25/18 09:45	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	10/17/18 18:00	10/25/18 09:45	1
Toluene-d8 (Surr)	93		75 - 124	10/17/18 18:00	10/25/18 09:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.015	J	0.037	0.0067	mg/Kg	☼	10/20/18 01:56	10/30/18 13:16	1
Acenaphthylene	0.018	J	0.037	0.0049	mg/Kg	☼	10/20/18 01:56	10/30/18 13:16	1
Anthracene	0.063		0.037	0.0062	mg/Kg	☼	10/20/18 01:56	10/30/18 13:16	1
Benzo[a]anthracene	0.27		0.037	0.0050	mg/Kg	☼	10/20/18 01:56	10/30/18 13:16	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B07 (0-5)

Lab Sample ID: 500-153234-15

Date Collected: 10/16/18 13:55

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 88.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.32		0.037	0.0072	mg/Kg	☼	10/20/18 01:56	10/30/18 13:16	1
Benzo[b]fluoranthene	0.73		0.037	0.0080	mg/Kg	☼	10/20/18 01:56	10/30/18 13:16	1
Benzo[g,h,i]perylene	0.16		0.037	0.012	mg/Kg	☼	10/20/18 01:56	10/30/18 13:16	1
Benzo[k]fluoranthene	0.26		0.037	0.011	mg/Kg	☼	10/20/18 01:56	10/30/18 13:16	1
Bis(2-chloroethoxy)methane	<0.038		0.19	0.038	mg/Kg	☼	10/20/18 01:56	10/30/18 13:16	1
Bis(2-chloroethyl)ether	<0.056		0.19	0.056	mg/Kg	☼	10/20/18 01:56	10/30/18 13:16	1
Bis(2-ethylhexyl) phthalate	0.10	J	0.19	0.068	mg/Kg	☼	10/20/18 01:56	10/30/18 13:16	1
4-Bromophenyl phenyl ether	<0.049		0.19	0.049	mg/Kg	☼	10/20/18 01:56	10/30/18 13:16	1
Butyl benzyl phthalate	0.11	J	0.19	0.071	mg/Kg	☼	10/20/18 01:56	10/30/18 13:16	1
Carbazole	<0.093		0.19	0.093	mg/Kg	☼	10/20/18 01:56	10/30/18 13:16	1
4-Chloroaniline	<0.18		0.75	0.18	mg/Kg	☼	10/20/18 01:56	10/30/18 13:16	1
4-Chloro-3-methylphenol	<0.13		0.37	0.13	mg/Kg	☼	10/20/18 01:56	10/30/18 13:16	1
2-Chloronaphthalene	<0.041		0.19	0.041	mg/Kg	☼	10/20/18 01:56	10/30/18 13:16	1
2-Chlorophenol	<0.064		0.19	0.064	mg/Kg	☼	10/20/18 01:56	10/30/18 13:16	1
4-Chlorophenyl phenyl ether	<0.044		0.19	0.044	mg/Kg	☼	10/20/18 01:56	10/30/18 13:16	1
Chrysene	0.34		0.037	0.010	mg/Kg	☼	10/20/18 01:56	10/30/18 13:16	1
Dibenz(a,h)anthracene	0.039		0.037	0.0072	mg/Kg	☼	10/20/18 01:56	10/30/18 13:16	1
Dibenzofuran	<0.044		0.19	0.044	mg/Kg	☼	10/20/18 01:56	10/30/18 13:16	1
1,2-Dichlorobenzene	<0.045		0.19	0.045	mg/Kg	☼	10/20/18 01:56	10/30/18 13:16	1
1,3-Dichlorobenzene	<0.042		0.19	0.042	mg/Kg	☼	10/20/18 01:56	10/30/18 13:16	1
1,4-Dichlorobenzene	<0.048		0.19	0.048	mg/Kg	☼	10/20/18 01:56	10/30/18 13:16	1
3,3'-Dichlorobenzidine	<0.052		0.19	0.052	mg/Kg	☼	10/20/18 01:56	10/30/18 13:16	1
2,4-Dichlorophenol	<0.089		0.37	0.089	mg/Kg	☼	10/20/18 01:56	10/30/18 13:16	1
Diethyl phthalate	<0.063		0.19	0.063	mg/Kg	☼	10/20/18 01:56	10/30/18 13:16	1
2,4-Dimethylphenol	<0.14		0.37	0.14	mg/Kg	☼	10/20/18 01:56	10/30/18 13:16	1
Dimethyl phthalate	<0.049		0.19	0.049	mg/Kg	☼	10/20/18 01:56	10/30/18 13:16	1
Di-n-butyl phthalate	<0.057		0.19	0.057	mg/Kg	☼	10/20/18 01:56	10/30/18 13:16	1
4,6-Dinitro-2-methylphenol	<0.30		0.75	0.30	mg/Kg	☼	10/20/18 01:56	10/30/18 13:16	1
2,4-Dinitrophenol	<0.66		0.75	0.66	mg/Kg	☼	10/20/18 01:56	10/30/18 13:16	1
2,4-Dinitrotoluene	<0.059		0.19	0.059	mg/Kg	☼	10/20/18 01:56	10/30/18 13:16	1
2,6-Dinitrotoluene	<0.073		0.19	0.073	mg/Kg	☼	10/20/18 01:56	10/30/18 13:16	1
Di-n-octyl phthalate	<0.061		0.19	0.061	mg/Kg	☼	10/20/18 01:56	10/30/18 13:16	1
Fluoranthene	0.70		0.037	0.0069	mg/Kg	☼	10/20/18 01:56	10/30/18 13:16	1
Fluorene	0.016	J	0.037	0.0052	mg/Kg	☼	10/20/18 01:56	10/30/18 13:16	1
Hexachlorobenzene	<0.0086		0.075	0.0086	mg/Kg	☼	10/20/18 01:56	10/30/18 13:16	1
Hexachlorobutadiene	<0.059		0.19	0.059	mg/Kg	☼	10/20/18 01:56	10/30/18 13:16	1
Hexachlorocyclopentadiene	<0.21		0.75	0.21	mg/Kg	☼	10/20/18 01:56	10/30/18 13:16	1
Hexachloroethane	<0.057		0.19	0.057	mg/Kg	☼	10/20/18 01:56	10/30/18 13:16	1
Indeno[1,2,3-cd]pyrene	0.14		0.037	0.0097	mg/Kg	☼	10/20/18 01:56	10/30/18 13:16	1
Isophorone	<0.042		0.19	0.042	mg/Kg	☼	10/20/18 01:56	10/30/18 13:16	1
2-Methylnaphthalene	0.012	J	0.075	0.0069	mg/Kg	☼	10/20/18 01:56	10/30/18 13:16	1
2-Methylphenol	<0.060		0.19	0.060	mg/Kg	☼	10/20/18 01:56	10/30/18 13:16	1
3 & 4 Methylphenol	<0.062		0.19	0.062	mg/Kg	☼	10/20/18 01:56	10/30/18 13:16	1
Naphthalene	0.0087	J	0.037	0.0057	mg/Kg	☼	10/20/18 01:56	10/30/18 13:16	1
2-Nitroaniline	<0.050		0.19	0.050	mg/Kg	☼	10/20/18 01:56	10/30/18 13:16	1
3-Nitroaniline	<0.12		0.37	0.12	mg/Kg	☼	10/20/18 01:56	10/30/18 13:16	1
4-Nitroaniline	<0.16		0.37	0.16	mg/Kg	☼	10/20/18 01:56	10/30/18 13:16	1
Nitrobenzene	<0.0093		0.037	0.0093	mg/Kg	☼	10/20/18 01:56	10/30/18 13:16	1
2-Nitrophenol	<0.088		0.37	0.088	mg/Kg	☼	10/20/18 01:56	10/30/18 13:16	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B07 (0-5)

Lab Sample ID: 500-153234-15

Date Collected: 10/16/18 13:55

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 88.0

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	☼	10/20/18 01:56	10/30/18 13:16	1
N-Nitrosodi-n-propylamine	<0.046		0.075	0.046	mg/Kg	☼	10/20/18 01:56	10/30/18 13:16	1
N-Nitrosodiphenylamine	<0.044		0.19	0.044	mg/Kg	☼	10/20/18 01:56	10/30/18 13:16	1
2,2'-oxybis[1-chloropropane]	<0.043		0.19	0.043	mg/Kg	☼	10/20/18 01:56	10/30/18 13:16	1
Pentachlorophenol	<0.60		0.75	0.60	mg/Kg	☼	10/20/18 01:56	10/30/18 13:16	1
Phenanthrene	0.28		0.037	0.0052	mg/Kg	☼	10/20/18 01:56	10/30/18 13:16	1
Phenol	<0.083		0.19	0.083	mg/Kg	☼	10/20/18 01:56	10/30/18 13:16	1
Pyrene	0.57		0.037	0.0074	mg/Kg	☼	10/20/18 01:56	10/30/18 13:16	1
1,2,4-Trichlorobenzene	<0.040		0.19	0.040	mg/Kg	☼	10/20/18 01:56	10/30/18 13:16	1
2,4,5-Trichlorophenol	<0.085		0.37	0.085	mg/Kg	☼	10/20/18 01:56	10/30/18 13:16	1
2,4,6-Trichlorophenol	<0.13		0.37	0.13	mg/Kg	☼	10/20/18 01:56	10/30/18 13:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	77		43 - 145	10/20/18 01:56	10/30/18 13:16	1
2-Fluorophenol	104		31 - 166	10/20/18 01:56	10/30/18 13:16	1
Nitrobenzene-d5	91		37 - 147	10/20/18 01:56	10/30/18 13:16	1
Phenol-d5	104		30 - 153	10/20/18 01:56	10/30/18 13:16	1
Terphenyl-d14	100		42 - 157	10/20/18 01:56	10/30/18 13:16	1
2,4,6-Tribromophenol	93		31 - 143	10/20/18 01:56	10/30/18 13:16	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.49	J	1.1	0.21	mg/Kg	☼	10/23/18 08:25	10/24/18 02:05	1
Arsenic	6.9		0.54	0.19	mg/Kg	☼	10/23/18 08:25	10/24/18 02:05	1
Barium	95		0.54	0.062	mg/Kg	☼	10/23/18 08:25	10/24/18 02:05	1
Beryllium	0.52		0.22	0.051	mg/Kg	☼	10/23/18 08:25	10/24/18 02:05	1
Cadmium	0.54	B	0.11	0.020	mg/Kg	☼	10/23/18 08:25	10/24/18 02:05	1
Chromium	18		0.54	0.27	mg/Kg	☼	10/23/18 08:25	10/24/18 02:05	1
Cobalt	6.9		0.27	0.071	mg/Kg	☼	10/23/18 08:25	10/24/18 02:05	1
Copper	25	B	0.54	0.15	mg/Kg	☼	10/23/18 08:25	10/24/18 02:05	1
Iron	14000	B	11	5.6	mg/Kg	☼	10/23/18 08:25	10/24/18 02:05	1
Lead	130		0.27	0.13	mg/Kg	☼	10/23/18 08:25	10/24/18 02:05	1
Magnesium	48000		5.4	2.7	mg/Kg	☼	10/23/18 08:25	10/24/18 02:05	1
Calcium	110000		54	9.2	mg/Kg	☼	10/23/18 08:25	10/24/18 10:51	5
Manganese	510	B	0.54	0.079	mg/Kg	☼	10/23/18 08:25	10/24/18 02:05	1
Nickel	19		0.54	0.16	mg/Kg	☼	10/23/18 08:25	10/24/18 02:05	1
Selenium	<0.32		0.54	0.32	mg/Kg	☼	10/23/18 08:25	10/24/18 02:05	1
Silver	0.14	J	0.27	0.070	mg/Kg	☼	10/23/18 08:25	10/24/18 02:05	1
Thallium	<0.27		0.54	0.27	mg/Kg	☼	10/23/18 08:25	10/24/18 02:05	1
Vanadium	19		0.27	0.064	mg/Kg	☼	10/23/18 08:25	10/24/18 02:05	1
Zinc	110		1.1	0.48	mg/Kg	☼	10/23/18 08:25	10/24/18 02:05	1
Potassium	1300		27	9.6	mg/Kg	☼	10/23/18 08:25	10/24/18 02:05	1
Sodium	700		54	8.0	mg/Kg	☼	10/23/18 08:25	10/24/18 02:05	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		10/24/18 09:14	10/25/18 00:17	1
Barium	0.61		0.50	0.050	mg/L		10/24/18 09:14	10/25/18 00:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/24/18 09:14	10/25/18 00:17	1
Cadmium	0.0050		0.0050	0.0020	mg/L		10/24/18 09:14	10/25/18 00:17	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B07 (0-5)

Lab Sample ID: 500-153234-15

Date Collected: 10/16/18 13:55

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 88.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	350		5.0	0.50	mg/L		10/24/18 09:14	10/25/18 00:17	1
Chromium	0.023	J B	0.025	0.010	mg/L		10/24/18 09:14	10/25/18 00:17	1
Cobalt	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/25/18 00:17	1
Copper	<0.010	^	0.025	0.010	mg/L		10/24/18 09:14	10/25/18 00:17	1
Iron	0.24	J	0.40	0.20	mg/L		10/24/18 09:14	10/25/18 00:17	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/24/18 09:14	10/25/18 00:17	1
Magnesium	170		2.5	0.50	mg/L		10/24/18 09:14	10/25/18 00:17	1
Manganese	0.35		0.025	0.010	mg/L		10/24/18 09:14	10/25/18 00:17	1
Nickel	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/25/18 00:17	1
Potassium	0.83	J	2.5	0.50	mg/L		10/24/18 09:14	10/25/18 00:17	1
Selenium	<0.020		0.050	0.020	mg/L		10/24/18 09:14	10/25/18 00:17	1
Silver	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/25/18 00:17	1
Vanadium	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/25/18 00:17	1
Zinc	0.070	J B	0.50	0.020	mg/L		10/24/18 09:14	10/25/18 00:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.66		0.025	0.010	mg/L		10/24/18 15:28	10/25/18 12:27	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		10/24/18 09:14	10/25/18 13:26	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/24/18 09:14	10/25/18 05:53	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		10/24/18 11:25	10/25/18 08:43	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023	B	0.018	0.0061	mg/Kg	☼	10/23/18 15:50	10/24/18 09:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.17		0.48	0.17	mg/Kg	☼	10/25/18 13:30	10/25/18 18:48	1
pH	9.0		0.2	0.2	SU			10/23/18 18:18	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B06 (0-5)

Lab Sample ID: 500-153234-16

Date Collected: 10/16/18 14:20

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0075		0.017	0.0075	mg/Kg	☼	10/17/18 18:00	10/25/18 10:10	1
Benzene	<0.00044		0.0017	0.00044	mg/Kg	☼	10/17/18 18:00	10/25/18 10:10	1
Bromodichloromethane	<0.00035		0.0017	0.00035	mg/Kg	☼	10/17/18 18:00	10/25/18 10:10	1
Bromoform	<0.00050		0.0017	0.00050	mg/Kg	☼	10/17/18 18:00	10/25/18 10:10	1
Bromomethane	<0.0016	*	0.0043	0.0016	mg/Kg	☼	10/17/18 18:00	10/25/18 10:10	1
2-Butanone (MEK)	<0.0019		0.0043	0.0019	mg/Kg	☼	10/17/18 18:00	10/25/18 10:10	1
Carbon disulfide	<0.00089		0.0043	0.00089	mg/Kg	☼	10/17/18 18:00	10/25/18 10:10	1
Carbon tetrachloride	<0.00050		0.0017	0.00050	mg/Kg	☼	10/17/18 18:00	10/25/18 10:10	1
Chlorobenzene	<0.00063		0.0017	0.00063	mg/Kg	☼	10/17/18 18:00	10/25/18 10:10	1
Chloroethane	<0.0013	*	0.0043	0.0013	mg/Kg	☼	10/17/18 18:00	10/25/18 10:10	1
Chloroform	<0.00060		0.0017	0.00060	mg/Kg	☼	10/17/18 18:00	10/25/18 10:10	1
Chloromethane	<0.0017		0.0043	0.0017	mg/Kg	☼	10/17/18 18:00	10/25/18 10:10	1
cis-1,2-Dichloroethene	<0.00048		0.0017	0.00048	mg/Kg	☼	10/17/18 18:00	10/25/18 10:10	1
cis-1,3-Dichloropropene	<0.00052		0.0017	0.00052	mg/Kg	☼	10/17/18 18:00	10/25/18 10:10	1
Dibromochloromethane	<0.00056		0.0017	0.00056	mg/Kg	☼	10/17/18 18:00	10/25/18 10:10	1
1,1-Dichloroethane	<0.00059		0.0017	0.00059	mg/Kg	☼	10/17/18 18:00	10/25/18 10:10	1
1,2-Dichloroethane	<0.0013		0.0043	0.0013	mg/Kg	☼	10/17/18 18:00	10/25/18 10:10	1
1,1-Dichloroethene	<0.00059		0.0017	0.00059	mg/Kg	☼	10/17/18 18:00	10/25/18 10:10	1
1,2-Dichloropropane	<0.00044		0.0017	0.00044	mg/Kg	☼	10/17/18 18:00	10/25/18 10:10	1
1,3-Dichloropropane, Total	<0.00060		0.0017	0.00060	mg/Kg	☼	10/17/18 18:00	10/25/18 10:10	1
Ethylbenzene	<0.00082		0.0017	0.00082	mg/Kg	☼	10/17/18 18:00	10/25/18 10:10	1
2-Hexanone	<0.0013		0.0043	0.0013	mg/Kg	☼	10/17/18 18:00	10/25/18 10:10	1
Methylene Chloride	<0.0017		0.0043	0.0017	mg/Kg	☼	10/17/18 18:00	10/25/18 10:10	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0043	0.0013	mg/Kg	☼	10/17/18 18:00	10/25/18 10:10	1
Methyl tert-butyl ether	<0.00051		0.0017	0.00051	mg/Kg	☼	10/17/18 18:00	10/25/18 10:10	1
Styrene	<0.00052		0.0017	0.00052	mg/Kg	☼	10/17/18 18:00	10/25/18 10:10	1
1,1,2,2-Tetrachloroethane	<0.00055		0.0017	0.00055	mg/Kg	☼	10/17/18 18:00	10/25/18 10:10	1
Tetrachloroethene	<0.00059		0.0017	0.00059	mg/Kg	☼	10/17/18 18:00	10/25/18 10:10	1
Toluene	<0.00043		0.0017	0.00043	mg/Kg	☼	10/17/18 18:00	10/25/18 10:10	1
trans-1,2-Dichloroethene	<0.00076		0.0017	0.00076	mg/Kg	☼	10/17/18 18:00	10/25/18 10:10	1
trans-1,3-Dichloropropene	<0.00060		0.0017	0.00060	mg/Kg	☼	10/17/18 18:00	10/25/18 10:10	1
1,1,1-Trichloroethane	<0.00058		0.0017	0.00058	mg/Kg	☼	10/17/18 18:00	10/25/18 10:10	1
1,1,2-Trichloroethane	<0.00074		0.0017	0.00074	mg/Kg	☼	10/17/18 18:00	10/25/18 10:10	1
Trichloroethene	<0.00058		0.0017	0.00058	mg/Kg	☼	10/17/18 18:00	10/25/18 10:10	1
Vinyl acetate	<0.0015		0.0043	0.0015	mg/Kg	☼	10/17/18 18:00	10/25/18 10:10	1
Vinyl chloride	<0.00076		0.0017	0.00076	mg/Kg	☼	10/17/18 18:00	10/25/18 10:10	1
Xylenes, Total	<0.00055		0.0034	0.00055	mg/Kg	☼	10/17/18 18:00	10/25/18 10:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		75 - 131	10/17/18 18:00	10/25/18 10:10	1
Dibromofluoromethane	96		75 - 126	10/17/18 18:00	10/25/18 10:10	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	10/17/18 18:00	10/25/18 10:10	1
Toluene-d8 (Surr)	91		75 - 124	10/17/18 18:00	10/25/18 10:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.014	J	0.039	0.0070	mg/Kg	☼	10/20/18 01:56	10/30/18 13:45	1
Acenaphthylene	0.021	J	0.039	0.0051	mg/Kg	☼	10/20/18 01:56	10/30/18 13:45	1
Anthracene	0.045		0.039	0.0065	mg/Kg	☼	10/20/18 01:56	10/30/18 13:45	1
Benzo[a]anthracene	0.18		0.039	0.0053	mg/Kg	☼	10/20/18 01:56	10/30/18 13:45	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B06 (0-5)

Lab Sample ID: 500-153234-16

Date Collected: 10/16/18 14:20

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.22		0.039	0.0076	mg/Kg	☼	10/20/18 01:56	10/30/18 13:45	1
Benzo[b]fluoranthene	0.38		0.039	0.0084	mg/Kg	☼	10/20/18 01:56	10/30/18 13:45	1
Benzo[g,h,i]perylene	0.12		0.039	0.013	mg/Kg	☼	10/20/18 01:56	10/30/18 13:45	1
Benzo[k]fluoranthene	0.14		0.039	0.012	mg/Kg	☼	10/20/18 01:56	10/30/18 13:45	1
Bis(2-chloroethoxy)methane	<0.040		0.20	0.040	mg/Kg	☼	10/20/18 01:56	10/30/18 13:45	1
Bis(2-chloroethyl)ether	<0.059		0.20	0.059	mg/Kg	☼	10/20/18 01:56	10/30/18 13:45	1
Bis(2-ethylhexyl) phthalate	0.092	J	0.20	0.071	mg/Kg	☼	10/20/18 01:56	10/30/18 13:45	1
4-Bromophenyl phenyl ether	<0.051		0.20	0.051	mg/Kg	☼	10/20/18 01:56	10/30/18 13:45	1
Butyl benzyl phthalate	0.97		0.20	0.074	mg/Kg	☼	10/20/18 01:56	10/30/18 13:45	1
Carbazole	<0.098		0.20	0.098	mg/Kg	☼	10/20/18 01:56	10/30/18 13:45	1
4-Chloroaniline	<0.18		0.79	0.18	mg/Kg	☼	10/20/18 01:56	10/30/18 13:45	1
4-Chloro-3-methylphenol	<0.13		0.39	0.13	mg/Kg	☼	10/20/18 01:56	10/30/18 13:45	1
2-Chloronaphthalene	<0.043		0.20	0.043	mg/Kg	☼	10/20/18 01:56	10/30/18 13:45	1
2-Chlorophenol	<0.067		0.20	0.067	mg/Kg	☼	10/20/18 01:56	10/30/18 13:45	1
4-Chlorophenyl phenyl ether	<0.046		0.20	0.046	mg/Kg	☼	10/20/18 01:56	10/30/18 13:45	1
Chrysene	0.24		0.039	0.011	mg/Kg	☼	10/20/18 01:56	10/30/18 13:45	1
Dibenz(a,h)anthracene	0.024	J	0.039	0.0075	mg/Kg	☼	10/20/18 01:56	10/30/18 13:45	1
Dibenzofuran	<0.046		0.20	0.046	mg/Kg	☼	10/20/18 01:56	10/30/18 13:45	1
1,2-Dichlorobenzene	<0.047		0.20	0.047	mg/Kg	☼	10/20/18 01:56	10/30/18 13:45	1
1,3-Dichlorobenzene	<0.044		0.20	0.044	mg/Kg	☼	10/20/18 01:56	10/30/18 13:45	1
1,4-Dichlorobenzene	<0.050		0.20	0.050	mg/Kg	☼	10/20/18 01:56	10/30/18 13:45	1
3,3'-Dichlorobenzidine	<0.055		0.20	0.055	mg/Kg	☼	10/20/18 01:56	10/30/18 13:45	1
2,4-Dichlorophenol	<0.093		0.39	0.093	mg/Kg	☼	10/20/18 01:56	10/30/18 13:45	1
Diethyl phthalate	<0.066		0.20	0.066	mg/Kg	☼	10/20/18 01:56	10/30/18 13:45	1
2,4-Dimethylphenol	<0.15		0.39	0.15	mg/Kg	☼	10/20/18 01:56	10/30/18 13:45	1
Dimethyl phthalate	<0.051		0.20	0.051	mg/Kg	☼	10/20/18 01:56	10/30/18 13:45	1
Di-n-butyl phthalate	<0.059		0.20	0.059	mg/Kg	☼	10/20/18 01:56	10/30/18 13:45	1
4,6-Dinitro-2-methylphenol	<0.31		0.79	0.31	mg/Kg	☼	10/20/18 01:56	10/30/18 13:45	1
2,4-Dinitrophenol	<0.69		0.79	0.69	mg/Kg	☼	10/20/18 01:56	10/30/18 13:45	1
2,4-Dinitrotoluene	<0.062		0.20	0.062	mg/Kg	☼	10/20/18 01:56	10/30/18 13:45	1
2,6-Dinitrotoluene	<0.077		0.20	0.077	mg/Kg	☼	10/20/18 01:56	10/30/18 13:45	1
Di-n-octyl phthalate	<0.064		0.20	0.064	mg/Kg	☼	10/20/18 01:56	10/30/18 13:45	1
Fluoranthene	0.44		0.039	0.0072	mg/Kg	☼	10/20/18 01:56	10/30/18 13:45	1
Fluorene	0.016	J	0.039	0.0055	mg/Kg	☼	10/20/18 01:56	10/30/18 13:45	1
Hexachlorobenzene	<0.0091		0.079	0.0091	mg/Kg	☼	10/20/18 01:56	10/30/18 13:45	1
Hexachlorobutadiene	<0.061		0.20	0.061	mg/Kg	☼	10/20/18 01:56	10/30/18 13:45	1
Hexachlorocyclopentadiene	<0.22		0.79	0.22	mg/Kg	☼	10/20/18 01:56	10/30/18 13:45	1
Hexachloroethane	<0.059		0.20	0.059	mg/Kg	☼	10/20/18 01:56	10/30/18 13:45	1
Indeno[1,2,3-cd]pyrene	0.10		0.039	0.010	mg/Kg	☼	10/20/18 01:56	10/30/18 13:45	1
Isophorone	<0.044		0.20	0.044	mg/Kg	☼	10/20/18 01:56	10/30/18 13:45	1
2-Methylnaphthalene	0.022	J	0.079	0.0072	mg/Kg	☼	10/20/18 01:56	10/30/18 13:45	1
2-Methylphenol	<0.063		0.20	0.063	mg/Kg	☼	10/20/18 01:56	10/30/18 13:45	1
3 & 4 Methylphenol	<0.065		0.20	0.065	mg/Kg	☼	10/20/18 01:56	10/30/18 13:45	1
Naphthalene	0.012	J	0.039	0.0060	mg/Kg	☼	10/20/18 01:56	10/30/18 13:45	1
2-Nitroaniline	<0.053		0.20	0.053	mg/Kg	☼	10/20/18 01:56	10/30/18 13:45	1
3-Nitroaniline	<0.12		0.39	0.12	mg/Kg	☼	10/20/18 01:56	10/30/18 13:45	1
4-Nitroaniline	<0.16		0.39	0.16	mg/Kg	☼	10/20/18 01:56	10/30/18 13:45	1
Nitrobenzene	<0.0097		0.039	0.0097	mg/Kg	☼	10/20/18 01:56	10/30/18 13:45	1
2-Nitrophenol	<0.092		0.39	0.092	mg/Kg	☼	10/20/18 01:56	10/30/18 13:45	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B06 (0-5)

Lab Sample ID: 500-153234-16

Date Collected: 10/16/18 14:20

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.37		0.79	0.37	mg/Kg	☼	10/20/18 01:56	10/30/18 13:45	1
N-Nitrosodi-n-propylamine	<0.048		0.079	0.048	mg/Kg	☼	10/20/18 01:56	10/30/18 13:45	1
N-Nitrosodiphenylamine	<0.046		0.20	0.046	mg/Kg	☼	10/20/18 01:56	10/30/18 13:45	1
2,2'-oxybis[1-chloropropane]	<0.045		0.20	0.045	mg/Kg	☼	10/20/18 01:56	10/30/18 13:45	1
Pentachlorophenol	<0.63		0.79	0.63	mg/Kg	☼	10/20/18 01:56	10/30/18 13:45	1
Phenanthrene	0.25		0.039	0.0054	mg/Kg	☼	10/20/18 01:56	10/30/18 13:45	1
Phenol	<0.087		0.20	0.087	mg/Kg	☼	10/20/18 01:56	10/30/18 13:45	1
Pyrene	0.43		0.039	0.0078	mg/Kg	☼	10/20/18 01:56	10/30/18 13:45	1
1,2,4-Trichlorobenzene	<0.042		0.20	0.042	mg/Kg	☼	10/20/18 01:56	10/30/18 13:45	1
2,4,5-Trichlorophenol	<0.089		0.39	0.089	mg/Kg	☼	10/20/18 01:56	10/30/18 13:45	1
2,4,6-Trichlorophenol	<0.13		0.39	0.13	mg/Kg	☼	10/20/18 01:56	10/30/18 13:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	96		43 - 145	10/20/18 01:56	10/30/18 13:45	1
2-Fluorophenol	131		31 - 166	10/20/18 01:56	10/30/18 13:45	1
Nitrobenzene-d5	105		37 - 147	10/20/18 01:56	10/30/18 13:45	1
Phenol-d5	128		30 - 153	10/20/18 01:56	10/30/18 13:45	1
Terphenyl-d14	134		42 - 157	10/20/18 01:56	10/30/18 13:45	1
2,4,6-Tribromophenol	101		31 - 143	10/20/18 01:56	10/30/18 13:45	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.31	J	1.2	0.22	mg/Kg	☼	10/23/18 08:25	10/24/18 02:09	1
Arsenic	9.7		0.58	0.20	mg/Kg	☼	10/23/18 08:25	10/24/18 02:09	1
Barium	84		0.58	0.066	mg/Kg	☼	10/23/18 08:25	10/24/18 02:09	1
Beryllium	0.64		0.23	0.054	mg/Kg	☼	10/23/18 08:25	10/24/18 02:09	1
Cadmium	0.51	B	0.12	0.021	mg/Kg	☼	10/23/18 08:25	10/24/18 02:09	1
Chromium	17		0.58	0.29	mg/Kg	☼	10/23/18 08:25	10/24/18 02:09	1
Cobalt	9.1		0.29	0.076	mg/Kg	☼	10/23/18 08:25	10/24/18 02:09	1
Copper	28	B	0.58	0.16	mg/Kg	☼	10/23/18 08:25	10/24/18 02:09	1
Iron	19000	B	12	6.0	mg/Kg	☼	10/23/18 08:25	10/24/18 02:09	1
Lead	130		0.29	0.13	mg/Kg	☼	10/23/18 08:25	10/24/18 02:09	1
Magnesium	29000		5.8	2.9	mg/Kg	☼	10/23/18 08:25	10/24/18 02:09	1
Calcium	62000		58	9.8	mg/Kg	☼	10/23/18 08:25	10/24/18 10:55	5
Manganese	480	B	0.58	0.084	mg/Kg	☼	10/23/18 08:25	10/24/18 02:09	1
Nickel	24		0.58	0.17	mg/Kg	☼	10/23/18 08:25	10/24/18 02:09	1
Selenium	<0.34		0.58	0.34	mg/Kg	☼	10/23/18 08:25	10/24/18 02:09	1
Silver	0.21	J	0.29	0.074	mg/Kg	☼	10/23/18 08:25	10/24/18 02:09	1
Thallium	<0.29		0.58	0.29	mg/Kg	☼	10/23/18 08:25	10/24/18 02:09	1
Vanadium	22		0.29	0.068	mg/Kg	☼	10/23/18 08:25	10/24/18 02:09	1
Zinc	110		1.2	0.51	mg/Kg	☼	10/23/18 08:25	10/24/18 02:09	1
Potassium	1600		29	10	mg/Kg	☼	10/23/18 08:25	10/24/18 02:09	1
Sodium	660		58	8.5	mg/Kg	☼	10/23/18 08:25	10/24/18 02:09	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		10/24/18 09:14	10/25/18 00:21	1
Barium	0.72		0.50	0.050	mg/L		10/24/18 09:14	10/25/18 00:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/24/18 09:14	10/25/18 00:21	1
Cadmium	0.0043	J	0.0050	0.0020	mg/L		10/24/18 09:14	10/25/18 00:21	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B06 (0-5)

Lab Sample ID: 500-153234-16

Date Collected: 10/16/18 14:20

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 83.2

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		10/24/18 09:14	10/25/18 00:21	1
Chromium	0.023	J B	0.025	0.010	mg/L		10/24/18 09:14	10/25/18 00:21	1
Cobalt	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/25/18 00:21	1
Copper	<0.010	^	0.025	0.010	mg/L		10/24/18 09:14	10/25/18 00:21	1
Iron	0.28	J	0.40	0.20	mg/L		10/24/18 09:14	10/25/18 00:21	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/24/18 09:14	10/25/18 00:21	1
Magnesium	170		2.5	0.50	mg/L		10/24/18 09:14	10/25/18 00:21	1
Manganese	0.099		0.025	0.010	mg/L		10/24/18 09:14	10/25/18 00:21	1
Nickel	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/25/18 00:21	1
Potassium	0.83	J	2.5	0.50	mg/L		10/24/18 09:14	10/25/18 00:21	1
Selenium	<0.020		0.050	0.020	mg/L		10/24/18 09:14	10/25/18 00:21	1
Silver	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/25/18 00:21	1
Vanadium	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/25/18 00:21	1
Zinc	0.35	J B	0.50	0.020	mg/L		10/24/18 09:14	10/25/18 00:21	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		10/24/18 09:14	10/25/18 13:27	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/24/18 09:14	10/25/18 05:57	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		10/24/18 11:25	10/25/18 08:45	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026	B	0.019	0.0063	mg/Kg	☼	10/23/18 15:50	10/24/18 09:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.14		0.41	0.14	mg/Kg	☼	10/25/18 17:45	10/26/18 11:37	1
pH	8.7		0.2	0.2	SU			10/23/18 18:18	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B05 (0-5)

Lab Sample ID: 500-153234-17

Date Collected: 10/16/18 14:50

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 81.4

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	☼	10/17/18 18:00	10/25/18 10:36	1
Benzene	<0.00046		0.0018	0.00046	mg/Kg	☼	10/17/18 18:00	10/25/18 10:36	1
Bromodichloromethane	<0.00036		0.0018	0.00036	mg/Kg	☼	10/17/18 18:00	10/25/18 10:36	1
Bromoform	<0.00052		0.0018	0.00052	mg/Kg	☼	10/17/18 18:00	10/25/18 10:36	1
Bromomethane	<0.0017	*	0.0045	0.0017	mg/Kg	☼	10/17/18 18:00	10/25/18 10:36	1
2-Butanone (MEK)	<0.0020		0.0045	0.0020	mg/Kg	☼	10/17/18 18:00	10/25/18 10:36	1
Carbon disulfide	<0.00093		0.0045	0.00093	mg/Kg	☼	10/17/18 18:00	10/25/18 10:36	1
Carbon tetrachloride	<0.00052		0.0018	0.00052	mg/Kg	☼	10/17/18 18:00	10/25/18 10:36	1
Chlorobenzene	<0.00066		0.0018	0.00066	mg/Kg	☼	10/17/18 18:00	10/25/18 10:36	1
Chloroethane	<0.0013	*	0.0045	0.0013	mg/Kg	☼	10/17/18 18:00	10/25/18 10:36	1
Chloroform	<0.00062		0.0018	0.00062	mg/Kg	☼	10/17/18 18:00	10/25/18 10:36	1
Chloromethane	<0.0018		0.0045	0.0018	mg/Kg	☼	10/17/18 18:00	10/25/18 10:36	1
cis-1,2-Dichloroethene	<0.00050		0.0018	0.00050	mg/Kg	☼	10/17/18 18:00	10/25/18 10:36	1
cis-1,3-Dichloropropene	<0.00054		0.0018	0.00054	mg/Kg	☼	10/17/18 18:00	10/25/18 10:36	1
Dibromochloromethane	<0.00059		0.0018	0.00059	mg/Kg	☼	10/17/18 18:00	10/25/18 10:36	1
1,1-Dichloroethane	<0.00061		0.0018	0.00061	mg/Kg	☼	10/17/18 18:00	10/25/18 10:36	1
1,2-Dichloroethane	<0.0014		0.0045	0.0014	mg/Kg	☼	10/17/18 18:00	10/25/18 10:36	1
1,1-Dichloroethene	<0.00062		0.0018	0.00062	mg/Kg	☼	10/17/18 18:00	10/25/18 10:36	1
1,2-Dichloropropane	<0.00046		0.0018	0.00046	mg/Kg	☼	10/17/18 18:00	10/25/18 10:36	1
1,3-Dichloropropene, Total	<0.00063		0.0018	0.00063	mg/Kg	☼	10/17/18 18:00	10/25/18 10:36	1
Ethylbenzene	<0.00086		0.0018	0.00086	mg/Kg	☼	10/17/18 18:00	10/25/18 10:36	1
2-Hexanone	<0.0014		0.0045	0.0014	mg/Kg	☼	10/17/18 18:00	10/25/18 10:36	1
Methylene Chloride	<0.0018		0.0045	0.0018	mg/Kg	☼	10/17/18 18:00	10/25/18 10:36	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0045	0.0013	mg/Kg	☼	10/17/18 18:00	10/25/18 10:36	1
Methyl tert-butyl ether	<0.00053		0.0018	0.00053	mg/Kg	☼	10/17/18 18:00	10/25/18 10:36	1
Styrene	<0.00054		0.0018	0.00054	mg/Kg	☼	10/17/18 18:00	10/25/18 10:36	1
1,1,2,2-Tetrachloroethane	<0.00057		0.0018	0.00057	mg/Kg	☼	10/17/18 18:00	10/25/18 10:36	1
Tetrachloroethene	<0.00061		0.0018	0.00061	mg/Kg	☼	10/17/18 18:00	10/25/18 10:36	1
Toluene	<0.00045		0.0018	0.00045	mg/Kg	☼	10/17/18 18:00	10/25/18 10:36	1
trans-1,2-Dichloroethene	<0.00079		0.0018	0.00079	mg/Kg	☼	10/17/18 18:00	10/25/18 10:36	1
trans-1,3-Dichloropropene	<0.00063		0.0018	0.00063	mg/Kg	☼	10/17/18 18:00	10/25/18 10:36	1
1,1,1-Trichloroethane	<0.00060		0.0018	0.00060	mg/Kg	☼	10/17/18 18:00	10/25/18 10:36	1
1,1,2-Trichloroethane	<0.00077		0.0018	0.00077	mg/Kg	☼	10/17/18 18:00	10/25/18 10:36	1
Trichloroethene	<0.00061		0.0018	0.00061	mg/Kg	☼	10/17/18 18:00	10/25/18 10:36	1
Vinyl acetate	<0.0016		0.0045	0.0016	mg/Kg	☼	10/17/18 18:00	10/25/18 10:36	1
Vinyl chloride	<0.00079		0.0018	0.00079	mg/Kg	☼	10/17/18 18:00	10/25/18 10:36	1
Xylenes, Total	<0.00057		0.0036	0.00057	mg/Kg	☼	10/17/18 18:00	10/25/18 10:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		75 - 131	10/17/18 18:00	10/25/18 10:36	1
Dibromofluoromethane	92		75 - 126	10/17/18 18:00	10/25/18 10:36	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	10/17/18 18:00	10/25/18 10:36	1
Toluene-d8 (Surr)	92		75 - 124	10/17/18 18:00	10/25/18 10:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0073		0.040	0.0073	mg/Kg	☼	10/20/18 01:56	10/23/18 17:20	1
Acenaphthylene	0.0056	J	0.040	0.0053	mg/Kg	☼	10/20/18 01:56	10/23/18 17:20	1
Anthracene	<0.0068		0.040	0.0068	mg/Kg	☼	10/20/18 01:56	10/23/18 17:20	1
Benzo[a]anthracene	0.042		0.040	0.0054	mg/Kg	☼	10/20/18 01:56	10/23/18 17:20	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B05 (0-5)

Lab Sample ID: 500-153234-17

Date Collected: 10/16/18 14:50

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.053		0.040	0.0078	mg/Kg	☼	10/20/18 01:56	10/23/18 17:20	1
Benzo[b]fluoranthene	0.064		0.040	0.0087	mg/Kg	☼	10/20/18 01:56	10/23/18 17:20	1
Benzo[g,h,i]perylene	0.033	J	0.040	0.013	mg/Kg	☼	10/20/18 01:56	10/23/18 17:20	1
Benzo[k]fluoranthene	0.017	J	0.040	0.012	mg/Kg	☼	10/20/18 01:56	10/23/18 17:20	1
Bis(2-chloroethoxy)methane	<0.041		0.20	0.041	mg/Kg	☼	10/20/18 01:56	10/23/18 17:20	1
Bis(2-chloroethyl)ether	<0.061		0.20	0.061	mg/Kg	☼	10/20/18 01:56	10/23/18 17:20	1
Bis(2-ethylhexyl) phthalate	<0.074		0.20	0.074	mg/Kg	☼	10/20/18 01:56	10/23/18 17:20	1
4-Bromophenyl phenyl ether	<0.053		0.20	0.053	mg/Kg	☼	10/20/18 01:56	10/23/18 17:20	1
Butyl benzyl phthalate	<0.077		0.20	0.077	mg/Kg	☼	10/20/18 01:56	10/23/18 17:20	1
Carbazole	<0.10		0.20	0.10	mg/Kg	☼	10/20/18 01:56	10/23/18 17:20	1
4-Chloroaniline	<0.19		0.82	0.19	mg/Kg	☼	10/20/18 01:56	10/23/18 17:20	1
4-Chloro-3-methylphenol	<0.14		0.40	0.14	mg/Kg	☼	10/20/18 01:56	10/23/18 17:20	1
2-Chloronaphthalene	<0.045		0.20	0.045	mg/Kg	☼	10/20/18 01:56	10/23/18 17:20	1
2-Chlorophenol	<0.069		0.20	0.069	mg/Kg	☼	10/20/18 01:56	10/23/18 17:20	1
4-Chlorophenyl phenyl ether	<0.047		0.20	0.047	mg/Kg	☼	10/20/18 01:56	10/23/18 17:20	1
Chrysene	0.047		0.040	0.011	mg/Kg	☼	10/20/18 01:56	10/23/18 17:20	1
Dibenz(a,h)anthracene	0.026	J	0.040	0.0078	mg/Kg	☼	10/20/18 01:56	10/23/18 17:20	1
Dibenzofuran	<0.047		0.20	0.047	mg/Kg	☼	10/20/18 01:56	10/23/18 17:20	1
1,2-Dichlorobenzene	<0.048		0.20	0.048	mg/Kg	☼	10/20/18 01:56	10/23/18 17:20	1
1,3-Dichlorobenzene	<0.046		0.20	0.046	mg/Kg	☼	10/20/18 01:56	10/23/18 17:20	1
1,4-Dichlorobenzene	<0.052		0.20	0.052	mg/Kg	☼	10/20/18 01:56	10/23/18 17:20	1
3,3'-Dichlorobenzidine	<0.057		0.20	0.057	mg/Kg	☼	10/20/18 01:56	10/23/18 17:20	1
2,4-Dichlorophenol	<0.096		0.40	0.096	mg/Kg	☼	10/20/18 01:56	10/23/18 17:20	1
Diethyl phthalate	<0.069		0.20	0.069	mg/Kg	☼	10/20/18 01:56	10/23/18 17:20	1
2,4-Dimethylphenol	<0.15		0.40	0.15	mg/Kg	☼	10/20/18 01:56	10/23/18 17:20	1
Dimethyl phthalate	<0.053		0.20	0.053	mg/Kg	☼	10/20/18 01:56	10/23/18 17:20	1
Di-n-butyl phthalate	<0.062		0.20	0.062	mg/Kg	☼	10/20/18 01:56	10/23/18 17:20	1
4,6-Dinitro-2-methylphenol	<0.33		0.82	0.33	mg/Kg	☼	10/20/18 01:56	10/23/18 17:20	1
2,4-Dinitrophenol	<0.71		0.82	0.71	mg/Kg	☼	10/20/18 01:56	10/23/18 17:20	1
2,4-Dinitrotoluene	<0.064		0.20	0.064	mg/Kg	☼	10/20/18 01:56	10/23/18 17:20	1
2,6-Dinitrotoluene	<0.080		0.20	0.080	mg/Kg	☼	10/20/18 01:56	10/23/18 17:20	1
Di-n-octyl phthalate	<0.066		0.20	0.066	mg/Kg	☼	10/20/18 01:56	10/23/18 17:20	1
Fluoranthene	0.058		0.040	0.0075	mg/Kg	☼	10/20/18 01:56	10/23/18 17:20	1
Fluorene	<0.0057		0.040	0.0057	mg/Kg	☼	10/20/18 01:56	10/23/18 17:20	1
Hexachlorobenzene	<0.0094		0.082	0.0094	mg/Kg	☼	10/20/18 01:56	10/23/18 17:20	1
Hexachlorobutadiene	<0.064		0.20	0.064	mg/Kg	☼	10/20/18 01:56	10/23/18 17:20	1
Hexachlorocyclopentadiene	<0.23		0.82	0.23	mg/Kg	☼	10/20/18 01:56	10/23/18 17:20	1
Hexachloroethane	<0.062		0.20	0.062	mg/Kg	☼	10/20/18 01:56	10/23/18 17:20	1
Indeno[1,2,3-cd]pyrene	0.043		0.040	0.010	mg/Kg	☼	10/20/18 01:56	10/23/18 17:20	1
Isophorone	<0.045		0.20	0.045	mg/Kg	☼	10/20/18 01:56	10/23/18 17:20	1
2-Methylnaphthalene	<0.0074		0.082	0.0074	mg/Kg	☼	10/20/18 01:56	10/23/18 17:20	1
2-Methylphenol	<0.065		0.20	0.065	mg/Kg	☼	10/20/18 01:56	10/23/18 17:20	1
3 & 4 Methylphenol	<0.068		0.20	0.068	mg/Kg	☼	10/20/18 01:56	10/23/18 17:20	1
Naphthalene	<0.0062		0.040	0.0062	mg/Kg	☼	10/20/18 01:56	10/23/18 17:20	1
2-Nitroaniline	<0.054		0.20	0.054	mg/Kg	☼	10/20/18 01:56	10/23/18 17:20	1
3-Nitroaniline	<0.13		0.40	0.13	mg/Kg	☼	10/20/18 01:56	10/23/18 17:20	1
4-Nitroaniline	<0.17		0.40	0.17	mg/Kg	☼	10/20/18 01:56	10/23/18 17:20	1
Nitrobenzene	<0.010		0.040	0.010	mg/Kg	☼	10/20/18 01:56	10/23/18 17:20	1
2-Nitrophenol	<0.096		0.40	0.096	mg/Kg	☼	10/20/18 01:56	10/23/18 17:20	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B05 (0-5)

Lab Sample ID: 500-153234-17

Date Collected: 10/16/18 14:50

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.39		0.82	0.39	mg/Kg	☼	10/20/18 01:56	10/23/18 17:20	1
N-Nitrosodi-n-propylamine	<0.049		0.082	0.049	mg/Kg	☼	10/20/18 01:56	10/23/18 17:20	1
N-Nitrosodiphenylamine	<0.048		0.20	0.048	mg/Kg	☼	10/20/18 01:56	10/23/18 17:20	1
2,2'-oxybis[1-chloropropane]	<0.047		0.20	0.047	mg/Kg	☼	10/20/18 01:56	10/23/18 17:20	1
Pentachlorophenol	<0.65		0.82	0.65	mg/Kg	☼	10/20/18 01:56	10/23/18 17:20	1
Phenanthrene	0.016	J	0.040	0.0056	mg/Kg	☼	10/20/18 01:56	10/23/18 17:20	1
Phenol	<0.090		0.20	0.090	mg/Kg	☼	10/20/18 01:56	10/23/18 17:20	1
Pyrene	0.054		0.040	0.0080	mg/Kg	☼	10/20/18 01:56	10/23/18 17:20	1
1,2,4-Trichlorobenzene	<0.044		0.20	0.044	mg/Kg	☼	10/20/18 01:56	10/23/18 17:20	1
2,4,5-Trichlorophenol	<0.092		0.40	0.092	mg/Kg	☼	10/20/18 01:56	10/23/18 17:20	1
2,4,6-Trichlorophenol	<0.14		0.40	0.14	mg/Kg	☼	10/20/18 01:56	10/23/18 17:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	82		43 - 145	10/20/18 01:56	10/23/18 17:20	1
2-Fluorophenol	113		31 - 166	10/20/18 01:56	10/23/18 17:20	1
Nitrobenzene-d5	75		37 - 147	10/20/18 01:56	10/23/18 17:20	1
Phenol-d5	108		30 - 153	10/20/18 01:56	10/23/18 17:20	1
Terphenyl-d14	91		42 - 157	10/20/18 01:56	10/23/18 17:20	1
2,4,6-Tribromophenol	65		31 - 143	10/20/18 01:56	10/23/18 17:20	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	J	1.2	0.23	mg/Kg	☼	10/23/18 08:25	10/24/18 02:13	1
Arsenic	12		0.59	0.20	mg/Kg	☼	10/23/18 08:25	10/24/18 02:13	1
Barium	75		0.59	0.067	mg/Kg	☼	10/23/18 08:25	10/24/18 02:13	1
Beryllium	0.69		0.23	0.055	mg/Kg	☼	10/23/18 08:25	10/24/18 02:13	1
Cadmium	0.38	B	0.12	0.021	mg/Kg	☼	10/23/18 08:25	10/24/18 02:13	1
Chromium	18		0.59	0.29	mg/Kg	☼	10/23/18 08:25	10/24/18 02:13	1
Cobalt	12		0.29	0.077	mg/Kg	☼	10/23/18 08:25	10/24/18 02:13	1
Copper	25	B	0.59	0.16	mg/Kg	☼	10/23/18 08:25	10/24/18 02:13	1
Iron	23000	B	12	6.1	mg/Kg	☼	10/23/18 08:25	10/24/18 02:13	1
Lead	81		0.29	0.14	mg/Kg	☼	10/23/18 08:25	10/24/18 02:13	1
Magnesium	6000		5.9	2.9	mg/Kg	☼	10/23/18 08:25	10/24/18 02:13	1
Calcium	8000		12	2.0	mg/Kg	☼	10/23/18 08:25	10/24/18 02:13	1
Manganese	590	B	0.59	0.085	mg/Kg	☼	10/23/18 08:25	10/24/18 02:13	1
Nickel	28		0.59	0.17	mg/Kg	☼	10/23/18 08:25	10/24/18 02:13	1
Selenium	0.50	J	0.59	0.34	mg/Kg	☼	10/23/18 08:25	10/24/18 02:13	1
Silver	0.26	J	0.29	0.076	mg/Kg	☼	10/23/18 08:25	10/24/18 02:13	1
Thallium	<0.29		0.59	0.29	mg/Kg	☼	10/23/18 08:25	10/24/18 02:13	1
Vanadium	28		0.29	0.069	mg/Kg	☼	10/23/18 08:25	10/24/18 02:13	1
Zinc	110		1.2	0.52	mg/Kg	☼	10/23/18 08:25	10/24/18 02:13	1
Potassium	1600		29	10	mg/Kg	☼	10/23/18 08:25	10/24/18 02:13	1
Sodium	1200		59	8.7	mg/Kg	☼	10/23/18 08:25	10/24/18 02:13	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		10/24/18 09:14	10/25/18 00:25	1
Barium	0.42	J	0.50	0.050	mg/L		10/24/18 09:14	10/25/18 00:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/24/18 09:14	10/25/18 00:25	1
Cadmium	0.0036	J	0.0050	0.0020	mg/L		10/24/18 09:14	10/25/18 00:25	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B05 (0-5)

Lab Sample ID: 500-153234-17

Date Collected: 10/16/18 14:50

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 81.4

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		10/24/18 09:14	10/25/18 00:25	1
Chromium	0.011	J B	0.025	0.010	mg/L		10/24/18 09:14	10/25/18 00:25	1
Cobalt	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/25/18 00:25	1
Copper	<0.010	^	0.025	0.010	mg/L		10/24/18 09:14	10/25/18 00:25	1
Iron	<0.20		0.40	0.20	mg/L		10/24/18 09:14	10/25/18 00:25	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/24/18 09:14	10/25/18 00:25	1
Magnesium	94		2.5	0.50	mg/L		10/24/18 09:14	10/25/18 00:25	1
Manganese	0.21		0.025	0.010	mg/L		10/24/18 09:14	10/25/18 00:25	1
Nickel	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/25/18 00:25	1
Potassium	0.58	J	2.5	0.50	mg/L		10/24/18 09:14	10/25/18 00:25	1
Selenium	<0.020		0.050	0.020	mg/L		10/24/18 09:14	10/25/18 00:25	1
Silver	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/25/18 00:25	1
Vanadium	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/25/18 00:25	1
Zinc	0.036	J B	0.50	0.020	mg/L		10/24/18 09:14	10/25/18 00:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	2.3		0.025	0.010	mg/L		10/24/18 15:28	10/25/18 12:35	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		10/24/18 09:14	10/25/18 13:28	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/24/18 09:14	10/25/18 06:00	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		10/24/18 11:25	10/25/18 08:47	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035	B	0.020	0.0066	mg/Kg	☼	10/23/18 15:50	10/24/18 09:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.20		0.59	0.20	mg/Kg	☼	10/25/18 17:45	10/26/18 11:38	1
pH	8.4		0.2	0.2	SU			10/23/18 18:18	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B04 (0-5)

Lab Sample ID: 500-153234-18

Date Collected: 10/16/18 15:20

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 81.8

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	☼	10/17/18 18:00	10/25/18 11:01	1
Benzene	<0.00048		0.0019	0.00048	mg/Kg	☼	10/17/18 18:00	10/25/18 11:01	1
Bromodichloromethane	<0.00038		0.0019	0.00038	mg/Kg	☼	10/17/18 18:00	10/25/18 11:01	1
Bromoform	<0.00054		0.0019	0.00054	mg/Kg	☼	10/17/18 18:00	10/25/18 11:01	1
Bromomethane	<0.0018	*	0.0047	0.0018	mg/Kg	☼	10/17/18 18:00	10/25/18 11:01	1
2-Butanone (MEK)	<0.0021		0.0047	0.0021	mg/Kg	☼	10/17/18 18:00	10/25/18 11:01	1
Carbon disulfide	<0.00097		0.0047	0.00097	mg/Kg	☼	10/17/18 18:00	10/25/18 11:01	1
Carbon tetrachloride	<0.00054		0.0019	0.00054	mg/Kg	☼	10/17/18 18:00	10/25/18 11:01	1
Chlorobenzene	<0.00069		0.0019	0.00069	mg/Kg	☼	10/17/18 18:00	10/25/18 11:01	1
Chloroethane	<0.0014	*	0.0047	0.0014	mg/Kg	☼	10/17/18 18:00	10/25/18 11:01	1
Chloroform	<0.00065		0.0019	0.00065	mg/Kg	☼	10/17/18 18:00	10/25/18 11:01	1
Chloromethane	<0.0019		0.0047	0.0019	mg/Kg	☼	10/17/18 18:00	10/25/18 11:01	1
cis-1,2-Dichloroethene	<0.00052		0.0019	0.00052	mg/Kg	☼	10/17/18 18:00	10/25/18 11:01	1
cis-1,3-Dichloropropene	<0.00056		0.0019	0.00056	mg/Kg	☼	10/17/18 18:00	10/25/18 11:01	1
Dibromochloromethane	<0.00061		0.0019	0.00061	mg/Kg	☼	10/17/18 18:00	10/25/18 11:01	1
1,1-Dichloroethane	<0.00064		0.0019	0.00064	mg/Kg	☼	10/17/18 18:00	10/25/18 11:01	1
1,2-Dichloroethane	<0.0015		0.0047	0.0015	mg/Kg	☼	10/17/18 18:00	10/25/18 11:01	1
1,1-Dichloroethene	<0.00064		0.0019	0.00064	mg/Kg	☼	10/17/18 18:00	10/25/18 11:01	1
1,2-Dichloropropane	<0.00048		0.0019	0.00048	mg/Kg	☼	10/17/18 18:00	10/25/18 11:01	1
1,3-Dichloropropane, Total	<0.00065		0.0019	0.00065	mg/Kg	☼	10/17/18 18:00	10/25/18 11:01	1
Ethylbenzene	<0.00089		0.0019	0.00089	mg/Kg	☼	10/17/18 18:00	10/25/18 11:01	1
2-Hexanone	<0.0015		0.0047	0.0015	mg/Kg	☼	10/17/18 18:00	10/25/18 11:01	1
Methylene Chloride	<0.0018		0.0047	0.0018	mg/Kg	☼	10/17/18 18:00	10/25/18 11:01	1
4-Methyl-2-pentanone (MIBK)	<0.0014		0.0047	0.0014	mg/Kg	☼	10/17/18 18:00	10/25/18 11:01	1
Methyl tert-butyl ether	<0.00055		0.0019	0.00055	mg/Kg	☼	10/17/18 18:00	10/25/18 11:01	1
Styrene	<0.00056		0.0019	0.00056	mg/Kg	☼	10/17/18 18:00	10/25/18 11:01	1
1,1,2,2-Tetrachloroethane	<0.00060		0.0019	0.00060	mg/Kg	☼	10/17/18 18:00	10/25/18 11:01	1
Tetrachloroethene	<0.00063		0.0019	0.00063	mg/Kg	☼	10/17/18 18:00	10/25/18 11:01	1
Toluene	<0.00047		0.0019	0.00047	mg/Kg	☼	10/17/18 18:00	10/25/18 11:01	1
trans-1,2-Dichloroethene	<0.00083		0.0019	0.00083	mg/Kg	☼	10/17/18 18:00	10/25/18 11:01	1
trans-1,3-Dichloropropene	<0.00065		0.0019	0.00065	mg/Kg	☼	10/17/18 18:00	10/25/18 11:01	1
1,1,1-Trichloroethane	<0.00062		0.0019	0.00062	mg/Kg	☼	10/17/18 18:00	10/25/18 11:01	1
1,1,2-Trichloroethane	<0.00080		0.0019	0.00080	mg/Kg	☼	10/17/18 18:00	10/25/18 11:01	1
Trichloroethene	<0.00063		0.0019	0.00063	mg/Kg	☼	10/17/18 18:00	10/25/18 11:01	1
Vinyl acetate	<0.0016		0.0047	0.0016	mg/Kg	☼	10/17/18 18:00	10/25/18 11:01	1
Vinyl chloride	<0.00082		0.0019	0.00082	mg/Kg	☼	10/17/18 18:00	10/25/18 11:01	1
Xylenes, Total	<0.00060		0.0037	0.00060	mg/Kg	☼	10/17/18 18:00	10/25/18 11:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		75 - 131	10/17/18 18:00	10/25/18 11:01	1
Dibromofluoromethane	93		75 - 126	10/17/18 18:00	10/25/18 11:01	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	10/17/18 18:00	10/25/18 11:01	1
Toluene-d8 (Surr)	92		75 - 124	10/17/18 18:00	10/25/18 11:01	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	☼	10/20/18 01:56	10/23/18 17:47	1
Acenaphthylene	<0.0051		0.038	0.0051	mg/Kg	☼	10/20/18 01:56	10/23/18 17:47	1
Anthracene	0.014	J	0.038	0.0064	mg/Kg	☼	10/20/18 01:56	10/23/18 17:47	1
Benzo[a]anthracene	0.061		0.038	0.0052	mg/Kg	☼	10/20/18 01:56	10/23/18 17:47	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B04 (0-5)

Lab Sample ID: 500-153234-18

Date Collected: 10/16/18 15:20

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.065		0.038	0.0075	mg/Kg	☼	10/20/18 01:56	10/23/18 17:47	1
Benzo[b]fluoranthene	0.10		0.038	0.0083	mg/Kg	☼	10/20/18 01:56	10/23/18 17:47	1
Benzo[g,h,i]perylene	0.047		0.038	0.012	mg/Kg	☼	10/20/18 01:56	10/23/18 17:47	1
Benzo[k]fluoranthene	0.031	J	0.038	0.011	mg/Kg	☼	10/20/18 01:56	10/23/18 17:47	1
Bis(2-chloroethoxy)methane	<0.039		0.19	0.039	mg/Kg	☼	10/20/18 01:56	10/23/18 17:47	1
Bis(2-chloroethyl)ether	<0.058		0.19	0.058	mg/Kg	☼	10/20/18 01:56	10/23/18 17:47	1
Bis(2-ethylhexyl) phthalate	<0.070		0.19	0.070	mg/Kg	☼	10/20/18 01:56	10/23/18 17:47	1
4-Bromophenyl phenyl ether	<0.051		0.19	0.051	mg/Kg	☼	10/20/18 01:56	10/23/18 17:47	1
Butyl benzyl phthalate	<0.073		0.19	0.073	mg/Kg	☼	10/20/18 01:56	10/23/18 17:47	1
Carbazole	<0.096		0.19	0.096	mg/Kg	☼	10/20/18 01:56	10/23/18 17:47	1
4-Chloroaniline	<0.18		0.78	0.18	mg/Kg	☼	10/20/18 01:56	10/23/18 17:47	1
4-Chloro-3-methylphenol	<0.13		0.38	0.13	mg/Kg	☼	10/20/18 01:56	10/23/18 17:47	1
2-Chloronaphthalene	<0.043		0.19	0.043	mg/Kg	☼	10/20/18 01:56	10/23/18 17:47	1
2-Chlorophenol	<0.066		0.19	0.066	mg/Kg	☼	10/20/18 01:56	10/23/18 17:47	1
4-Chlorophenyl phenyl ether	<0.045		0.19	0.045	mg/Kg	☼	10/20/18 01:56	10/23/18 17:47	1
Chrysene	0.070		0.038	0.011	mg/Kg	☼	10/20/18 01:56	10/23/18 17:47	1
Dibenz(a,h)anthracene	0.028	J	0.038	0.0074	mg/Kg	☼	10/20/18 01:56	10/23/18 17:47	1
Dibenzofuran	<0.045		0.19	0.045	mg/Kg	☼	10/20/18 01:56	10/23/18 17:47	1
1,2-Dichlorobenzene	<0.046		0.19	0.046	mg/Kg	☼	10/20/18 01:56	10/23/18 17:47	1
1,3-Dichlorobenzene	<0.043		0.19	0.043	mg/Kg	☼	10/20/18 01:56	10/23/18 17:47	1
1,4-Dichlorobenzene	<0.049		0.19	0.049	mg/Kg	☼	10/20/18 01:56	10/23/18 17:47	1
3,3'-Dichlorobenzidine	<0.054		0.19	0.054	mg/Kg	☼	10/20/18 01:56	10/23/18 17:47	1
2,4-Dichlorophenol	<0.092		0.38	0.092	mg/Kg	☼	10/20/18 01:56	10/23/18 17:47	1
Diethyl phthalate	<0.065		0.19	0.065	mg/Kg	☼	10/20/18 01:56	10/23/18 17:47	1
2,4-Dimethylphenol	<0.15		0.38	0.15	mg/Kg	☼	10/20/18 01:56	10/23/18 17:47	1
Dimethyl phthalate	<0.050		0.19	0.050	mg/Kg	☼	10/20/18 01:56	10/23/18 17:47	1
Di-n-butyl phthalate	<0.059		0.19	0.059	mg/Kg	☼	10/20/18 01:56	10/23/18 17:47	1
4,6-Dinitro-2-methylphenol	<0.31		0.78	0.31	mg/Kg	☼	10/20/18 01:56	10/23/18 17:47	1
2,4-Dinitrophenol	<0.68		0.78	0.68	mg/Kg	☼	10/20/18 01:56	10/23/18 17:47	1
2,4-Dinitrotoluene	<0.061		0.19	0.061	mg/Kg	☼	10/20/18 01:56	10/23/18 17:47	1
2,6-Dinitrotoluene	<0.076		0.19	0.076	mg/Kg	☼	10/20/18 01:56	10/23/18 17:47	1
Di-n-octyl phthalate	<0.063		0.19	0.063	mg/Kg	☼	10/20/18 01:56	10/23/18 17:47	1
Fluoranthene	0.12		0.038	0.0071	mg/Kg	☼	10/20/18 01:56	10/23/18 17:47	1
Fluorene	<0.0054		0.038	0.0054	mg/Kg	☼	10/20/18 01:56	10/23/18 17:47	1
Hexachlorobenzene	<0.0089		0.078	0.0089	mg/Kg	☼	10/20/18 01:56	10/23/18 17:47	1
Hexachlorobutadiene	<0.061		0.19	0.061	mg/Kg	☼	10/20/18 01:56	10/23/18 17:47	1
Hexachlorocyclopentadiene	<0.22		0.78	0.22	mg/Kg	☼	10/20/18 01:56	10/23/18 17:47	1
Hexachloroethane	<0.059		0.19	0.059	mg/Kg	☼	10/20/18 01:56	10/23/18 17:47	1
Indeno[1,2,3-cd]pyrene	0.055		0.038	0.010	mg/Kg	☼	10/20/18 01:56	10/23/18 17:47	1
Isophorone	<0.043		0.19	0.043	mg/Kg	☼	10/20/18 01:56	10/23/18 17:47	1
2-Methylnaphthalene	<0.0071		0.078	0.0071	mg/Kg	☼	10/20/18 01:56	10/23/18 17:47	1
2-Methylphenol	<0.062		0.19	0.062	mg/Kg	☼	10/20/18 01:56	10/23/18 17:47	1
3 & 4 Methylphenol	<0.064		0.19	0.064	mg/Kg	☼	10/20/18 01:56	10/23/18 17:47	1
Naphthalene	<0.0059		0.038	0.0059	mg/Kg	☼	10/20/18 01:56	10/23/18 17:47	1
2-Nitroaniline	<0.052		0.19	0.052	mg/Kg	☼	10/20/18 01:56	10/23/18 17:47	1
3-Nitroaniline	<0.12		0.38	0.12	mg/Kg	☼	10/20/18 01:56	10/23/18 17:47	1
4-Nitroaniline	<0.16		0.38	0.16	mg/Kg	☼	10/20/18 01:56	10/23/18 17:47	1
Nitrobenzene	<0.0096		0.038	0.0096	mg/Kg	☼	10/20/18 01:56	10/23/18 17:47	1
2-Nitrophenol	<0.091		0.38	0.091	mg/Kg	☼	10/20/18 01:56	10/23/18 17:47	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B04 (0-5)

Lab Sample ID: 500-153234-18

Date Collected: 10/16/18 15:20

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.37		0.78	0.37	mg/Kg	☼	10/20/18 01:56	10/23/18 17:47	1
N-Nitrosodi-n-propylamine	<0.047		0.078	0.047	mg/Kg	☼	10/20/18 01:56	10/23/18 17:47	1
N-Nitrosodiphenylamine	<0.045		0.19	0.045	mg/Kg	☼	10/20/18 01:56	10/23/18 17:47	1
2,2'-oxybis[1-chloropropane]	<0.045		0.19	0.045	mg/Kg	☼	10/20/18 01:56	10/23/18 17:47	1
Pentachlorophenol	<0.62		0.78	0.62	mg/Kg	☼	10/20/18 01:56	10/23/18 17:47	1
Phenanthrene	0.056		0.038	0.0054	mg/Kg	☼	10/20/18 01:56	10/23/18 17:47	1
Phenol	<0.086		0.19	0.086	mg/Kg	☼	10/20/18 01:56	10/23/18 17:47	1
Pyrene	0.098		0.038	0.0077	mg/Kg	☼	10/20/18 01:56	10/23/18 17:47	1
1,2,4-Trichlorobenzene	<0.042		0.19	0.042	mg/Kg	☼	10/20/18 01:56	10/23/18 17:47	1
2,4,5-Trichlorophenol	<0.088		0.38	0.088	mg/Kg	☼	10/20/18 01:56	10/23/18 17:47	1
2,4,6-Trichlorophenol	<0.13		0.38	0.13	mg/Kg	☼	10/20/18 01:56	10/23/18 17:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	91		43 - 145	10/20/18 01:56	10/23/18 17:47	1
2-Fluorophenol	121		31 - 166	10/20/18 01:56	10/23/18 17:47	1
Nitrobenzene-d5	87		37 - 147	10/20/18 01:56	10/23/18 17:47	1
Phenol-d5	117		30 - 153	10/20/18 01:56	10/23/18 17:47	1
Terphenyl-d14	97		42 - 157	10/20/18 01:56	10/23/18 17:47	1
2,4,6-Tribromophenol	73		31 - 143	10/20/18 01:56	10/23/18 17:47	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.37	J	1.2	0.23	mg/Kg	☼	10/23/18 08:25	10/24/18 02:17	1
Arsenic	12		0.60	0.21	mg/Kg	☼	10/23/18 08:25	10/24/18 02:17	1
Barium	94		0.60	0.069	mg/Kg	☼	10/23/18 08:25	10/24/18 02:17	1
Beryllium	0.69		0.24	0.056	mg/Kg	☼	10/23/18 08:25	10/24/18 02:17	1
Cadmium	0.38	B	0.12	0.022	mg/Kg	☼	10/23/18 08:25	10/24/18 02:17	1
Chromium	32		0.60	0.30	mg/Kg	☼	10/23/18 08:25	10/24/18 02:17	1
Cobalt	11		0.30	0.079	mg/Kg	☼	10/23/18 08:25	10/24/18 02:17	1
Copper	28	B	0.60	0.17	mg/Kg	☼	10/23/18 08:25	10/24/18 02:17	1
Iron	22000	B	12	6.3	mg/Kg	☼	10/23/18 08:25	10/24/18 02:17	1
Lead	39		0.30	0.14	mg/Kg	☼	10/23/18 08:25	10/24/18 02:17	1
Magnesium	8300		6.0	3.0	mg/Kg	☼	10/23/18 08:25	10/24/18 02:17	1
Calcium	12000		12	2.0	mg/Kg	☼	10/23/18 08:25	10/24/18 02:17	1
Manganese	590	B	0.60	0.087	mg/Kg	☼	10/23/18 08:25	10/24/18 02:17	1
Nickel	28		0.60	0.17	mg/Kg	☼	10/23/18 08:25	10/24/18 02:17	1
Selenium	0.47	J	0.60	0.35	mg/Kg	☼	10/23/18 08:25	10/24/18 02:17	1
Silver	0.26	J	0.30	0.078	mg/Kg	☼	10/23/18 08:25	10/24/18 02:17	1
Thallium	<0.30		0.60	0.30	mg/Kg	☼	10/23/18 08:25	10/24/18 02:17	1
Vanadium	28		0.30	0.071	mg/Kg	☼	10/23/18 08:25	10/24/18 02:17	1
Zinc	120		1.2	0.53	mg/Kg	☼	10/23/18 08:25	10/24/18 02:17	1
Potassium	1800		30	11	mg/Kg	☼	10/23/18 08:25	10/24/18 02:17	1
Sodium	510		60	8.9	mg/Kg	☼	10/23/18 08:25	10/24/18 02:17	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		10/24/18 09:14	10/25/18 00:30	1
Barium	0.63		0.50	0.050	mg/L		10/24/18 09:14	10/25/18 00:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/24/18 09:14	10/25/18 00:30	1
Cadmium	0.0035	J	0.0050	0.0020	mg/L		10/24/18 09:14	10/25/18 00:30	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Client Sample ID: 2947V-10-B04 (0-5)

Lab Sample ID: 500-153234-18

Date Collected: 10/16/18 15:20

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 81.8

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		10/24/18 09:14	10/25/18 00:30	1
Chromium	0.011	J B	0.025	0.010	mg/L		10/24/18 09:14	10/25/18 00:30	1
Cobalt	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/25/18 00:30	1
Copper	<0.010	^ F1	0.025	0.010	mg/L		10/24/18 09:14	10/25/18 00:30	1
Iron	<0.20		0.40	0.20	mg/L		10/24/18 09:14	10/25/18 00:30	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/24/18 09:14	10/25/18 00:30	1
Magnesium	140		2.5	0.50	mg/L		10/24/18 09:14	10/25/18 00:30	1
Manganese	0.12		0.025	0.010	mg/L		10/24/18 09:14	10/25/18 00:30	1
Nickel	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/25/18 00:30	1
Potassium	0.86	J	2.5	0.50	mg/L		10/24/18 09:14	10/25/18 00:30	1
Selenium	<0.020		0.050	0.020	mg/L		10/24/18 09:14	10/25/18 00:30	1
Silver	<0.010	F1	0.025	0.010	mg/L		10/24/18 09:14	10/25/18 00:30	1
Vanadium	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/25/18 00:30	1
Zinc	0.16	J B	0.50	0.020	mg/L		10/24/18 09:14	10/25/18 00:30	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		10/24/18 09:14	10/25/18 13:29	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/24/18 09:14	10/25/18 06:12	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		10/24/18 11:25	10/25/18 08:49	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.051	B	0.019	0.0064	mg/Kg	☼	10/23/18 15:50	10/24/18 09:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.16		0.46	0.16	mg/Kg	☼	10/25/18 17:45	10/26/18 11:38	1
pH	8.3		0.2	0.2	SU			10/23/18 18:18	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance 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.

Metals

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.
B	Compound was found in the blank and sample.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.
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.

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 - Romeoville - WO 054

TestAmerica Job ID: 500-153234-2

Laboratory: 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	04-30-19

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
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:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-153234
Chain of Custody Number:
Page 1 of 2
Temperature °C of Cooler:

Client		Client Project #		Preservative		Parameter		Matrix		Comments			
<u>FOST</u>		<u>11187007U</u>											
Project Name		Project Location/State		Lab Project #		Lab PM							
<u>11187007U</u>		<u>Homewood, IL</u>											
Sampler													
<u>D.G. Ft</u>													
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOC'S	SVOC'S	Total 23 Inorganics	PH	TCP 23 Inorganics	SPLP 23 Inorganics	Comments
			Date	Time									
<u>4</u>		<u>2947U-10-B17 (0-5)</u>	<u>10/16/18</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>5</u>		<u>2947U-10-B16 (0-5)</u>	<u>10/16/18</u>	<u>1015</u>	<u>5</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		
<u>6</u>		<u>2947U-10-B15 (0-5)</u>	<u>10/16/18</u>	<u>1035</u>	<u>5</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		
<u>7</u>		<u>2947U-10-B14 (0-5)</u>	<u>10/16/18</u>	<u>1055</u>	<u>5</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		
<u>8</u>		<u>2947U-10-B13 (0-5)</u>	<u>10/16/18</u>	<u>1115</u>	<u>5</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		
<u>9</u>		<u>2947U-10-B12 (0-5)</u>	<u>10/16/18</u>	<u>1135</u>	<u>5</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		
<u>10</u>		<u>2947U-10-B12 Dup (0-5)</u>	<u>10/16/18</u>	<u>1140</u>	<u>5</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		
<u>11</u>		<u>2947U-10-B11 (0-5)</u>	<u>10/16/18</u>	<u>1210</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>2947U-10-B10 (0-5)</u>	<u>10/16/18</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>13</u>		<u>2947U-10-B09 (0-5)</u>	<u>10/16/18</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>		

- 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

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>10/16/18</u>	Time <u>1545</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>10/16/18</u>	Time <u>1545</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>10/16/18</u>	Time <u>1650</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>10/17/18</u>	Time <u>0715</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

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:
* NO Aluminum
* Hold SPLP 23 Inorganics
Per Terracon Instruction

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)
 Contact: Matt Weiss
 Company: Terracon
 Address: 192 Exchange Blvd
Glendale Heights IL
 Address:
 Phone: 630-445-0160
 Fax:
 E-Mail: matt.weiss@terracon.com

Bill To (optional)
 Contact:
 Company:
 Address:
 Address:
 Phone:
 Fax:
 PO#/Reference#

Chain of Custody Record

Lab Job #: 500-153234
 Chain of Custody Number:
 Page 2 of 2
 Temperature °C of Cooler:

Client		Client Project #		Preservative		Parameter		Matrix		Comments					
<u>FDOT</u>		<u>11187007V</u>													
Project Name		Lab Project #		Date		Time		# of Containers		Matrix					
<u>11187007V</u>															
Project Location/State		Lab PM		Date		Time		# of Containers		Matrix					
<u>Homerville 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	Ucc's	Suc's	Total 23	Inorganics	PH	TCLP 23	Inorganics	SPLP 23	Inorganics
<u>14</u>		<u>2947 U-10-B06 (0-5)</u>	<u>10/14/18</u>	<u>1325</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>15</u>		<u>2947 U-10-B07 (0-5)</u>	<u>10/16/18</u>	<u>1355</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>16</u>		<u>2947 U-10-B06 (0-5)</u>	<u>10/16/18</u>	<u>1420</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>17</u>		<u>2947 U-10-B05 (0-5)</u>	<u>10/16/18</u>	<u>1450</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>18</u>		<u>2947 U-10-B04 (0-5)</u>	<u>10/16/18</u>	<u>1520</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>		

- 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

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>10/16/18</u>	Time <u>1545</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>10/16/18</u>	Time <u>1545</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>10/16/18</u>	Time <u>1640</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>10/17/18</u>	Time <u>0715</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

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

* no Aluminum
* Hold SPLP 23 Inorganics
Per Terracon Instructions

Lab Comments:

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-153234-2

Login Number: 153234

List Source: 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	
Cooler Temperature is recorded.	True	4.8.5.1
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	



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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 112-IL Rte 53 from IL Rte 7 to S/o Murphy Dr Office Phone Number, if available: _____

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

IL Rte 53 (Southbound) IDOT STA 206+90 to 219+00 (ISGS Site 2947V-13)

City: Romeoville State: IL Zip Code: 60446

County: Will Township: Lockport

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

Latitude: 41.61633 Longitude: -88.07732

(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: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Contact: Irma Romiti-Johnson

Email, if available: irma.romiti-johnson@illinois.gov

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

Project Name: FAP 112-IL Rte 53 from IL Rte 7 to S/o Murphy Dr

Latitude: 41.61633 Longitude: -88.07732

Uncontaminated Site Certification

III. Basis for Certification and Attachments

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

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

Soil from borings B01 through B06 were sampled adjacent to ISGS Site No 2947V-13.
See Exhibits 8, 9 and Table 7 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 Nos J153234-1 and J153168-3.
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, Chen Yang (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

Phone: 630-717-4263

Chen Yang
Printed Name:

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



05/28/2017
Date:

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2947V-13-B01 (0-5)	2947V-13-B01 (0-5) DUP	2947V-13-B02 (0-5)	2947V-13-B03 (0-5)	2947V-13-B04 (0-5)	2947V-13-B05 (0-5)	2947V-13-B06 (0-5)
				CCDD	Sample Depth (feet)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	
				mg/kg	Date Collected	10/16/2018	10/16/2018	10/16/2018	10/15/2018	10/15/2018	10/15/2018	10/15/2018
		Chicago	MSAs	pH 6.25-9.0								
Semivolatile Organic Analytical Parameters												
Acenaphthene	mg/kg	0.09	0.13	570		<0.0070	0.0097	0.018	<0.0068	<0.0069	<0.0073	<0.0072
Acenaphthylene	mg/kg	0.03	0.07	85		<0.0051	<0.0052	0.045	<0.0050	0.0078	0.014	0.016
Anthracene	mg/kg	0.25	0.4	12000		<0.0065	<0.0066	0.02	<0.0063	<0.0064	0.015	0.0085
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		<0.0052	<0.0053	0.085	0.011	0.032	0.082	0.046
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.016	0.017	0.1	0.014	0.045	0.12	0.076
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		<0.0084	<0.0086	0.14	0.021	0.073	0.2	0.14
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		<0.013	<0.013	0.059	<0.012	0.024	0.056	0.043
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		<0.011	<0.012	0.051	<0.011	0.028	0.071	0.037
Chrysene	mg/kg	1.2	2.7	88		<0.011	<0.011	0.1	0.014	0.044	0.11	0.064
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		<0.0075	<0.0077	0.031	<0.0073	<0.0075	0.015	0.011
Fluoranthene	mg/kg	2.7	4.1	3100		<0.0072	<0.0073	0.14	0.019	0.064	0.18	0.079
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		<0.010	<0.010	0.063	<0.0098	0.021	0.052	0.04
Phenanthrene	mg/kg	1.3	2.5	210		<0.0054	<0.0055	0.05	0.0083	0.023	0.059	0.022
Pyrene	mg/kg	1.9	3.0	2300		<0.0077	<0.0079	0.14	0.016	0.059	0.16	0.073
Inorganic Analytical Parameters												
Arsenic	mg/kg	---	13	11.3		13	12	9.9	10	12	8.3	8.6
Barium	mg/kg	---	110	1500		50	54	75	39	78	84	92
Cadmium	mg/kg	---	0.6	5.2		0.14	0.18	0.35	0.18	0.2	0.21	0.2
Chromium, total	mg/kg	---	16.2	21		18	17	14	12	17	15	17
Lead	mg/kg	---	36	107		20	19	75	20	40	34	34
Mercury	mg/kg	---	0.06	0.89		0.037	0.034	0.038	0.027	0.037	0.035	0.031
Selenium	mg/kg	---	0.48	1.3		0.33	0.35	0.56	<0.32	0.72	0.44	<0.36
Silver	mg/kg	---	0.55	4.4		0.27	0.27	0.26	0.22	0.37	0.36	0.38
Antimony	mg/kg	---	4.0	5		0.27	0.44	0.45	0.5	0.5	0.48	0.46
Beryllium	mg/kg	---	0.59	22		0.72	0.7	0.64	0.55	0.77	0.75	0.77
Calcium	mg/kg	---	9,300	---		5900	11000	57000	61000	7900	7500	5500
Cobalt	mg/kg	---	8.9	20		13	13	10	9	12	11	11
Copper	mg/kg	---	19.6	2900		29	29	23	21	25	17	19
Cyanide	mg/kg	---	0.51	---		<0.18	<0.19	<0.14	<0.20	<0.21	<0.21	<0.21
Iron	mg/kg	---	15,900	15000		24000	23000	19000	17000	24000	19000	20000
Magnesium	mg/kg	---	4,820	325000		6300	9300	26000	30000	6100	5400	4200
Manganese	mg/kg	---	636	630		460	550	610	400	690	650	670
Nickel	mg/kg	---	18	100		32	33	21	21	26	22	23
Potassium	mg/kg	---	1,268	---		2000	1800	1800	1900	2100	1800	1900
Sodium	mg/kg	---	130	---		73	74	110	110	160	260	95
Thallium	mg/kg	---	0.32	2.6		<0.27	<0.28	<0.30	<0.28	<0.28	<0.29	<0.30
Vanadium	mg/kg	---	25.2	550		28	27	23	21	29	26	29
Zinc	mg/kg	---	95	5100		98	91	110	72	110	110	98
pH			6.25	9		7.9	7.9	7.8	8	7.8	8	7.6

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2947V-13-B01 (0-5)	2947V-13-B01 (0-5) DUP	2947V-13-B02 (0-5)	2947V-13-B03 (0-5)	2947V-13-B04 (0-5)	2947V-13-B05 (0-5)	2947V-13-B06 (0-5)
				CCDD	Sample Depth (feet)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	
				mg/kg pH 6.25-9.0	Date Collected	10/16/2018	10/16/2018	10/16/2018	10/15/2018	10/15/2018	10/15/2018	10/15/2018
		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	---	---	---		0.82	0.93	--	--	--	--	--
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
Barium,TCLP	mg/L	---	---	---		0.35	0.37	0.43	0.36	0.41	0.52	0.45
Cadmium,TCLP	mg/L	---	---	---		0.0029	0.0029	0.0033	0.0022	0.0026	0.0026	0.0021
Chromium,TCLP	mg/L	---	---	---		0.011	<0.010	0.011	<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
Mercury,TCLP	mg/L	---	---	---		<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
Silver,TCLP	mg/L	---	---	---		<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
Beryllium,TCLP	mg/L	---	---	---		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Calcium,TCLP	mg/L	---	---	---		200	220	300	340	230	260	160
Cobalt,TCLP	mg/L	---	---	---		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Copper,TCLP	mg/L	---	---	---		<0.010	<0.010	0.022	<0.010	<0.010	<0.010	<0.010
Cyanide,TCLP	mg/L	---	---	---		----	----	----	----	----	----	----
Iron,TCLP	mg/L	---	---	---		0.24	0.32	<0.20	<0.20	<0.20	<0.20	<0.20
Magnesium,TCLP	mg/L	---	---	---		110	120	160	190	130	140	78
Manganese,TCLP	mg/L	---	---	---		0.28	0.32	0.14	0.15	0.11	0.082	0.067
Nickel,TCLP	mg/L	---	---	---		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Potassium,TCLP	mg/L	---	---	---		0.74	0.79	5.3	1.5	0.58	1.9	0.68
Sodium,TCLP	mg/L	---	---	---		----	----	----	----	----	----	----
Thallium,TCLP	mg/L	---	---	---		<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
Zinc,TCLP	mg/L	---	---	---		0.021	0.035	1.1	0.26	0.034	0.35	0.082

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-153234-1
Client Project/Site: IDOT - Romeoville - WO 054

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

Attn: Mr. Matthew Weiss



Authorized for release by:
10/31/2018 11:26:17 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 - Romeoville - WO 054

TestAmerica Job ID: 500-153234-1

Job ID: 500-153234-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-153234-1

Receipt

The samples were received on 10/16/2018 4:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 4.8° C and 5.1° C.

GC/MS VOA

The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for 456520 recovered outside control limits for the following analytes: Chloroethane and Bromomethane. These analytes were biased high in the LCS/ LCSD and were 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

Method(s) 6010B: The method blank for preparation batch 500-456209 and analytical batch 500-456462 contained Copper above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

Method(s) 6010B: The interference check standard solution (ICSA) associated with Analytical batch 500-456706 had results for Copper above the reporting limit (RL). Associated samples 2947V-13-B01 (0-5) (500-153234-2), and 2947V-13-B01 (0-5) Dup (500-153234-3) were non-detects for Copper, therefore the data has been reported.

No additional analytical or quality issues were noted, other than those described above or 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 - Romeoville - WO 054

TestAmerica Job ID: 500-153234-1

Client Sample ID: 2947V-13-B02 (0-5)

Lab Sample ID: 500-153234-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.018	J	0.038	0.0069	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.045		0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.020	J	0.038	0.0064	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.085		0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.10		0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.14		0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.059	F1	0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.051	F1	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.10		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.031	J F1	0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.14		0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.063	F1	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.050		0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.14		0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.45	J	1.2	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.9		0.59	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	75		0.59	0.068	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.64		0.24	0.055	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.35	B	0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Chromium	14		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	10		0.30	0.078	mg/Kg	1	☼	6010B	Total/NA
Copper	23	B	0.59	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	19000	B	12	6.2	mg/Kg	1	☼	6010B	Total/NA
Lead	75		0.30	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	26000		5.9	2.9	mg/Kg	1	☼	6010B	Total/NA
Calcium	57000		59	10	mg/Kg	5	☼	6010B	Total/NA
Manganese	610	B	0.59	0.086	mg/Kg	1	☼	6010B	Total/NA
Nickel	21		0.59	0.17	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.56	J	0.59	0.35	mg/Kg	1	☼	6010B	Total/NA
Silver	0.26	J	0.30	0.076	mg/Kg	1	☼	6010B	Total/NA
Vanadium	23		0.30	0.070	mg/Kg	1	☼	6010B	Total/NA
Zinc	110		1.2	0.52	mg/Kg	1	☼	6010B	Total/NA
Potassium	1800		30	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	110		59	8.8	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	300		5.0	0.50	mg/L	1		6010B	TCLP
Chromium	0.011	J B	0.025	0.010	mg/L	1		6010B	TCLP
Copper	0.022	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	160		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.14		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	5.3		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	1.1	B	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.038	B	0.020	0.0066	mg/Kg	1	☼	7471B	Total/NA
pH	7.8		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2947V-13-B01 (0-5)

Lab Sample ID: 500-153234-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	0.016	J	0.039	0.0075	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-1

Client Sample ID: 2947V-13-B01 (0-5) (Continued)

Lab Sample ID: 500-153234-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.27	J	1.1	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	13		0.55	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	50		0.55	0.062	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.72		0.22	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.14	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	18		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.27	0.072	mg/Kg	1	☼	6010B	Total/NA
Copper	29	B	0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	24000	B	11	5.7	mg/Kg	1	☼	6010B	Total/NA
Lead	20		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	6300		5.5	2.7	mg/Kg	1	☼	6010B	Total/NA
Calcium	5900		11	1.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	460	B	0.55	0.079	mg/Kg	1	☼	6010B	Total/NA
Nickel	32		0.55	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.33	J	0.55	0.32	mg/Kg	1	☼	6010B	Total/NA
Silver	0.27		0.27	0.071	mg/Kg	1	☼	6010B	Total/NA
Vanadium	28		0.27	0.065	mg/Kg	1	☼	6010B	Total/NA
Zinc	98		1.1	0.48	mg/Kg	1	☼	6010B	Total/NA
Potassium	2000		27	9.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	73		55	8.1	mg/Kg	1	☼	6010B	Total/NA
Barium	0.35	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0029	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	200		5.0	0.50	mg/L	1		6010B	TCLP
Chromium	0.011	J B	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.24	J	0.40	0.20	mg/L	1		6010B	TCLP
Magnesium	110		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.28		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.74	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.021	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.82		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.037	B	0.019	0.0064	mg/Kg	1	☼	7471B	Total/NA
pH	7.9		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2947V-13-B01 (0-5) Dup

Lab Sample ID: 500-153234-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.0097	J	0.039	0.0071	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.017	J	0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.44	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	12		0.56	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	54		0.56	0.064	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.70		0.22	0.053	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.18	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.28	0.074	mg/Kg	1	☼	6010B	Total/NA
Copper	29	B	0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	23000	B	11	5.8	mg/Kg	1	☼	6010B	Total/NA
Lead	19		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	9300		5.6	2.8	mg/Kg	1	☼	6010B	Total/NA
Calcium	11000		11	1.9	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-1

Client Sample ID: 2947V-13-B01 (0-5) Dup (Continued)

Lab Sample ID: 500-153234-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	550	B	0.56	0.082	mg/Kg	1	☼	6010B	Total/NA
Nickel	33		0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.35	J	0.56	0.33	mg/Kg	1	☼	6010B	Total/NA
Silver	0.27	J	0.28	0.073	mg/Kg	1	☼	6010B	Total/NA
Vanadium	27		0.28	0.066	mg/Kg	1	☼	6010B	Total/NA
Zinc	91		1.1	0.49	mg/Kg	1	☼	6010B	Total/NA
Potassium	1800		28	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	74		56	8.3	mg/Kg	1	☼	6010B	Total/NA
Barium	0.37	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0029	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	220		5.0	0.50	mg/L	1		6010B	TCLP
Iron	0.32	J	0.40	0.20	mg/L	1		6010B	TCLP
Magnesium	120		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.32		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.79	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.035	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.93		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.034	B	0.019	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	7.9		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-153234-1	2947V-13-B02 (0-5)	Solid	10/16/18 09:00	10/16/18 16:40
500-153234-2	2947V-13-B01 (0-5)	Solid	10/16/18 09:20	10/16/18 16:40
500-153234-3	2947V-13-B01 (0-5) Dup	Solid	10/16/18 09:25	10/16/18 16:40

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-1

Client Sample ID: 2947V-13-B02 (0-5)

Lab Sample ID: 500-153234-1

Date Collected: 10/16/18 09:00

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 82.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0095		0.022	0.0095	mg/Kg	☼	10/17/18 18:00	10/25/18 03:52	1
Benzene	<0.00056		0.0022	0.00056	mg/Kg	☼	10/17/18 18:00	10/25/18 03:52	1
Bromodichloromethane	<0.00044		0.0022	0.00044	mg/Kg	☼	10/17/18 18:00	10/25/18 03:52	1
Bromoform	<0.00064		0.0022	0.00064	mg/Kg	☼	10/17/18 18:00	10/25/18 03:52	1
Bromomethane	<0.0021	*	0.0055	0.0021	mg/Kg	☼	10/17/18 18:00	10/25/18 03:52	1
2-Butanone (MEK)	<0.0024		0.0055	0.0024	mg/Kg	☼	10/17/18 18:00	10/25/18 03:52	1
Carbon disulfide	<0.0011		0.0055	0.0011	mg/Kg	☼	10/17/18 18:00	10/25/18 03:52	1
Carbon tetrachloride	<0.00063		0.0022	0.00063	mg/Kg	☼	10/17/18 18:00	10/25/18 03:52	1
Chlorobenzene	<0.00080		0.0022	0.00080	mg/Kg	☼	10/17/18 18:00	10/25/18 03:52	1
Chloroethane	<0.0016	*	0.0055	0.0016	mg/Kg	☼	10/17/18 18:00	10/25/18 03:52	1
Chloroform	<0.00076		0.0022	0.00076	mg/Kg	☼	10/17/18 18:00	10/25/18 03:52	1
Chloromethane	<0.0022		0.0055	0.0022	mg/Kg	☼	10/17/18 18:00	10/25/18 03:52	1
cis-1,2-Dichloroethene	<0.00061		0.0022	0.00061	mg/Kg	☼	10/17/18 18:00	10/25/18 03:52	1
cis-1,3-Dichloropropene	<0.00066		0.0022	0.00066	mg/Kg	☼	10/17/18 18:00	10/25/18 03:52	1
Dibromochloromethane	<0.00071		0.0022	0.00071	mg/Kg	☼	10/17/18 18:00	10/25/18 03:52	1
1,1-Dichloroethane	<0.00075		0.0022	0.00075	mg/Kg	☼	10/17/18 18:00	10/25/18 03:52	1
1,2-Dichloroethane	<0.0017		0.0055	0.0017	mg/Kg	☼	10/17/18 18:00	10/25/18 03:52	1
1,1-Dichloroethene	<0.00075		0.0022	0.00075	mg/Kg	☼	10/17/18 18:00	10/25/18 03:52	1
1,2-Dichloropropane	<0.00056		0.0022	0.00056	mg/Kg	☼	10/17/18 18:00	10/25/18 03:52	1
1,3-Dichloropropane, Total	<0.00077		0.0022	0.00077	mg/Kg	☼	10/17/18 18:00	10/25/18 03:52	1
Ethylbenzene	<0.0010		0.0022	0.0010	mg/Kg	☼	10/17/18 18:00	10/25/18 03:52	1
2-Hexanone	<0.0017		0.0055	0.0017	mg/Kg	☼	10/17/18 18:00	10/25/18 03:52	1
Methylene Chloride	<0.0021		0.0055	0.0021	mg/Kg	☼	10/17/18 18:00	10/25/18 03:52	1
4-Methyl-2-pentanone (MIBK)	<0.0016		0.0055	0.0016	mg/Kg	☼	10/17/18 18:00	10/25/18 03:52	1
Methyl tert-butyl ether	<0.00064		0.0022	0.00064	mg/Kg	☼	10/17/18 18:00	10/25/18 03:52	1
Styrene	<0.00066		0.0022	0.00066	mg/Kg	☼	10/17/18 18:00	10/25/18 03:52	1
1,1,2,2-Tetrachloroethane	<0.00070		0.0022	0.00070	mg/Kg	☼	10/17/18 18:00	10/25/18 03:52	1
Tetrachloroethene	<0.00074		0.0022	0.00074	mg/Kg	☼	10/17/18 18:00	10/25/18 03:52	1
Toluene	<0.00055		0.0022	0.00055	mg/Kg	☼	10/17/18 18:00	10/25/18 03:52	1
trans-1,2-Dichloroethene	<0.00097		0.0022	0.00097	mg/Kg	☼	10/17/18 18:00	10/25/18 03:52	1
trans-1,3-Dichloropropene	<0.00077		0.0022	0.00077	mg/Kg	☼	10/17/18 18:00	10/25/18 03:52	1
1,1,1-Trichloroethane	<0.00073		0.0022	0.00073	mg/Kg	☼	10/17/18 18:00	10/25/18 03:52	1
1,1,2-Trichloroethane	<0.00094		0.0022	0.00094	mg/Kg	☼	10/17/18 18:00	10/25/18 03:52	1
Trichloroethene	<0.00074		0.0022	0.00074	mg/Kg	☼	10/17/18 18:00	10/25/18 03:52	1
Vinyl acetate	<0.0019		0.0055	0.0019	mg/Kg	☼	10/17/18 18:00	10/25/18 03:52	1
Vinyl chloride	<0.00096		0.0022	0.00096	mg/Kg	☼	10/17/18 18:00	10/25/18 03:52	1
Xylenes, Total	<0.00070		0.0044	0.00070	mg/Kg	☼	10/17/18 18:00	10/25/18 03:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		75 - 131	10/17/18 18:00	10/25/18 03:52	1
Dibromofluoromethane	92		75 - 126	10/17/18 18:00	10/25/18 03:52	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	10/17/18 18:00	10/25/18 03:52	1
Toluene-d8 (Surr)	94		75 - 124	10/17/18 18:00	10/25/18 03:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.018	J	0.038	0.0069	mg/Kg	☼	10/20/18 01:56	10/23/18 19:33	1
Acenaphthylene	0.045		0.038	0.0051	mg/Kg	☼	10/20/18 01:56	10/23/18 19:33	1
Anthracene	0.020	J	0.038	0.0064	mg/Kg	☼	10/20/18 01:56	10/23/18 19:33	1
Benzo[a]anthracene	0.085		0.038	0.0052	mg/Kg	☼	10/20/18 01:56	10/23/18 19:33	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-1

Client Sample ID: 2947V-13-B02 (0-5)

Lab Sample ID: 500-153234-1

Date Collected: 10/16/18 09:00

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 82.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.10		0.038	0.0074	mg/Kg	☼	10/20/18 01:56	10/23/18 19:33	1
Benzo[b]fluoranthene	0.14		0.038	0.0083	mg/Kg	☼	10/20/18 01:56	10/23/18 19:33	1
Benzo[g,h,i]perylene	0.059	F1	0.038	0.012	mg/Kg	☼	10/20/18 01:56	10/23/18 19:33	1
Benzo[k]fluoranthene	0.051	F1	0.038	0.011	mg/Kg	☼	10/20/18 01:56	10/23/18 19:33	1
Bis(2-chloroethoxy)methane	<0.039		0.19	0.039	mg/Kg	☼	10/20/18 01:56	10/23/18 19:33	1
Bis(2-chloroethyl)ether	<0.058		0.19	0.058	mg/Kg	☼	10/20/18 01:56	10/23/18 19:33	1
Bis(2-ethylhexyl) phthalate	<0.070		0.19	0.070	mg/Kg	☼	10/20/18 01:56	10/23/18 19:33	1
4-Bromophenyl phenyl ether	<0.051		0.19	0.051	mg/Kg	☼	10/20/18 01:56	10/23/18 19:33	1
Butyl benzyl phthalate	<0.073		0.19	0.073	mg/Kg	☼	10/20/18 01:56	10/23/18 19:33	1
Carbazole	<0.096		0.19	0.096	mg/Kg	☼	10/20/18 01:56	10/23/18 19:33	1
4-Chloroaniline	<0.18		0.77	0.18	mg/Kg	☼	10/20/18 01:56	10/23/18 19:33	1
4-Chloro-3-methylphenol	<0.13		0.38	0.13	mg/Kg	☼	10/20/18 01:56	10/23/18 19:33	1
2-Chloronaphthalene	<0.042		0.19	0.042	mg/Kg	☼	10/20/18 01:56	10/23/18 19:33	1
2-Chlorophenol	<0.066		0.19	0.066	mg/Kg	☼	10/20/18 01:56	10/23/18 19:33	1
4-Chlorophenyl phenyl ether	<0.045		0.19	0.045	mg/Kg	☼	10/20/18 01:56	10/23/18 19:33	1
Chrysene	0.10		0.038	0.010	mg/Kg	☼	10/20/18 01:56	10/23/18 19:33	1
Dibenz(a,h)anthracene	0.031	J F1	0.038	0.0074	mg/Kg	☼	10/20/18 01:56	10/23/18 19:33	1
Dibenzofuran	<0.045		0.19	0.045	mg/Kg	☼	10/20/18 01:56	10/23/18 19:33	1
1,2-Dichlorobenzene	<0.046		0.19	0.046	mg/Kg	☼	10/20/18 01:56	10/23/18 19:33	1
1,3-Dichlorobenzene	<0.043		0.19	0.043	mg/Kg	☼	10/20/18 01:56	10/23/18 19:33	1
1,4-Dichlorobenzene	<0.049		0.19	0.049	mg/Kg	☼	10/20/18 01:56	10/23/18 19:33	1
3,3'-Dichlorobenzidine	<0.054		0.19	0.054	mg/Kg	☼	10/20/18 01:56	10/23/18 19:33	1
2,4-Dichlorophenol	<0.091		0.38	0.091	mg/Kg	☼	10/20/18 01:56	10/23/18 19:33	1
Diethyl phthalate	<0.065		0.19	0.065	mg/Kg	☼	10/20/18 01:56	10/23/18 19:33	1
2,4-Dimethylphenol	<0.15		0.38	0.15	mg/Kg	☼	10/20/18 01:56	10/23/18 19:33	1
Dimethyl phthalate	<0.050		0.19	0.050	mg/Kg	☼	10/20/18 01:56	10/23/18 19:33	1
Di-n-butyl phthalate	<0.058		0.19	0.058	mg/Kg	☼	10/20/18 01:56	10/23/18 19:33	1
4,6-Dinitro-2-methylphenol	<0.31	F1	0.77	0.31	mg/Kg	☼	10/20/18 01:56	10/23/18 19:33	1
2,4-Dinitrophenol	<0.68	F1	0.77	0.68	mg/Kg	☼	10/20/18 01:56	10/23/18 19:33	1
2,4-Dinitrotoluene	<0.061		0.19	0.061	mg/Kg	☼	10/20/18 01:56	10/23/18 19:33	1
2,6-Dinitrotoluene	<0.075		0.19	0.075	mg/Kg	☼	10/20/18 01:56	10/23/18 19:33	1
Di-n-octyl phthalate	<0.063		0.19	0.063	mg/Kg	☼	10/20/18 01:56	10/23/18 19:33	1
Fluoranthene	0.14		0.038	0.0071	mg/Kg	☼	10/20/18 01:56	10/23/18 19:33	1
Fluorene	<0.0054		0.038	0.0054	mg/Kg	☼	10/20/18 01:56	10/23/18 19:33	1
Hexachlorobenzene	<0.0089		0.077	0.0089	mg/Kg	☼	10/20/18 01:56	10/23/18 19:33	1
Hexachlorobutadiene	<0.060		0.19	0.060	mg/Kg	☼	10/20/18 01:56	10/23/18 19:33	1
Hexachlorocyclopentadiene	<0.22	F1	0.77	0.22	mg/Kg	☼	10/20/18 01:56	10/23/18 19:33	1
Hexachloroethane	<0.058	F1	0.19	0.058	mg/Kg	☼	10/20/18 01:56	10/23/18 19:33	1
Indeno[1,2,3-cd]pyrene	0.063	F1	0.038	0.010	mg/Kg	☼	10/20/18 01:56	10/23/18 19:33	1
Isophorone	<0.043		0.19	0.043	mg/Kg	☼	10/20/18 01:56	10/23/18 19:33	1
2-Methylnaphthalene	<0.0071		0.077	0.0071	mg/Kg	☼	10/20/18 01:56	10/23/18 19:33	1
2-Methylphenol	<0.062		0.19	0.062	mg/Kg	☼	10/20/18 01:56	10/23/18 19:33	1
3 & 4 Methylphenol	<0.064		0.19	0.064	mg/Kg	☼	10/20/18 01:56	10/23/18 19:33	1
Naphthalene	<0.0059		0.038	0.0059	mg/Kg	☼	10/20/18 01:56	10/23/18 19:33	1
2-Nitroaniline	<0.052		0.19	0.052	mg/Kg	☼	10/20/18 01:56	10/23/18 19:33	1
3-Nitroaniline	<0.12		0.38	0.12	mg/Kg	☼	10/20/18 01:56	10/23/18 19:33	1
4-Nitroaniline	<0.16		0.38	0.16	mg/Kg	☼	10/20/18 01:56	10/23/18 19:33	1
Nitrobenzene	<0.0096		0.038	0.0096	mg/Kg	☼	10/20/18 01:56	10/23/18 19:33	1
2-Nitrophenol	<0.091		0.38	0.091	mg/Kg	☼	10/20/18 01:56	10/23/18 19:33	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-1

Client Sample ID: 2947V-13-B02 (0-5)

Lab Sample ID: 500-153234-1

Date Collected: 10/16/18 09:00

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 82.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.37		0.77	0.37	mg/Kg	☼	10/20/18 01:56	10/23/18 19:33	1
N-Nitrosodi-n-propylamine	<0.047		0.077	0.047	mg/Kg	☼	10/20/18 01:56	10/23/18 19:33	1
N-Nitrosodiphenylamine	<0.045		0.19	0.045	mg/Kg	☼	10/20/18 01:56	10/23/18 19:33	1
2,2'-oxybis[1-chloropropane]	<0.045		0.19	0.045	mg/Kg	☼	10/20/18 01:56	10/23/18 19:33	1
Pentachlorophenol	<0.62	F1	0.77	0.62	mg/Kg	☼	10/20/18 01:56	10/23/18 19:33	1
Phenanthrene	0.050		0.038	0.0054	mg/Kg	☼	10/20/18 01:56	10/23/18 19:33	1
Phenol	<0.085		0.19	0.085	mg/Kg	☼	10/20/18 01:56	10/23/18 19:33	1
Pyrene	0.14		0.038	0.0076	mg/Kg	☼	10/20/18 01:56	10/23/18 19:33	1
1,2,4-Trichlorobenzene	<0.041		0.19	0.041	mg/Kg	☼	10/20/18 01:56	10/23/18 19:33	1
2,4,5-Trichlorophenol	<0.088		0.38	0.088	mg/Kg	☼	10/20/18 01:56	10/23/18 19:33	1
2,4,6-Trichlorophenol	<0.13		0.38	0.13	mg/Kg	☼	10/20/18 01:56	10/23/18 19:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	97		43 - 145	10/20/18 01:56	10/23/18 19:33	1
2-Fluorophenol	130		31 - 166	10/20/18 01:56	10/23/18 19:33	1
Nitrobenzene-d5	88		37 - 147	10/20/18 01:56	10/23/18 19:33	1
Phenol-d5	125		30 - 153	10/20/18 01:56	10/23/18 19:33	1
Terphenyl-d14	102		42 - 157	10/20/18 01:56	10/23/18 19:33	1
2,4,6-Tribromophenol	89		31 - 143	10/20/18 01:56	10/23/18 19:33	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.45	J	1.2	0.23	mg/Kg	☼	10/23/18 08:25	10/24/18 01:01	1
Arsenic	9.9		0.59	0.20	mg/Kg	☼	10/23/18 08:25	10/24/18 01:01	1
Barium	75		0.59	0.068	mg/Kg	☼	10/23/18 08:25	10/24/18 01:01	1
Beryllium	0.64		0.24	0.055	mg/Kg	☼	10/23/18 08:25	10/24/18 01:01	1
Cadmium	0.35	B	0.12	0.021	mg/Kg	☼	10/23/18 08:25	10/24/18 01:01	1
Chromium	14		0.59	0.29	mg/Kg	☼	10/23/18 08:25	10/24/18 01:01	1
Cobalt	10		0.30	0.078	mg/Kg	☼	10/23/18 08:25	10/24/18 01:01	1
Copper	23	B	0.59	0.17	mg/Kg	☼	10/23/18 08:25	10/24/18 01:01	1
Iron	19000	B	12	6.2	mg/Kg	☼	10/23/18 08:25	10/24/18 01:01	1
Lead	75		0.30	0.14	mg/Kg	☼	10/23/18 08:25	10/24/18 01:01	1
Magnesium	26000		5.9	2.9	mg/Kg	☼	10/23/18 08:25	10/24/18 01:01	1
Calcium	57000		59	10	mg/Kg	☼	10/23/18 08:25	10/24/18 10:23	5
Manganese	610	B	0.59	0.086	mg/Kg	☼	10/23/18 08:25	10/24/18 01:01	1
Nickel	21		0.59	0.17	mg/Kg	☼	10/23/18 08:25	10/24/18 01:01	1
Selenium	0.56	J	0.59	0.35	mg/Kg	☼	10/23/18 08:25	10/24/18 01:01	1
Silver	0.26	J	0.30	0.076	mg/Kg	☼	10/23/18 08:25	10/24/18 01:01	1
Thallium	<0.30		0.59	0.30	mg/Kg	☼	10/23/18 08:25	10/24/18 01:01	1
Vanadium	23		0.30	0.070	mg/Kg	☼	10/23/18 08:25	10/24/18 01:01	1
Zinc	110		1.2	0.52	mg/Kg	☼	10/23/18 08:25	10/24/18 01:01	1
Potassium	1800		30	10	mg/Kg	☼	10/23/18 08:25	10/24/18 01:01	1
Sodium	110		59	8.8	mg/Kg	☼	10/23/18 08:25	10/24/18 01:01	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		10/24/18 09:14	10/24/18 23:12	1
Barium	0.43	J	0.50	0.050	mg/L		10/24/18 09:14	10/24/18 23:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/24/18 09:14	10/24/18 23:12	1
Cadmium	0.0033	J	0.0050	0.0020	mg/L		10/24/18 09:14	10/24/18 23:12	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-1

Client Sample ID: 2947V-13-B02 (0-5)

Lab Sample ID: 500-153234-1

Date Collected: 10/16/18 09:00

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 82.5

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		10/24/18 09:14	10/24/18 23:12	1
Chromium	0.011	J B	0.025	0.010	mg/L		10/24/18 09:14	10/24/18 23:12	1
Cobalt	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/24/18 23:12	1
Copper	0.022	J	0.025	0.010	mg/L		10/24/18 09:14	10/25/18 10:39	1
Iron	<0.20		0.40	0.20	mg/L		10/24/18 09:14	10/24/18 23:12	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/24/18 09:14	10/24/18 23:12	1
Magnesium	160		2.5	0.50	mg/L		10/24/18 09:14	10/24/18 23:12	1
Manganese	0.14		0.025	0.010	mg/L		10/24/18 09:14	10/24/18 23:12	1
Nickel	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/24/18 23:12	1
Potassium	5.3		2.5	0.50	mg/L		10/24/18 09:14	10/24/18 23:12	1
Selenium	<0.020		0.050	0.020	mg/L		10/24/18 09:14	10/24/18 23:12	1
Silver	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/24/18 23:12	1
Vanadium	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/24/18 23:12	1
Zinc	1.1	B	0.50	0.020	mg/L		10/24/18 09:14	10/24/18 23:12	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		10/24/18 09:14	10/25/18 13:07	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/24/18 09:14	10/25/18 04:53	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		10/24/18 11:25	10/25/18 08:09	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038	B	0.020	0.0066	mg/Kg	☼	10/23/18 15:50	10/24/18 08:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.14		0.41	0.14	mg/Kg	☼	10/25/18 13:30	10/25/18 18:42	1
pH	7.8		0.2	0.2	SU			10/23/18 14:03	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-1

Client Sample ID: 2947V-13-B01 (0-5)

Lab Sample ID: 500-153234-2

Date Collected: 10/16/18 09:20

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0086		0.020	0.0086	mg/Kg	☼	10/17/18 18:00	10/25/18 04:17	1
Benzene	<0.00050		0.0020	0.00050	mg/Kg	☼	10/17/18 18:00	10/25/18 04:17	1
Bromodichloromethane	<0.00040		0.0020	0.00040	mg/Kg	☼	10/17/18 18:00	10/25/18 04:17	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg	☼	10/17/18 18:00	10/25/18 04:17	1
Bromomethane	<0.0019	*	0.0049	0.0019	mg/Kg	☼	10/17/18 18:00	10/25/18 04:17	1
2-Butanone (MEK)	<0.0022		0.0049	0.0022	mg/Kg	☼	10/17/18 18:00	10/25/18 04:17	1
Carbon disulfide	<0.0010		0.0049	0.0010	mg/Kg	☼	10/17/18 18:00	10/25/18 04:17	1
Carbon tetrachloride	<0.00057		0.0020	0.00057	mg/Kg	☼	10/17/18 18:00	10/25/18 04:17	1
Chlorobenzene	<0.00073		0.0020	0.00073	mg/Kg	☼	10/17/18 18:00	10/25/18 04:17	1
Chloroethane	<0.0015	*	0.0049	0.0015	mg/Kg	☼	10/17/18 18:00	10/25/18 04:17	1
Chloroform	<0.00068		0.0020	0.00068	mg/Kg	☼	10/17/18 18:00	10/25/18 04:17	1
Chloromethane	<0.0020		0.0049	0.0020	mg/Kg	☼	10/17/18 18:00	10/25/18 04:17	1
cis-1,2-Dichloroethene	<0.00055		0.0020	0.00055	mg/Kg	☼	10/17/18 18:00	10/25/18 04:17	1
cis-1,3-Dichloropropene	<0.00059		0.0020	0.00059	mg/Kg	☼	10/17/18 18:00	10/25/18 04:17	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg	☼	10/17/18 18:00	10/25/18 04:17	1
1,1-Dichloroethane	<0.00068		0.0020	0.00068	mg/Kg	☼	10/17/18 18:00	10/25/18 04:17	1
1,2-Dichloroethane	<0.0015		0.0049	0.0015	mg/Kg	☼	10/17/18 18:00	10/25/18 04:17	1
1,1-Dichloroethene	<0.00068		0.0020	0.00068	mg/Kg	☼	10/17/18 18:00	10/25/18 04:17	1
1,2-Dichloropropane	<0.00051		0.0020	0.00051	mg/Kg	☼	10/17/18 18:00	10/25/18 04:17	1
1,3-Dichloropropane, Total	<0.00069		0.0020	0.00069	mg/Kg	☼	10/17/18 18:00	10/25/18 04:17	1
Ethylbenzene	<0.00094		0.0020	0.00094	mg/Kg	☼	10/17/18 18:00	10/25/18 04:17	1
2-Hexanone	<0.0015		0.0049	0.0015	mg/Kg	☼	10/17/18 18:00	10/25/18 04:17	1
Methylene Chloride	<0.0019		0.0049	0.0019	mg/Kg	☼	10/17/18 18:00	10/25/18 04:17	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0049	0.0015	mg/Kg	☼	10/17/18 18:00	10/25/18 04:17	1
Methyl tert-butyl ether	<0.00058		0.0020	0.00058	mg/Kg	☼	10/17/18 18:00	10/25/18 04:17	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg	☼	10/17/18 18:00	10/25/18 04:17	1
1,1,2,2-Tetrachloroethane	<0.00063		0.0020	0.00063	mg/Kg	☼	10/17/18 18:00	10/25/18 04:17	1
Tetrachloroethene	<0.00067		0.0020	0.00067	mg/Kg	☼	10/17/18 18:00	10/25/18 04:17	1
Toluene	<0.00050		0.0020	0.00050	mg/Kg	☼	10/17/18 18:00	10/25/18 04:17	1
trans-1,2-Dichloroethene	<0.00087		0.0020	0.00087	mg/Kg	☼	10/17/18 18:00	10/25/18 04:17	1
trans-1,3-Dichloropropene	<0.00069		0.0020	0.00069	mg/Kg	☼	10/17/18 18:00	10/25/18 04:17	1
1,1,1-Trichloroethane	<0.00066		0.0020	0.00066	mg/Kg	☼	10/17/18 18:00	10/25/18 04:17	1
1,1,2-Trichloroethane	<0.00085		0.0020	0.00085	mg/Kg	☼	10/17/18 18:00	10/25/18 04:17	1
Trichloroethene	<0.00067		0.0020	0.00067	mg/Kg	☼	10/17/18 18:00	10/25/18 04:17	1
Vinyl acetate	<0.0017		0.0049	0.0017	mg/Kg	☼	10/17/18 18:00	10/25/18 04:17	1
Vinyl chloride	<0.00087		0.0020	0.00087	mg/Kg	☼	10/17/18 18:00	10/25/18 04:17	1
Xylenes, Total	<0.00063		0.0039	0.00063	mg/Kg	☼	10/17/18 18:00	10/25/18 04:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		75 - 131	10/17/18 18:00	10/25/18 04:17	1
Dibromofluoromethane	92		75 - 126	10/17/18 18:00	10/25/18 04:17	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	10/17/18 18:00	10/25/18 04:17	1
Toluene-d8 (Surr)	94		75 - 124	10/17/18 18:00	10/25/18 04:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0070		0.039	0.0070	mg/Kg	☼	10/20/18 01:56	10/23/18 15:33	1
Acenaphthylene	<0.0051		0.039	0.0051	mg/Kg	☼	10/20/18 01:56	10/23/18 15:33	1
Anthracene	<0.0065		0.039	0.0065	mg/Kg	☼	10/20/18 01:56	10/23/18 15:33	1
Benzo[a]anthracene	<0.0052		0.039	0.0052	mg/Kg	☼	10/20/18 01:56	10/23/18 15:33	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-1

Client Sample ID: 2947V-13-B01 (0-5)

Lab Sample ID: 500-153234-2

Date Collected: 10/16/18 09:20

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.016	J	0.039	0.0075	mg/Kg	☼	10/20/18 01:56	10/23/18 15:33	1
Benzo[b]fluoranthene	<0.0084		0.039	0.0084	mg/Kg	☼	10/20/18 01:56	10/23/18 15:33	1
Benzo[g,h,i]perylene	<0.013		0.039	0.013	mg/Kg	☼	10/20/18 01:56	10/23/18 15:33	1
Benzo[k]fluoranthene	<0.011		0.039	0.011	mg/Kg	☼	10/20/18 01:56	10/23/18 15:33	1
Bis(2-chloroethoxy)methane	<0.040		0.20	0.040	mg/Kg	☼	10/20/18 01:56	10/23/18 15:33	1
Bis(2-chloroethyl)ether	<0.058		0.20	0.058	mg/Kg	☼	10/20/18 01:56	10/23/18 15:33	1
Bis(2-ethylhexyl) phthalate	<0.071		0.20	0.071	mg/Kg	☼	10/20/18 01:56	10/23/18 15:33	1
4-Bromophenyl phenyl ether	<0.051		0.20	0.051	mg/Kg	☼	10/20/18 01:56	10/23/18 15:33	1
Butyl benzyl phthalate	<0.074		0.20	0.074	mg/Kg	☼	10/20/18 01:56	10/23/18 15:33	1
Carbazole	<0.097		0.20	0.097	mg/Kg	☼	10/20/18 01:56	10/23/18 15:33	1
4-Chloroaniline	<0.18		0.78	0.18	mg/Kg	☼	10/20/18 01:56	10/23/18 15:33	1
4-Chloro-3-methylphenol	<0.13		0.39	0.13	mg/Kg	☼	10/20/18 01:56	10/23/18 15:33	1
2-Chloronaphthalene	<0.043		0.20	0.043	mg/Kg	☼	10/20/18 01:56	10/23/18 15:33	1
2-Chlorophenol	<0.066		0.20	0.066	mg/Kg	☼	10/20/18 01:56	10/23/18 15:33	1
4-Chlorophenyl phenyl ether	<0.045		0.20	0.045	mg/Kg	☼	10/20/18 01:56	10/23/18 15:33	1
Chrysene	<0.011		0.039	0.011	mg/Kg	☼	10/20/18 01:56	10/23/18 15:33	1
Dibenz(a,h)anthracene	<0.0075		0.039	0.0075	mg/Kg	☼	10/20/18 01:56	10/23/18 15:33	1
Dibenzofuran	<0.045		0.20	0.045	mg/Kg	☼	10/20/18 01:56	10/23/18 15:33	1
1,2-Dichlorobenzene	<0.046		0.20	0.046	mg/Kg	☼	10/20/18 01:56	10/23/18 15:33	1
1,3-Dichlorobenzene	<0.044		0.20	0.044	mg/Kg	☼	10/20/18 01:56	10/23/18 15:33	1
1,4-Dichlorobenzene	<0.050		0.20	0.050	mg/Kg	☼	10/20/18 01:56	10/23/18 15:33	1
3,3'-Dichlorobenzidine	<0.054		0.20	0.054	mg/Kg	☼	10/20/18 01:56	10/23/18 15:33	1
2,4-Dichlorophenol	<0.092		0.39	0.092	mg/Kg	☼	10/20/18 01:56	10/23/18 15:33	1
Diethyl phthalate	<0.066		0.20	0.066	mg/Kg	☼	10/20/18 01:56	10/23/18 15:33	1
2,4-Dimethylphenol	<0.15		0.39	0.15	mg/Kg	☼	10/20/18 01:56	10/23/18 15:33	1
Dimethyl phthalate	<0.051		0.20	0.051	mg/Kg	☼	10/20/18 01:56	10/23/18 15:33	1
Di-n-butyl phthalate	<0.059		0.20	0.059	mg/Kg	☼	10/20/18 01:56	10/23/18 15:33	1
4,6-Dinitro-2-methylphenol	<0.31		0.78	0.31	mg/Kg	☼	10/20/18 01:56	10/23/18 15:33	1
2,4-Dinitrophenol	<0.68		0.78	0.68	mg/Kg	☼	10/20/18 01:56	10/23/18 15:33	1
2,4-Dinitrotoluene	<0.062		0.20	0.062	mg/Kg	☼	10/20/18 01:56	10/23/18 15:33	1
2,6-Dinitrotoluene	<0.076		0.20	0.076	mg/Kg	☼	10/20/18 01:56	10/23/18 15:33	1
Di-n-octyl phthalate	<0.063		0.20	0.063	mg/Kg	☼	10/20/18 01:56	10/23/18 15:33	1
Fluoranthene	<0.0072		0.039	0.0072	mg/Kg	☼	10/20/18 01:56	10/23/18 15:33	1
Fluorene	<0.0055		0.039	0.0055	mg/Kg	☼	10/20/18 01:56	10/23/18 15:33	1
Hexachlorobenzene	<0.0090		0.078	0.0090	mg/Kg	☼	10/20/18 01:56	10/23/18 15:33	1
Hexachlorobutadiene	<0.061		0.20	0.061	mg/Kg	☼	10/20/18 01:56	10/23/18 15:33	1
Hexachlorocyclopentadiene	<0.22		0.78	0.22	mg/Kg	☼	10/20/18 01:56	10/23/18 15:33	1
Hexachloroethane	<0.059		0.20	0.059	mg/Kg	☼	10/20/18 01:56	10/23/18 15:33	1
Indeno[1,2,3-cd]pyrene	<0.010		0.039	0.010	mg/Kg	☼	10/20/18 01:56	10/23/18 15:33	1
Isophorone	<0.044		0.20	0.044	mg/Kg	☼	10/20/18 01:56	10/23/18 15:33	1
2-Methylnaphthalene	<0.0071		0.078	0.0071	mg/Kg	☼	10/20/18 01:56	10/23/18 15:33	1
2-Methylphenol	<0.062		0.20	0.062	mg/Kg	☼	10/20/18 01:56	10/23/18 15:33	1
3 & 4 Methylphenol	<0.065		0.20	0.065	mg/Kg	☼	10/20/18 01:56	10/23/18 15:33	1
Naphthalene	<0.0060		0.039	0.0060	mg/Kg	☼	10/20/18 01:56	10/23/18 15:33	1
2-Nitroaniline	<0.052		0.20	0.052	mg/Kg	☼	10/20/18 01:56	10/23/18 15:33	1
3-Nitroaniline	<0.12		0.39	0.12	mg/Kg	☼	10/20/18 01:56	10/23/18 15:33	1
4-Nitroaniline	<0.16		0.39	0.16	mg/Kg	☼	10/20/18 01:56	10/23/18 15:33	1
Nitrobenzene	<0.0097		0.039	0.0097	mg/Kg	☼	10/20/18 01:56	10/23/18 15:33	1
2-Nitrophenol	<0.092		0.39	0.092	mg/Kg	☼	10/20/18 01:56	10/23/18 15:33	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-1

Client Sample ID: 2947V-13-B01 (0-5)

Lab Sample ID: 500-153234-2

Date Collected: 10/16/18 09:20

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.37		0.78	0.37	mg/Kg	☼	10/20/18 01:56	10/23/18 15:33	1
N-Nitrosodi-n-propylamine	<0.047		0.078	0.047	mg/Kg	☼	10/20/18 01:56	10/23/18 15:33	1
N-Nitrosodiphenylamine	<0.046		0.20	0.046	mg/Kg	☼	10/20/18 01:56	10/23/18 15:33	1
2,2'-oxybis[1-chloropropane]	<0.045		0.20	0.045	mg/Kg	☼	10/20/18 01:56	10/23/18 15:33	1
Pentachlorophenol	<0.62		0.78	0.62	mg/Kg	☼	10/20/18 01:56	10/23/18 15:33	1
Phenanthrene	<0.0054		0.039	0.0054	mg/Kg	☼	10/20/18 01:56	10/23/18 15:33	1
Phenol	<0.086		0.20	0.086	mg/Kg	☼	10/20/18 01:56	10/23/18 15:33	1
Pyrene	<0.0077		0.039	0.0077	mg/Kg	☼	10/20/18 01:56	10/23/18 15:33	1
1,2,4-Trichlorobenzene	<0.042		0.20	0.042	mg/Kg	☼	10/20/18 01:56	10/23/18 15:33	1
2,4,5-Trichlorophenol	<0.089		0.39	0.089	mg/Kg	☼	10/20/18 01:56	10/23/18 15:33	1
2,4,6-Trichlorophenol	<0.13		0.39	0.13	mg/Kg	☼	10/20/18 01:56	10/23/18 15:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	93		43 - 145	10/20/18 01:56	10/23/18 15:33	1
2-Fluorophenol	127		31 - 166	10/20/18 01:56	10/23/18 15:33	1
Nitrobenzene-d5	89		37 - 147	10/20/18 01:56	10/23/18 15:33	1
Phenol-d5	123		30 - 153	10/20/18 01:56	10/23/18 15:33	1
Terphenyl-d14	100		42 - 157	10/20/18 01:56	10/23/18 15:33	1
2,4,6-Tribromophenol	70		31 - 143	10/20/18 01:56	10/23/18 15:33	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.27	J	1.1	0.21	mg/Kg	☼	10/23/18 08:25	10/24/18 01:05	1
Arsenic	13		0.55	0.19	mg/Kg	☼	10/23/18 08:25	10/24/18 01:05	1
Barium	50		0.55	0.062	mg/Kg	☼	10/23/18 08:25	10/24/18 01:05	1
Beryllium	0.72		0.22	0.051	mg/Kg	☼	10/23/18 08:25	10/24/18 01:05	1
Cadmium	0.14	B	0.11	0.020	mg/Kg	☼	10/23/18 08:25	10/24/18 01:05	1
Chromium	18		0.55	0.27	mg/Kg	☼	10/23/18 08:25	10/24/18 01:05	1
Cobalt	13		0.27	0.072	mg/Kg	☼	10/23/18 08:25	10/24/18 01:05	1
Copper	29	B	0.55	0.15	mg/Kg	☼	10/23/18 08:25	10/24/18 01:05	1
Iron	24000	B	11	5.7	mg/Kg	☼	10/23/18 08:25	10/24/18 01:05	1
Lead	20		0.27	0.13	mg/Kg	☼	10/23/18 08:25	10/24/18 01:05	1
Magnesium	6300		5.5	2.7	mg/Kg	☼	10/23/18 08:25	10/24/18 01:05	1
Calcium	5900		11	1.9	mg/Kg	☼	10/23/18 08:25	10/24/18 01:05	1
Manganese	460	B	0.55	0.079	mg/Kg	☼	10/23/18 08:25	10/24/18 01:05	1
Nickel	32		0.55	0.16	mg/Kg	☼	10/23/18 08:25	10/24/18 01:05	1
Selenium	0.33	J	0.55	0.32	mg/Kg	☼	10/23/18 08:25	10/24/18 01:05	1
Silver	0.27		0.27	0.071	mg/Kg	☼	10/23/18 08:25	10/24/18 01:05	1
Thallium	<0.27		0.55	0.27	mg/Kg	☼	10/23/18 08:25	10/24/18 01:05	1
Vanadium	28		0.27	0.065	mg/Kg	☼	10/23/18 08:25	10/24/18 01:05	1
Zinc	98		1.1	0.48	mg/Kg	☼	10/23/18 08:25	10/24/18 01:05	1
Potassium	2000		27	9.7	mg/Kg	☼	10/23/18 08:25	10/24/18 01:05	1
Sodium	73		55	8.1	mg/Kg	☼	10/23/18 08:25	10/24/18 01:05	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		10/24/18 09:14	10/24/18 23:16	1
Barium	0.35	J	0.50	0.050	mg/L		10/24/18 09:14	10/24/18 23:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/24/18 09:14	10/24/18 23:16	1
Cadmium	0.0029	J	0.0050	0.0020	mg/L		10/24/18 09:14	10/24/18 23:16	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-1

Client Sample ID: 2947V-13-B01 (0-5)

Lab Sample ID: 500-153234-2

Date Collected: 10/16/18 09:20

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 84.1

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		10/24/18 09:14	10/24/18 23:16	1
Chromium	0.011	J B	0.025	0.010	mg/L		10/24/18 09:14	10/24/18 23:16	1
Cobalt	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/24/18 23:16	1
Copper	<0.010	^	0.025	0.010	mg/L		10/24/18 09:14	10/24/18 23:16	1
Iron	0.24	J	0.40	0.20	mg/L		10/24/18 09:14	10/24/18 23:16	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/24/18 09:14	10/24/18 23:16	1
Magnesium	110		2.5	0.50	mg/L		10/24/18 09:14	10/24/18 23:16	1
Manganese	0.28		0.025	0.010	mg/L		10/24/18 09:14	10/24/18 23:16	1
Nickel	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/24/18 23:16	1
Potassium	0.74	J	2.5	0.50	mg/L		10/24/18 09:14	10/24/18 23:16	1
Selenium	<0.020		0.050	0.020	mg/L		10/24/18 09:14	10/24/18 23:16	1
Silver	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/24/18 23:16	1
Vanadium	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/24/18 23:16	1
Zinc	0.021	J B	0.50	0.020	mg/L		10/24/18 09:14	10/24/18 23:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.82		0.025	0.010	mg/L		10/24/18 15:28	10/25/18 11:28	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		10/24/18 09:14	10/25/18 13:08	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/24/18 09:14	10/25/18 04:56	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		10/24/18 11:25	10/25/18 08:11	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.037	B	0.019	0.0064	mg/Kg	☼	10/23/18 15:50	10/24/18 08:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.18		0.53	0.18	mg/Kg	☼	10/25/18 13:30	10/25/18 18:42	1
pH	7.9		0.2	0.2	SU			10/23/18 14:06	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-1

Client Sample ID: 2947V-13-B01 (0-5) Dup

Lab Sample ID: 500-153234-3

Date Collected: 10/16/18 09:25

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 83.6

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	☼	10/17/18 18:00	10/25/18 04:42	1
Benzene	<0.00042		0.0016	0.00042	mg/Kg	☼	10/17/18 18:00	10/25/18 04:42	1
Bromodichloromethane	<0.00033		0.0016	0.00033	mg/Kg	☼	10/17/18 18:00	10/25/18 04:42	1
Bromoform	<0.00048		0.0016	0.00048	mg/Kg	☼	10/17/18 18:00	10/25/18 04:42	1
Bromomethane	<0.0016	*	0.0041	0.0016	mg/Kg	☼	10/17/18 18:00	10/25/18 04:42	1
2-Butanone (MEK)	<0.0018		0.0041	0.0018	mg/Kg	☼	10/17/18 18:00	10/25/18 04:42	1
Carbon disulfide	<0.00085		0.0041	0.00085	mg/Kg	☼	10/17/18 18:00	10/25/18 04:42	1
Carbon tetrachloride	<0.00048		0.0016	0.00048	mg/Kg	☼	10/17/18 18:00	10/25/18 04:42	1
Chlorobenzene	<0.00061		0.0016	0.00061	mg/Kg	☼	10/17/18 18:00	10/25/18 04:42	1
Chloroethane	<0.0012	*	0.0041	0.0012	mg/Kg	☼	10/17/18 18:00	10/25/18 04:42	1
Chloroform	<0.00057		0.0016	0.00057	mg/Kg	☼	10/17/18 18:00	10/25/18 04:42	1
Chloromethane	<0.0016		0.0041	0.0016	mg/Kg	☼	10/17/18 18:00	10/25/18 04:42	1
cis-1,2-Dichloroethene	<0.00046		0.0016	0.00046	mg/Kg	☼	10/17/18 18:00	10/25/18 04:42	1
cis-1,3-Dichloropropene	<0.00049		0.0016	0.00049	mg/Kg	☼	10/17/18 18:00	10/25/18 04:42	1
Dibromochloromethane	<0.00054		0.0016	0.00054	mg/Kg	☼	10/17/18 18:00	10/25/18 04:42	1
1,1-Dichloroethane	<0.00056		0.0016	0.00056	mg/Kg	☼	10/17/18 18:00	10/25/18 04:42	1
1,2-Dichloroethane	<0.0013		0.0041	0.0013	mg/Kg	☼	10/17/18 18:00	10/25/18 04:42	1
1,1-Dichloroethene	<0.00056		0.0016	0.00056	mg/Kg	☼	10/17/18 18:00	10/25/18 04:42	1
1,2-Dichloropropane	<0.00042		0.0016	0.00042	mg/Kg	☼	10/17/18 18:00	10/25/18 04:42	1
1,3-Dichloropropene, Total	<0.00058		0.0016	0.00058	mg/Kg	☼	10/17/18 18:00	10/25/18 04:42	1
Ethylbenzene	<0.00079		0.0016	0.00079	mg/Kg	☼	10/17/18 18:00	10/25/18 04:42	1
2-Hexanone	<0.0013		0.0041	0.0013	mg/Kg	☼	10/17/18 18:00	10/25/18 04:42	1
Methylene Chloride	<0.0016		0.0041	0.0016	mg/Kg	☼	10/17/18 18:00	10/25/18 04:42	1
4-Methyl-2-pentanone (MIBK)	<0.0012		0.0041	0.0012	mg/Kg	☼	10/17/18 18:00	10/25/18 04:42	1
Methyl tert-butyl ether	<0.00048		0.0016	0.00048	mg/Kg	☼	10/17/18 18:00	10/25/18 04:42	1
Styrene	<0.00050		0.0016	0.00050	mg/Kg	☼	10/17/18 18:00	10/25/18 04:42	1
1,1,2,2-Tetrachloroethane	<0.00052		0.0016	0.00052	mg/Kg	☼	10/17/18 18:00	10/25/18 04:42	1
Tetrachloroethene	<0.00056		0.0016	0.00056	mg/Kg	☼	10/17/18 18:00	10/25/18 04:42	1
Toluene	<0.00041		0.0016	0.00041	mg/Kg	☼	10/17/18 18:00	10/25/18 04:42	1
trans-1,2-Dichloroethene	<0.00073		0.0016	0.00073	mg/Kg	☼	10/17/18 18:00	10/25/18 04:42	1
trans-1,3-Dichloropropene	<0.00058		0.0016	0.00058	mg/Kg	☼	10/17/18 18:00	10/25/18 04:42	1
1,1,1-Trichloroethane	<0.00055		0.0016	0.00055	mg/Kg	☼	10/17/18 18:00	10/25/18 04:42	1
1,1,2-Trichloroethane	<0.00070		0.0016	0.00070	mg/Kg	☼	10/17/18 18:00	10/25/18 04:42	1
Trichloroethene	<0.00055		0.0016	0.00055	mg/Kg	☼	10/17/18 18:00	10/25/18 04:42	1
Vinyl acetate	<0.0014		0.0041	0.0014	mg/Kg	☼	10/17/18 18:00	10/25/18 04:42	1
Vinyl chloride	<0.00073		0.0016	0.00073	mg/Kg	☼	10/17/18 18:00	10/25/18 04:42	1
Xylenes, Total	<0.00053		0.0033	0.00053	mg/Kg	☼	10/17/18 18:00	10/25/18 04:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		75 - 131	10/17/18 18:00	10/25/18 04:42	1
Dibromofluoromethane	95		75 - 126	10/17/18 18:00	10/25/18 04:42	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	10/17/18 18:00	10/25/18 04:42	1
Toluene-d8 (Surr)	94		75 - 124	10/17/18 18:00	10/25/18 04:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.0097	J	0.039	0.0071	mg/Kg	☼	10/20/18 01:56	10/23/18 16:00	1
Acenaphthylene	<0.0052		0.039	0.0052	mg/Kg	☼	10/20/18 01:56	10/23/18 16:00	1
Anthracene	<0.0066		0.039	0.0066	mg/Kg	☼	10/20/18 01:56	10/23/18 16:00	1
Benzo[a]anthracene	<0.0053		0.039	0.0053	mg/Kg	☼	10/20/18 01:56	10/23/18 16:00	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-1

Client Sample ID: 2947V-13-B01 (0-5) Dup

Lab Sample ID: 500-153234-3

Date Collected: 10/16/18 09:25

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.017	J	0.039	0.0077	mg/Kg	☼	10/20/18 01:56	10/23/18 16:00	1
Benzo[b]fluoranthene	<0.0086		0.039	0.0086	mg/Kg	☼	10/20/18 01:56	10/23/18 16:00	1
Benzo[g,h,i]perylene	<0.013		0.039	0.013	mg/Kg	☼	10/20/18 01:56	10/23/18 16:00	1
Benzo[k]fluoranthene	<0.012		0.039	0.012	mg/Kg	☼	10/20/18 01:56	10/23/18 16:00	1
Bis(2-chloroethoxy)methane	<0.040		0.20	0.040	mg/Kg	☼	10/20/18 01:56	10/23/18 16:00	1
Bis(2-chloroethyl)ether	<0.059		0.20	0.059	mg/Kg	☼	10/20/18 01:56	10/23/18 16:00	1
Bis(2-ethylhexyl) phthalate	<0.072		0.20	0.072	mg/Kg	☼	10/20/18 01:56	10/23/18 16:00	1
4-Bromophenyl phenyl ether	<0.052		0.20	0.052	mg/Kg	☼	10/20/18 01:56	10/23/18 16:00	1
Butyl benzyl phthalate	<0.075		0.20	0.075	mg/Kg	☼	10/20/18 01:56	10/23/18 16:00	1
Carbazole	<0.099		0.20	0.099	mg/Kg	☼	10/20/18 01:56	10/23/18 16:00	1
4-Chloroaniline	<0.19		0.80	0.19	mg/Kg	☼	10/20/18 01:56	10/23/18 16:00	1
4-Chloro-3-methylphenol	<0.13		0.39	0.13	mg/Kg	☼	10/20/18 01:56	10/23/18 16:00	1
2-Chloronaphthalene	<0.044		0.20	0.044	mg/Kg	☼	10/20/18 01:56	10/23/18 16:00	1
2-Chlorophenol	<0.068		0.20	0.068	mg/Kg	☼	10/20/18 01:56	10/23/18 16:00	1
4-Chlorophenyl phenyl ether	<0.046		0.20	0.046	mg/Kg	☼	10/20/18 01:56	10/23/18 16:00	1
Chrysene	<0.011		0.039	0.011	mg/Kg	☼	10/20/18 01:56	10/23/18 16:00	1
Dibenz(a,h)anthracene	<0.0077		0.039	0.0077	mg/Kg	☼	10/20/18 01:56	10/23/18 16:00	1
Dibenzofuran	<0.046		0.20	0.046	mg/Kg	☼	10/20/18 01:56	10/23/18 16:00	1
1,2-Dichlorobenzene	<0.047		0.20	0.047	mg/Kg	☼	10/20/18 01:56	10/23/18 16:00	1
1,3-Dichlorobenzene	<0.045		0.20	0.045	mg/Kg	☼	10/20/18 01:56	10/23/18 16:00	1
1,4-Dichlorobenzene	<0.051		0.20	0.051	mg/Kg	☼	10/20/18 01:56	10/23/18 16:00	1
3,3'-Dichlorobenzidine	<0.055		0.20	0.055	mg/Kg	☼	10/20/18 01:56	10/23/18 16:00	1
2,4-Dichlorophenol	<0.094		0.39	0.094	mg/Kg	☼	10/20/18 01:56	10/23/18 16:00	1
Diethyl phthalate	<0.067		0.20	0.067	mg/Kg	☼	10/20/18 01:56	10/23/18 16:00	1
2,4-Dimethylphenol	<0.15		0.39	0.15	mg/Kg	☼	10/20/18 01:56	10/23/18 16:00	1
Dimethyl phthalate	<0.052		0.20	0.052	mg/Kg	☼	10/20/18 01:56	10/23/18 16:00	1
Di-n-butyl phthalate	<0.060		0.20	0.060	mg/Kg	☼	10/20/18 01:56	10/23/18 16:00	1
4,6-Dinitro-2-methylphenol	<0.32		0.80	0.32	mg/Kg	☼	10/20/18 01:56	10/23/18 16:00	1
2,4-Dinitrophenol	<0.70		0.80	0.70	mg/Kg	☼	10/20/18 01:56	10/23/18 16:00	1
2,4-Dinitrotoluene	<0.063		0.20	0.063	mg/Kg	☼	10/20/18 01:56	10/23/18 16:00	1
2,6-Dinitrotoluene	<0.078		0.20	0.078	mg/Kg	☼	10/20/18 01:56	10/23/18 16:00	1
Di-n-octyl phthalate	<0.065		0.20	0.065	mg/Kg	☼	10/20/18 01:56	10/23/18 16:00	1
Fluoranthene	<0.0073		0.039	0.0073	mg/Kg	☼	10/20/18 01:56	10/23/18 16:00	1
Fluorene	<0.0056		0.039	0.0056	mg/Kg	☼	10/20/18 01:56	10/23/18 16:00	1
Hexachlorobenzene	<0.0092		0.080	0.0092	mg/Kg	☼	10/20/18 01:56	10/23/18 16:00	1
Hexachlorobutadiene	<0.062		0.20	0.062	mg/Kg	☼	10/20/18 01:56	10/23/18 16:00	1
Hexachlorocyclopentadiene	<0.23		0.80	0.23	mg/Kg	☼	10/20/18 01:56	10/23/18 16:00	1
Hexachloroethane	<0.060		0.20	0.060	mg/Kg	☼	10/20/18 01:56	10/23/18 16:00	1
Indeno[1,2,3-cd]pyrene	<0.010		0.039	0.010	mg/Kg	☼	10/20/18 01:56	10/23/18 16:00	1
Isophorone	<0.044		0.20	0.044	mg/Kg	☼	10/20/18 01:56	10/23/18 16:00	1
2-Methylnaphthalene	<0.0073		0.080	0.0073	mg/Kg	☼	10/20/18 01:56	10/23/18 16:00	1
2-Methylphenol	<0.064		0.20	0.064	mg/Kg	☼	10/20/18 01:56	10/23/18 16:00	1
3 & 4 Methylphenol	<0.066		0.20	0.066	mg/Kg	☼	10/20/18 01:56	10/23/18 16:00	1
Naphthalene	<0.0061		0.039	0.0061	mg/Kg	☼	10/20/18 01:56	10/23/18 16:00	1
2-Nitroaniline	<0.053		0.20	0.053	mg/Kg	☼	10/20/18 01:56	10/23/18 16:00	1
3-Nitroaniline	<0.12		0.39	0.12	mg/Kg	☼	10/20/18 01:56	10/23/18 16:00	1
4-Nitroaniline	<0.17		0.39	0.17	mg/Kg	☼	10/20/18 01:56	10/23/18 16:00	1
Nitrobenzene	<0.0099		0.039	0.0099	mg/Kg	☼	10/20/18 01:56	10/23/18 16:00	1
2-Nitrophenol	<0.094		0.39	0.094	mg/Kg	☼	10/20/18 01:56	10/23/18 16:00	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-1

Client Sample ID: 2947V-13-B01 (0-5) Dup

Lab Sample ID: 500-153234-3

Date Collected: 10/16/18 09:25

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 83.6

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	☼	10/20/18 01:56	10/23/18 16:00	1
N-Nitrosodi-n-propylamine	<0.048		0.080	0.048	mg/Kg	☼	10/20/18 01:56	10/23/18 16:00	1
N-Nitrosodiphenylamine	<0.047		0.20	0.047	mg/Kg	☼	10/20/18 01:56	10/23/18 16:00	1
2,2'-oxybis[1-chloropropane]	<0.046		0.20	0.046	mg/Kg	☼	10/20/18 01:56	10/23/18 16:00	1
Pentachlorophenol	<0.64		0.80	0.64	mg/Kg	☼	10/20/18 01:56	10/23/18 16:00	1
Phenanthrene	<0.0055		0.039	0.0055	mg/Kg	☼	10/20/18 01:56	10/23/18 16:00	1
Phenol	<0.088		0.20	0.088	mg/Kg	☼	10/20/18 01:56	10/23/18 16:00	1
Pyrene	<0.0079		0.039	0.0079	mg/Kg	☼	10/20/18 01:56	10/23/18 16:00	1
1,2,4-Trichlorobenzene	<0.043		0.20	0.043	mg/Kg	☼	10/20/18 01:56	10/23/18 16:00	1
2,4,5-Trichlorophenol	<0.090		0.39	0.090	mg/Kg	☼	10/20/18 01:56	10/23/18 16:00	1
2,4,6-Trichlorophenol	<0.14		0.39	0.14	mg/Kg	☼	10/20/18 01:56	10/23/18 16:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	95		43 - 145	10/20/18 01:56	10/23/18 16:00	1
2-Fluorophenol	139		31 - 166	10/20/18 01:56	10/23/18 16:00	1
Nitrobenzene-d5	94		37 - 147	10/20/18 01:56	10/23/18 16:00	1
Phenol-d5	128		30 - 153	10/20/18 01:56	10/23/18 16:00	1
Terphenyl-d14	103		42 - 157	10/20/18 01:56	10/23/18 16:00	1
2,4,6-Tribromophenol	79		31 - 143	10/20/18 01:56	10/23/18 16:00	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.44	J	1.1	0.22	mg/Kg	☼	10/23/18 08:25	10/24/18 01:08	1
Arsenic	12		0.56	0.19	mg/Kg	☼	10/23/18 08:25	10/24/18 01:08	1
Barium	54		0.56	0.064	mg/Kg	☼	10/23/18 08:25	10/24/18 01:08	1
Beryllium	0.70		0.22	0.053	mg/Kg	☼	10/23/18 08:25	10/24/18 01:08	1
Cadmium	0.18	B	0.11	0.020	mg/Kg	☼	10/23/18 08:25	10/24/18 01:08	1
Chromium	17		0.56	0.28	mg/Kg	☼	10/23/18 08:25	10/24/18 01:08	1
Cobalt	13		0.28	0.074	mg/Kg	☼	10/23/18 08:25	10/24/18 01:08	1
Copper	29	B	0.56	0.16	mg/Kg	☼	10/23/18 08:25	10/24/18 01:08	1
Iron	23000	B	11	5.8	mg/Kg	☼	10/23/18 08:25	10/24/18 01:08	1
Lead	19		0.28	0.13	mg/Kg	☼	10/23/18 08:25	10/24/18 01:08	1
Magnesium	9300		5.6	2.8	mg/Kg	☼	10/23/18 08:25	10/24/18 01:08	1
Calcium	11000		11	1.9	mg/Kg	☼	10/23/18 08:25	10/24/18 01:08	1
Manganese	550	B	0.56	0.082	mg/Kg	☼	10/23/18 08:25	10/24/18 01:08	1
Nickel	33		0.56	0.16	mg/Kg	☼	10/23/18 08:25	10/24/18 01:08	1
Selenium	0.35	J	0.56	0.33	mg/Kg	☼	10/23/18 08:25	10/24/18 01:08	1
Silver	0.27	J	0.28	0.073	mg/Kg	☼	10/23/18 08:25	10/24/18 01:08	1
Thallium	<0.28		0.56	0.28	mg/Kg	☼	10/23/18 08:25	10/24/18 01:08	1
Vanadium	27		0.28	0.066	mg/Kg	☼	10/23/18 08:25	10/24/18 01:08	1
Zinc	91		1.1	0.49	mg/Kg	☼	10/23/18 08:25	10/24/18 01:08	1
Potassium	1800		28	10	mg/Kg	☼	10/23/18 08:25	10/24/18 01:08	1
Sodium	74		56	8.3	mg/Kg	☼	10/23/18 08:25	10/24/18 01:08	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		10/24/18 09:14	10/24/18 23:20	1
Barium	0.37	J	0.50	0.050	mg/L		10/24/18 09:14	10/24/18 23:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/24/18 09:14	10/24/18 23:20	1
Cadmium	0.0029	J	0.0050	0.0020	mg/L		10/24/18 09:14	10/24/18 23:20	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-1

Client Sample ID: 2947V-13-B01 (0-5) Dup

Lab Sample ID: 500-153234-3

Date Collected: 10/16/18 09:25

Matrix: Solid

Date Received: 10/16/18 16:40

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	220		5.0	0.50	mg/L		10/24/18 09:14	10/24/18 23:20	1
Chromium	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/24/18 23:20	1
Cobalt	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/24/18 23:20	1
Copper	<0.010	^	0.025	0.010	mg/L		10/24/18 09:14	10/24/18 23:20	1
Iron	0.32	J	0.40	0.20	mg/L		10/24/18 09:14	10/24/18 23:20	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/24/18 09:14	10/24/18 23:20	1
Magnesium	120		2.5	0.50	mg/L		10/24/18 09:14	10/24/18 23:20	1
Manganese	0.32		0.025	0.010	mg/L		10/24/18 09:14	10/24/18 23:20	1
Nickel	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/24/18 23:20	1
Potassium	0.79	J	2.5	0.50	mg/L		10/24/18 09:14	10/24/18 23:20	1
Selenium	<0.020		0.050	0.020	mg/L		10/24/18 09:14	10/24/18 23:20	1
Silver	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/24/18 23:20	1
Vanadium	<0.010		0.025	0.010	mg/L		10/24/18 09:14	10/24/18 23:20	1
Zinc	0.035	J B	0.50	0.020	mg/L		10/24/18 09:14	10/24/18 23:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.93		0.025	0.010	mg/L		10/24/18 15:28	10/25/18 11:32	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		10/24/18 09:14	10/25/18 13:09	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/24/18 09:14	10/25/18 05:00	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		10/24/18 11:25	10/25/18 08:13	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034	B	0.019	0.0062	mg/Kg	☼	10/23/18 15:50	10/24/18 08:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.19		0.54	0.19	mg/Kg	☼	10/25/18 13:30	10/25/18 18:43	1
pH	7.9		0.2	0.2	SU			10/23/18 14:09	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153234-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
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.

Metals

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.
B	Compound was found in the blank and sample.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

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
REER	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 - Romeoville - WO 054

TestAmerica Job ID: 500-153234-1

Laboratory: 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	04-30-19

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



500-153234 COC

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

Bill To (optional)
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-153234
Chain of Custody Number:
Page 1 of 1
Temperature °C of Cooler: 28.5/1

Client		Client Project #		Preservative		Parameter		Matrix		Comments	
Project Name		Project Location/State		Lab Project #		Lab PM		Sampling		Preservative Key	
Lab ID	M/S/MSD	Sample ID	Date	Time	# of Containers	Matrix					
IPST		1118707U									
1118707U		Purcellville, IL								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	
D.C. Pt											
1		2947U-13-B02(0.5)	10/16/18	0900	5	5	X	X	X	X	
2		2947U-13-B01(0.5)	10/16/18	0920	5	5	X	X	X	X	
3		2947U-13-B01 Dup(0.5)	10/16/18	0925	5	5	X	X	X	X	

Turnaround Time Required (Business Days)

___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days 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)

Relinquished By <u>[Signature]</u>	Company <u>Terracon</u>	Date <u>10/16/18</u>	Time <u>1545</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>10/16/18</u>	Time <u>1545</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>10/16/18</u>	Time <u>1650</u>	Received By <u>[Signature]</u>	Company <u>TA ext</u>	Date <u>10/17/18</u>	Time <u>0715</u>

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

* No Aluminium
* Hold SPLP 23 Enorsonics
Per Terracon Instructions

Lab Comments:

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-153234-1

Login Number: 153234

List Source: 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	
Cooler Temperature is recorded.	True	4.8.5.1
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	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-153168-3
Client Project/Site: IDOT - Romeoville - WO 054

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

Attn: Mr. Matthew Weiss



Authorized for release by:
10/26/2018 2:16:35 PM

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

LINKS

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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 - Romeoville - WO 054

TestAmerica Job ID: 500-153168-3

Job ID: 500-153168-3

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-153168-3

Receipt

The samples were received on 10/15/2018 4:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 5.6° C and 5.9° C.

GC/MS VOA

The laboratory control sample (LCS) for 455776 recovered outside control limits for the following analyte: Chloromethane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

The laboratory control sample duplicate (LCSD) for 455654 recovered outside control limits for the following analyte: Chloromethane. 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 contained one acid surrogate and/or one base surrogate outside acceptance limits: 2947V-13-B06 (0-5) (500-153168-14). 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: Two acid surrogate recoveries for the following samples were outside the upper control limit: 2947V-13-B04 (0-5) (500-153168-16) and 2947V-13-B03 (0-5) (500-153168-17). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

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

Metals

Method(s) 6010B: The method blank for preparation batch 500-455561 and analytical batch 500-455773 contained Copper above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

No additional analytical or quality issues were noted, other than those described above or 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 - Romeoville - WO 054

TestAmerica Job ID: 500-153168-3

Client Sample ID: 2947V-13-B06 (0-5)

Lab Sample ID: 500-153168-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.016	J	0.040	0.0053	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.0085	J	0.040	0.0067	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.046		0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.076		0.040	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.14		0.040	0.0087	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.043		0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.037	J	0.040	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.064		0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.011	J	0.040	0.0078	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.079		0.040	0.0075	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.040		0.040	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.022	J	0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.073		0.040	0.0080	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.46	J B	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.6		0.61	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	92		0.61	0.069	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.77		0.24	0.057	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.20		0.12	0.022	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.61	0.30	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.30	0.080	mg/Kg	1	☼	6010B	Total/NA
Copper	19	B	0.61	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	20000	B	12	6.3	mg/Kg	1	☼	6010B	Total/NA
Lead	34		0.30	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	4200	B	6.1	3.0	mg/Kg	1	☼	6010B	Total/NA
Calcium	5500	B	12	2.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	670		0.61	0.088	mg/Kg	1	☼	6010B	Total/NA
Nickel	23		0.61	0.18	mg/Kg	1	☼	6010B	Total/NA
Silver	0.38		0.30	0.078	mg/Kg	1	☼	6010B	Total/NA
Vanadium	29		0.30	0.072	mg/Kg	1	☼	6010B	Total/NA
Zinc	98	B	1.2	0.53	mg/Kg	1	☼	6010B	Total/NA
Potassium	1900		30	11	mg/Kg	1	☼	6010B	Total/NA
Sodium	95		61	9.0	mg/Kg	1	☼	6010B	Total/NA
Barium	0.45	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0021	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	160		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	78		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.067		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.68	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.082	J B	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.031		0.020	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	7.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2947V-13-B05 (0-5)

Lab Sample ID: 500-153168-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.014	J	0.040	0.0053	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.015	J	0.040	0.0067	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.082		0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.12		0.040	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.20		0.040	0.0087	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-3

Client Sample ID: 2947V-13-B05 (0-5) (Continued)

Lab Sample ID: 500-153168-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[g,h,i]perylene	0.056		0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.071		0.040	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.11		0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.015	J	0.040	0.0078	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.18		0.040	0.0075	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.052		0.040	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.059		0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.16		0.040	0.0080	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.48	J B	1.2	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.3		0.58	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	84		0.58	0.066	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.75		0.23	0.054	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.21		0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.29	0.076	mg/Kg	1	☼	6010B	Total/NA
Copper	17	B	0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	19000	B	12	6.0	mg/Kg	1	☼	6010B	Total/NA
Lead	34		0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	5400	B	5.8	2.9	mg/Kg	1	☼	6010B	Total/NA
Calcium	7500	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	650		0.58	0.084	mg/Kg	1	☼	6010B	Total/NA
Nickel	22		0.58	0.17	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.44	J B	0.58	0.34	mg/Kg	1	☼	6010B	Total/NA
Silver	0.36		0.29	0.075	mg/Kg	1	☼	6010B	Total/NA
Vanadium	26		0.29	0.068	mg/Kg	1	☼	6010B	Total/NA
Zinc	110	B	1.2	0.51	mg/Kg	1	☼	6010B	Total/NA
Potassium	1800		29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	260		58	8.6	mg/Kg	1	☼	6010B	Total/NA
Barium	0.52		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0026	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	260		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	140		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.082		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.9	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.35	J B	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.035		0.019	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	8.0		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2947V-13-B04 (0-5)

Lab Sample ID: 500-153168-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.0078	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.032	J	0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.045		0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.073		0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.024	J	0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.028	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.044		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.064		0.038	0.0072	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.021	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-3

Client Sample ID: 2947V-13-B04 (0-5) (Continued)

Lab Sample ID: 500-153168-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.023	J	0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.059		0.038	0.0077	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.50	J B	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	12		0.56	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	78		0.56	0.064	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.77		0.23	0.053	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.20		0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.28	0.074	mg/Kg	1	☼	6010B	Total/NA
Copper	25	B	0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	24000	B	11	5.9	mg/Kg	1	☼	6010B	Total/NA
Lead	40		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	6100	B	5.6	2.8	mg/Kg	1	☼	6010B	Total/NA
Calcium	7900	B	11	1.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	690		0.56	0.082	mg/Kg	1	☼	6010B	Total/NA
Nickel	26		0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.72	B	0.56	0.33	mg/Kg	1	☼	6010B	Total/NA
Silver	0.37		0.28	0.073	mg/Kg	1	☼	6010B	Total/NA
Vanadium	29		0.28	0.066	mg/Kg	1	☼	6010B	Total/NA
Zinc	110	B	1.1	0.49	mg/Kg	1	☼	6010B	Total/NA
Potassium	2100		28	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	160		56	8.3	mg/Kg	1	☼	6010B	Total/NA
Barium	0.41	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	130		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.11		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.58	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.034	J B	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.037		0.019	0.0063	mg/Kg	1	☼	7471B	Total/NA
pH	7.8		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2947V-13-B03 (0-5)

Lab Sample ID: 500-153168-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.011	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.014	J	0.038	0.0073	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.021	J	0.038	0.0082	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.014	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.019	J	0.038	0.0070	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0083	J	0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.016	J	0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.50	J B	1.1	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	10		0.55	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	39		0.55	0.063	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.55		0.22	0.052	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.18		0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	12		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.0		0.28	0.072	mg/Kg	1	☼	6010B	Total/NA
Copper	21	B	0.55	0.15	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-3

Client Sample ID: 2947V-13-B03 (0-5) (Continued)

Lab Sample ID: 500-153168-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	17000	B	11	5.7	mg/Kg	1	☼	6010B	Total/NA
Lead	20		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	30000	B	5.5	2.7	mg/Kg	1	☼	6010B	Total/NA
Calcium	61000	B	55	9.4	mg/Kg	5	☼	6010B	Total/NA
Manganese	400		0.55	0.080	mg/Kg	1	☼	6010B	Total/NA
Nickel	21		0.55	0.16	mg/Kg	1	☼	6010B	Total/NA
Silver	0.22	J	0.28	0.071	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.28	0.065	mg/Kg	1	☼	6010B	Total/NA
Zinc	72	B	1.1	0.49	mg/Kg	1	☼	6010B	Total/NA
Potassium	1900		28	9.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	110		55	8.2	mg/Kg	1	☼	6010B	Total/NA
Barium	0.36	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0022	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	340		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	190		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.15		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.5	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.26	J B	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.027		0.018	0.0060	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.

TestAmerica Chicago

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-153168-14	2947V-13-B06 (0-5)	Solid	10/15/18 14:05	10/15/18 16:40
500-153168-15	2947V-13-B05 (0-5)	Solid	10/15/18 14:30	10/15/18 16:40
500-153168-16	2947V-13-B04 (0-5)	Solid	10/15/18 15:00	10/15/18 16:40
500-153168-17	2947V-13-B03 (0-5)	Solid	10/15/18 15:25	10/15/18 16:40

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-3

Client Sample ID: 2947V-13-B06 (0-5)

Lab Sample ID: 500-153168-14

Date Collected: 10/15/18 14:05

Matrix: Solid

Date Received: 10/15/18 16:40

Percent Solids: 80.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0087		0.020	0.0087	mg/Kg	☼	10/16/18 17:55	10/19/18 08:37	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg	☼	10/16/18 17:55	10/19/18 08:37	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg	☼	10/16/18 17:55	10/19/18 08:37	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg	☼	10/16/18 17:55	10/19/18 08:37	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg	☼	10/16/18 17:55	10/19/18 08:37	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg	☼	10/16/18 17:55	10/19/18 08:37	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg	☼	10/16/18 17:55	10/19/18 08:37	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg	☼	10/16/18 17:55	10/19/18 08:37	1
Chlorobenzene	<0.00073		0.0020	0.00073	mg/Kg	☼	10/16/18 17:55	10/19/18 08:37	1
Chloroethane	<0.0015		0.0050	0.0015	mg/Kg	☼	10/16/18 17:55	10/19/18 08:37	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg	☼	10/16/18 17:55	10/19/18 08:37	1
Chloromethane	<0.0020	*	0.0050	0.0020	mg/Kg	☼	10/16/18 17:55	10/19/18 08:37	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg	☼	10/16/18 17:55	10/19/18 08:37	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg	☼	10/16/18 17:55	10/19/18 08:37	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg	☼	10/16/18 17:55	10/19/18 08:37	1
1,1-Dichloroethane	<0.00068		0.0020	0.00068	mg/Kg	☼	10/16/18 17:55	10/19/18 08:37	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg	☼	10/16/18 17:55	10/19/18 08:37	1
1,1-Dichloroethene	<0.00068		0.0020	0.00068	mg/Kg	☼	10/16/18 17:55	10/19/18 08:37	1
1,2-Dichloropropane	<0.00051		0.0020	0.00051	mg/Kg	☼	10/16/18 17:55	10/19/18 08:37	1
1,3-Dichloropropane, Total	<0.00070		0.0020	0.00070	mg/Kg	☼	10/16/18 17:55	10/19/18 08:37	1
Ethylbenzene	<0.00095		0.0020	0.00095	mg/Kg	☼	10/16/18 17:55	10/19/18 08:37	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg	☼	10/16/18 17:55	10/19/18 08:37	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg	☼	10/16/18 17:55	10/19/18 08:37	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg	☼	10/16/18 17:55	10/19/18 08:37	1
Methyl tert-butyl ether	<0.00058		0.0020	0.00058	mg/Kg	☼	10/16/18 17:55	10/19/18 08:37	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg	☼	10/16/18 17:55	10/19/18 08:37	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg	☼	10/16/18 17:55	10/19/18 08:37	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg	☼	10/16/18 17:55	10/19/18 08:37	1
Toluene	<0.00050		0.0020	0.00050	mg/Kg	☼	10/16/18 17:55	10/19/18 08:37	1
trans-1,2-Dichloroethene	<0.00088		0.0020	0.00088	mg/Kg	☼	10/16/18 17:55	10/19/18 08:37	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg	☼	10/16/18 17:55	10/19/18 08:37	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg	☼	10/16/18 17:55	10/19/18 08:37	1
1,1,2-Trichloroethane	<0.00085		0.0020	0.00085	mg/Kg	☼	10/16/18 17:55	10/19/18 08:37	1
Trichloroethene	<0.00067		0.0020	0.00067	mg/Kg	☼	10/16/18 17:55	10/19/18 08:37	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg	☼	10/16/18 17:55	10/19/18 08:37	1
Vinyl chloride	<0.00088		0.0020	0.00088	mg/Kg	☼	10/16/18 17:55	10/19/18 08:37	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg	☼	10/16/18 17:55	10/19/18 08:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		75 - 131	10/16/18 17:55	10/19/18 08:37	1
Dibromofluoromethane	113		75 - 126	10/16/18 17:55	10/19/18 08:37	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	10/16/18 17:55	10/19/18 08:37	1
Toluene-d8 (Surr)	94		75 - 124	10/16/18 17:55	10/19/18 08:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0072		0.040	0.0072	mg/Kg	☼	10/19/18 22:40	10/22/18 17:00	1
Acenaphthylene	0.016	J	0.040	0.0053	mg/Kg	☼	10/19/18 22:40	10/22/18 17:00	1
Anthracene	0.0085	J	0.040	0.0067	mg/Kg	☼	10/19/18 22:40	10/22/18 17:00	1
Benzo[a]anthracene	0.046		0.040	0.0054	mg/Kg	☼	10/19/18 22:40	10/22/18 17:00	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-3

Client Sample ID: 2947V-13-B06 (0-5)

Lab Sample ID: 500-153168-14

Date Collected: 10/15/18 14:05

Matrix: Solid

Date Received: 10/15/18 16:40

Percent Solids: 80.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.076		0.040	0.0078	mg/Kg	☼	10/19/18 22:40	10/22/18 17:00	1
Benzo[b]fluoranthene	0.14		0.040	0.0087	mg/Kg	☼	10/19/18 22:40	10/22/18 17:00	1
Benzo[g,h,i]perylene	0.043		0.040	0.013	mg/Kg	☼	10/19/18 22:40	10/22/18 17:00	1
Benzo[k]fluoranthene	0.037	J	0.040	0.012	mg/Kg	☼	10/19/18 22:40	10/22/18 17:00	1
Bis(2-chloroethoxy)methane	<0.041		0.20	0.041	mg/Kg	☼	10/19/18 22:40	10/22/18 17:00	1
Bis(2-chloroethyl)ether	<0.060		0.20	0.060	mg/Kg	☼	10/19/18 22:40	10/22/18 17:00	1
Bis(2-ethylhexyl) phthalate	<0.074		0.20	0.074	mg/Kg	☼	10/19/18 22:40	10/22/18 17:00	1
4-Bromophenyl phenyl ether	<0.053		0.20	0.053	mg/Kg	☼	10/19/18 22:40	10/22/18 17:00	1
Butyl benzyl phthalate	<0.077		0.20	0.077	mg/Kg	☼	10/19/18 22:40	10/22/18 17:00	1
Carbazole	<0.10		0.20	0.10	mg/Kg	☼	10/19/18 22:40	10/22/18 17:00	1
4-Chloroaniline	<0.19		0.81	0.19	mg/Kg	☼	10/19/18 22:40	10/22/18 17:00	1
4-Chloro-3-methylphenol	<0.14		0.40	0.14	mg/Kg	☼	10/19/18 22:40	10/22/18 17:00	1
2-Chloronaphthalene	<0.045		0.20	0.045	mg/Kg	☼	10/19/18 22:40	10/22/18 17:00	1
2-Chlorophenol	<0.069		0.20	0.069	mg/Kg	☼	10/19/18 22:40	10/22/18 17:00	1
4-Chlorophenyl phenyl ether	<0.047		0.20	0.047	mg/Kg	☼	10/19/18 22:40	10/22/18 17:00	1
Chrysene	0.064		0.040	0.011	mg/Kg	☼	10/19/18 22:40	10/22/18 17:00	1
Dibenz(a,h)anthracene	0.011	J	0.040	0.0078	mg/Kg	☼	10/19/18 22:40	10/22/18 17:00	1
Dibenzofuran	<0.047		0.20	0.047	mg/Kg	☼	10/19/18 22:40	10/22/18 17:00	1
1,2-Dichlorobenzene	<0.048		0.20	0.048	mg/Kg	☼	10/19/18 22:40	10/22/18 17:00	1
1,3-Dichlorobenzene	<0.045		0.20	0.045	mg/Kg	☼	10/19/18 22:40	10/22/18 17:00	1
1,4-Dichlorobenzene	<0.052		0.20	0.052	mg/Kg	☼	10/19/18 22:40	10/22/18 17:00	1
3,3'-Dichlorobenzidine	<0.056		0.20	0.056	mg/Kg	☼	10/19/18 22:40	10/22/18 17:00	1
2,4-Dichlorophenol	<0.096		0.40	0.096	mg/Kg	☼	10/19/18 22:40	10/22/18 17:00	1
Diethyl phthalate	<0.068		0.20	0.068	mg/Kg	☼	10/19/18 22:40	10/22/18 17:00	1
2,4-Dimethylphenol	<0.15		0.40	0.15	mg/Kg	☼	10/19/18 22:40	10/22/18 17:00	1
Dimethyl phthalate	<0.053		0.20	0.053	mg/Kg	☼	10/19/18 22:40	10/22/18 17:00	1
Di-n-butyl phthalate	<0.061		0.20	0.061	mg/Kg	☼	10/19/18 22:40	10/22/18 17:00	1
4,6-Dinitro-2-methylphenol	<0.32		0.81	0.32	mg/Kg	☼	10/19/18 22:40	10/22/18 17:00	1
2,4-Dinitrophenol	<0.71		0.81	0.71	mg/Kg	☼	10/19/18 22:40	10/22/18 17:00	1
2,4-Dinitrotoluene	<0.064		0.20	0.064	mg/Kg	☼	10/19/18 22:40	10/22/18 17:00	1
2,6-Dinitrotoluene	<0.079		0.20	0.079	mg/Kg	☼	10/19/18 22:40	10/22/18 17:00	1
Di-n-octyl phthalate	<0.066		0.20	0.066	mg/Kg	☼	10/19/18 22:40	10/22/18 17:00	1
Fluoranthene	0.079		0.040	0.0075	mg/Kg	☼	10/19/18 22:40	10/22/18 17:00	1
Fluorene	<0.0057		0.040	0.0057	mg/Kg	☼	10/19/18 22:40	10/22/18 17:00	1
Hexachlorobenzene	<0.0093		0.081	0.0093	mg/Kg	☼	10/19/18 22:40	10/22/18 17:00	1
Hexachlorobutadiene	<0.063		0.20	0.063	mg/Kg	☼	10/19/18 22:40	10/22/18 17:00	1
Hexachlorocyclopentadiene	<0.23		0.81	0.23	mg/Kg	☼	10/19/18 22:40	10/22/18 17:00	1
Hexachloroethane	<0.061		0.20	0.061	mg/Kg	☼	10/19/18 22:40	10/22/18 17:00	1
Indeno[1,2,3-cd]pyrene	0.040		0.040	0.010	mg/Kg	☼	10/19/18 22:40	10/22/18 17:00	1
Isophorone	<0.045		0.20	0.045	mg/Kg	☼	10/19/18 22:40	10/22/18 17:00	1
2-Methylnaphthalene	<0.0074		0.081	0.0074	mg/Kg	☼	10/19/18 22:40	10/22/18 17:00	1
2-Methylphenol	<0.065		0.20	0.065	mg/Kg	☼	10/19/18 22:40	10/22/18 17:00	1
3 & 4 Methylphenol	<0.067		0.20	0.067	mg/Kg	☼	10/19/18 22:40	10/22/18 17:00	1
Naphthalene	<0.0062		0.040	0.0062	mg/Kg	☼	10/19/18 22:40	10/22/18 17:00	1
2-Nitroaniline	<0.054		0.20	0.054	mg/Kg	☼	10/19/18 22:40	10/22/18 17:00	1
3-Nitroaniline	<0.12		0.40	0.12	mg/Kg	☼	10/19/18 22:40	10/22/18 17:00	1
4-Nitroaniline	<0.17		0.40	0.17	mg/Kg	☼	10/19/18 22:40	10/22/18 17:00	1
Nitrobenzene	<0.010		0.040	0.010	mg/Kg	☼	10/19/18 22:40	10/22/18 17:00	1
2-Nitrophenol	<0.095		0.40	0.095	mg/Kg	☼	10/19/18 22:40	10/22/18 17:00	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-3

Client Sample ID: 2947V-13-B06 (0-5)

Lab Sample ID: 500-153168-14

Date Collected: 10/15/18 14:05

Matrix: Solid

Date Received: 10/15/18 16:40

Percent Solids: 80.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.38		0.81	0.38	mg/Kg	☼	10/19/18 22:40	10/22/18 17:00	1
N-Nitrosodi-n-propylamine	<0.049		0.081	0.049	mg/Kg	☼	10/19/18 22:40	10/22/18 17:00	1
N-Nitrosodiphenylamine	<0.048		0.20	0.048	mg/Kg	☼	10/19/18 22:40	10/22/18 17:00	1
2,2'-oxybis[1-chloropropane]	<0.047		0.20	0.047	mg/Kg	☼	10/19/18 22:40	10/22/18 17:00	1
Pentachlorophenol	<0.65		0.81	0.65	mg/Kg	☼	10/19/18 22:40	10/22/18 17:00	1
Phenanthrene	0.022	J	0.040	0.0056	mg/Kg	☼	10/19/18 22:40	10/22/18 17:00	1
Phenol	<0.089		0.20	0.089	mg/Kg	☼	10/19/18 22:40	10/22/18 17:00	1
Pyrene	0.073		0.040	0.0080	mg/Kg	☼	10/19/18 22:40	10/22/18 17:00	1
1,2,4-Trichlorobenzene	<0.043		0.20	0.043	mg/Kg	☼	10/19/18 22:40	10/22/18 17:00	1
2,4,5-Trichlorophenol	<0.092		0.40	0.092	mg/Kg	☼	10/19/18 22:40	10/22/18 17:00	1
2,4,6-Trichlorophenol	<0.14		0.40	0.14	mg/Kg	☼	10/19/18 22:40	10/22/18 17:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	96		44 - 121	10/19/18 22:40	10/22/18 17:00	1
2-Fluorophenol	145	X	46 - 133	10/19/18 22:40	10/22/18 17:00	1
Nitrobenzene-d5	107		41 - 120	10/19/18 22:40	10/22/18 17:00	1
Phenol-d5	119		46 - 125	10/19/18 22:40	10/22/18 17:00	1
Terphenyl-d14	109		35 - 160	10/19/18 22:40	10/22/18 17:00	1
2,4,6-Tribromophenol	90		25 - 139	10/19/18 22:40	10/22/18 17:00	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.46	J B	1.2	0.24	mg/Kg	☼	10/18/18 08:28	10/19/18 02:00	1
Arsenic	8.6		0.61	0.21	mg/Kg	☼	10/18/18 08:28	10/19/18 02:00	1
Barium	92		0.61	0.069	mg/Kg	☼	10/18/18 08:28	10/19/18 02:00	1
Beryllium	0.77		0.24	0.057	mg/Kg	☼	10/18/18 08:28	10/19/18 02:00	1
Cadmium	0.20		0.12	0.022	mg/Kg	☼	10/18/18 08:28	10/19/18 02:00	1
Chromium	17		0.61	0.30	mg/Kg	☼	10/18/18 08:28	10/19/18 02:00	1
Cobalt	11		0.30	0.080	mg/Kg	☼	10/18/18 08:28	10/19/18 02:00	1
Copper	19	B	0.61	0.17	mg/Kg	☼	10/18/18 08:28	10/19/18 02:00	1
Iron	20000	B	12	6.3	mg/Kg	☼	10/18/18 08:28	10/19/18 02:00	1
Lead	34		0.30	0.14	mg/Kg	☼	10/18/18 08:28	10/19/18 02:00	1
Magnesium	4200	B	6.1	3.0	mg/Kg	☼	10/18/18 08:28	10/19/18 02:00	1
Calcium	5500	B	12	2.1	mg/Kg	☼	10/18/18 08:28	10/19/18 02:00	1
Manganese	670		0.61	0.088	mg/Kg	☼	10/18/18 08:28	10/19/18 02:00	1
Nickel	23		0.61	0.18	mg/Kg	☼	10/18/18 08:28	10/19/18 02:00	1
Selenium	<0.36		0.61	0.36	mg/Kg	☼	10/18/18 08:28	10/19/18 02:00	1
Silver	0.38		0.30	0.078	mg/Kg	☼	10/18/18 08:28	10/19/18 02:00	1
Thallium	<0.30		0.61	0.30	mg/Kg	☼	10/18/18 08:28	10/19/18 02:00	1
Vanadium	29		0.30	0.072	mg/Kg	☼	10/18/18 08:28	10/19/18 02:00	1
Zinc	98	B	1.2	0.53	mg/Kg	☼	10/18/18 08:28	10/19/18 02:00	1
Potassium	1900		30	11	mg/Kg	☼	10/18/18 08:28	10/19/18 02:00	1
Sodium	95		61	9.0	mg/Kg	☼	10/18/18 08:28	10/19/18 02:00	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		10/18/18 15:08	10/19/18 20:05	1
Barium	0.45	J	0.50	0.050	mg/L		10/18/18 15:08	10/19/18 20:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/18/18 15:08	10/19/18 20:05	1
Cadmium	0.0021	J	0.0050	0.0020	mg/L		10/18/18 15:08	10/19/18 20:05	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-3

Client Sample ID: 2947V-13-B06 (0-5)

Lab Sample ID: 500-153168-14

Date Collected: 10/15/18 14:05

Matrix: Solid

Date Received: 10/15/18 16:40

Percent Solids: 80.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	160		5.0	0.50	mg/L		10/18/18 15:08	10/19/18 20:05	1
Chromium	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 20:05	1
Cobalt	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 20:05	1
Copper	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 20:05	1
Iron	<0.20		0.40	0.20	mg/L		10/18/18 15:08	10/19/18 20:05	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/18/18 15:08	10/19/18 20:05	1
Magnesium	78		2.5	0.50	mg/L		10/18/18 15:08	10/19/18 20:05	1
Manganese	0.067		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 20:05	1
Nickel	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 20:05	1
Potassium	0.68 J		2.5	0.50	mg/L		10/18/18 15:08	10/19/18 20:05	1
Selenium	<0.020		0.050	0.020	mg/L		10/18/18 15:08	10/19/18 20:05	1
Silver	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 20:05	1
Vanadium	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 20:05	1
Zinc	0.082 J B		0.50	0.020	mg/L		10/18/18 15:08	10/19/18 20:05	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		10/18/18 15:08	10/24/18 15:27	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/18/18 15:08	10/23/18 04:03	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		10/19/18 11:20	10/22/18 11:28	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.020	0.0065	mg/Kg	☼	10/18/18 16:20	10/19/18 11:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.21		0.60	0.21	mg/Kg	☼	10/24/18 14:10	10/24/18 22:13	1
pH	7.6		0.2	0.2	SU			10/22/18 17:23	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-3

Client Sample ID: 2947V-13-B05 (0-5)

Lab Sample ID: 500-153168-15

Date Collected: 10/15/18 14:30

Matrix: Solid

Date Received: 10/15/18 16:40

Percent Solids: 81.6

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	☼	10/16/18 17:55	10/19/18 09:02	1
Benzene	<0.00049		0.0019	0.00049	mg/Kg	☼	10/16/18 17:55	10/19/18 09:02	1
Bromodichloromethane	<0.00039		0.0019	0.00039	mg/Kg	☼	10/16/18 17:55	10/19/18 09:02	1
Bromoform	<0.00056		0.0019	0.00056	mg/Kg	☼	10/16/18 17:55	10/19/18 09:02	1
Bromomethane	<0.0018		0.0048	0.0018	mg/Kg	☼	10/16/18 17:55	10/19/18 09:02	1
2-Butanone (MEK)	<0.0021		0.0048	0.0021	mg/Kg	☼	10/16/18 17:55	10/19/18 09:02	1
Carbon disulfide	<0.00099		0.0048	0.00099	mg/Kg	☼	10/16/18 17:55	10/19/18 09:02	1
Carbon tetrachloride	<0.00055		0.0019	0.00055	mg/Kg	☼	10/16/18 17:55	10/19/18 09:02	1
Chlorobenzene	<0.00070		0.0019	0.00070	mg/Kg	☼	10/16/18 17:55	10/19/18 09:02	1
Chloroethane	<0.0014		0.0048	0.0014	mg/Kg	☼	10/16/18 17:55	10/19/18 09:02	1
Chloroform	<0.00066		0.0019	0.00066	mg/Kg	☼	10/16/18 17:55	10/19/18 09:02	1
Chloromethane	<0.0019	*	0.0048	0.0019	mg/Kg	☼	10/16/18 17:55	10/19/18 09:02	1
cis-1,2-Dichloroethene	<0.00053		0.0019	0.00053	mg/Kg	☼	10/16/18 17:55	10/19/18 09:02	1
cis-1,3-Dichloropropene	<0.00058		0.0019	0.00058	mg/Kg	☼	10/16/18 17:55	10/19/18 09:02	1
Dibromochloromethane	<0.00062		0.0019	0.00062	mg/Kg	☼	10/16/18 17:55	10/19/18 09:02	1
1,1-Dichloroethane	<0.00065		0.0019	0.00065	mg/Kg	☼	10/16/18 17:55	10/19/18 09:02	1
1,2-Dichloroethane	<0.0015		0.0048	0.0015	mg/Kg	☼	10/16/18 17:55	10/19/18 09:02	1
1,1-Dichloroethene	<0.00066		0.0019	0.00066	mg/Kg	☼	10/16/18 17:55	10/19/18 09:02	1
1,2-Dichloropropane	<0.00049		0.0019	0.00049	mg/Kg	☼	10/16/18 17:55	10/19/18 09:02	1
1,3-Dichloropropane, Total	<0.00067		0.0019	0.00067	mg/Kg	☼	10/16/18 17:55	10/19/18 09:02	1
Ethylbenzene	<0.00091		0.0019	0.00091	mg/Kg	☼	10/16/18 17:55	10/19/18 09:02	1
2-Hexanone	<0.0015		0.0048	0.0015	mg/Kg	☼	10/16/18 17:55	10/19/18 09:02	1
Methylene Chloride	<0.0019		0.0048	0.0019	mg/Kg	☼	10/16/18 17:55	10/19/18 09:02	1
4-Methyl-2-pentanone (MIBK)	<0.0014		0.0048	0.0014	mg/Kg	☼	10/16/18 17:55	10/19/18 09:02	1
Methyl tert-butyl ether	<0.00056		0.0019	0.00056	mg/Kg	☼	10/16/18 17:55	10/19/18 09:02	1
Styrene	<0.00058		0.0019	0.00058	mg/Kg	☼	10/16/18 17:55	10/19/18 09:02	1
1,1,2,2-Tetrachloroethane	<0.00061		0.0019	0.00061	mg/Kg	☼	10/16/18 17:55	10/19/18 09:02	1
Tetrachloroethene	<0.00065		0.0019	0.00065	mg/Kg	☼	10/16/18 17:55	10/19/18 09:02	1
Toluene	<0.00048		0.0019	0.00048	mg/Kg	☼	10/16/18 17:55	10/19/18 09:02	1
trans-1,2-Dichloroethene	<0.00085		0.0019	0.00085	mg/Kg	☼	10/16/18 17:55	10/19/18 09:02	1
trans-1,3-Dichloropropene	<0.00067		0.0019	0.00067	mg/Kg	☼	10/16/18 17:55	10/19/18 09:02	1
1,1,1-Trichloroethane	<0.00064		0.0019	0.00064	mg/Kg	☼	10/16/18 17:55	10/19/18 09:02	1
1,1,2-Trichloroethane	<0.00082		0.0019	0.00082	mg/Kg	☼	10/16/18 17:55	10/19/18 09:02	1
Trichloroethene	<0.00064		0.0019	0.00064	mg/Kg	☼	10/16/18 17:55	10/19/18 09:02	1
Vinyl acetate	<0.0017		0.0048	0.0017	mg/Kg	☼	10/16/18 17:55	10/19/18 09:02	1
Vinyl chloride	<0.00084		0.0019	0.00084	mg/Kg	☼	10/16/18 17:55	10/19/18 09:02	1
Xylenes, Total	<0.00061		0.0038	0.00061	mg/Kg	☼	10/16/18 17:55	10/19/18 09:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		75 - 131	10/16/18 17:55	10/19/18 09:02	1
Dibromofluoromethane	110		75 - 126	10/16/18 17:55	10/19/18 09:02	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	10/16/18 17:55	10/19/18 09:02	1
Toluene-d8 (Surr)	95		75 - 124	10/16/18 17:55	10/19/18 09:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0073		0.040	0.0073	mg/Kg	☼	10/19/18 22:40	10/22/18 17:28	1
Acenaphthylene	0.014	J	0.040	0.0053	mg/Kg	☼	10/19/18 22:40	10/22/18 17:28	1
Anthracene	0.015	J	0.040	0.0067	mg/Kg	☼	10/19/18 22:40	10/22/18 17:28	1
Benzo[a]anthracene	0.082		0.040	0.0054	mg/Kg	☼	10/19/18 22:40	10/22/18 17:28	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-3

Client Sample ID: 2947V-13-B05 (0-5)

Lab Sample ID: 500-153168-15

Date Collected: 10/15/18 14:30

Matrix: Solid

Date Received: 10/15/18 16:40

Percent Solids: 81.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.12		0.040	0.0078	mg/Kg	☼	10/19/18 22:40	10/22/18 17:28	1
Benzo[b]fluoranthene	0.20		0.040	0.0087	mg/Kg	☼	10/19/18 22:40	10/22/18 17:28	1
Benzo[g,h,i]perylene	0.056		0.040	0.013	mg/Kg	☼	10/19/18 22:40	10/22/18 17:28	1
Benzo[k]fluoranthene	0.071		0.040	0.012	mg/Kg	☼	10/19/18 22:40	10/22/18 17:28	1
Bis(2-chloroethoxy)methane	<0.041		0.20	0.041	mg/Kg	☼	10/19/18 22:40	10/22/18 17:28	1
Bis(2-chloroethyl)ether	<0.060		0.20	0.060	mg/Kg	☼	10/19/18 22:40	10/22/18 17:28	1
Bis(2-ethylhexyl) phthalate	<0.074		0.20	0.074	mg/Kg	☼	10/19/18 22:40	10/22/18 17:28	1
4-Bromophenyl phenyl ether	<0.053		0.20	0.053	mg/Kg	☼	10/19/18 22:40	10/22/18 17:28	1
Butyl benzyl phthalate	<0.077		0.20	0.077	mg/Kg	☼	10/19/18 22:40	10/22/18 17:28	1
Carbazole	<0.10		0.20	0.10	mg/Kg	☼	10/19/18 22:40	10/22/18 17:28	1
4-Chloroaniline	<0.19		0.81	0.19	mg/Kg	☼	10/19/18 22:40	10/22/18 17:28	1
4-Chloro-3-methylphenol	<0.14		0.40	0.14	mg/Kg	☼	10/19/18 22:40	10/22/18 17:28	1
2-Chloronaphthalene	<0.045		0.20	0.045	mg/Kg	☼	10/19/18 22:40	10/22/18 17:28	1
2-Chlorophenol	<0.069		0.20	0.069	mg/Kg	☼	10/19/18 22:40	10/22/18 17:28	1
4-Chlorophenyl phenyl ether	<0.047		0.20	0.047	mg/Kg	☼	10/19/18 22:40	10/22/18 17:28	1
Chrysene	0.11		0.040	0.011	mg/Kg	☼	10/19/18 22:40	10/22/18 17:28	1
Dibenz(a,h)anthracene	0.015 J		0.040	0.0078	mg/Kg	☼	10/19/18 22:40	10/22/18 17:28	1
Dibenzofuran	<0.047		0.20	0.047	mg/Kg	☼	10/19/18 22:40	10/22/18 17:28	1
1,2-Dichlorobenzene	<0.048		0.20	0.048	mg/Kg	☼	10/19/18 22:40	10/22/18 17:28	1
1,3-Dichlorobenzene	<0.045		0.20	0.045	mg/Kg	☼	10/19/18 22:40	10/22/18 17:28	1
1,4-Dichlorobenzene	<0.052		0.20	0.052	mg/Kg	☼	10/19/18 22:40	10/22/18 17:28	1
3,3'-Dichlorobenzidine	<0.056		0.20	0.056	mg/Kg	☼	10/19/18 22:40	10/22/18 17:28	1
2,4-Dichlorophenol	<0.096		0.40	0.096	mg/Kg	☼	10/19/18 22:40	10/22/18 17:28	1
Diethyl phthalate	<0.068		0.20	0.068	mg/Kg	☼	10/19/18 22:40	10/22/18 17:28	1
2,4-Dimethylphenol	<0.15		0.40	0.15	mg/Kg	☼	10/19/18 22:40	10/22/18 17:28	1
Dimethyl phthalate	<0.053		0.20	0.053	mg/Kg	☼	10/19/18 22:40	10/22/18 17:28	1
Di-n-butyl phthalate	<0.061		0.20	0.061	mg/Kg	☼	10/19/18 22:40	10/22/18 17:28	1
4,6-Dinitro-2-methylphenol	<0.32		0.81	0.32	mg/Kg	☼	10/19/18 22:40	10/22/18 17:28	1
2,4-Dinitrophenol	<0.71		0.81	0.71	mg/Kg	☼	10/19/18 22:40	10/22/18 17:28	1
2,4-Dinitrotoluene	<0.064		0.20	0.064	mg/Kg	☼	10/19/18 22:40	10/22/18 17:28	1
2,6-Dinitrotoluene	<0.079		0.20	0.079	mg/Kg	☼	10/19/18 22:40	10/22/18 17:28	1
Di-n-octyl phthalate	<0.066		0.20	0.066	mg/Kg	☼	10/19/18 22:40	10/22/18 17:28	1
Fluoranthene	0.18		0.040	0.0075	mg/Kg	☼	10/19/18 22:40	10/22/18 17:28	1
Fluorene	<0.0057		0.040	0.0057	mg/Kg	☼	10/19/18 22:40	10/22/18 17:28	1
Hexachlorobenzene	<0.0094		0.081	0.0094	mg/Kg	☼	10/19/18 22:40	10/22/18 17:28	1
Hexachlorobutadiene	<0.063		0.20	0.063	mg/Kg	☼	10/19/18 22:40	10/22/18 17:28	1
Hexachlorocyclopentadiene	<0.23		0.81	0.23	mg/Kg	☼	10/19/18 22:40	10/22/18 17:28	1
Hexachloroethane	<0.061		0.20	0.061	mg/Kg	☼	10/19/18 22:40	10/22/18 17:28	1
Indeno[1,2,3-cd]pyrene	0.052		0.040	0.010	mg/Kg	☼	10/19/18 22:40	10/22/18 17:28	1
Isophorone	<0.045		0.20	0.045	mg/Kg	☼	10/19/18 22:40	10/22/18 17:28	1
2-Methylnaphthalene	<0.0074		0.081	0.0074	mg/Kg	☼	10/19/18 22:40	10/22/18 17:28	1
2-Methylphenol	<0.065		0.20	0.065	mg/Kg	☼	10/19/18 22:40	10/22/18 17:28	1
3 & 4 Methylphenol	<0.067		0.20	0.067	mg/Kg	☼	10/19/18 22:40	10/22/18 17:28	1
Naphthalene	<0.0062		0.040	0.0062	mg/Kg	☼	10/19/18 22:40	10/22/18 17:28	1
2-Nitroaniline	<0.054		0.20	0.054	mg/Kg	☼	10/19/18 22:40	10/22/18 17:28	1
3-Nitroaniline	<0.13		0.40	0.13	mg/Kg	☼	10/19/18 22:40	10/22/18 17:28	1
4-Nitroaniline	<0.17		0.40	0.17	mg/Kg	☼	10/19/18 22:40	10/22/18 17:28	1
Nitrobenzene	<0.010		0.040	0.010	mg/Kg	☼	10/19/18 22:40	10/22/18 17:28	1
2-Nitrophenol	<0.095		0.40	0.095	mg/Kg	☼	10/19/18 22:40	10/22/18 17:28	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-3

Client Sample ID: 2947V-13-B05 (0-5)

Lab Sample ID: 500-153168-15

Date Collected: 10/15/18 14:30

Matrix: Solid

Date Received: 10/15/18 16:40

Percent Solids: 81.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.38		0.81	0.38	mg/Kg	☼	10/19/18 22:40	10/22/18 17:28	1
N-Nitrosodi-n-propylamine	<0.049		0.081	0.049	mg/Kg	☼	10/19/18 22:40	10/22/18 17:28	1
N-Nitrosodiphenylamine	<0.048		0.20	0.048	mg/Kg	☼	10/19/18 22:40	10/22/18 17:28	1
2,2'-oxybis[1-chloropropane]	<0.047		0.20	0.047	mg/Kg	☼	10/19/18 22:40	10/22/18 17:28	1
Pentachlorophenol	<0.65		0.81	0.65	mg/Kg	☼	10/19/18 22:40	10/22/18 17:28	1
Phenanthrene	0.059		0.040	0.0056	mg/Kg	☼	10/19/18 22:40	10/22/18 17:28	1
Phenol	<0.090		0.20	0.090	mg/Kg	☼	10/19/18 22:40	10/22/18 17:28	1
Pyrene	0.16		0.040	0.0080	mg/Kg	☼	10/19/18 22:40	10/22/18 17:28	1
1,2,4-Trichlorobenzene	<0.043		0.20	0.043	mg/Kg	☼	10/19/18 22:40	10/22/18 17:28	1
2,4,5-Trichlorophenol	<0.092		0.40	0.092	mg/Kg	☼	10/19/18 22:40	10/22/18 17:28	1
2,4,6-Trichlorophenol	<0.14		0.40	0.14	mg/Kg	☼	10/19/18 22:40	10/22/18 17:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	91		44 - 121	10/19/18 22:40	10/22/18 17:28	1
2-Fluorophenol	137	X	46 - 133	10/19/18 22:40	10/22/18 17:28	1
Nitrobenzene-d5	100		41 - 120	10/19/18 22:40	10/22/18 17:28	1
Phenol-d5	115		46 - 125	10/19/18 22:40	10/22/18 17:28	1
Terphenyl-d14	108		35 - 160	10/19/18 22:40	10/22/18 17:28	1
2,4,6-Tribromophenol	86		25 - 139	10/19/18 22:40	10/22/18 17:28	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.48	J B	1.2	0.23	mg/Kg	☼	10/18/18 08:28	10/19/18 02:12	1
Arsenic	8.3		0.58	0.20	mg/Kg	☼	10/18/18 08:28	10/19/18 02:12	1
Barium	84		0.58	0.066	mg/Kg	☼	10/18/18 08:28	10/19/18 02:12	1
Beryllium	0.75		0.23	0.054	mg/Kg	☼	10/18/18 08:28	10/19/18 02:12	1
Cadmium	0.21		0.12	0.021	mg/Kg	☼	10/18/18 08:28	10/19/18 02:12	1
Chromium	15		0.58	0.29	mg/Kg	☼	10/18/18 08:28	10/19/18 02:12	1
Cobalt	11		0.29	0.076	mg/Kg	☼	10/18/18 08:28	10/19/18 02:12	1
Copper	17	B	0.58	0.16	mg/Kg	☼	10/18/18 08:28	10/19/18 02:12	1
Iron	19000	B	12	6.0	mg/Kg	☼	10/18/18 08:28	10/19/18 02:12	1
Lead	34		0.29	0.13	mg/Kg	☼	10/18/18 08:28	10/19/18 02:12	1
Magnesium	5400	B	5.8	2.9	mg/Kg	☼	10/18/18 08:28	10/19/18 02:12	1
Calcium	7500	B	12	2.0	mg/Kg	☼	10/18/18 08:28	10/19/18 02:12	1
Manganese	650		0.58	0.084	mg/Kg	☼	10/18/18 08:28	10/19/18 02:12	1
Nickel	22		0.58	0.17	mg/Kg	☼	10/18/18 08:28	10/19/18 02:12	1
Selenium	0.44	J B	0.58	0.34	mg/Kg	☼	10/18/18 08:28	10/19/18 02:12	1
Silver	0.36		0.29	0.075	mg/Kg	☼	10/18/18 08:28	10/19/18 02:12	1
Thallium	<0.29		0.58	0.29	mg/Kg	☼	10/18/18 08:28	10/19/18 02:12	1
Vanadium	26		0.29	0.068	mg/Kg	☼	10/18/18 08:28	10/19/18 02:12	1
Zinc	110	B	1.2	0.51	mg/Kg	☼	10/18/18 08:28	10/19/18 02:12	1
Potassium	1800		29	10	mg/Kg	☼	10/18/18 08:28	10/19/18 02:12	1
Sodium	260		58	8.6	mg/Kg	☼	10/18/18 08:28	10/19/18 02:12	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		10/18/18 15:08	10/19/18 20:09	1
Barium	0.52		0.50	0.050	mg/L		10/18/18 15:08	10/19/18 20:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/18/18 15:08	10/19/18 20:09	1
Cadmium	0.0026	J	0.0050	0.0020	mg/L		10/18/18 15:08	10/19/18 20:09	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-3

Client Sample ID: 2947V-13-B05 (0-5)

Lab Sample ID: 500-153168-15

Date Collected: 10/15/18 14:30

Matrix: Solid

Date Received: 10/15/18 16:40

Percent Solids: 81.6

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		10/18/18 15:08	10/19/18 20:09	1
Chromium	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 20:09	1
Cobalt	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 20:09	1
Copper	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 20:09	1
Iron	<0.20		0.40	0.20	mg/L		10/18/18 15:08	10/19/18 20:09	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/18/18 15:08	10/19/18 20:09	1
Magnesium	140		2.5	0.50	mg/L		10/18/18 15:08	10/19/18 20:09	1
Manganese	0.082		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 20:09	1
Nickel	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 20:09	1
Potassium	1.9 J		2.5	0.50	mg/L		10/18/18 15:08	10/19/18 20:09	1
Selenium	<0.020		0.050	0.020	mg/L		10/18/18 15:08	10/19/18 20:09	1
Silver	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 20:09	1
Vanadium	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 20:09	1
Zinc	0.35 J B		0.50	0.020	mg/L		10/18/18 15:08	10/19/18 20:09	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		10/18/18 15:08	10/24/18 15:30	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/18/18 15:08	10/23/18 04:07	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		10/19/18 11:20	10/22/18 11:30	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.019	0.0062	mg/Kg	☼	10/18/18 16:20	10/19/18 11:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.21		0.61	0.21	mg/Kg	☼	10/24/18 14:10	10/24/18 22:14	1
pH	8.0		0.2	0.2	SU			10/22/18 17:23	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-3

Client Sample ID: 2947V-13-B04 (0-5)

Lab Sample ID: 500-153168-16

Date Collected: 10/15/18 15:00

Matrix: Solid

Date Received: 10/15/18 16:40

Percent Solids: 82.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0099		0.023	0.0099	mg/Kg	☼	10/16/18 17:55	10/19/18 09:28	1
Benzene	<0.00058		0.0023	0.00058	mg/Kg	☼	10/16/18 17:55	10/19/18 09:28	1
Bromodichloromethane	<0.00046		0.0023	0.00046	mg/Kg	☼	10/16/18 17:55	10/19/18 09:28	1
Bromoform	<0.00067		0.0023	0.00067	mg/Kg	☼	10/16/18 17:55	10/19/18 09:28	1
Bromomethane	<0.0022		0.0057	0.0022	mg/Kg	☼	10/16/18 17:55	10/19/18 09:28	1
2-Butanone (MEK)	<0.0025		0.0057	0.0025	mg/Kg	☼	10/16/18 17:55	10/19/18 09:28	1
Carbon disulfide	<0.0012		0.0057	0.0012	mg/Kg	☼	10/16/18 17:55	10/19/18 09:28	1
Carbon tetrachloride	<0.00066		0.0023	0.00066	mg/Kg	☼	10/16/18 17:55	10/19/18 09:28	1
Chlorobenzene	<0.00084		0.0023	0.00084	mg/Kg	☼	10/16/18 17:55	10/19/18 09:28	1
Chloroethane	<0.0017		0.0057	0.0017	mg/Kg	☼	10/16/18 17:55	10/19/18 09:28	1
Chloroform	<0.00079		0.0023	0.00079	mg/Kg	☼	10/16/18 17:55	10/19/18 09:28	1
Chloromethane	<0.0023	*	0.0057	0.0023	mg/Kg	☼	10/16/18 17:55	10/19/18 09:28	1
cis-1,2-Dichloroethene	<0.00064		0.0023	0.00064	mg/Kg	☼	10/16/18 17:55	10/19/18 09:28	1
cis-1,3-Dichloropropene	<0.00069		0.0023	0.00069	mg/Kg	☼	10/16/18 17:55	10/19/18 09:28	1
Dibromochloromethane	<0.00075		0.0023	0.00075	mg/Kg	☼	10/16/18 17:55	10/19/18 09:28	1
1,1-Dichloroethane	<0.00078		0.0023	0.00078	mg/Kg	☼	10/16/18 17:55	10/19/18 09:28	1
1,2-Dichloroethane	<0.0018		0.0057	0.0018	mg/Kg	☼	10/16/18 17:55	10/19/18 09:28	1
1,1-Dichloroethene	<0.00078		0.0023	0.00078	mg/Kg	☼	10/16/18 17:55	10/19/18 09:28	1
1,2-Dichloropropane	<0.00059		0.0023	0.00059	mg/Kg	☼	10/16/18 17:55	10/19/18 09:28	1
1,3-Dichloropropane, Total	<0.00080		0.0023	0.00080	mg/Kg	☼	10/16/18 17:55	10/19/18 09:28	1
Ethylbenzene	<0.0011		0.0023	0.0011	mg/Kg	☼	10/16/18 17:55	10/19/18 09:28	1
2-Hexanone	<0.0018		0.0057	0.0018	mg/Kg	☼	10/16/18 17:55	10/19/18 09:28	1
Methylene Chloride	<0.0022		0.0057	0.0022	mg/Kg	☼	10/16/18 17:55	10/19/18 09:28	1
4-Methyl-2-pentanone (MIBK)	<0.0017		0.0057	0.0017	mg/Kg	☼	10/16/18 17:55	10/19/18 09:28	1
Methyl tert-butyl ether	<0.00067		0.0023	0.00067	mg/Kg	☼	10/16/18 17:55	10/19/18 09:28	1
Styrene	<0.00069		0.0023	0.00069	mg/Kg	☼	10/16/18 17:55	10/19/18 09:28	1
1,1,2,2-Tetrachloroethane	<0.00073		0.0023	0.00073	mg/Kg	☼	10/16/18 17:55	10/19/18 09:28	1
Tetrachloroethene	<0.00078		0.0023	0.00078	mg/Kg	☼	10/16/18 17:55	10/19/18 09:28	1
Toluene	<0.00058		0.0023	0.00058	mg/Kg	☼	10/16/18 17:55	10/19/18 09:28	1
trans-1,2-Dichloroethene	<0.0010		0.0023	0.0010	mg/Kg	☼	10/16/18 17:55	10/19/18 09:28	1
trans-1,3-Dichloropropene	<0.00080		0.0023	0.00080	mg/Kg	☼	10/16/18 17:55	10/19/18 09:28	1
1,1,1-Trichloroethane	<0.00077		0.0023	0.00077	mg/Kg	☼	10/16/18 17:55	10/19/18 09:28	1
1,1,2-Trichloroethane	<0.00098		0.0023	0.00098	mg/Kg	☼	10/16/18 17:55	10/19/18 09:28	1
Trichloroethene	<0.00077		0.0023	0.00077	mg/Kg	☼	10/16/18 17:55	10/19/18 09:28	1
Vinyl acetate	<0.0020		0.0057	0.0020	mg/Kg	☼	10/16/18 17:55	10/19/18 09:28	1
Vinyl chloride	<0.0010		0.0023	0.0010	mg/Kg	☼	10/16/18 17:55	10/19/18 09:28	1
Xylenes, Total	<0.00073		0.0046	0.00073	mg/Kg	☼	10/16/18 17:55	10/19/18 09:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		75 - 131	10/16/18 17:55	10/19/18 09:28	1
Dibromofluoromethane	113		75 - 126	10/16/18 17:55	10/19/18 09:28	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	10/16/18 17:55	10/19/18 09:28	1
Toluene-d8 (Surr)	97		75 - 124	10/16/18 17:55	10/19/18 09:28	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	☼	10/19/18 22:40	10/22/18 17:56	1
Acenaphthylene	0.0078	J	0.038	0.0051	mg/Kg	☼	10/19/18 22:40	10/22/18 17:56	1
Anthracene	<0.0064		0.038	0.0064	mg/Kg	☼	10/19/18 22:40	10/22/18 17:56	1
Benzo[a]anthracene	0.032	J	0.038	0.0052	mg/Kg	☼	10/19/18 22:40	10/22/18 17:56	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-3

Client Sample ID: 2947V-13-B04 (0-5)

Lab Sample ID: 500-153168-16

Date Collected: 10/15/18 15:00

Matrix: Solid

Date Received: 10/15/18 16:40

Percent Solids: 82.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.045		0.038	0.0075	mg/Kg	☼	10/19/18 22:40	10/22/18 17:56	1
Benzo[b]fluoranthene	0.073		0.038	0.0083	mg/Kg	☼	10/19/18 22:40	10/22/18 17:56	1
Benzo[g,h,i]perylene	0.024	J	0.038	0.012	mg/Kg	☼	10/19/18 22:40	10/22/18 17:56	1
Benzo[k]fluoranthene	0.028	J	0.038	0.011	mg/Kg	☼	10/19/18 22:40	10/22/18 17:56	1
Bis(2-chloroethoxy)methane	<0.039		0.19	0.039	mg/Kg	☼	10/19/18 22:40	10/22/18 17:56	1
Bis(2-chloroethyl)ether	<0.058		0.19	0.058	mg/Kg	☼	10/19/18 22:40	10/22/18 17:56	1
Bis(2-ethylhexyl) phthalate	<0.070		0.19	0.070	mg/Kg	☼	10/19/18 22:40	10/22/18 17:56	1
4-Bromophenyl phenyl ether	<0.051		0.19	0.051	mg/Kg	☼	10/19/18 22:40	10/22/18 17:56	1
Butyl benzyl phthalate	<0.073		0.19	0.073	mg/Kg	☼	10/19/18 22:40	10/22/18 17:56	1
Carbazole	<0.096		0.19	0.096	mg/Kg	☼	10/19/18 22:40	10/22/18 17:56	1
4-Chloroaniline	<0.18		0.78	0.18	mg/Kg	☼	10/19/18 22:40	10/22/18 17:56	1
4-Chloro-3-methylphenol	<0.13		0.38	0.13	mg/Kg	☼	10/19/18 22:40	10/22/18 17:56	1
2-Chloronaphthalene	<0.043		0.19	0.043	mg/Kg	☼	10/19/18 22:40	10/22/18 17:56	1
2-Chlorophenol	<0.066		0.19	0.066	mg/Kg	☼	10/19/18 22:40	10/22/18 17:56	1
4-Chlorophenyl phenyl ether	<0.045		0.19	0.045	mg/Kg	☼	10/19/18 22:40	10/22/18 17:56	1
Chrysene	0.044		0.038	0.011	mg/Kg	☼	10/19/18 22:40	10/22/18 17:56	1
Dibenz(a,h)anthracene	<0.0075		0.038	0.0075	mg/Kg	☼	10/19/18 22:40	10/22/18 17:56	1
Dibenzofuran	<0.045		0.19	0.045	mg/Kg	☼	10/19/18 22:40	10/22/18 17:56	1
1,2-Dichlorobenzene	<0.046		0.19	0.046	mg/Kg	☼	10/19/18 22:40	10/22/18 17:56	1
1,3-Dichlorobenzene	<0.043		0.19	0.043	mg/Kg	☼	10/19/18 22:40	10/22/18 17:56	1
1,4-Dichlorobenzene	<0.049		0.19	0.049	mg/Kg	☼	10/19/18 22:40	10/22/18 17:56	1
3,3'-Dichlorobenzidine	<0.054		0.19	0.054	mg/Kg	☼	10/19/18 22:40	10/22/18 17:56	1
2,4-Dichlorophenol	<0.092		0.38	0.092	mg/Kg	☼	10/19/18 22:40	10/22/18 17:56	1
Diethyl phthalate	<0.065		0.19	0.065	mg/Kg	☼	10/19/18 22:40	10/22/18 17:56	1
2,4-Dimethylphenol	<0.15		0.38	0.15	mg/Kg	☼	10/19/18 22:40	10/22/18 17:56	1
Dimethyl phthalate	<0.050		0.19	0.050	mg/Kg	☼	10/19/18 22:40	10/22/18 17:56	1
Di-n-butyl phthalate	<0.059		0.19	0.059	mg/Kg	☼	10/19/18 22:40	10/22/18 17:56	1
4,6-Dinitro-2-methylphenol	<0.31		0.78	0.31	mg/Kg	☼	10/19/18 22:40	10/22/18 17:56	1
2,4-Dinitrophenol	<0.68		0.78	0.68	mg/Kg	☼	10/19/18 22:40	10/22/18 17:56	1
2,4-Dinitrotoluene	<0.061		0.19	0.061	mg/Kg	☼	10/19/18 22:40	10/22/18 17:56	1
2,6-Dinitrotoluene	<0.076		0.19	0.076	mg/Kg	☼	10/19/18 22:40	10/22/18 17:56	1
Di-n-octyl phthalate	<0.063		0.19	0.063	mg/Kg	☼	10/19/18 22:40	10/22/18 17:56	1
Fluoranthene	0.064		0.038	0.0072	mg/Kg	☼	10/19/18 22:40	10/22/18 17:56	1
Fluorene	<0.0054		0.038	0.0054	mg/Kg	☼	10/19/18 22:40	10/22/18 17:56	1
Hexachlorobenzene	<0.0089		0.078	0.0089	mg/Kg	☼	10/19/18 22:40	10/22/18 17:56	1
Hexachlorobutadiene	<0.061		0.19	0.061	mg/Kg	☼	10/19/18 22:40	10/22/18 17:56	1
Hexachlorocyclopentadiene	<0.22		0.78	0.22	mg/Kg	☼	10/19/18 22:40	10/22/18 17:56	1
Hexachloroethane	<0.059		0.19	0.059	mg/Kg	☼	10/19/18 22:40	10/22/18 17:56	1
Indeno[1,2,3-cd]pyrene	0.021	J	0.038	0.010	mg/Kg	☼	10/19/18 22:40	10/22/18 17:56	1
Isophorone	<0.043		0.19	0.043	mg/Kg	☼	10/19/18 22:40	10/22/18 17:56	1
2-Methylnaphthalene	<0.0071		0.078	0.0071	mg/Kg	☼	10/19/18 22:40	10/22/18 17:56	1
2-Methylphenol	<0.062		0.19	0.062	mg/Kg	☼	10/19/18 22:40	10/22/18 17:56	1
3 & 4 Methylphenol	<0.064		0.19	0.064	mg/Kg	☼	10/19/18 22:40	10/22/18 17:56	1
Naphthalene	<0.0059		0.038	0.0059	mg/Kg	☼	10/19/18 22:40	10/22/18 17:56	1
2-Nitroaniline	<0.052		0.19	0.052	mg/Kg	☼	10/19/18 22:40	10/22/18 17:56	1
3-Nitroaniline	<0.12		0.38	0.12	mg/Kg	☼	10/19/18 22:40	10/22/18 17:56	1
4-Nitroaniline	<0.16		0.38	0.16	mg/Kg	☼	10/19/18 22:40	10/22/18 17:56	1
Nitrobenzene	<0.0096		0.038	0.0096	mg/Kg	☼	10/19/18 22:40	10/22/18 17:56	1
2-Nitrophenol	<0.091		0.38	0.091	mg/Kg	☼	10/19/18 22:40	10/22/18 17:56	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-3

Client Sample ID: 2947V-13-B04 (0-5)

Lab Sample ID: 500-153168-16

Date Collected: 10/15/18 15:00

Matrix: Solid

Date Received: 10/15/18 16:40

Percent Solids: 82.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.37		0.78	0.37	mg/Kg	☼	10/19/18 22:40	10/22/18 17:56	1
N-Nitrosodi-n-propylamine	<0.047		0.078	0.047	mg/Kg	☼	10/19/18 22:40	10/22/18 17:56	1
N-Nitrosodiphenylamine	<0.046		0.19	0.046	mg/Kg	☼	10/19/18 22:40	10/22/18 17:56	1
2,2'-oxybis[1-chloropropane]	<0.045		0.19	0.045	mg/Kg	☼	10/19/18 22:40	10/22/18 17:56	1
Pentachlorophenol	<0.62		0.78	0.62	mg/Kg	☼	10/19/18 22:40	10/22/18 17:56	1
Phenanthrene	0.023	J	0.038	0.0054	mg/Kg	☼	10/19/18 22:40	10/22/18 17:56	1
Phenol	<0.086		0.19	0.086	mg/Kg	☼	10/19/18 22:40	10/22/18 17:56	1
Pyrene	0.059		0.038	0.0077	mg/Kg	☼	10/19/18 22:40	10/22/18 17:56	1
1,2,4-Trichlorobenzene	<0.042		0.19	0.042	mg/Kg	☼	10/19/18 22:40	10/22/18 17:56	1
2,4,5-Trichlorophenol	<0.088		0.38	0.088	mg/Kg	☼	10/19/18 22:40	10/22/18 17:56	1
2,4,6-Trichlorophenol	<0.13		0.38	0.13	mg/Kg	☼	10/19/18 22:40	10/22/18 17:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	106		44 - 121	10/19/18 22:40	10/22/18 17:56	1
2-Fluorophenol	160	X	46 - 133	10/19/18 22:40	10/22/18 17:56	1
Nitrobenzene-d5	113		41 - 120	10/19/18 22:40	10/22/18 17:56	1
Phenol-d5	137	X	46 - 125	10/19/18 22:40	10/22/18 17:56	1
Terphenyl-d14	129		35 - 160	10/19/18 22:40	10/22/18 17:56	1
2,4,6-Tribromophenol	101		25 - 139	10/19/18 22:40	10/22/18 17:56	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.50	J B	1.1	0.22	mg/Kg	☼	10/18/18 08:28	10/19/18 02:16	1
Arsenic	12		0.56	0.19	mg/Kg	☼	10/18/18 08:28	10/19/18 02:16	1
Barium	78		0.56	0.064	mg/Kg	☼	10/18/18 08:28	10/19/18 02:16	1
Beryllium	0.77		0.23	0.053	mg/Kg	☼	10/18/18 08:28	10/19/18 02:16	1
Cadmium	0.20		0.11	0.020	mg/Kg	☼	10/18/18 08:28	10/19/18 02:16	1
Chromium	17		0.56	0.28	mg/Kg	☼	10/18/18 08:28	10/19/18 02:16	1
Cobalt	12		0.28	0.074	mg/Kg	☼	10/18/18 08:28	10/19/18 02:16	1
Copper	25	B	0.56	0.16	mg/Kg	☼	10/18/18 08:28	10/19/18 02:16	1
Iron	24000	B	11	5.9	mg/Kg	☼	10/18/18 08:28	10/19/18 02:16	1
Lead	40		0.28	0.13	mg/Kg	☼	10/18/18 08:28	10/19/18 02:16	1
Magnesium	6100	B	5.6	2.8	mg/Kg	☼	10/18/18 08:28	10/19/18 02:16	1
Calcium	7900	B	11	1.9	mg/Kg	☼	10/18/18 08:28	10/19/18 02:16	1
Manganese	690		0.56	0.082	mg/Kg	☼	10/18/18 08:28	10/19/18 02:16	1
Nickel	26		0.56	0.16	mg/Kg	☼	10/18/18 08:28	10/19/18 02:16	1
Selenium	0.72	B	0.56	0.33	mg/Kg	☼	10/18/18 08:28	10/19/18 02:16	1
Silver	0.37		0.28	0.073	mg/Kg	☼	10/18/18 08:28	10/19/18 02:16	1
Thallium	<0.28		0.56	0.28	mg/Kg	☼	10/18/18 08:28	10/19/18 02:16	1
Vanadium	29		0.28	0.066	mg/Kg	☼	10/18/18 08:28	10/19/18 02:16	1
Zinc	110	B	1.1	0.49	mg/Kg	☼	10/18/18 08:28	10/19/18 02:16	1
Potassium	2100		28	10	mg/Kg	☼	10/18/18 08:28	10/19/18 02:16	1
Sodium	160		56	8.3	mg/Kg	☼	10/18/18 08:28	10/19/18 02:16	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		10/18/18 15:08	10/19/18 20:21	1
Barium	0.41	J	0.50	0.050	mg/L		10/18/18 15:08	10/19/18 20:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/18/18 15:08	10/19/18 20:21	1
Cadmium	0.0026	J	0.0050	0.0020	mg/L		10/18/18 15:08	10/19/18 20:21	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-3

Client Sample ID: 2947V-13-B04 (0-5)

Lab Sample ID: 500-153168-16

Date Collected: 10/15/18 15:00

Matrix: Solid

Date Received: 10/15/18 16:40

Percent Solids: 82.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	230		5.0	0.50	mg/L		10/18/18 15:08	10/19/18 20:21	1
Chromium	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 20:21	1
Cobalt	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 20:21	1
Copper	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 20:21	1
Iron	<0.20		0.40	0.20	mg/L		10/18/18 15:08	10/19/18 20:21	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/18/18 15:08	10/19/18 20:21	1
Magnesium	130		2.5	0.50	mg/L		10/18/18 15:08	10/19/18 20:21	1
Manganese	0.11		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 20:21	1
Nickel	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 20:21	1
Potassium	0.58 J		2.5	0.50	mg/L		10/18/18 15:08	10/19/18 20:21	1
Selenium	<0.020		0.050	0.020	mg/L		10/18/18 15:08	10/19/18 20:21	1
Silver	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 20:21	1
Vanadium	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 20:21	1
Zinc	0.034 J B		0.50	0.020	mg/L		10/18/18 15:08	10/19/18 20:21	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		10/18/18 15:08	10/24/18 15:34	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/18/18 15:08	10/23/18 04:11	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		10/19/18 11:20	10/22/18 11:32	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.037		0.019	0.0063	mg/Kg	☼	10/18/18 16:20	10/19/18 11:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.21		0.60	0.21	mg/Kg	☼	10/24/18 14:10	10/24/18 22:15	1
pH	7.8		0.2	0.2	SU			10/22/18 17:23	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-3

Client Sample ID: 2947V-13-B03 (0-5)

Lab Sample ID: 500-153168-17

Date Collected: 10/15/18 15:25

Matrix: Solid

Date Received: 10/15/18 16:40

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0080		0.018	0.0080	mg/Kg	☼	10/16/18 17:55	10/19/18 09:54	1
Benzene	<0.00047		0.0018	0.00047	mg/Kg	☼	10/16/18 17:55	10/19/18 09:54	1
Bromodichloromethane	<0.00037		0.0018	0.00037	mg/Kg	☼	10/16/18 17:55	10/19/18 09:54	1
Bromoform	<0.00054		0.0018	0.00054	mg/Kg	☼	10/16/18 17:55	10/19/18 09:54	1
Bromomethane	<0.0017		0.0046	0.0017	mg/Kg	☼	10/16/18 17:55	10/19/18 09:54	1
2-Butanone (MEK)	<0.0020		0.0046	0.0020	mg/Kg	☼	10/16/18 17:55	10/19/18 09:54	1
Carbon disulfide	<0.00095		0.0046	0.00095	mg/Kg	☼	10/16/18 17:55	10/19/18 09:54	1
Carbon tetrachloride	<0.00053		0.0018	0.00053	mg/Kg	☼	10/16/18 17:55	10/19/18 09:54	1
Chlorobenzene	<0.00068		0.0018	0.00068	mg/Kg	☼	10/16/18 17:55	10/19/18 09:54	1
Chloroethane	<0.0014		0.0046	0.0014	mg/Kg	☼	10/16/18 17:55	10/19/18 09:54	1
Chloroform	<0.00064		0.0018	0.00064	mg/Kg	☼	10/16/18 17:55	10/19/18 09:54	1
Chloromethane	<0.0018	*	0.0046	0.0018	mg/Kg	☼	10/16/18 17:55	10/19/18 09:54	1
cis-1,2-Dichloroethene	<0.00051		0.0018	0.00051	mg/Kg	☼	10/16/18 17:55	10/19/18 09:54	1
cis-1,3-Dichloropropene	<0.00055		0.0018	0.00055	mg/Kg	☼	10/16/18 17:55	10/19/18 09:54	1
Dibromochloromethane	<0.00060		0.0018	0.00060	mg/Kg	☼	10/16/18 17:55	10/19/18 09:54	1
1,1-Dichloroethane	<0.00063		0.0018	0.00063	mg/Kg	☼	10/16/18 17:55	10/19/18 09:54	1
1,2-Dichloroethane	<0.0014		0.0046	0.0014	mg/Kg	☼	10/16/18 17:55	10/19/18 09:54	1
1,1-Dichloroethene	<0.00063		0.0018	0.00063	mg/Kg	☼	10/16/18 17:55	10/19/18 09:54	1
1,2-Dichloropropane	<0.00047		0.0018	0.00047	mg/Kg	☼	10/16/18 17:55	10/19/18 09:54	1
1,3-Dichloropropane, Total	<0.00064		0.0018	0.00064	mg/Kg	☼	10/16/18 17:55	10/19/18 09:54	1
Ethylbenzene	<0.00088		0.0018	0.00088	mg/Kg	☼	10/16/18 17:55	10/19/18 09:54	1
2-Hexanone	<0.0014		0.0046	0.0014	mg/Kg	☼	10/16/18 17:55	10/19/18 09:54	1
Methylene Chloride	<0.0018		0.0046	0.0018	mg/Kg	☼	10/16/18 17:55	10/19/18 09:54	1
4-Methyl-2-pentanone (MIBK)	<0.0014		0.0046	0.0014	mg/Kg	☼	10/16/18 17:55	10/19/18 09:54	1
Methyl tert-butyl ether	<0.00054		0.0018	0.00054	mg/Kg	☼	10/16/18 17:55	10/19/18 09:54	1
Styrene	<0.00055		0.0018	0.00055	mg/Kg	☼	10/16/18 17:55	10/19/18 09:54	1
1,1,2,2-Tetrachloroethane	<0.00059		0.0018	0.00059	mg/Kg	☼	10/16/18 17:55	10/19/18 09:54	1
Tetrachloroethene	<0.00062		0.0018	0.00062	mg/Kg	☼	10/16/18 17:55	10/19/18 09:54	1
Toluene	<0.00046		0.0018	0.00046	mg/Kg	☼	10/16/18 17:55	10/19/18 09:54	1
trans-1,2-Dichloroethene	<0.00081		0.0018	0.00081	mg/Kg	☼	10/16/18 17:55	10/19/18 09:54	1
trans-1,3-Dichloropropene	<0.00064		0.0018	0.00064	mg/Kg	☼	10/16/18 17:55	10/19/18 09:54	1
1,1,1-Trichloroethane	<0.00062		0.0018	0.00062	mg/Kg	☼	10/16/18 17:55	10/19/18 09:54	1
1,1,2-Trichloroethane	<0.00079		0.0018	0.00079	mg/Kg	☼	10/16/18 17:55	10/19/18 09:54	1
Trichloroethene	<0.00062		0.0018	0.00062	mg/Kg	☼	10/16/18 17:55	10/19/18 09:54	1
Vinyl acetate	<0.0016		0.0046	0.0016	mg/Kg	☼	10/16/18 17:55	10/19/18 09:54	1
Vinyl chloride	<0.00081		0.0018	0.00081	mg/Kg	☼	10/16/18 17:55	10/19/18 09:54	1
Xylenes, Total	<0.00059		0.0037	0.00059	mg/Kg	☼	10/16/18 17:55	10/19/18 09:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		75 - 131	10/16/18 17:55	10/19/18 09:54	1
Dibromofluoromethane	113		75 - 126	10/16/18 17:55	10/19/18 09:54	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	10/16/18 17:55	10/19/18 09:54	1
Toluene-d8 (Surr)	95		75 - 124	10/16/18 17:55	10/19/18 09:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0068		0.038	0.0068	mg/Kg	☼	10/19/18 22:40	10/22/18 16:04	1
Acenaphthylene	<0.0050		0.038	0.0050	mg/Kg	☼	10/19/18 22:40	10/22/18 16:04	1
Anthracene	<0.0063		0.038	0.0063	mg/Kg	☼	10/19/18 22:40	10/22/18 16:04	1
Benzo[a]anthracene	0.011	J	0.038	0.0051	mg/Kg	☼	10/19/18 22:40	10/22/18 16:04	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-3

Client Sample ID: 2947V-13-B03 (0-5)

Lab Sample ID: 500-153168-17

Date Collected: 10/15/18 15:25

Matrix: Solid

Date Received: 10/15/18 16:40

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.014	J	0.038	0.0073	mg/Kg	☼	10/19/18 22:40	10/22/18 16:04	1
Benzo[b]fluoranthene	0.021	J	0.038	0.0082	mg/Kg	☼	10/19/18 22:40	10/22/18 16:04	1
Benzo[g,h,i]perylene	<0.012		0.038	0.012	mg/Kg	☼	10/19/18 22:40	10/22/18 16:04	1
Benzo[k]fluoranthene	<0.011		0.038	0.011	mg/Kg	☼	10/19/18 22:40	10/22/18 16:04	1
Bis(2-chloroethoxy)methane	<0.039		0.19	0.039	mg/Kg	☼	10/19/18 22:40	10/22/18 16:04	1
Bis(2-chloroethyl)ether	<0.057		0.19	0.057	mg/Kg	☼	10/19/18 22:40	10/22/18 16:04	1
Bis(2-ethylhexyl) phthalate	<0.069		0.19	0.069	mg/Kg	☼	10/19/18 22:40	10/22/18 16:04	1
4-Bromophenyl phenyl ether	<0.050		0.19	0.050	mg/Kg	☼	10/19/18 22:40	10/22/18 16:04	1
Butyl benzyl phthalate	<0.072		0.19	0.072	mg/Kg	☼	10/19/18 22:40	10/22/18 16:04	1
Carbazole	<0.095		0.19	0.095	mg/Kg	☼	10/19/18 22:40	10/22/18 16:04	1
4-Chloroaniline	<0.18		0.76	0.18	mg/Kg	☼	10/19/18 22:40	10/22/18 16:04	1
4-Chloro-3-methylphenol	<0.13		0.38	0.13	mg/Kg	☼	10/19/18 22:40	10/22/18 16:04	1
2-Chloronaphthalene	<0.042		0.19	0.042	mg/Kg	☼	10/19/18 22:40	10/22/18 16:04	1
2-Chlorophenol	<0.065		0.19	0.065	mg/Kg	☼	10/19/18 22:40	10/22/18 16:04	1
4-Chlorophenyl phenyl ether	<0.044		0.19	0.044	mg/Kg	☼	10/19/18 22:40	10/22/18 16:04	1
Chrysene	0.014	J	0.038	0.010	mg/Kg	☼	10/19/18 22:40	10/22/18 16:04	1
Dibenz(a,h)anthracene	<0.0073		0.038	0.0073	mg/Kg	☼	10/19/18 22:40	10/22/18 16:04	1
Dibenzofuran	<0.044		0.19	0.044	mg/Kg	☼	10/19/18 22:40	10/22/18 16:04	1
1,2-Dichlorobenzene	<0.045		0.19	0.045	mg/Kg	☼	10/19/18 22:40	10/22/18 16:04	1
1,3-Dichlorobenzene	<0.043		0.19	0.043	mg/Kg	☼	10/19/18 22:40	10/22/18 16:04	1
1,4-Dichlorobenzene	<0.049		0.19	0.049	mg/Kg	☼	10/19/18 22:40	10/22/18 16:04	1
3,3'-Dichlorobenzidine	<0.053		0.19	0.053	mg/Kg	☼	10/19/18 22:40	10/22/18 16:04	1
2,4-Dichlorophenol	<0.090		0.38	0.090	mg/Kg	☼	10/19/18 22:40	10/22/18 16:04	1
Diethyl phthalate	<0.064		0.19	0.064	mg/Kg	☼	10/19/18 22:40	10/22/18 16:04	1
2,4-Dimethylphenol	<0.14		0.38	0.14	mg/Kg	☼	10/19/18 22:40	10/22/18 16:04	1
Dimethyl phthalate	<0.049		0.19	0.049	mg/Kg	☼	10/19/18 22:40	10/22/18 16:04	1
Di-n-butyl phthalate	<0.058		0.19	0.058	mg/Kg	☼	10/19/18 22:40	10/22/18 16:04	1
4,6-Dinitro-2-methylphenol	<0.30		0.76	0.30	mg/Kg	☼	10/19/18 22:40	10/22/18 16:04	1
2,4-Dinitrophenol	<0.67		0.76	0.67	mg/Kg	☼	10/19/18 22:40	10/22/18 16:04	1
2,4-Dinitrotoluene	<0.060		0.19	0.060	mg/Kg	☼	10/19/18 22:40	10/22/18 16:04	1
2,6-Dinitrotoluene	<0.074		0.19	0.074	mg/Kg	☼	10/19/18 22:40	10/22/18 16:04	1
Di-n-octyl phthalate	<0.062		0.19	0.062	mg/Kg	☼	10/19/18 22:40	10/22/18 16:04	1
Fluoranthene	0.019	J	0.038	0.0070	mg/Kg	☼	10/19/18 22:40	10/22/18 16:04	1
Fluorene	<0.0053		0.038	0.0053	mg/Kg	☼	10/19/18 22:40	10/22/18 16:04	1
Hexachlorobenzene	<0.0088		0.076	0.0088	mg/Kg	☼	10/19/18 22:40	10/22/18 16:04	1
Hexachlorobutadiene	<0.059		0.19	0.059	mg/Kg	☼	10/19/18 22:40	10/22/18 16:04	1
Hexachlorocyclopentadiene	<0.22		0.76	0.22	mg/Kg	☼	10/19/18 22:40	10/22/18 16:04	1
Hexachloroethane	<0.058		0.19	0.058	mg/Kg	☼	10/19/18 22:40	10/22/18 16:04	1
Indeno[1,2,3-cd]pyrene	<0.0098		0.038	0.0098	mg/Kg	☼	10/19/18 22:40	10/22/18 16:04	1
Isophorone	<0.042		0.19	0.042	mg/Kg	☼	10/19/18 22:40	10/22/18 16:04	1
2-Methylnaphthalene	<0.0070		0.076	0.0070	mg/Kg	☼	10/19/18 22:40	10/22/18 16:04	1
2-Methylphenol	<0.061		0.19	0.061	mg/Kg	☼	10/19/18 22:40	10/22/18 16:04	1
3 & 4 Methylphenol	<0.063		0.19	0.063	mg/Kg	☼	10/19/18 22:40	10/22/18 16:04	1
Naphthalene	<0.0058		0.038	0.0058	mg/Kg	☼	10/19/18 22:40	10/22/18 16:04	1
2-Nitroaniline	<0.051		0.19	0.051	mg/Kg	☼	10/19/18 22:40	10/22/18 16:04	1
3-Nitroaniline	<0.12		0.38	0.12	mg/Kg	☼	10/19/18 22:40	10/22/18 16:04	1
4-Nitroaniline	<0.16		0.38	0.16	mg/Kg	☼	10/19/18 22:40	10/22/18 16:04	1
Nitrobenzene	<0.0094		0.038	0.0094	mg/Kg	☼	10/19/18 22:40	10/22/18 16:04	1
2-Nitrophenol	<0.089		0.38	0.089	mg/Kg	☼	10/19/18 22:40	10/22/18 16:04	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-3

Client Sample ID: 2947V-13-B03 (0-5)

Lab Sample ID: 500-153168-17

Date Collected: 10/15/18 15:25

Matrix: Solid

Date Received: 10/15/18 16:40

Percent Solids: 85.0

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	☼	10/19/18 22:40	10/22/18 16:04	1
N-Nitrosodi-n-propylamine	<0.046		0.076	0.046	mg/Kg	☼	10/19/18 22:40	10/22/18 16:04	1
N-Nitrosodiphenylamine	<0.045		0.19	0.045	mg/Kg	☼	10/19/18 22:40	10/22/18 16:04	1
2,2'-oxybis[1-chloropropane]	<0.044		0.19	0.044	mg/Kg	☼	10/19/18 22:40	10/22/18 16:04	1
Pentachlorophenol	<0.61		0.76	0.61	mg/Kg	☼	10/19/18 22:40	10/22/18 16:04	1
Phenanthrene	0.0083	J	0.038	0.0053	mg/Kg	☼	10/19/18 22:40	10/22/18 16:04	1
Phenol	<0.084		0.19	0.084	mg/Kg	☼	10/19/18 22:40	10/22/18 16:04	1
Pyrene	0.016	J	0.038	0.0075	mg/Kg	☼	10/19/18 22:40	10/22/18 16:04	1
1,2,4-Trichlorobenzene	<0.041		0.19	0.041	mg/Kg	☼	10/19/18 22:40	10/22/18 16:04	1
2,4,5-Trichlorophenol	<0.086		0.38	0.086	mg/Kg	☼	10/19/18 22:40	10/22/18 16:04	1
2,4,6-Trichlorophenol	<0.13		0.38	0.13	mg/Kg	☼	10/19/18 22:40	10/22/18 16:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	112		44 - 121	10/19/18 22:40	10/22/18 16:04	1
2-Fluorophenol	150	X	46 - 133	10/19/18 22:40	10/22/18 16:04	1
Nitrobenzene-d5	109		41 - 120	10/19/18 22:40	10/22/18 16:04	1
Phenol-d5	134	X	46 - 125	10/19/18 22:40	10/22/18 16:04	1
Terphenyl-d14	116		35 - 160	10/19/18 22:40	10/22/18 16:04	1
2,4,6-Tribromophenol	108		25 - 139	10/19/18 22:40	10/22/18 16:04	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.50	J B	1.1	0.21	mg/Kg	☼	10/18/18 08:28	10/19/18 02:20	1
Arsenic	10		0.55	0.19	mg/Kg	☼	10/18/18 08:28	10/19/18 02:20	1
Barium	39		0.55	0.063	mg/Kg	☼	10/18/18 08:28	10/19/18 02:20	1
Beryllium	0.55		0.22	0.052	mg/Kg	☼	10/18/18 08:28	10/19/18 02:20	1
Cadmium	0.18		0.11	0.020	mg/Kg	☼	10/18/18 08:28	10/19/18 02:20	1
Chromium	12		0.55	0.27	mg/Kg	☼	10/18/18 08:28	10/19/18 02:20	1
Cobalt	9.0		0.28	0.072	mg/Kg	☼	10/18/18 08:28	10/19/18 02:20	1
Copper	21	B	0.55	0.15	mg/Kg	☼	10/18/18 08:28	10/19/18 02:20	1
Iron	17000	B	11	5.7	mg/Kg	☼	10/18/18 08:28	10/19/18 02:20	1
Lead	20		0.28	0.13	mg/Kg	☼	10/18/18 08:28	10/19/18 02:20	1
Magnesium	30000	B	5.5	2.7	mg/Kg	☼	10/18/18 08:28	10/19/18 02:20	1
Calcium	61000	B	55	9.4	mg/Kg	☼	10/18/18 08:28	10/19/18 17:46	5
Manganese	400		0.55	0.080	mg/Kg	☼	10/18/18 08:28	10/19/18 02:20	1
Nickel	21		0.55	0.16	mg/Kg	☼	10/18/18 08:28	10/19/18 02:20	1
Selenium	<0.32		0.55	0.32	mg/Kg	☼	10/18/18 08:28	10/19/18 02:20	1
Silver	0.22	J	0.28	0.071	mg/Kg	☼	10/18/18 08:28	10/19/18 02:20	1
Thallium	<0.28		0.55	0.28	mg/Kg	☼	10/18/18 08:28	10/19/18 02:20	1
Vanadium	21		0.28	0.065	mg/Kg	☼	10/18/18 08:28	10/19/18 02:20	1
Zinc	72	B	1.1	0.49	mg/Kg	☼	10/18/18 08:28	10/19/18 02:20	1
Potassium	1900		28	9.8	mg/Kg	☼	10/18/18 08:28	10/19/18 02:20	1
Sodium	110		55	8.2	mg/Kg	☼	10/18/18 08:28	10/19/18 02:20	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		10/18/18 15:08	10/19/18 20:25	1
Barium	0.36	J	0.50	0.050	mg/L		10/18/18 15:08	10/19/18 20:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/18/18 15:08	10/19/18 20:25	1
Cadmium	0.0022	J	0.0050	0.0020	mg/L		10/18/18 15:08	10/19/18 20:25	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-3

Client Sample ID: 2947V-13-B03 (0-5)

Lab Sample ID: 500-153168-17

Date Collected: 10/15/18 15:25

Matrix: Solid

Date Received: 10/15/18 16:40

Percent Solids: 85.0

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		10/18/18 15:08	10/19/18 20:25	1
Chromium	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 20:25	1
Cobalt	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 20:25	1
Copper	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 20:25	1
Iron	<0.20		0.40	0.20	mg/L		10/18/18 15:08	10/19/18 20:25	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/18/18 15:08	10/19/18 20:25	1
Magnesium	190		2.5	0.50	mg/L		10/18/18 15:08	10/19/18 20:25	1
Manganese	0.15		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 20:25	1
Nickel	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 20:25	1
Potassium	1.5 J		2.5	0.50	mg/L		10/18/18 15:08	10/19/18 20:25	1
Selenium	<0.020		0.050	0.020	mg/L		10/18/18 15:08	10/19/18 20:25	1
Silver	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 20:25	1
Vanadium	<0.010		0.025	0.010	mg/L		10/18/18 15:08	10/19/18 20:25	1
Zinc	0.26 J B		0.50	0.020	mg/L		10/18/18 15:08	10/19/18 20:25	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		10/18/18 15:08	10/24/18 15:45	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/18/18 15:08	10/23/18 04:14	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		10/19/18 11:20	10/22/18 11:35	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.018	0.0060	mg/Kg	☼	10/18/18 16:20	10/19/18 11:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.20		0.58	0.20	mg/Kg	☼	10/24/18 14:10	10/24/18 22:15	1
pH	8.0		0.2	0.2	SU			10/22/18 17:23	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153168-3

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
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.
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.

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 - Romeoville - WO 054

TestAmerica Job ID: 500-153168-3

Laboratory: 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	04-30-19

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
 Company: Terracon
 Address: 192 Exchange Blvd
Glendale Heights, IL
 Phone: 630-445-0160
 Fax:
 E-Mail: matt.weiss@terracon.com

Bill To (optional)
 Contact:
 Company:
 Address:
 Address:
 Phone:
 Fax:
 PO#/Reference#

Chain of Custody Record

Lab Job #: 500-153168
 Chain of Custody Number:
 Page 1 of 1
 Temperature °C of Cooler:

Client		Client Project #		Preservative		Parameter		Matrix		Comments						
<u>IDOT</u>		<u>11187007U</u>														
Project Name				Project Location/State				Lab Project #								
<u>11187007U</u>				<u>Romeoville, IL</u>												
Sampler				Lab PM												
<u>D.C. FT</u>																
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	Vol's	Succ's	Total	Inorganics	PH	Temp	Inorganics	SLP	Inorganics	Comments
			Date	Time												
<u>14</u>		<u>2947U-13-B06 (0-5)</u>	<u>10/15/18</u>	<u>1405</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>15</u>		<u>2947U-13-B05 (0-5)</u>	<u>10/15/18</u>	<u>1430</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>16</u>		<u>2947U-13-B04 (0-5)</u>	<u>10/15/18</u>	<u>1500</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>17</u>		<u>2947U-13-B03 (0-5)</u>	<u>10/15/18</u>	<u>1525</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>				

- 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

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: [Signature] Company: Terracon Date: 10/15/18 Time: 1550

Relinquished By: [Signature] Company: TA Date: 10/15/18 Time: 1640

Received By: [Signature] Company: TA Date: 10/15/18 Time: 1550

Received By: [Signature] Company: TA-CHL Date: 10/16/18 Time: 0720

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

* No Aluminum
* Hord SLP 23 Inorganics
per Terracon Instructions

Lab Comments:

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-153168-3

Login Number: 153168

List Source: 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	
Cooler Temperature is recorded.	True	5.9,5.6
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	





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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 112-IL Rte 53 from IL Rte 7 to S/o Murphy Dr Office Phone Number, if available: _____

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

IL Rte 53 (Southbound) IDOT STA 124+50 to 129+50; 130+50 to 133+50; 136+50 to 137+50; 140+50 to 148+00(Site 2947V-17)

City: Romeoville State: IL Zip Code: 60446

County: Will Township: Lockport

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

Latitude: 41.61633 Longitude: -88.07732

(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: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Contact: Irma Romiti-Johnson

Email, if available: irma.romiti-johnson@illinois.gov

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

Project Name: FAP 112-IL Rte 53 from IL Rte 7 to S/o Murphy Dr

Latitude: 41.61633 Longitude: -88.07732

Uncontaminated Site Certification

III. Basis for Certification and Attachments

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

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

Soil from borings: B01 through B05, B07, B08, B09, B13, B17 through B23 were sampled adjacent to ISGS Site No 2947V-17. See Exhibits 2, 3, 4, 5 and Table 11 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 Nos J153334-1, J153500-1, and J153433-1. 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, Chen Yang (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

Phone: 630-717-4263

Chen Yang
Printed Name:

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



05/28/2019
Date:

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2947V-17-B01 (0-5)	2947V-17-B02 (0-5)	2947V-17-B02 (0-5) DUP	2947V-17-B03 (0-5)	2947V-17-B04 (0-5)	2947V-17-B05 (0-5)	2947V-17-B07 (0-5)	2947V-17-B08 (0-5)	2947V-17-B09 (0-5)	2947V-17-B13 (0-5)	2947V-17-B17 (0-5)	2947V-17-B18 (0-5)	2947V-17-B19 (0-5)		
				CCDD	Sample Depth (feet)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)
				mg/kg	Date Collected	10/17/2018	10/17/2018	10/17/2018	10/17/2018	10/17/2018	10/17/2018	10/17/2018	10/17/2018	10/17/2018	10/17/2018	10/17/2018	10/17/2018	10/17/2018	10/19/2018	10/19/2018
		pH 6.25-9.0	Chicago	MSAs																
Volatile Organic Analytical Parameters																				
Acetone	mg/kg	---	---	25		<0.0094	<0.0085	<0.0095	<0.0087	<0.0083	<0.0085	<0.0088	<0.0077	<0.0079	<0.0083	<0.0091	<0.0098	<0.0085		
2-Butanone	mg/kg	---	---	17		<0.0024	<0.0022	<0.0024	<0.0022	<0.0021	<0.0022	<0.0022	<0.0020	<0.0020	<0.0021	<0.0023	<0.0025	<0.0022		
Chloroform	mg/kg	---	---	0.3		<0.00075	<0.00068	<0.00076	<0.00069	<0.00066	<0.00068	<0.00070	<0.00061	<0.00063	<0.00066	<0.00072	<0.00078	<0.00068		
Semivolatile Organic Analytical Parameters																				
Acenaphthene	mg/kg	0.09	0.13	570		<0.0070	0.029	0.028	<0.0069	<0.0075	0.016	<0.0069	0.012	<0.0071	0.023	<0.0075	<0.0072	<0.0075		
Acenaphthylene	mg/kg	0.03	0.07	85		<0.0051	0.015	0.018	<0.0051	<0.0055	0.011	<0.0051	0.0063	<0.0052	0.018	<0.0055	<0.0053	0.0082		
Anthracene	mg/kg	0.25	0.4	12000		<0.0065	0.097	0.086	0.013	0.014	0.068	<0.0064	0.047	<0.0066	0.074	<0.0070	<0.0067	0.0072		
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		<0.0052	0.44	0.5	0.053	0.083	0.29	0.015	0.22	<0.0053	0.38	0.0071	0.011	0.026		
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.0095	0.56	0.65	0.065	0.1	0.4	0.019	0.26	<0.0077	0.52	0.019	0.022	0.04		
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.013	1.1	1.1	0.1	0.2	0.75	0.025	0.57	<0.0085	1.2	<0.0090	0.013	0.036		
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		<0.012	0.34	0.29	0.061	0.06	0.14	0.02	0.15	<0.013	0.24	<0.013	<0.013	0.031		
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		<0.011	0.35	0.46	0.037	0.067	0.25	<0.011	0.21	<0.012	0.32	<0.012	<0.012	0.018		
Chrysene	mg/kg	1.2	2.7	88		<0.011	0.55	0.62	0.073	0.11	0.41	0.022	0.27	<0.011	0.52	<0.011	0.014	0.033		
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		0.0089	0.066	0.072	0.011	<0.0080	<0.0074	<0.0074	<0.0078	<0.0076	0.05	<0.0081	<0.0078	<0.0081		
Fluoranthene	mg/kg	2.7	4.1	3100		<0.0072	1.2	1.2	0.15	0.18	0.83	0.03	0.67	<0.0073	1.2	0.012	0.023	0.044		
Fluorene	mg/kg	0.1	0.18	560		<0.0054	0.026	0.022	<0.0054	<0.0059	0.019	<0.0054	0.013	<0.0056	0.022	<0.0059	<0.0057	<0.0059		
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		<0.010	0.24	0.25	0.042	0.057	0.12	0.015	0.11	<0.010	0.19	<0.011	0.022	0.033		
Naphthalene	mg/kg	0.04	0.2	1.8		<0.0060	0.012	0.013	<0.0059	<0.0064	0.0084	<0.0059	<0.0062	<0.0061	0.012	<0.0064	<0.0062	<0.0065		
Phenanthrene	mg/kg	1.3	2.5	210		<0.0054	0.52	0.46	0.061	0.087	0.37	0.012	0.25	<0.0055	0.46	0.0062	0.014	0.025		
Pyrene	mg/kg	1.9	3.0	2300		<0.0077	1.6	1.3	0.12	0.16	0.74	0.027	0.6	<0.0079	1.2	0.01	0.019	0.041		
bis(2-Ethylhexyl)phthalate	mg/kg	---	---	46		<0.071	0.15	0.11	<0.071	<0.076	0.073	<0.070	<0.073	<0.072	0.11	<0.076	<0.074	<0.077		
Butylbenzylphthalate	mg/kg	---	---	930		<0.074	<0.074	0.074	<0.073	<0.079	<0.073	<0.073	<0.076	<0.075	0.084	<0.079	<0.077	<0.080		
2-Methylnaphthalene	mg/kg	---	0.14	---		<0.0071	0.011	0.015	<0.0071	<0.0077	0.0081	<0.0071	<0.0074	<0.0073	0.014	<0.0077	<0.0074	<0.0077		
Inorganic Analytical Parameters																				
Arsenic	mg/kg	---	13	11.3		8.2	6.1	5.7	7.3	9.5	7.9	9.2	8.5	8.8	6.9	8.4	8.4	9.8		
Barium	mg/kg	---	110	1500		140	120	110	120	110	110	120	110	130	110	110	150	92		
Cadmium	mg/kg	---	0.6	5.2		0.077	0.27	0.36	0.16	0.14	0.2	0.12	0.22	0.066	0.6	0.084	0.29	0.15		
Chromium, total	mg/kg	---	16.2	21		20	29	23	19	24	20	20	21	21	21	19	19	20		
Lead	mg/kg	---	36	107		18	45	63	31	37	39	21	40	17	270	19	20	33		
Mercury	mg/kg	---	0.06	0.89		0.041	0.036	0.034	0.036	0.043	0.038	0.033	0.04	0.032	0.032	0.04	0.015	0.035		
Selenium	mg/kg	---	0.48	1.3		0.87	<0.35	<0.34	0.34	0.81	0.46	0.93	0.83	0.86	0.44	0.37	<0.35	<0.34		
Silver	mg/kg	---	0.55	4.4		0.41	0.26	0.23	0.3	0.28	0.33	0.3	0.33	0.31	0.18	0.37	0.34	0.23		
Antimony	mg/kg	---	4.0	5		0.49	0.36	0.81	0.37	0.64	0.4	0.58	0.29	0.37	0.5	0.34	<0.23	0.34		
Beryllium	mg/kg	---	0.59	22		0.9	0.6	0.54	0.66	0.85	0.7	0.8	0.8	0.79	0.54	0.73	0.72	0.79		
Calcium	mg/kg	---	9,300	---		2300	76000	69000	15000	8700	21000	3700	20000	2300	79000	2300	3600	14000		
Cobalt	mg/kg	---	8.9	20		15	9	7.3	11	12	11	15	11	13	6.5	13	15	12		
Copper	mg/kg	---	19.6	2900		16	24	24	16	23	18	20	23	16	31	15	16	22		
Cyanide	mg/kg	---	0.51	---		<0.18	<0.20	<0.18	<0.17	<0.21	<0.20	<0.20	<0.21	<0.19	<0.18	<0.19	<0.19	0.92		
Iron	mg/kg	---	15,900	15000		22000	20000	15000	18000	23000	19000	23000	20000	22000	15000	20000	21000	23000		
Magnesium	mg/kg	---	4,820	325000		3700	37000	32000	10000	7200	14000	4400	13000	3600	39000	3500	3300	9500		
Manganese	mg/kg	---	636	630		680	610	560	590	540	580	540	480	580	520	620	980	560		
Nickel	mg/kg	---	18	100		33	19	17	19	26	26	30	29	21	18	32	27	29		
Potassium	mg/kg	---	1,268	---		1600	1300	1300	1500	2000	1500	1400	1500	1600	1200	1500	2300	1700		
Sodium	mg/kg	---	130	---		1100	1000	1100	1100	1800	710	560	1000	960	1100	930	720	580		
Thallium	mg/kg	---	0.32	2.6		<0.28	<0.29	<0.29	<0.27	<0.29	<0.27	<0.29	<0.29	<0.29	<0.30	<0.30	<0.30	<0.29		
Vanadium	mg/kg	---	25.2	550		36	29	27	33	40	30	32	30	40	23	33	31	34		
Zinc	mg/kg	---	95	5100		77	100	110	75	81	94	80	110	67	160	75	81	71		
pH			6.25	9		7.7	8.4	8.4	8.2	8.2	7.3	7.6	8.3	7.6	8.7	7.5	7.1	8.1		

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2947V-17-B01 (0-5)	2947V-17-B02 (0-5)	2947V-17-B02 (0-5) DUP	2947V-17-B03 (0-5)	2947V-17-B04 (0-5)	2947V-17-B05 (0-5)	2947V-17-B07 (0-5)	2947V-17-B08 (0-5)	2947V-17-B09 (0-5)	2947V-17-B13 (0-5)	2947V-17-B17 (0-5)	2947V-17-B18 (0-5)	2947V-17-B19 (0-5)		
				CCDD	Sample Depth (feet)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)
				mg/kg pH 6.25-9.0	Date Collected	10/17/2018	10/17/2018	10/17/2018	10/17/2018	10/17/2018	10/17/2018	10/17/2018	10/17/2018	10/17/2018	10/17/2018	10/17/2018	10/17/2018	10/19/2018	10/19/2018	10/19/2018
		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	---	---	---		--	1.9	1.6	3.1	2.7	1.1	--	2.3	--	--	--	--	1.7		
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	<0.010	<0.010	<0.010	<0.010		
Barium,TCLP	mg/L	---	---	---		0.56	0.78	0.77	0.65	0.84	0.85	0.9	0.72	0.47	0.69	0.53	0.24	0.65		
Cadmium,TCLP	mg/L	---	---	---		<0.0020	0.0038	0.0027	0.0026	0.0036	0.0036	0.0029	0.0037	<0.0020	0.0043	<0.0020	<0.0020	0.0032		
Chromium,TCLP	mg/L	---	---	---		<0.010	<0.010	<0.010	<0.010	0.046	<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	<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	<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	<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	<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	<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	<0.0040	<0.0040	<0.0040	<0.0040		
Calcium,TCLP	mg/L	---	---	---		48	350	360	150	270	330	150	300	43	320	77	58	290		
Cobalt,TCLP	mg/L	---	---	---		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010		
Copper,TCLP	mg/L	---	---	---		<0.010	0.027	0.023	<0.010	0.013	<0.010	<0.010	0.011	<0.010	<0.010	<0.010	<0.010	<0.010		
Cyanide,TCLP	mg/L	---	---	---		----	----	----	----	----	----	----	----	----	----	----	----	----		
Iron,TCLP	mg/L	---	---	---		<0.20	<0.20	<0.20	0.22	0.2	<0.20	<0.20	<0.20	0.25	<0.20	<0.20	0.2	<0.20		
Magnesium,TCLP	mg/L	---	---	---		15	110	110	55	120	150	67	110	10	150	34	20	130		
Manganese,TCLP	mg/L	---	---	---		0.026	1.6	1.1	0.36	1.1	0.7	0.14	0.95	0.028	0.14	0.088	0.02	0.69		
Nickel,TCLP	mg/L	---	---	---		<0.010	<0.010	<0.010	<0.010	0.014	<0.010	0.013	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010		
Potassium,TCLP	mg/L	---	---	---		1.3	3.3	5.4	4.7	7.2	1.6	1	6.2	1.1	3	1	0.78	1.1		
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	<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	<0.010	<0.010	<0.010	<0.010		
Zinc,TCLP	mg/L	---	---	---		0.094	0.19	0.11	0.033	0.6	0.066	0.24	0.072	0.056	0.11	0.12	<0.020	0.47		

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2947V-17-B20 (0-5)	2947V-17-B21 (0-5)	2947V-17-B22 (0-5)	2947V-17-B23 (0-5)	2947V-17-B25 (0-5)	2947V-17-B26 (0-5)	2947V-17-B27 (0-5)	2947V-17-B28 (0-5)	2947V-17-B29 (0-5)	2947V-17-B30 (0-5)	2947V-17-B31 (0-5)	2947V-17-B32 (0-5)	2947V-17-B33 (0-5)		
				CCDD	Sample Depth (feet)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)
				mg/kg	Date Collected	10/19/2018	10/18/2018	10/18/2018	10/18/2018	10/17/2018	10/17/2018	10/17/2018	10/18/2018	10/18/2018	10/18/2018	10/18/2018	10/18/2018	10/18/2018	10/18/2018	10/18/2018
		pH 6.25-9.0	Chicago	MSAs																
Volatile Organic Analytical Parameters																				
Acetone	mg/kg	---	---	25		<0.0099	<0.0089	<0.0076	<0.0084	<0.0079	<0.0089	<0.0079	<0.0091	<0.0091	<0.0084	<0.0088	<0.0096	<0.0088		
2-Butanone	mg/kg	---	---	17		<0.0025	<0.0023	<0.0019	<0.0021	<0.0020	<0.0023	<0.0020	<0.0023	<0.0023	<0.0021	<0.0022	<0.0024	<0.0022		
Chloroform	mg/kg	---	---	0.3		<0.00079	<0.00071	<0.00060	0.00075	<0.00063	<0.00071	<0.00063	<0.00072	<0.00073	<0.00067	<0.00070	<0.00076	<0.00070		
Semivolatile Organic Analytical Parameters																				
Acenaphthene	mg/kg	0.09	0.13	570		<0.0075	0.031	<0.0068	<0.0071	<0.0073	0.1	<0.0069	<0.0072	<0.0070	<0.0069	<0.0074	<0.0072	<0.0070		
Acenaphthylene	mg/kg	0.03	0.07	85		0.032	<0.0054	<0.0050	0.0085	<0.0054	0.094	<0.0051	0.011	<0.0051	0.0051	<0.0054	<0.0053	<0.0052		
Anthracene	mg/kg	0.25	0.4	12000		0.015	0.043	<0.0063	<0.0066	<0.0068	0.24	<0.0065	0.02	<0.0065	0.011	<0.0069	<0.0067	<0.0065		
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.066	0.21	0.007	0.019	0.012	0.48	0.013	0.11	<0.0052	0.048	0.022	0.0079	0.013		
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.096	0.19	0.018	0.037	0.013	0.47	0.023	0.12	<0.0075	0.061	0.035	0.022	0.024		
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.12	0.33	<0.0082	0.036	0.02	0.57	0.029	0.2	<0.0084	0.064	0.036	0.0098	0.018		
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.069	0.087	<0.012	0.027	0.014	0.16	<0.012	0.071	<0.012	0.046	0.019	<0.013	<0.013		
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.045	0.12	<0.011	0.012	<0.012	0.25	<0.011	0.067	<0.011	0.048	<0.012	<0.012	<0.012		
Chrysene	mg/kg	1.2	2.7	88		0.076	0.28	<0.010	0.023	0.015	0.47	0.015	0.14	<0.011	0.075	0.033	0.011	0.015		
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		0.035	0.039	<0.0073	<0.0077	<0.0079	0.053	0.01	0.034	<0.0075	0.028	<0.0080	<0.0077	<0.0076		
Fluoranthene	mg/kg	2.7	4.1	3100		0.098	0.73	0.0093	0.032	0.022	1.1	0.032	0.24	<0.0072	0.094	0.041	0.012	0.028		
Fluorene	mg/kg	0.1	0.18	560		<0.0059	0.028	<0.0053	<0.0056	<0.0057	0.12	<0.0054	<0.0056	<0.0054	<0.0054	<0.0058	<0.0056	<0.0055		
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.07	0.099	0.019	0.034	0.011	0.17	0.016	0.078	<0.010	0.05	0.031	<0.010	0.023		
Naphthalene	mg/kg	0.04	0.2	1.8		<0.0064	<0.0063	<0.0058	<0.0061	<0.0063	<0.0064	<0.0059	0.0085	<0.0060	<0.0059	<0.0064	<0.0061	<0.0060		
Phenanthrene	mg/kg	1.3	2.5	210		0.034	0.47	<0.0053	0.0098	0.011	0.95	0.015	0.092	<0.0054	0.062	0.027	0.0086	0.018		
Pyrene	mg/kg	1.9	3.0	2300		0.088	0.6	0.0099	0.029	0.02	0.97	0.021	0.21	<0.0077	0.089	0.04	0.012	0.024		
bis(2-Ethylhexyl)phthalate	mg/kg	---	---	46		<0.077	<0.075	<0.069	<0.073	<0.075	<0.076	<0.071	<0.073	<0.071	<0.070	<0.076	<0.073	<0.071		
Butylbenzylphthalate	mg/kg	---	---	930		<0.080	<0.078	<0.072	<0.075	<0.078	<0.080	<0.073	<0.076	<0.074	<0.073	<0.079	<0.076	<0.074		
2-Methylnaphthalene	mg/kg	---	0.14	---		<0.0077	<0.0076	<0.0070	<0.0073	<0.0075	0.016	<0.0071	0.0086	<0.0071	0.0073	<0.0076	<0.0073	<0.0072		
Inorganic Analytical Parameters																				
Arsenic	mg/kg	---	13	11.3		7.1	6.6	9.2	8.3	8.9	12	11	6.9	11	8.2	8.4	8.6	8.5		
Barium	mg/kg	---	110	1500		88	120	49	90	91	130	93	96	91	100	120	110	89		
Cadmium	mg/kg	---	0.6	5.2		0.2	0.16	0.13	0.15	0.13	0.24	0.17	0.38	0.12	0.31	0.24	0.11	0.12		
Chromium, total	mg/kg	---	16.2	21		15	16	15	17	19	20	18	17	20	18	20	21	17		
Lead	mg/kg	---	36	107		25	25	16	20	32	21	25	85	19	48	33	19	30		
Mercury	mg/kg	---	0.06	0.89		0.034	0.029	0.025	0.038	0.032	0.033	0.036	0.034	0.046	0.048	0.041	0.032	0.042		
Selenium	mg/kg	---	0.48	1.3		<0.37	0.5	0.48	<0.34	0.53	<0.35	<0.34	0.64	0.88	0.84	0.73	0.89	0.44		
Silver	mg/kg	---	0.55	4.4		0.26	0.27	0.13	0.25	0.32	0.45	0.4	0.23	0.35	0.3	0.3	0.29	0.36		
Antimony	mg/kg	---	4.0	5		0.35	0.25	0.4	<0.23	0.53	<0.23	0.26	0.25	0.33	0.22	0.38	<0.24	0.31		
Beryllium	mg/kg	---	0.59	22		0.68	0.67	0.66	0.72	0.67	0.81	0.77	0.65	0.86	0.75	0.79	0.82	0.73		
Calcium	mg/kg	---	9,300	---		32000	2700	63000	14000	4300	2200	3200	15000	1900	7000	3200	3000	3000		
Cobalt	mg/kg	---	8.9	20		10	10	14	13	12	17	15	9.2	14	13	12	13	12		
Copper	mg/kg	---	19.6	2900		14	12	23	21	18	19	19	18	20	17	19	16	18		
Cyanide	mg/kg	---	0.51	---		<0.21	<0.21	<0.19	<0.20	<0.18	<0.20	<0.20	<0.21	<0.19	<0.19	<0.18	<0.16	<0.20		
Iron	mg/kg	---	15,900	15000		17000	16000	19000	20000	22000	26000	24000	16000	24000	19000	20000	22000	19000		
Magnesium	mg/kg	---	4,820	325000		21000	2700	29000	10000	4600	3500	4000	10000	3900	5300	3800	4300	3700		
Manganese	mg/kg	---	636	630		570	660	360	570	530	1200	640	570	690	590	670	660	560		
Nickel	mg/kg	---	18	100		26	17	31	29	29	36	40	20	32	25	26	29	28		
Potassium	mg/kg	---	1,268	---		1700	1300	2600	2000	1600	2100	1900	1600	1600	1800	2000	1900	1600		
Sodium	mg/kg	---	130	---		500	170	550	310	310	750	360	260	100	220	380	100	160		
Thallium	mg/kg	---	0.32	2.6		<0.31	<0.30	0.46	<0.29	<0.30	<0.30	<0.29	<0.31	<0.29	<0.27	<0.31	<0.30	<0.28		
Vanadium	mg/kg	---	25.2	550		26	28	17	26	29	33	17	30	24	32	29	33	29		
Zinc	mg/kg	---	95	5100		68	63	56	66	84	94	93	90	76	87	81	69	73		
pH			6.25	9		8	7.5	8.9	8.3	7.9	7.9	7.6	7.8	7.4	7.7	7.8	7.6	7.6		

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2947V-17-B20	2947V-17-B21	2947V-17-B22	2947V-17-B23	2947V-17-B25	2947V-17-B26	2947V-17-B27	2947V-17-B28	2947V-17-B29	2947V-17-B30	2947V-17-B31	2947V-17-B32	2947V-17-B33		
				CCDD	Sample Depth (feet)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)
				mg/kg pH 6.25-9.0	Date Collected	10/19/2018	10/18/2018	10/18/2018	10/18/2018	10/17/2018	10/17/2018	10/17/2018	10/18/2018	10/18/2018	10/18/2018	10/18/2018	10/18/2018	10/18/2018	10/18/2018	10/18/2018
		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	---	---	---		2.2	--	1.1	1	--	--	--	--	--	--	--	--	--		
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	<0.010	<0.010	<0.010	<0.010		
Barium,TCLP	mg/L	---	---	---		0.71	0.37	0.55	0.64	0.48	0.46	0.58	0.7	0.37	0.6	0.45	0.52	0.49		
Cadmium,TCLP	mg/L	---	---	---		0.0034	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020		
Chromium,TCLP	mg/L	---	---	---		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010		
Lead,TCLP	mg/L	---	---	---		<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<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	<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	<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	<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	<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	<0.0040	<0.0040	<0.0040	<0.0040		
Calcium,TCLP	mg/L	---	---	---		310	54	480	190	72	65	100	290	49	210	80	110	100		
Cobalt,TCLP	mg/L	---	---	---		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010		
Copper,TCLP	mg/L	---	---	---		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010		
Cyanide,TCLP	mg/L	---	---	---		----	----	----	----	----	----	----	----	----	----	----	----	----		
Iron,TCLP	mg/L	---	---	---		<0.20	0.28	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20		
Magnesium,TCLP	mg/L	---	---	---		160	22	92	98	26	22	42	160	25	75	32	53	48		
Manganese,TCLP	mg/L	---	---	---		2.4	0.023	0.53	0.32	0.036	0.087	0.12	0.1	0.05	0.097	0.025	0.057	0.074		
Nickel,TCLP	mg/L	---	---	---		0.019	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010		
Potassium,TCLP	mg/L	---	---	---		1.1	0.74	1.1	1.8	3.2	3.4	1.7	1.7	0.96	1.8	2.2	0.76	1.5		
Sodium,TCLP	mg/L	---	---	---		----	----	----	----	----	----	----	----	----	----	----	----	----		
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<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	<0.010	<0.010	<0.010	<0.010		
Zinc,TCLP	mg/L	---	---	---		0.024	0.21	<0.020	0.81	0.027	0.18	0.029	0.4	0.026	0.27	0.045	0.095	0.036		

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2947V-17-B34 (0-5)	2947V-17-B35 (0-5)	2947V-17-B35 (0-5) DUP	2947V-17-B36 (0-5)	2947V-17-B39 (0-5)
				CCDD	Sample Depth (feet)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	10/18/2018	10/18/2018	10/18/2018	10/17/2018	10/17/2018
Volatile Organic Analytical Parameters										
Acetone	mg/kg	---	---	25		0.024	<0.0084	<0.0088	<0.0080	<0.0091
2-Butanone	mg/kg	---	---	17		0.019	<0.0021	<0.0023	<0.0020	<0.0023
Chloroform	mg/kg	---	---	0.3		<0.00072	<0.00067	<0.00070	<0.00064	<0.00072
Semivolatile Organic Analytical Parameters										
Acenaphthene	mg/kg	0.09	0.13	570		<0.0072	<0.0068	<0.0067	<0.0071	<0.0068
Acenaphthylene	mg/kg	0.03	0.07	85		<0.0053	<0.0050	<0.0049	0.0065	0.012
Anthracene	mg/kg	0.25	0.4	12000		<0.0067	<0.0063	<0.0062	0.0066	0.027
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.0076	<0.0051	<0.0050	0.044	0.19
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.021	<0.0073	<0.0072	0.065	0.26
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.0098	<0.0081	<0.0080	0.11	0.54
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		<0.013	<0.012	<0.012	0.033	0.12
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		<0.012	<0.011	<0.011	0.042	0.18
Chrysene	mg/kg	1.2	2.7	88		<0.011	<0.010	<0.010	0.069	0.26
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		<0.0077	<0.0073	<0.0072	<0.0076	<0.0073
Fluoranthene	mg/kg	2.7	4.1	3100		0.017	<0.0070	<0.0069	0.11	0.51
Fluorene	mg/kg	0.1	0.18	560		<0.0056	<0.0053	<0.0052	<0.0055	0.0063
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		<0.010	<0.0098	<0.0096	0.028	0.12
Naphthalene	mg/kg	0.04	0.2	1.8		<0.0062	<0.0058	<0.0057	<0.0060	0.0083
Phenanthrene	mg/kg	1.3	2.5	210		0.0095	<0.0052	<0.0052	0.038	0.16
Pyrene	mg/kg	1.9	3.0	2300		0.014	<0.0075	<0.0074	0.099	0.38
bis(2-Ethylhexyl)phthalate	mg/kg	---	---	46		<0.073	<0.069	<0.068	<0.072	<0.069
Butylbenzylphthalate	mg/kg	---	---	930		<0.076	<0.072	<0.071	<0.075	<0.072
2-Methylnaphthalene	mg/kg	---	0.14	---		<0.0074	<0.0069	<0.0068	<0.0072	0.01
Inorganic Analytical Parameters										
Arsenic	mg/kg	---	13	11.3		9.6	9	9.6	8.7	5.1
Barium	mg/kg	---	110	1500		100	74	77	82	100
Cadmium	mg/kg	---	0.6	5.2		0.083	0.095	0.12	0.23	0.35
Chromium, total	mg/kg	---	16.2	21		20	16	17	16	21
Lead	mg/kg	---	36	107		19	16	17	91	110
Mercury	mg/kg	---	0.06	0.89		0.034	0.028	0.028	0.033	0.037
Selenium	mg/kg	---	0.48	1.3		0.53	0.34	0.44	0.47	0.83
Silver	mg/kg	---	0.55	4.4		0.31	0.29	0.31	0.27	0.32
Antimony	mg/kg	---	4.0	5		<0.24	<0.22	0.25	0.53	0.46
Beryllium	mg/kg	---	0.59	22		0.8	0.65	0.7	0.6	0.75
Calcium	mg/kg	---	9,300	---		2000	1300	1300	7200	32000
Cobalt	mg/kg	---	8.9	20		14	13	13	12	7.8
Copper	mg/kg	---	19.6	2900		19	21	22	20	23
Cyanide	mg/kg	---	0.51	---		<0.21	<0.19	<0.19	<0.19	<0.19
Iron	mg/kg	---	15,900	15000		23000	19000	20000	18000	17000
Magnesium	mg/kg	---	4,820	325000		3900	2800	3000	5500	20000
Manganese	mg/kg	---	636	630		550	540	540	510	320
Nickel	mg/kg	---	18	100		30	31	32	25	23
Potassium	mg/kg	---	1,268	---		1700	1300	1700	1500	1600
Sodium	mg/kg	---	130	---		180	140	170	670	1800
Thallium	mg/kg	---	0.32	2.6		<0.30	<0.28	<0.29	<0.30	<0.28
Vanadium	mg/kg	---	25.2	550		35	27	29	26	26
Zinc	mg/kg	---	95	5100		66	68	73	85	100
pH			6.25	9		7.6	6.8	6.6	8.3	8.7

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2947V-17-B34 (0-5)	2947V-17-B35 (0-5)	2947V-17-B35 (0-5) DUP	2947V-17-B36 (0-5)	2947V-17-B39 (0-5)
				CCDD	Sample Depth (feet)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)
				mg/kg pH 6.25-9.0	Date Collected	10/18/2018	10/18/2018	10/18/2018	10/17/2018	10/17/2018
		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	---	---	---		--	--	--	0.4	--
Magnesium,SPLP	mg/L	---	---	---		--	--	--	--	--
Manganese,SPLP	mg/L	---	---	---		--	--	--	2.3	1.1
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	---	---	---		0.44	0.4	0.42	0.61	0.45
Cadmium,TCLP	mg/L	---	---	---		<0.0020	<0.0020	<0.0020	0.0033	0.0031
Chromium,TCLP	mg/L	---	---	---		<0.010	<0.010	<0.010	<0.010	<0.010
Lead,TCLP	mg/L	---	---	---		<0.0075	<0.0075	<0.0075	0.0076	<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	---	---	---		49	31	32	200	280
Cobalt,TCLP	mg/L	---	---	---		<0.010	<0.010	<0.010	<0.010	<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	---	---	---		22	14	15	80	130
Manganese,TCLP	mg/L	---	---	---		0.023	0.015	0.018	0.44	0.73
Nickel,TCLP	mg/L	---	---	---		<0.010	<0.010	<0.010	<0.010	<0.010
Potassium,TCLP	mg/L	---	---	---		0.64	1.4	1.4	3.1	1.6
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	---	---	---		0.17	0.47	0.027	0.066	0.17

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ANALYTICAL REPORT

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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 - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Job ID: 500-153334-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-153334-1

Receipt

The samples were received on 10/17/2018 4:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 0.6° C, 2.8° C, 4.3° C and 4.6° C.

GC/MS VOA

The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for 456981 recovered outside control limits for the following analytes: Chloroethane and Dichlorodifluoroethane. These analytes were biased high in the LCS/ LCSD and were not detected in the associated samples; therefore, the data have been reported.

The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for 456979 recovered outside control limits for the following analytes: Chloroethane and Bromomethane. These analytes were biased high in the LCS/ LCSD and were not detected in the associated samples; therefore, the data have been reported.

The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for 457169 recovered outside control limits for the following analytes: Chloroethane. This analyte was biased low in the LCS/ 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 and / or acid surrogate outside acceptance limits: 2947V-17-B10 (0-5) (500-153334-4), 2947V-17-B11 (0-5) (500-153334-5), 2947V-17-B12 (0-5) (500-153334-6), 2947V-17-B40 (0-4) (500-153334-11), 2947V-17-B15 (0-5) (500-153334-12), 2947V-17-B13 (0-5) (500-153334-15), 2947V-17-B08 (0-5) (500-153334-17), 2947V-17-B02 (0-5) (500-153334-20) and 2947V-17-B02 (0-5) Dup (500-153334-21). 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 one or more analytes. Data has been qualified and reported. (500-153334-E-1-C MS) and (500-153334-E-1-D MSD)

Method(s) 8270D: Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 3 analytes to recover outside criteria for this method when utilizing this list of analytes. The LCS associated with batch 456471 had 3 analytes outside control limits: Anthracene, Fluoranthene and 2,4,5-Trichlorophenol. These results have been reported and qualified. (LCS 500-456475/2-A)

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

Metals

Method(s) 6010B: The method blank for preparation batch 500-456503 and analytical batch 500-456707 contained Copper above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

Method(s) 6010B: The method blank for preparation batch 500-456512 and analytical batch 500-456708 contained Copper above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

No additional analytical or quality issues were noted, other than those described above or 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 - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B04 (0-5)

Lab Sample ID: 500-153334-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.014	J*	0.041	0.0070	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.083		0.041	0.0056	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.10		0.041	0.0081	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.20	F1	0.041	0.0090	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.060		0.041	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.067	F1	0.041	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.11		0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.18	*	0.041	0.0077	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.057		0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.087		0.041	0.0058	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.16		0.041	0.0083	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.64	J B	1.2	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.5		0.59	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	110		0.59	0.067	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.85		0.24	0.055	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.14	B	0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Chromium	24		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.29	0.077	mg/Kg	1	☼	6010B	Total/NA
Copper	23	B	0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	23000		12	6.1	mg/Kg	1	☼	6010B	Total/NA
Lead	37	B	0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	7200		5.9	2.9	mg/Kg	1	☼	6010B	Total/NA
Calcium	8700	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	540		0.59	0.085	mg/Kg	1	☼	6010B	Total/NA
Nickel	26		0.59	0.17	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.81		0.59	0.35	mg/Kg	1	☼	6010B	Total/NA
Silver	0.28	J	0.29	0.076	mg/Kg	1	☼	6010B	Total/NA
Vanadium	40		0.29	0.069	mg/Kg	1	☼	6010B	Total/NA
Zinc	81		1.2	0.52	mg/Kg	1	☼	6010B	Total/NA
Potassium	2000		29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	1800		59	8.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.84		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0036	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	270		5.0	0.50	mg/L	1		6010B	TCLP
Chromium	0.046	J B	0.070	0.010	mg/L	1		6010B	TCLP
Copper	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.20	J	0.40	0.20	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	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	7.2		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.60		0.50	0.020	mg/L	1		6010B	TCLP
Manganese	2.7		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.043		0.021	0.0068	mg/Kg	1	☼	7471B	Total/NA
pH	8.2		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2947V-17-B05 (0-5)

Lab Sample ID: 500-153334-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.016	J	0.038	0.0069	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B05 (0-5) (Continued)

Lab Sample ID: 500-153334-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acenaphthylene	0.011	J	0.038	0.0050	mg/Kg	1	☼	☼	8270D	Total/NA
Anthracene	0.068	*	0.038	0.0064	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	0.0074	mg/Kg	1	☼	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.75		0.038	0.0082	mg/Kg	1	☼	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.14		0.038	0.012	mg/Kg	1	☼	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.25		0.038	0.011	mg/Kg	1	☼	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.073	J	0.19	0.070	mg/Kg	1	☼	☼	8270D	Total/NA
Chrysene	0.41		0.038	0.010	mg/Kg	1	☼	☼	8270D	Total/NA
Fluoranthene	0.83	*	0.038	0.0071	mg/Kg	1	☼	☼	8270D	Total/NA
Fluorene	0.019	J	0.038	0.0054	mg/Kg	1	☼	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.12		0.038	0.0099	mg/Kg	1	☼	☼	8270D	Total/NA
2-Methylnaphthalene	0.0081	J	0.077	0.0070	mg/Kg	1	☼	☼	8270D	Total/NA
Naphthalene	0.0084	J	0.038	0.0059	mg/Kg	1	☼	☼	8270D	Total/NA
Phenanthrene	0.37		0.038	0.0053	mg/Kg	1	☼	☼	8270D	Total/NA
Pyrene	0.74		0.038	0.0076	mg/Kg	1	☼	☼	8270D	Total/NA
Antimony	0.40	J B	1.1	0.21	mg/Kg	1	☼	☼	6010B	Total/NA
Arsenic	7.9		0.55	0.19	mg/Kg	1	☼	☼	6010B	Total/NA
Barium	110		0.55	0.063	mg/Kg	1	☼	☼	6010B	Total/NA
Beryllium	0.70		0.22	0.051	mg/Kg	1	☼	☼	6010B	Total/NA
Cadmium	0.20	B	0.11	0.020	mg/Kg	1	☼	☼	6010B	Total/NA
Chromium	20		0.55	0.27	mg/Kg	1	☼	☼	6010B	Total/NA
Cobalt	11		0.27	0.072	mg/Kg	1	☼	☼	6010B	Total/NA
Copper	18	B	0.55	0.15	mg/Kg	1	☼	☼	6010B	Total/NA
Iron	19000		11	5.7	mg/Kg	1	☼	☼	6010B	Total/NA
Lead	39	B	0.27	0.13	mg/Kg	1	☼	☼	6010B	Total/NA
Magnesium	14000		5.5	2.7	mg/Kg	1	☼	☼	6010B	Total/NA
Calcium	21000	B	11	1.9	mg/Kg	1	☼	☼	6010B	Total/NA
Manganese	580		0.55	0.080	mg/Kg	1	☼	☼	6010B	Total/NA
Nickel	26		0.55	0.16	mg/Kg	1	☼	☼	6010B	Total/NA
Selenium	0.46	J	0.55	0.32	mg/Kg	1	☼	☼	6010B	Total/NA
Silver	0.33		0.27	0.071	mg/Kg	1	☼	☼	6010B	Total/NA
Vanadium	30		0.27	0.065	mg/Kg	1	☼	☼	6010B	Total/NA
Zinc	94		1.1	0.48	mg/Kg	1	☼	☼	6010B	Total/NA
Potassium	1500		27	9.7	mg/Kg	1	☼	☼	6010B	Total/NA
Sodium	710		55	8.1	mg/Kg	1	☼	☼	6010B	Total/NA
Barium	0.85		0.50	0.050	mg/L	1			6010B	TCLP
Cadmium	0.0036	J	0.0050	0.0020	mg/L	1			6010B	TCLP
Calcium	330		5.0	0.50	mg/L	1			6010B	TCLP
Magnesium	150		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	0.70		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	1.6	J	2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.066	J	0.50	0.020	mg/L	1			6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1			6010B	SPLP East
Mercury	0.038		0.018	0.0060	mg/Kg	1	☼	☼	7471B	Total/NA
pH	7.3		0.2	0.2	SU	1			9045D	Total/NA

Client Sample ID: 2947V-17-B06 (0-5)

Lab Sample ID: 500-153334-3

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B06 (0-5) (Continued)

Lab Sample ID: 500-153334-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.0097	J	0.038	0.0069	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.015	J	0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.025	J	0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.016	J	0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.029	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.039	*	0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.013	J	0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.17		0.078	0.0071	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.025	J	0.038	0.0059	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.064		0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.044		0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.49	J B	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.0		0.57	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	84		0.57	0.065	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.62		0.23	0.053	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.12	B	0.11	0.021	mg/Kg	1	☼	6010B	Total/NA
Chromium	10		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.8		0.29	0.075	mg/Kg	1	☼	6010B	Total/NA
Copper	9.1	B	0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	11000		11	6.0	mg/Kg	1	☼	6010B	Total/NA
Lead	12	B	0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	39000		5.7	2.8	mg/Kg	1	☼	6010B	Total/NA
Calcium	98000	B	57	9.7	mg/Kg	5	☼	6010B	Total/NA
Manganese	680		0.57	0.083	mg/Kg	1	☼	6010B	Total/NA
Nickel	13		0.57	0.17	mg/Kg	1	☼	6010B	Total/NA
Silver	0.21	J	0.29	0.074	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.29	0.068	mg/Kg	1	☼	6010B	Total/NA
Zinc	44		1.1	0.50	mg/Kg	1	☼	6010B	Total/NA
Potassium	1400		29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	1000		57	8.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.43	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	720		25	2.5	mg/L	5		6010B	TCLP
Chromium	0.014	J B	0.070	0.010	mg/L	1		6010B	TCLP
Magnesium	73		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.59		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.5		2.5	0.50	mg/L	1		6010B	TCLP
Mercury	0.022		0.019	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	10.4		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2947V-17-B10 (0-5)

Lab Sample ID: 500-153334-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.031	J	0.039	0.0070	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.041		0.039	0.0051	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.13	*	0.039	0.0065	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.63		0.039	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.86		0.039	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	1.7		0.039	0.0084	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.43		0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.60		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B10 (0-5) (Continued)

Lab Sample ID: 500-153334-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	0.14	J	0.20	0.071	mg/Kg	1	☼	8270D	Total/NA
Butyl benzyl phthalate	0.082	J	0.20	0.074	mg/Kg	1	☼	8270D	Total/NA
Carbazole	0.10	J	0.20	0.097	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.81		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.092		0.039	0.0075	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	1.8	*	0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.034	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.36		0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.025	J	0.078	0.0071	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.020	J	0.039	0.0060	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.67		0.039	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	2.0		0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.41	J B	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.4		0.57	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	89		0.57	0.065	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.48		0.23	0.054	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.67	B	0.11	0.021	mg/Kg	1	☼	6010B	Total/NA
Chromium	22		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.3		0.29	0.075	mg/Kg	1	☼	6010B	Total/NA
Copper	29	B	0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	13000		11	6.0	mg/Kg	1	☼	6010B	Total/NA
Lead	170	B	0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	50000		5.7	2.8	mg/Kg	1	☼	6010B	Total/NA
Calcium	100000	B	57	9.7	mg/Kg	5	☼	6010B	Total/NA
Manganese	490		0.57	0.083	mg/Kg	1	☼	6010B	Total/NA
Nickel	14		0.57	0.17	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.44	J	0.57	0.34	mg/Kg	1	☼	6010B	Total/NA
Silver	0.18	J	0.29	0.074	mg/Kg	1	☼	6010B	Total/NA
Vanadium	23		0.29	0.068	mg/Kg	1	☼	6010B	Total/NA
Zinc	160		1.1	0.50	mg/Kg	1	☼	6010B	Total/NA
Potassium	1200		29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	690		57	8.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.71		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0068		0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	380		5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.023	J	0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.010		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	160		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	4.1		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.37	J	0.50	0.020	mg/L	1		6010B	TCLP
Cadmium	0.0026	J	0.0050	0.0020	mg/L	1		6010B	SPLP East
Lead	0.48		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	1.3		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.042		0.019	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	8.4		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2947V-17-B11 (0-5)

Lab Sample ID: 500-153334-5

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B11 (0-5) (Continued)

Lab Sample ID: 500-153334-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.036	J	0.041	0.0075	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.042		0.041	0.0055	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.15	*	0.041	0.0069	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.49		0.041	0.0056	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.61		0.041	0.0080	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	1.1		0.041	0.0090	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.28		0.041	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.39		0.041	0.012	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.25		0.21	0.076	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.60		0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.067		0.041	0.0080	mg/Kg	1	☼	8270D	Total/NA
Dimethyl phthalate	0.67		0.21	0.054	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	1.2	*	0.041	0.0077	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.043		0.041	0.0058	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.25		0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.018	J	0.084	0.0076	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.017	J	0.041	0.0064	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.69		0.041	0.0058	mg/Kg	1	☼	8270D	Total/NA
Pyrene	1.4		0.041	0.0083	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.52	J B	1.3	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.8		0.63	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	140		0.63	0.071	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.82		0.25	0.058	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.69	B	0.13	0.023	mg/Kg	1	☼	6010B	Total/NA
Chromium	25		0.63	0.31	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.6		0.31	0.082	mg/Kg	1	☼	6010B	Total/NA
Copper	34	B	0.63	0.18	mg/Kg	1	☼	6010B	Total/NA
Iron	19000		13	6.5	mg/Kg	1	☼	6010B	Total/NA
Lead	410	B	0.31	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	27000		6.3	3.1	mg/Kg	1	☼	6010B	Total/NA
Calcium	55000	B	63	11	mg/Kg	5	☼	6010B	Total/NA
Manganese	500		0.63	0.091	mg/Kg	1	☼	6010B	Total/NA
Nickel	23		0.63	0.18	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.64		0.63	0.37	mg/Kg	1	☼	6010B	Total/NA
Silver	0.27	J	0.31	0.081	mg/Kg	1	☼	6010B	Total/NA
Vanadium	30		0.31	0.074	mg/Kg	1	☼	6010B	Total/NA
Zinc	180		1.3	0.55	mg/Kg	1	☼	6010B	Total/NA
Potassium	1600		31	11	mg/Kg	1	☼	6010B	Total/NA
Sodium	940		63	9.3	mg/Kg	1	☼	6010B	Total/NA
Barium	0.84		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0081		0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	350		5.0	0.50	mg/L	1		6010B	TCLP
Lead	0.063		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	150		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.77		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.010	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.7	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.23	J	0.50	0.020	mg/L	1		6010B	TCLP
Cadmium	0.0027	J	0.0050	0.0020	mg/L	1		6010B	SPLP East
Lead	1.1		0.0075	0.0075	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B11 (0-5) (Continued)

Lab Sample ID: 500-153334-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	1.4		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.060		0.019	0.0064	mg/Kg	1	☼	7471B	Total/NA
pH	8.2		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2947V-17-B12 (0-5)

Lab Sample ID: 500-153334-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.013	J	0.041	0.0075	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.028	J	0.041	0.0055	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.051	*	0.041	0.0069	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.25		0.041	0.0056	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.33		0.041	0.0080	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.63		0.041	0.0090	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.18		0.041	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.21		0.041	0.012	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.080	J	0.21	0.076	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.32		0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.042		0.041	0.0080	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.61	*	0.041	0.0077	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.015	J	0.041	0.0058	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.14		0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.019	J	0.084	0.0076	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.015	J	0.041	0.0064	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.26		0.041	0.0058	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.81		0.041	0.0083	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.57	J B	1.2	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.6		0.60	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	54		0.60	0.068	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.48		0.24	0.056	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.42	B	0.12	0.022	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.3		0.30	0.079	mg/Kg	1	☼	6010B	Total/NA
Copper	20	B	0.60	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	17000		60	31	mg/Kg	5	☼	6010B	Total/NA
Lead	190	B	0.30	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	81000		30	15	mg/Kg	5	☼	6010B	Total/NA
Calcium	130000	B	60	10	mg/Kg	5	☼	6010B	Total/NA
Manganese	390		0.60	0.087	mg/Kg	1	☼	6010B	Total/NA
Nickel	15		0.60	0.17	mg/Kg	1	☼	6010B	Total/NA
Silver	0.11	J	0.30	0.077	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.30	0.071	mg/Kg	1	☼	6010B	Total/NA
Zinc	95		1.2	0.53	mg/Kg	1	☼	6010B	Total/NA
Potassium	1100		30	11	mg/Kg	1	☼	6010B	Total/NA
Sodium	610		60	8.9	mg/Kg	1	☼	6010B	Total/NA
Barium	0.86		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0085		0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	360		5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.022	J	0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.045		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	170		2.5	0.50	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B12 (0-5) (Continued)

Lab Sample ID: 500-153334-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	1.3		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.6		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.43	J	0.50	0.020	mg/L	1		6010B	TCLP
Cadmium	0.0028	J	0.0050	0.0020	mg/L	1		6010B	SPLP East
Lead	0.79		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	1.8		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.041		0.019	0.0063	mg/Kg	1	☼	7471B	Total/NA
pH	8.4		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2947V-17-B36 (0-5)

Lab Sample ID: 500-153334-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.0065	J	0.039	0.0052	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.0066	J *	0.039	0.0066	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.044		0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.065		0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.11		0.039	0.0085	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.033	J	0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.042		0.039	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.069		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.11	*	0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.028	J	0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.038	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.099		0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.53	J B	1.2	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.7		0.59	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	82		0.59	0.068	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.60		0.24	0.056	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.23	B	0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.30	0.078	mg/Kg	1	☼	6010B	Total/NA
Copper	20	B	0.59	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	18000		12	6.2	mg/Kg	1	☼	6010B	Total/NA
Lead	91	B	0.30	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	5500		5.9	2.9	mg/Kg	1	☼	6010B	Total/NA
Calcium	7200	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	510		0.59	0.086	mg/Kg	1	☼	6010B	Total/NA
Nickel	25		0.59	0.17	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.47	J	0.59	0.35	mg/Kg	1	☼	6010B	Total/NA
Silver	0.27	J	0.30	0.077	mg/Kg	1	☼	6010B	Total/NA
Vanadium	26		0.30	0.070	mg/Kg	1	☼	6010B	Total/NA
Zinc	85		1.2	0.52	mg/Kg	1	☼	6010B	Total/NA
Potassium	1500		30	11	mg/Kg	1	☼	6010B	Total/NA
Sodium	670		59	8.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.61		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0033	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	200		5.0	0.50	mg/L	1		6010B	TCLP
Lead	0.0076		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	80		2.5	0.50	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B36 (0-5) (Continued)

Lab Sample ID: 500-153334-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.44		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.1		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.066	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.40		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	2.3		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.033		0.019	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	8.3		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2947V-17-B37 (0-5)

Lab Sample ID: 500-153334-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.017	J	0.038	0.0069	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.024	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.074	*	0.038	0.0065	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.41		0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.51		0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.99		0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.20		0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.32		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.14	J	0.19	0.071	mg/Kg	1	☼	8270D	Total/NA
Butyl benzyl phthalate	0.080	J	0.19	0.073	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.54		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.050		0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Dimethyl phthalate	0.062	J	0.19	0.050	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	1.0	*	0.038	0.0072	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.019	J	0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.19		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.024	J	0.078	0.0071	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.017	J	0.038	0.0059	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.37		0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.88		0.038	0.0077	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.55	J B	1.1	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.1		0.55	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	130		0.55	0.063	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.72		0.22	0.052	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.70	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	23		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.3		0.28	0.072	mg/Kg	1	☼	6010B	Total/NA
Copper	33	B	0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	16000		11	5.7	mg/Kg	1	☼	6010B	Total/NA
Lead	410	B	0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	25000		5.5	2.7	mg/Kg	1	☼	6010B	Total/NA
Calcium	53000	B	55	9.4	mg/Kg	5	☼	6010B	Total/NA
Manganese	380		0.55	0.080	mg/Kg	1	☼	6010B	Total/NA
Nickel	22		0.55	0.16	mg/Kg	1	☼	6010B	Total/NA
Silver	0.22	J	0.28	0.071	mg/Kg	1	☼	6010B	Total/NA
Vanadium	23		0.28	0.065	mg/Kg	1	☼	6010B	Total/NA
Zinc	160		1.1	0.49	mg/Kg	1	☼	6010B	Total/NA
Potassium	1700		28	9.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	1200		55	8.2	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B37 (0-5) (Continued)

Lab Sample ID: 500-153334-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.62		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0053		0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	330		5.0	0.50	mg/L	1		6010B	TCLP
Lead	0.036		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	130		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.0		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.7	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.13	J	0.50	0.020	mg/L	1		6010B	TCLP
Cadmium	0.0032	J	0.0050	0.0020	mg/L	1		6010B	SPLP East
Lead	1.2		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.97		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.033		0.019	0.0063	mg/Kg	1	☼	7471B	Total/NA
pH	7.9		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2947V-17-B38 (0-5)

Lab Sample ID: 500-153334-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.013	J	0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.022	J*	0.040	0.0068	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.16		0.040	0.0055	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.20		0.040	0.0079	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.33		0.040	0.0088	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.077		0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.091		0.040	0.012	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.080	J	0.20	0.074	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.21		0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.32	*	0.040	0.0075	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0066	J	0.040	0.0057	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.066		0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.0090	J	0.082	0.0075	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.0063	J	0.040	0.0063	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.13		0.040	0.0057	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.30		0.040	0.0081	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.62	J B	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.0		0.61	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	110		0.61	0.069	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.72		0.24	0.057	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.46	B	0.12	0.022	mg/Kg	1	☼	6010B	Total/NA
Chromium	19		0.61	0.30	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.1		0.30	0.080	mg/Kg	1	☼	6010B	Total/NA
Copper	23	B	0.61	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	16000		12	6.3	mg/Kg	1	☼	6010B	Total/NA
Lead	190	B	0.30	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	29000		6.1	3.0	mg/Kg	1	☼	6010B	Total/NA
Calcium	62000	B	61	10	mg/Kg	5	☼	6010B	Total/NA
Manganese	410		0.61	0.088	mg/Kg	1	☼	6010B	Total/NA
Nickel	20		0.61	0.18	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.55	J	0.61	0.36	mg/Kg	1	☼	6010B	Total/NA
Silver	0.22	J	0.30	0.079	mg/Kg	1	☼	6010B	Total/NA
Vanadium	24		0.30	0.072	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B38 (0-5) (Continued)

Lab Sample ID: 500-153334-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	110		1.2	0.53	mg/Kg	1	☼	6010B	Total/NA
Potassium	1600		30	11	mg/Kg	1	☼	6010B	Total/NA
Sodium	1300		61	9.0	mg/Kg	1	☼	6010B	Total/NA
Barium	0.61		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0043	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	330		5.0	0.50	mg/L	1		6010B	TCLP
Lead	0.011		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	130		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.75		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.2	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.081	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.56		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.84		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.031		0.019	0.0064	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.40	J	0.54	0.19	mg/Kg	1	☼	9014	Total/NA
pH	8.7		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2947V-17-B39 (0-2)

Lab Sample ID: 500-153334-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.012	J	0.038	0.0050	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.027	J*	0.038	0.0063	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.19		0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.26		0.038	0.0073	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.54		0.038	0.0082	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.12		0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.18		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.26		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.51	*	0.038	0.0070	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0063	J	0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.12		0.038	0.0098	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.010	J	0.076	0.0069	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.0083	J	0.038	0.0058	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.16		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.38		0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.46	J B	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.1		0.57	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	100		0.57	0.065	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.75		0.23	0.053	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.35	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	21		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.8		0.28	0.074	mg/Kg	1	☼	6010B	Total/NA
Copper	23	B	0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	17000		11	5.9	mg/Kg	1	☼	6010B	Total/NA
Lead	110	B	0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	20000		5.7	2.8	mg/Kg	1	☼	6010B	Total/NA
Calcium	32000	B	11	1.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	320		0.57	0.082	mg/Kg	1	☼	6010B	Total/NA
Nickel	23		0.57	0.17	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.83		0.57	0.33	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B39 (0-2) (Continued)

Lab Sample ID: 500-153334-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Silver	0.32		0.28	0.073	mg/Kg	1	☼	6010B	Total/NA
Vanadium	26		0.28	0.067	mg/Kg	1	☼	6010B	Total/NA
Zinc	100		1.1	0.50	mg/Kg	1	☼	6010B	Total/NA
Potassium	1600		28	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	1800		57	8.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.45	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0031	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	280		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	130		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.73		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.6	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.17	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.037		0.018	0.0061	mg/Kg	1	☼	7471B	Total/NA
pH	8.7		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2947V-17-B40 (0-4)

Lab Sample ID: 500-153334-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.080		0.037	0.0067	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.17		0.037	0.0049	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.46	*	0.037	0.0063	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	1.7		0.037	0.0051	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.20		0.19	0.069	mg/Kg	1	☼	8270D	Total/NA
Butyl benzyl phthalate	0.086	J	0.19	0.071	mg/Kg	1	☼	8270D	Total/NA
Carbazole	0.33		0.19	0.094	mg/Kg	1	☼	8270D	Total/NA
Chrysene	1.9		0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenzofuran	0.077	J	0.19	0.044	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.15		0.037	0.0053	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.038	J	0.076	0.0069	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.032	J	0.037	0.0058	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	1.8		0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene - DL	2.2		0.19	0.036	mg/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene - DL	4.0		0.19	0.041	mg/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene - DL	1.1		0.19	0.060	mg/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene - DL	1.3		0.19	0.055	mg/Kg	5	☼	8270D	Total/NA
Dibenz(a,h)anthracene - DL	0.27		0.19	0.036	mg/Kg	5	☼	8270D	Total/NA
Fluoranthene - DL	4.9	*	0.19	0.035	mg/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene - DL	0.92		0.19	0.049	mg/Kg	5	☼	8270D	Total/NA
Pyrene - DL	3.7		0.19	0.037	mg/Kg	5	☼	8270D	Total/NA
Antimony	0.46	J B	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	3.3		0.57	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	260		0.57	0.065	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.78		0.23	0.053	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.29	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	4.1		0.28	0.074	mg/Kg	1	☼	6010B	Total/NA
Copper	24	B	0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	12000		11	5.9	mg/Kg	1	☼	6010B	Total/NA
Lead	66	B	0.28	0.13	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B40 (0-4) (Continued)

Lab Sample ID: 500-153334-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	52000		5.7	2.8	mg/Kg	1	☼	6010B	Total/NA
Calcium	110000	B	57	9.6	mg/Kg	5	☼	6010B	Total/NA
Manganese	410		0.57	0.082	mg/Kg	1	☼	6010B	Total/NA
Nickel	13		0.57	0.17	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.33	J	0.57	0.33	mg/Kg	1	☼	6010B	Total/NA
Silver	0.18	J	0.28	0.073	mg/Kg	1	☼	6010B	Total/NA
Vanadium	17		0.28	0.067	mg/Kg	1	☼	6010B	Total/NA
Zinc	140		1.1	0.50	mg/Kg	1	☼	6010B	Total/NA
Potassium	1300		28	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	680		57	8.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.49	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0036	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	350		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	130		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.98		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.8	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.13	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.45		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.031		0.019	0.0064	mg/Kg	1	☼	7471B	Total/NA
pH	8.4		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2947V-17-B15 (0-5)

Lab Sample ID: 500-153334-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.0071	J *	0.038	0.0064	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.039		0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.056		0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.090		0.038	0.0082	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.048		0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.031	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.067		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.011	J	0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.12	*	0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.035	J	0.038	0.0099	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.046		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.082		0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.38	J B F1	1.1	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.3		0.54	0.18	mg/Kg	1	☼	6010B	Total/NA
Barium	130	F1 F2	0.54	0.062	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.65	F1	0.22	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.17	B F1	0.11	0.019	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	10	F1 F2	0.27	0.071	mg/Kg	1	☼	6010B	Total/NA
Copper	14	B	0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	16000		11	5.6	mg/Kg	1	☼	6010B	Total/NA
Lead	26	B	0.27	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	4000		5.4	2.7	mg/Kg	1	☼	6010B	Total/NA
Calcium	5000	B F2	11	1.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	660	F2	0.54	0.078	mg/Kg	1	☼	6010B	Total/NA
Nickel	18	F1 F2	0.54	0.16	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B15 (0-5) (Continued)

Lab Sample ID: 500-153334-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Selenium	0.56	F1	0.54	0.32	mg/Kg	1	☼	6010B	Total/NA
Silver	0.30	F1	0.27	0.070	mg/Kg	1	☼	6010B	Total/NA
Vanadium	29		0.27	0.064	mg/Kg	1	☼	6010B	Total/NA
Zinc	70		1.1	0.47	mg/Kg	1	☼	6010B	Total/NA
Potassium	1800	F1	27	9.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	510		54	8.0	mg/Kg	1	☼	6010B	Total/NA
Barium	0.53		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0021	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	140		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	67		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.26		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	5.0		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.15	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.61		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.025		0.018	0.0061	mg/Kg	1	☼	7471B	Total/NA
pH	7.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2947V-17-B15 (0-5) Dup

Lab Sample ID: 500-153334-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.0052	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.016	J*	0.038	0.0065	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.087		0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.11		0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.16		0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.044		0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.050		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.12		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.22	*	0.038	0.0072	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.044		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.091		0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.17		0.038	0.0077	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.36	J B	1.1	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.4		0.55	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	120		0.55	0.062	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.65		0.22	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.22	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.27	0.072	mg/Kg	1	☼	6010B	Total/NA
Copper	14	B	0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	16000		11	5.7	mg/Kg	1	☼	6010B	Total/NA
Lead	45	B	0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	4700		5.5	2.7	mg/Kg	1	☼	6010B	Total/NA
Calcium	6300	B	11	1.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	670		0.55	0.079	mg/Kg	1	☼	6010B	Total/NA
Nickel	18		0.55	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.64		0.55	0.32	mg/Kg	1	☼	6010B	Total/NA
Silver	0.29		0.27	0.070	mg/Kg	1	☼	6010B	Total/NA
Vanadium	28		0.27	0.064	mg/Kg	1	☼	6010B	Total/NA
Zinc	75		1.1	0.48	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B15 (0-5) Dup (Continued)

Lab Sample ID: 500-153334-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	1600		27	9.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	460		55	8.1	mg/Kg	1	☼	6010B	Total/NA
Barium	0.59		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0024	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	180		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	84		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.31		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.1		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.054	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.78		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.036		0.019	0.0062	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.20	J	0.48	0.16	mg/Kg	1	☼	9014	Total/NA
pH	7.8		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2947V-17-B14 (0-5)

Lab Sample ID: 500-153334-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.010	J*	0.039	0.0065	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.065		0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.089		0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.15		0.039	0.0085	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.044		0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.056		0.039	0.012	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.098	J	0.20	0.072	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.097		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.16	*	0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.039		0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.067		0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.15		0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Arsenic	13		2.8	0.95	mg/Kg	5	☼	6010B	Total/NA
Barium	130		2.8	0.32	mg/Kg	5	☼	6010B	Total/NA
Beryllium	1.2		1.1	0.26	mg/Kg	5	☼	6010B	Total/NA
Cadmium	0.18	J B	0.55	0.10	mg/Kg	5	☼	6010B	Total/NA
Chromium	27		2.8	1.4	mg/Kg	5	☼	6010B	Total/NA
Cobalt	11		0.28	0.073	mg/Kg	1	☼	6010B	Total/NA
Copper	25	B	2.8	0.78	mg/Kg	5	☼	6010B	Total/NA
Iron	30000		55	29	mg/Kg	5	☼	6010B	Total/NA
Lead	46	B	0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	15000		28	14	mg/Kg	5	☼	6010B	Total/NA
Calcium	22000	B	55	9.4	mg/Kg	5	☼	6010B	Total/NA
Manganese	830		2.8	0.40	mg/Kg	5	☼	6010B	Total/NA
Nickel	32		0.55	0.16	mg/Kg	1	☼	6010B	Total/NA
Vanadium	49		1.4	0.33	mg/Kg	5	☼	6010B	Total/NA
Zinc	95		1.1	0.49	mg/Kg	1	☼	6010B	Total/NA
Potassium	2200		140	49	mg/Kg	5	☼	6010B	Total/NA
Sodium	1200		280	41	mg/Kg	5	☼	6010B	Total/NA
Barium	0.56		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0021	J	0.0050	0.0020	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

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B14 (0-5) (Continued)

Lab Sample ID: 500-153334-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.30		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.0	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.53		0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.97		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.089		0.019	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	7.8		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2947V-17-B13 (0-5)

Lab Sample ID: 500-153334-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.023	J	0.040	0.0072	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.018	J	0.040	0.0053	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.074	*	0.040	0.0067	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.38		0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.52		0.040	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	1.2		0.040	0.0086	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.24		0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.32		0.040	0.012	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.11	J	0.20	0.073	mg/Kg	1	☼	8270D	Total/NA
Butyl benzyl phthalate	0.084	J	0.20	0.076	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.52		0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.050		0.040	0.0077	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	1.2	*	0.040	0.0074	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.022	J	0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.19		0.040	0.010	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.014	J	0.081	0.0074	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.012	J	0.040	0.0062	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.46		0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Pyrene	1.2		0.040	0.0080	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.50	J B	1.2	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.9		0.60	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	110		0.60	0.068	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.54		0.24	0.056	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.60	B	0.12	0.022	mg/Kg	1	☼	6010B	Total/NA
Chromium	21		0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.5		0.30	0.079	mg/Kg	1	☼	6010B	Total/NA
Copper	31	B	0.60	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	15000		12	6.2	mg/Kg	1	☼	6010B	Total/NA
Lead	270	B	0.30	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	39000		6.0	3.0	mg/Kg	1	☼	6010B	Total/NA
Calcium	79000	B	60	10	mg/Kg	5	☼	6010B	Total/NA
Manganese	520		0.60	0.087	mg/Kg	1	☼	6010B	Total/NA
Nickel	18		0.60	0.17	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.44	J	0.60	0.35	mg/Kg	1	☼	6010B	Total/NA
Silver	0.18	J	0.30	0.077	mg/Kg	1	☼	6010B	Total/NA
Vanadium	23		0.30	0.071	mg/Kg	1	☼	6010B	Total/NA
Zinc	160		1.2	0.53	mg/Kg	1	☼	6010B	Total/NA
Potassium	1200		30	11	mg/Kg	1	☼	6010B	Total/NA
Sodium	1100		60	8.9	mg/Kg	1	☼	6010B	Total/NA
Barium	0.69		0.50	0.050	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B13 (0-5) (Continued)

Lab Sample ID: 500-153334-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.0043	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	320		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	150		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.14		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.0		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.11	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.032		0.019	0.0063	mg/Kg	1	☼	7471B	Total/NA
pH	8.7		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2947V-17-B09 (0-5)

Lab Sample ID: 500-153334-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.37	J B	1.2	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.8		0.58	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	130		0.58	0.066	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.79		0.23	0.054	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.066	J B	0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Chromium	21		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.29	0.076	mg/Kg	1	☼	6010B	Total/NA
Copper	16	B	0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	22000		12	6.0	mg/Kg	1	☼	6010B	Total/NA
Lead	17	B	0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	3600		5.8	2.9	mg/Kg	1	☼	6010B	Total/NA
Calcium	2300	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	580		0.58	0.084	mg/Kg	1	☼	6010B	Total/NA
Nickel	21		0.58	0.17	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.86		0.58	0.34	mg/Kg	1	☼	6010B	Total/NA
Silver	0.31		0.29	0.075	mg/Kg	1	☼	6010B	Total/NA
Vanadium	40		0.29	0.069	mg/Kg	1	☼	6010B	Total/NA
Zinc	67		1.2	0.51	mg/Kg	1	☼	6010B	Total/NA
Potassium	1600		29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	960		58	8.6	mg/Kg	1	☼	6010B	Total/NA
Barium	0.47	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	43		5.0	0.50	mg/L	1		6010B	TCLP
Iron	0.25	J	0.40	0.20	mg/L	1		6010B	TCLP
Magnesium	10		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.028		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.1	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.056	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.032		0.019	0.0063	mg/Kg	1	☼	7471B	Total/NA
pH	7.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2947V-17-B08 (0-5)

Lab Sample ID: 500-153334-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.012	J	0.040	0.0072	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.0063	J	0.040	0.0053	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.047	*	0.040	0.0067	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.22		0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.26		0.040	0.0078	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B08 (0-5) (Continued)

Lab Sample ID: 500-153334-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	0.57		0.040	0.0087	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.15		0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.21		0.040	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.27		0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.67	*	0.040	0.0075	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.013	J	0.040	0.0057	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.11		0.040	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.25		0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.60		0.040	0.0080	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.29	J B	1.2	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.5		0.58	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	110		0.58	0.067	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.80		0.23	0.055	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.22	B	0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Chromium	21		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.29	0.077	mg/Kg	1	☼	6010B	Total/NA
Copper	23	B	0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	20000		12	6.1	mg/Kg	1	☼	6010B	Total/NA
Lead	40	B	0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	13000		5.8	2.9	mg/Kg	1	☼	6010B	Total/NA
Calcium	20000	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	480		0.58	0.085	mg/Kg	1	☼	6010B	Total/NA
Nickel	29		0.58	0.17	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.83		0.58	0.34	mg/Kg	1	☼	6010B	Total/NA
Silver	0.33		0.29	0.075	mg/Kg	1	☼	6010B	Total/NA
Vanadium	30		0.29	0.069	mg/Kg	1	☼	6010B	Total/NA
Zinc	110		1.2	0.51	mg/Kg	1	☼	6010B	Total/NA
Potassium	1500		29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	1000		58	8.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.72		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0037	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	300		5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	110		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.95		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	6.2		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.072	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	2.3		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.040		0.020	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	8.3		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2947V-17-B07 (0-5)

Lab Sample ID: 500-153334-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.015	J	0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.019	J	0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.025	J	0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.020	J	0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.022	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.030	J*	0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B07 (0-5) (Continued)

Lab Sample ID: 500-153334-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Indeno[1,2,3-cd]pyrene	0.015	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.012	J	0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.027	J	0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.58	J B	1.2	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.2		0.58	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	120		0.58	0.066	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.80		0.23	0.054	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.12	B	0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Chromium	20		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	15		0.29	0.076	mg/Kg	1	☼	6010B	Total/NA
Copper	20	B	0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	23000		12	6.0	mg/Kg	1	☼	6010B	Total/NA
Lead	21	B	0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	4400		5.8	2.9	mg/Kg	1	☼	6010B	Total/NA
Calcium	3700	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	540		0.58	0.084	mg/Kg	1	☼	6010B	Total/NA
Nickel	30		0.58	0.17	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.93		0.58	0.34	mg/Kg	1	☼	6010B	Total/NA
Silver	0.30		0.29	0.074	mg/Kg	1	☼	6010B	Total/NA
Vanadium	32		0.29	0.068	mg/Kg	1	☼	6010B	Total/NA
Zinc	80		1.2	0.51	mg/Kg	1	☼	6010B	Total/NA
Potassium	1400		29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	560		58	8.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.90		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0029	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	150		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	67		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.14		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.0	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.24	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.033		0.018	0.0061	mg/Kg	1	☼	7471B	Total/NA
pH	7.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2947V-17-B03 (0-5)

Lab Sample ID: 500-153334-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.013	J *	0.038	0.0064	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.053		0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.065		0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.10		0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.061		0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.037	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.073		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.011	J	0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.15	*	0.038	0.0072	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.042		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.061		0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.12		0.038	0.0077	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.37	J B	1.1	0.21	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B03 (0-5) (Continued)

Lab Sample ID: 500-153334-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.3		0.55	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	120		0.55	0.063	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.66		0.22	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.16	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	19		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.28	0.072	mg/Kg	1	☼	6010B	Total/NA
Copper	16	B	0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	18000		11	5.7	mg/Kg	1	☼	6010B	Total/NA
Lead	31	B	0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	10000		5.5	2.7	mg/Kg	1	☼	6010B	Total/NA
Calcium	15000	B	11	1.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	590		0.55	0.080	mg/Kg	1	☼	6010B	Total/NA
Nickel	19		0.55	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.34	J	0.55	0.32	mg/Kg	1	☼	6010B	Total/NA
Silver	0.30		0.28	0.071	mg/Kg	1	☼	6010B	Total/NA
Vanadium	33		0.28	0.065	mg/Kg	1	☼	6010B	Total/NA
Zinc	75		1.1	0.48	mg/Kg	1	☼	6010B	Total/NA
Potassium	1500		28	9.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	1100		55	8.1	mg/Kg	1	☼	6010B	Total/NA
Barium	0.65		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0026	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	150		5.0	0.50	mg/L	1		6010B	TCLP
Iron	0.22	J	0.40	0.20	mg/L	1		6010B	TCLP
Magnesium	55		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.36		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	4.7		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.033	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	3.1		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.036		0.020	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	8.2		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2947V-17-B02 (0-5)

Lab Sample ID: 500-153334-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.029	J	0.039	0.0070	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.015	J	0.039	0.0051	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.097	*	0.039	0.0065	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.44		0.039	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.56		0.039	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	1.1		0.039	0.0084	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.34		0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.35		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.15	J	0.20	0.071	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.55		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.066		0.039	0.0075	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	1.2	*	0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.026	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.24		0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.011	J	0.078	0.0071	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.012	J	0.039	0.0060	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B02 (0-5) (Continued)

Lab Sample ID: 500-153334-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.52		0.039	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	1.6		0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.36	J B	1.2	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.1		0.59	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	120		0.59	0.067	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.60		0.23	0.055	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.27	B	0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Chromium	29		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.0		0.29	0.077	mg/Kg	1	☼	6010B	Total/NA
Copper	24	B	0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	20000		12	6.1	mg/Kg	1	☼	6010B	Total/NA
Lead	45	B	0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	37000		5.9	2.9	mg/Kg	1	☼	6010B	Total/NA
Calcium	76000	B	59	10	mg/Kg	5	☼	6010B	Total/NA
Manganese	610		0.59	0.085	mg/Kg	1	☼	6010B	Total/NA
Nickel	19		0.59	0.17	mg/Kg	1	☼	6010B	Total/NA
Silver	0.26	J	0.29	0.076	mg/Kg	1	☼	6010B	Total/NA
Vanadium	29		0.29	0.069	mg/Kg	1	☼	6010B	Total/NA
Zinc	100		1.2	0.52	mg/Kg	1	☼	6010B	Total/NA
Potassium	1300		29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	1000		59	8.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.78		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0038	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	350		5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.027		0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	110		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.6		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.3		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.19	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.9		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.036	B	0.019	0.0064	mg/Kg	1	☼	7471B	Total/NA
pH	8.4		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2947V-17-B02 (0-5) Dup

Lab Sample ID: 500-153334-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.028	J	0.037	0.0068	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.018	J	0.037	0.0050	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.086		0.037	0.0063	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.50		0.037	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.65		0.037	0.0073	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	1.1		0.037	0.0081	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.29		0.037	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.46		0.037	0.011	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.11	J	0.19	0.069	mg/Kg	1	☼	8270D	Total/NA
Butyl benzyl phthalate	0.074	J	0.19	0.072	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.62		0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.072		0.037	0.0073	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	1.2		0.037	0.0070	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.022	J	0.037	0.0053	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B02 (0-5) Dup (Continued)

Lab Sample ID: 500-153334-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Indeno[1,2,3-cd]pyrene	0.25		0.037	0.0098	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.015	J	0.076	0.0069	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.013	J	0.037	0.0058	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.46		0.037	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	1.3		0.037	0.0075	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.81	J B	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.7		0.57	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	110		0.57	0.065	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.54		0.23	0.054	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.36	B	0.11	0.021	mg/Kg	1	☼	6010B	Total/NA
Chromium	23	B	0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.3		0.29	0.075	mg/Kg	1	☼	6010B	Total/NA
Copper	24	B	0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	15000		11	6.0	mg/Kg	1	☼	6010B	Total/NA
Lead	63		0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	32000		5.7	2.8	mg/Kg	1	☼	6010B	Total/NA
Calcium	69000	B	57	9.7	mg/Kg	5	☼	6010B	Total/NA
Manganese	560		0.57	0.083	mg/Kg	1	☼	6010B	Total/NA
Nickel	17		0.57	0.17	mg/Kg	1	☼	6010B	Total/NA
Silver	0.23	J	0.29	0.074	mg/Kg	1	☼	6010B	Total/NA
Vanadium	27		0.29	0.068	mg/Kg	1	☼	6010B	Total/NA
Zinc	110		1.1	0.50	mg/Kg	1	☼	6010B	Total/NA
Potassium	1300		29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	1100		57	8.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.77		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0027	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	360		5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.023	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	110		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	5.4		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.11	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.6		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.034		0.018	0.0059	mg/Kg	1	☼	7471B	Total/NA
pH	8.4		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2947V-17-B01 (0-5)

Lab Sample ID: 500-153334-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	0.0095	J	0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.013	J	0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.0089	J	0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.49	J B	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.2		0.57	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	140		0.57	0.065	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.90		0.23	0.053	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.077	J B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	20	B	0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	15		0.28	0.074	mg/Kg	1	☼	6010B	Total/NA
Copper	16	B	0.57	0.16	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B01 (0-5) (Continued)

Lab Sample ID: 500-153334-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	22000		11	5.9	mg/Kg	1	☼	6010B	Total/NA
Lead	18		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	3700		5.7	2.8	mg/Kg	1	☼	6010B	Total/NA
Calcium	2300	B	11	1.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	680		0.57	0.082	mg/Kg	1	☼	6010B	Total/NA
Nickel	33		0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.87		0.57	0.33	mg/Kg	1	☼	6010B	Total/NA
Silver	0.41		0.28	0.073	mg/Kg	1	☼	6010B	Total/NA
Vanadium	36		0.28	0.067	mg/Kg	1	☼	6010B	Total/NA
Zinc	77		1.1	0.50	mg/Kg	1	☼	6010B	Total/NA
Potassium	1600		28	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	1100		57	8.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.56		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	48		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	15		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.026		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.3	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.094	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.041		0.019	0.0063	mg/Kg	1	☼	7471B	Total/NA
pH	7.7		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2947V-17-B27 (0-5)

Lab Sample ID: 500-153334-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.013	J	0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.023	J	0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.029	J	0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.015	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.010	J	0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.032	J	0.038	0.0072	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.016	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.015	J	0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.021	J	0.038	0.0077	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.26	J B	1.2	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	11		0.59	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	93		0.59	0.067	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.77		0.23	0.055	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.17	B	0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Chromium	18	B	0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	15		0.29	0.077	mg/Kg	1	☼	6010B	Total/NA
Copper	19	B	0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	24000		12	6.1	mg/Kg	1	☼	6010B	Total/NA
Lead	25		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	4000		5.9	2.9	mg/Kg	1	☼	6010B	Total/NA
Calcium	3200	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	640		0.59	0.085	mg/Kg	1	☼	6010B	Total/NA
Nickel	40		0.59	0.17	mg/Kg	1	☼	6010B	Total/NA
Silver	0.40		0.29	0.076	mg/Kg	1	☼	6010B	Total/NA
Vanadium	30		0.29	0.069	mg/Kg	1	☼	6010B	Total/NA
Zinc	93		1.2	0.51	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B27 (0-5) (Continued)

Lab Sample ID: 500-153334-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	1900		29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	360		59	8.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.58		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	100		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	42		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.12		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.7	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.029	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.036		0.019	0.0064	mg/Kg	1	☼	7471B	Total/NA
pH	7.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2947V-17-B26 (0-5)

Lab Sample ID: 500-153334-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.10		0.042	0.0075	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.094		0.042	0.0055	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.24		0.042	0.0070	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.48		0.042	0.0056	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.47		0.042	0.0081	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.57		0.042	0.0090	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.16		0.042	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.25		0.042	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.47		0.042	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.053		0.042	0.0081	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	1.1		0.042	0.0078	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.12		0.042	0.0059	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.17		0.042	0.011	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.016	J	0.084	0.0077	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.95		0.042	0.0058	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.97		0.042	0.0083	mg/Kg	1	☼	8270D	Total/NA
Arsenic	12		0.60	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	130		0.60	0.068	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.81		0.24	0.056	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.24	B	0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Chromium	20	B	0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Cobalt	17		0.30	0.078	mg/Kg	1	☼	6010B	Total/NA
Copper	19	B	0.60	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	26000		12	6.2	mg/Kg	1	☼	6010B	Total/NA
Lead	21		0.30	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	3500		6.0	3.0	mg/Kg	1	☼	6010B	Total/NA
Calcium	2200	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	1200		0.60	0.086	mg/Kg	1	☼	6010B	Total/NA
Nickel	36		0.60	0.17	mg/Kg	1	☼	6010B	Total/NA
Silver	0.45		0.30	0.077	mg/Kg	1	☼	6010B	Total/NA
Vanadium	33		0.30	0.070	mg/Kg	1	☼	6010B	Total/NA
Zinc	94		1.2	0.52	mg/Kg	1	☼	6010B	Total/NA
Potassium	2100		30	11	mg/Kg	1	☼	6010B	Total/NA
Sodium	750		60	8.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.46	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	65		5.0	0.50	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B26 (0-5) (Continued)

Lab Sample ID: 500-153334-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	22		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.087		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.4		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.18	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.033		0.019	0.0064	mg/Kg	1	☼	7471B	Total/NA
pH	7.9		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2947V-17-B25 (0-5)

Lab Sample ID: 500-153334-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.012	J	0.041	0.0055	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.013	J	0.041	0.0079	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.020	J	0.041	0.0088	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.014	J	0.041	0.013	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.015	J	0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.022	J	0.041	0.0076	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.011	J	0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.011	J	0.041	0.0057	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.020	J	0.041	0.0081	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.53	J B	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.9		0.60	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	91		0.60	0.069	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.67		0.24	0.056	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.13	B	0.12	0.022	mg/Kg	1	☼	6010B	Total/NA
Chromium	19	B	0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.30	0.079	mg/Kg	1	☼	6010B	Total/NA
Copper	18	B	0.60	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	22000		12	6.3	mg/Kg	1	☼	6010B	Total/NA
Lead	32		0.30	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	4600		6.0	3.0	mg/Kg	1	☼	6010B	Total/NA
Calcium	4300	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	530		0.60	0.088	mg/Kg	1	☼	6010B	Total/NA
Nickel	29		0.60	0.18	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.53	J	0.60	0.36	mg/Kg	1	☼	6010B	Total/NA
Silver	0.32		0.30	0.078	mg/Kg	1	☼	6010B	Total/NA
Vanadium	29		0.30	0.071	mg/Kg	1	☼	6010B	Total/NA
Zinc	84		1.2	0.53	mg/Kg	1	☼	6010B	Total/NA
Potassium	1600		30	11	mg/Kg	1	☼	6010B	Total/NA
Sodium	310		60	8.9	mg/Kg	1	☼	6010B	Total/NA
Barium	0.48	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	72		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	26		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.036		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.2		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.027	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.032		0.020	0.0066	mg/Kg	1	☼	7471B	Total/NA
pH	7.9		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Sample Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-153334-1	2947V-17-B04 (0-5)	Solid	10/17/18 10:25	10/17/18 16:40
500-153334-2	2947V-17-B05 (0-5)	Solid	10/17/18 10:00	10/17/18 16:40
500-153334-3	2947V-17-B06 (0-5)	Solid	10/17/18 09:50	10/17/18 16:40
500-153334-4	2947V-17-B10 (0-5)	Solid	10/17/18 09:35	10/17/18 16:40
500-153334-5	2947V-17-B11 (0-5)	Solid	10/17/18 09:25	10/17/18 16:40
500-153334-6	2947V-17-B12 (0-5)	Solid	10/17/18 09:10	10/17/18 16:40
500-153334-7	2947V-17-B36 (0-5)	Solid	10/17/18 14:45	10/17/18 16:40
500-153334-8	2947V-17-B37 (0-5)	Solid	10/17/18 14:30	10/17/18 16:40
500-153334-9	2947V-17-B38 (0-5)	Solid	10/17/18 14:15	10/17/18 16:40
500-153334-10	2947V-17-B39 (0-2)	Solid	10/17/18 14:00	10/17/18 16:40
500-153334-11	2947V-17-B40 (0-4)	Solid	10/17/18 13:40	10/17/18 16:40
500-153334-12	2947V-17-B15 (0-5)	Solid	10/17/18 09:20	10/17/18 16:40
500-153334-13	2947V-17-B15 (0-5) Dup	Solid	10/17/18 09:25	10/17/18 16:40
500-153334-14	2947V-17-B14 (0-5)	Solid	10/17/18 09:45	10/17/18 16:40
500-153334-15	2947V-17-B13 (0-5)	Solid	10/17/18 10:00	10/17/18 16:40
500-153334-16	2947V-17-B09 (0-5)	Solid	10/17/18 10:20	10/17/18 16:40
500-153334-17	2947V-17-B08 (0-5)	Solid	10/17/18 10:40	10/17/18 16:40
500-153334-18	2947V-17-B07 (0-5)	Solid	10/17/18 10:55	10/17/18 16:40
500-153334-19	2947V-17-B03 (0-5)	Solid	10/17/18 11:15	10/17/18 16:40
500-153334-20	2947V-17-B02 (0-5)	Solid	10/17/18 11:35	10/17/18 16:40
500-153334-21	2947V-17-B02 (0-5) Dup	Solid	10/17/18 11:40	10/17/18 16:40
500-153334-22	2947V-17-B01 (0-5)	Solid	10/17/18 12:00	10/17/18 16:40
500-153334-23	2947V-17-B27 (0-5)	Solid	10/17/18 14:10	10/17/18 16:40
500-153334-24	2947V-17-B26 (0-5)	Solid	10/17/18 14:35	10/17/18 16:40
500-153334-25	2947V-17-B25 (0-5)	Solid	10/17/18 15:00	10/17/18 16:40



Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B04 (0-5)

Lab Sample ID: 500-153334-1

Date Collected: 10/17/18 10:25

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 79.1

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	☼	10/18/18 07:15	10/27/18 09:43	1
Benzene	<0.00049		0.0019	0.00049	mg/Kg	☼	10/18/18 07:15	10/27/18 09:43	1
Bromodichloromethane	<0.00039		0.0019	0.00039	mg/Kg	☼	10/18/18 07:15	10/27/18 09:43	1
Bromoform	<0.00056		0.0019	0.00056	mg/Kg	☼	10/18/18 07:15	10/27/18 09:43	1
Bromomethane	<0.0018	*	0.0048	0.0018	mg/Kg	☼	10/18/18 07:15	10/27/18 09:43	1
2-Butanone (MEK)	<0.0021		0.0048	0.0021	mg/Kg	☼	10/18/18 07:15	10/27/18 09:43	1
Carbon disulfide	<0.00099		0.0048	0.00099	mg/Kg	☼	10/18/18 07:15	10/27/18 09:43	1
Carbon tetrachloride	<0.00055		0.0019	0.00055	mg/Kg	☼	10/18/18 07:15	10/27/18 09:43	1
Chlorobenzene	<0.00070		0.0019	0.00070	mg/Kg	☼	10/18/18 07:15	10/27/18 09:43	1
Chloroethane	<0.0014	*	0.0048	0.0014	mg/Kg	☼	10/18/18 07:15	10/27/18 09:43	1
Chloroform	<0.00066		0.0019	0.00066	mg/Kg	☼	10/18/18 07:15	10/27/18 09:43	1
Chloromethane	<0.0019		0.0048	0.0019	mg/Kg	☼	10/18/18 07:15	10/27/18 09:43	1
cis-1,2-Dichloroethene	<0.00053		0.0019	0.00053	mg/Kg	☼	10/18/18 07:15	10/27/18 09:43	1
cis-1,3-Dichloropropene	<0.00058		0.0019	0.00058	mg/Kg	☼	10/18/18 07:15	10/27/18 09:43	1
Dibromochloromethane	<0.00062		0.0019	0.00062	mg/Kg	☼	10/18/18 07:15	10/27/18 09:43	1
1,1-Dichloroethane	<0.00065		0.0019	0.00065	mg/Kg	☼	10/18/18 07:15	10/27/18 09:43	1
1,2-Dichloroethane	<0.0015		0.0048	0.0015	mg/Kg	☼	10/18/18 07:15	10/27/18 09:43	1
1,1-Dichloroethene	<0.00066		0.0019	0.00066	mg/Kg	☼	10/18/18 07:15	10/27/18 09:43	1
1,2-Dichloropropane	<0.00049		0.0019	0.00049	mg/Kg	☼	10/18/18 07:15	10/27/18 09:43	1
1,3-Dichloropropene, Total	<0.00067		0.0019	0.00067	mg/Kg	☼	10/18/18 07:15	10/27/18 09:43	1
Ethylbenzene	<0.00091		0.0019	0.00091	mg/Kg	☼	10/18/18 07:15	10/27/18 09:43	1
2-Hexanone	<0.0015		0.0048	0.0015	mg/Kg	☼	10/18/18 07:15	10/27/18 09:43	1
Methylene Chloride	<0.0019		0.0048	0.0019	mg/Kg	☼	10/18/18 07:15	10/27/18 09:43	1
4-Methyl-2-pentanone (MIBK)	<0.0014		0.0048	0.0014	mg/Kg	☼	10/18/18 07:15	10/27/18 09:43	1
Methyl tert-butyl ether	<0.00056		0.0019	0.00056	mg/Kg	☼	10/18/18 07:15	10/27/18 09:43	1
Styrene	<0.00058		0.0019	0.00058	mg/Kg	☼	10/18/18 07:15	10/27/18 09:43	1
1,1,2,2-Tetrachloroethane	<0.00061		0.0019	0.00061	mg/Kg	☼	10/18/18 07:15	10/27/18 09:43	1
Tetrachloroethene	<0.00065		0.0019	0.00065	mg/Kg	☼	10/18/18 07:15	10/27/18 09:43	1
Toluene	<0.00048		0.0019	0.00048	mg/Kg	☼	10/18/18 07:15	10/27/18 09:43	1
trans-1,2-Dichloroethene	<0.00085		0.0019	0.00085	mg/Kg	☼	10/18/18 07:15	10/27/18 09:43	1
trans-1,3-Dichloropropene	<0.00067		0.0019	0.00067	mg/Kg	☼	10/18/18 07:15	10/27/18 09:43	1
1,1,1-Trichloroethane	<0.00064		0.0019	0.00064	mg/Kg	☼	10/18/18 07:15	10/27/18 09:43	1
1,1,2-Trichloroethane	<0.00082		0.0019	0.00082	mg/Kg	☼	10/18/18 07:15	10/27/18 09:43	1
Trichloroethene	<0.00065		0.0019	0.00065	mg/Kg	☼	10/18/18 07:15	10/27/18 09:43	1
Vinyl acetate	<0.0017		0.0048	0.0017	mg/Kg	☼	10/18/18 07:15	10/27/18 09:43	1
Vinyl chloride	<0.00085		0.0019	0.00085	mg/Kg	☼	10/18/18 07:15	10/27/18 09:43	1
Xylenes, Total	<0.00061		0.0038	0.00061	mg/Kg	☼	10/18/18 07:15	10/27/18 09:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		75 - 131	10/18/18 07:15	10/27/18 09:43	1
Dibromofluoromethane	101		75 - 126	10/18/18 07:15	10/27/18 09:43	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	10/18/18 07:15	10/27/18 09:43	1
Toluene-d8 (Surr)	96		75 - 124	10/18/18 07:15	10/27/18 09:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0075		0.041	0.0075	mg/Kg	☼	10/24/18 07:29	10/27/18 13:50	1
Acenaphthylene	<0.0055		0.041	0.0055	mg/Kg	☼	10/24/18 07:29	10/27/18 13:50	1
Anthracene	0.014	J *	0.041	0.0070	mg/Kg	☼	10/24/18 07:29	10/27/18 13:50	1
Benzo[a]anthracene	0.083		0.041	0.0056	mg/Kg	☼	10/24/18 07:29	10/27/18 13:50	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B04 (0-5)

Lab Sample ID: 500-153334-1

Date Collected: 10/17/18 10:25

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 79.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.10		0.041	0.0081	mg/Kg	☼	10/24/18 07:29	10/27/18 13:50	1
Benzo[b]fluoranthene	0.20	F1	0.041	0.0090	mg/Kg	☼	10/24/18 07:29	10/27/18 13:50	1
Benzo[g,h,i]perylene	0.060		0.041	0.013	mg/Kg	☼	10/24/18 07:29	10/27/18 13:50	1
Benzo[k]fluoranthene	0.067	F1	0.041	0.012	mg/Kg	☼	10/24/18 07:29	10/27/18 13:50	1
Bis(2-chloroethoxy)methane	<0.042		0.21	0.042	mg/Kg	☼	10/24/18 07:29	10/27/18 13:50	1
Bis(2-chloroethyl)ether	<0.062	F1	0.21	0.062	mg/Kg	☼	10/24/18 07:29	10/27/18 13:50	1
Bis(2-ethylhexyl) phthalate	<0.076		0.21	0.076	mg/Kg	☼	10/24/18 07:29	10/27/18 13:50	1
4-Bromophenyl phenyl ether	<0.055		0.21	0.055	mg/Kg	☼	10/24/18 07:29	10/27/18 13:50	1
Butyl benzyl phthalate	<0.079		0.21	0.079	mg/Kg	☼	10/24/18 07:29	10/27/18 13:50	1
Carbazole	<0.10		0.21	0.10	mg/Kg	☼	10/24/18 07:29	10/27/18 13:50	1
4-Chloroaniline	<0.20		0.84	0.20	mg/Kg	☼	10/24/18 07:29	10/27/18 13:50	1
4-Chloro-3-methylphenol	<0.14	F1	0.41	0.14	mg/Kg	☼	10/24/18 07:29	10/27/18 13:50	1
2-Chloronaphthalene	<0.046		0.21	0.046	mg/Kg	☼	10/24/18 07:29	10/27/18 13:50	1
2-Chlorophenol	<0.071	F1	0.21	0.071	mg/Kg	☼	10/24/18 07:29	10/27/18 13:50	1
4-Chlorophenyl phenyl ether	<0.049		0.21	0.049	mg/Kg	☼	10/24/18 07:29	10/27/18 13:50	1
Chrysene	0.11		0.041	0.011	mg/Kg	☼	10/24/18 07:29	10/27/18 13:50	1
Dibenz(a,h)anthracene	<0.0080		0.041	0.0080	mg/Kg	☼	10/24/18 07:29	10/27/18 13:50	1
Dibenzofuran	<0.049		0.21	0.049	mg/Kg	☼	10/24/18 07:29	10/27/18 13:50	1
1,2-Dichlorobenzene	<0.050		0.21	0.050	mg/Kg	☼	10/24/18 07:29	10/27/18 13:50	1
1,3-Dichlorobenzene	<0.047		0.21	0.047	mg/Kg	☼	10/24/18 07:29	10/27/18 13:50	1
1,4-Dichlorobenzene	<0.053		0.21	0.053	mg/Kg	☼	10/24/18 07:29	10/27/18 13:50	1
3,3'-Dichlorobenzidine	<0.058		0.21	0.058	mg/Kg	☼	10/24/18 07:29	10/27/18 13:50	1
2,4-Dichlorophenol	<0.099		0.41	0.099	mg/Kg	☼	10/24/18 07:29	10/27/18 13:50	1
Diethyl phthalate	<0.071		0.21	0.071	mg/Kg	☼	10/24/18 07:29	10/27/18 13:50	1
2,4-Dimethylphenol	<0.16		0.41	0.16	mg/Kg	☼	10/24/18 07:29	10/27/18 13:50	1
Dimethyl phthalate	<0.054		0.21	0.054	mg/Kg	☼	10/24/18 07:29	10/27/18 13:50	1
Di-n-butyl phthalate	<0.063		0.21	0.063	mg/Kg	☼	10/24/18 07:29	10/27/18 13:50	1
4,6-Dinitro-2-methylphenol	<0.33		0.84	0.33	mg/Kg	☼	10/24/18 07:29	10/27/18 13:50	1
2,4-Dinitrophenol	<0.73		0.84	0.73	mg/Kg	☼	10/24/18 07:29	10/27/18 13:50	1
2,4-Dinitrotoluene	<0.066		0.21	0.066	mg/Kg	☼	10/24/18 07:29	10/27/18 13:50	1
2,6-Dinitrotoluene	<0.082		0.21	0.082	mg/Kg	☼	10/24/18 07:29	10/27/18 13:50	1
Di-n-octyl phthalate	<0.068		0.21	0.068	mg/Kg	☼	10/24/18 07:29	10/27/18 13:50	1
Fluoranthene	0.18	*	0.041	0.0077	mg/Kg	☼	10/24/18 07:29	10/27/18 13:50	1
Fluorene	<0.0059		0.041	0.0059	mg/Kg	☼	10/24/18 07:29	10/27/18 13:50	1
Hexachlorobenzene	<0.0096		0.084	0.0096	mg/Kg	☼	10/24/18 07:29	10/27/18 13:50	1
Hexachlorobutadiene	<0.065		0.21	0.065	mg/Kg	☼	10/24/18 07:29	10/27/18 13:50	1
Hexachlorocyclopentadiene	<0.24	F1	0.84	0.24	mg/Kg	☼	10/24/18 07:29	10/27/18 13:50	1
Hexachloroethane	<0.063		0.21	0.063	mg/Kg	☼	10/24/18 07:29	10/27/18 13:50	1
Indeno[1,2,3-cd]pyrene	0.057		0.041	0.011	mg/Kg	☼	10/24/18 07:29	10/27/18 13:50	1
Isophorone	<0.047		0.21	0.047	mg/Kg	☼	10/24/18 07:29	10/27/18 13:50	1
2-Methylnaphthalene	<0.0077		0.084	0.0077	mg/Kg	☼	10/24/18 07:29	10/27/18 13:50	1
2-Methylphenol	<0.067		0.21	0.067	mg/Kg	☼	10/24/18 07:29	10/27/18 13:50	1
3 & 4 Methylphenol	<0.069	F1	0.21	0.069	mg/Kg	☼	10/24/18 07:29	10/27/18 13:50	1
Naphthalene	<0.0064		0.041	0.0064	mg/Kg	☼	10/24/18 07:29	10/27/18 13:50	1
2-Nitroaniline	<0.056	F1	0.21	0.056	mg/Kg	☼	10/24/18 07:29	10/27/18 13:50	1
3-Nitroaniline	<0.13		0.41	0.13	mg/Kg	☼	10/24/18 07:29	10/27/18 13:50	1
4-Nitroaniline	<0.17		0.41	0.17	mg/Kg	☼	10/24/18 07:29	10/27/18 13:50	1
Nitrobenzene	<0.010		0.041	0.010	mg/Kg	☼	10/24/18 07:29	10/27/18 13:50	1
2-Nitrophenol	<0.098		0.41	0.098	mg/Kg	☼	10/24/18 07:29	10/27/18 13:50	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B04 (0-5)

Lab Sample ID: 500-153334-1

Date Collected: 10/17/18 10:25

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 79.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.40		0.84	0.40	mg/Kg	☼	10/24/18 07:29	10/27/18 13:50	1
N-Nitrosodi-n-propylamine	<0.051		0.084	0.051	mg/Kg	☼	10/24/18 07:29	10/27/18 13:50	1
N-Nitrosodiphenylamine	<0.049		0.21	0.049	mg/Kg	☼	10/24/18 07:29	10/27/18 13:50	1
2,2'-oxybis[1-chloropropane]	<0.048		0.21	0.048	mg/Kg	☼	10/24/18 07:29	10/27/18 13:50	1
Pentachlorophenol	<0.67	F1	0.84	0.67	mg/Kg	☼	10/24/18 07:29	10/27/18 13:50	1
Phenanthrene	0.087		0.041	0.0058	mg/Kg	☼	10/24/18 07:29	10/27/18 13:50	1
Phenol	<0.092	F1	0.21	0.092	mg/Kg	☼	10/24/18 07:29	10/27/18 13:50	1
Pyrene	0.16		0.041	0.0083	mg/Kg	☼	10/24/18 07:29	10/27/18 13:50	1
1,2,4-Trichlorobenzene	<0.045		0.21	0.045	mg/Kg	☼	10/24/18 07:29	10/27/18 13:50	1
2,4,5-Trichlorophenol	<0.095	*	0.41	0.095	mg/Kg	☼	10/24/18 07:29	10/27/18 13:50	1
2,4,6-Trichlorophenol	<0.14		0.41	0.14	mg/Kg	☼	10/24/18 07:29	10/27/18 13:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	81		43 - 145	10/24/18 07:29	10/27/18 13:50	1
2-Fluorophenol	134		31 - 166	10/24/18 07:29	10/27/18 13:50	1
Nitrobenzene-d5	107		37 - 147	10/24/18 07:29	10/27/18 13:50	1
Phenol-d5	132		30 - 153	10/24/18 07:29	10/27/18 13:50	1
Terphenyl-d14	113		42 - 157	10/24/18 07:29	10/27/18 13:50	1
2,4,6-Tribromophenol	83		31 - 143	10/24/18 07:29	10/27/18 13:50	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.64	J B	1.2	0.23	mg/Kg	☼	10/24/18 08:16	10/24/18 19:19	1
Arsenic	9.5		0.59	0.20	mg/Kg	☼	10/24/18 08:16	10/24/18 19:19	1
Barium	110		0.59	0.067	mg/Kg	☼	10/24/18 08:16	10/24/18 19:19	1
Beryllium	0.85		0.24	0.055	mg/Kg	☼	10/24/18 08:16	10/24/18 19:19	1
Cadmium	0.14	B	0.12	0.021	mg/Kg	☼	10/24/18 08:16	10/24/18 19:19	1
Chromium	24		0.59	0.29	mg/Kg	☼	10/24/18 08:16	10/24/18 19:19	1
Cobalt	12		0.29	0.077	mg/Kg	☼	10/24/18 08:16	10/24/18 19:19	1
Copper	23	B	0.59	0.16	mg/Kg	☼	10/24/18 08:16	10/24/18 19:19	1
Iron	23000		12	6.1	mg/Kg	☼	10/24/18 08:16	10/24/18 19:19	1
Lead	37	B	0.29	0.14	mg/Kg	☼	10/24/18 08:16	10/24/18 19:19	1
Magnesium	7200		5.9	2.9	mg/Kg	☼	10/24/18 08:16	10/24/18 19:19	1
Calcium	8700	B	12	2.0	mg/Kg	☼	10/24/18 08:16	10/24/18 19:19	1
Manganese	540		0.59	0.085	mg/Kg	☼	10/24/18 08:16	10/24/18 19:19	1
Nickel	26		0.59	0.17	mg/Kg	☼	10/24/18 08:16	10/24/18 19:19	1
Selenium	0.81		0.59	0.35	mg/Kg	☼	10/24/18 08:16	10/24/18 19:19	1
Silver	0.28	J	0.29	0.076	mg/Kg	☼	10/24/18 08:16	10/24/18 19:19	1
Thallium	<0.29		0.59	0.29	mg/Kg	☼	10/24/18 08:16	10/24/18 19:19	1
Vanadium	40		0.29	0.069	mg/Kg	☼	10/24/18 08:16	10/24/18 19:19	1
Zinc	81		1.2	0.52	mg/Kg	☼	10/24/18 08:16	10/24/18 19:19	1
Potassium	2000		29	10	mg/Kg	☼	10/24/18 08:16	10/24/18 19:19	1
Sodium	1800		59	8.7	mg/Kg	☼	10/24/18 08:16	10/24/18 19:19	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		10/25/18 09:50	10/25/18 23:04	1
Barium	0.84		0.50	0.050	mg/L		10/25/18 09:50	10/25/18 23:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/25/18 09:50	10/25/18 23:04	1
Cadmium	0.0036	J	0.0050	0.0020	mg/L		10/25/18 09:50	10/25/18 23:04	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B04 (0-5)

Lab Sample ID: 500-153334-1

Date Collected: 10/17/18 10:25

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 79.1

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		10/25/18 09:50	10/25/18 23:04	1
Chromium	0.046	J B	0.070	0.010	mg/L		10/25/18 09:50	10/25/18 23:04	1
Cobalt	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/25/18 23:04	1
Copper	0.013	J	0.025	0.010	mg/L		10/25/18 09:50	10/25/18 23:04	1
Iron	0.20	J	0.40	0.20	mg/L		10/25/18 09:50	10/25/18 23:04	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/25/18 09:50	10/25/18 23:04	1
Magnesium	120		2.5	0.50	mg/L		10/25/18 09:50	10/25/18 23:04	1
Manganese	1.1		0.025	0.010	mg/L		10/25/18 09:50	10/25/18 23:04	1
Nickel	0.014	J	0.025	0.010	mg/L		10/25/18 09:50	10/25/18 23:04	1
Potassium	7.2		2.5	0.50	mg/L		10/25/18 09:50	10/25/18 23:04	1
Selenium	<0.020		0.050	0.020	mg/L		10/25/18 09:50	10/25/18 23:04	1
Silver	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/25/18 23:04	1
Vanadium	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/25/18 23:04	1
Zinc	0.60		0.50	0.020	mg/L		10/25/18 09:50	10/25/18 23:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	2.7		0.025	0.010	mg/L		10/25/18 15:13	10/26/18 16:32	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		10/25/18 09:50	10/25/18 19:19	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/25/18 09:50	10/25/18 19:19	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		10/25/18 12:40	10/26/18 08:18	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.043		0.021	0.0068	mg/Kg	☼	10/23/18 15:50	10/24/18 09:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.21		0.60	0.21	mg/Kg	☼	10/26/18 11:10	10/26/18 15:12	1
pH	8.2		0.2	0.2	SU			10/24/18 14:38	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B05 (0-5)

Lab Sample ID: 500-153334-2

Date Collected: 10/17/18 10:00

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 86.2

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	☼	10/18/18 07:15	10/27/18 10:09	1
Benzene	<0.00050		0.0020	0.00050	mg/Kg	☼	10/18/18 07:15	10/27/18 10:09	1
Bromodichloromethane	<0.00040		0.0020	0.00040	mg/Kg	☼	10/18/18 07:15	10/27/18 10:09	1
Bromoform	<0.00057		0.0020	0.00057	mg/Kg	☼	10/18/18 07:15	10/27/18 10:09	1
Bromomethane	<0.0018	*	0.0049	0.0018	mg/Kg	☼	10/18/18 07:15	10/27/18 10:09	1
2-Butanone (MEK)	<0.0022		0.0049	0.0022	mg/Kg	☼	10/18/18 07:15	10/27/18 10:09	1
Carbon disulfide	<0.0010		0.0049	0.0010	mg/Kg	☼	10/18/18 07:15	10/27/18 10:09	1
Carbon tetrachloride	<0.00057		0.0020	0.00057	mg/Kg	☼	10/18/18 07:15	10/27/18 10:09	1
Chlorobenzene	<0.00072		0.0020	0.00072	mg/Kg	☼	10/18/18 07:15	10/27/18 10:09	1
Chloroethane	<0.0014	*	0.0049	0.0014	mg/Kg	☼	10/18/18 07:15	10/27/18 10:09	1
Chloroform	<0.00068		0.0020	0.00068	mg/Kg	☼	10/18/18 07:15	10/27/18 10:09	1
Chloromethane	<0.0020		0.0049	0.0020	mg/Kg	☼	10/18/18 07:15	10/27/18 10:09	1
cis-1,2-Dichloroethene	<0.00055		0.0020	0.00055	mg/Kg	☼	10/18/18 07:15	10/27/18 10:09	1
cis-1,3-Dichloropropene	<0.00059		0.0020	0.00059	mg/Kg	☼	10/18/18 07:15	10/27/18 10:09	1
Dibromochloromethane	<0.00064		0.0020	0.00064	mg/Kg	☼	10/18/18 07:15	10/27/18 10:09	1
1,1-Dichloroethane	<0.00067		0.0020	0.00067	mg/Kg	☼	10/18/18 07:15	10/27/18 10:09	1
1,2-Dichloroethane	<0.0015		0.0049	0.0015	mg/Kg	☼	10/18/18 07:15	10/27/18 10:09	1
1,1-Dichloroethene	<0.00067		0.0020	0.00067	mg/Kg	☼	10/18/18 07:15	10/27/18 10:09	1
1,2-Dichloropropane	<0.00051		0.0020	0.00051	mg/Kg	☼	10/18/18 07:15	10/27/18 10:09	1
1,3-Dichloropropene, Total	<0.00069		0.0020	0.00069	mg/Kg	☼	10/18/18 07:15	10/27/18 10:09	1
Ethylbenzene	<0.00094		0.0020	0.00094	mg/Kg	☼	10/18/18 07:15	10/27/18 10:09	1
2-Hexanone	<0.0015		0.0049	0.0015	mg/Kg	☼	10/18/18 07:15	10/27/18 10:09	1
Methylene Chloride	<0.0019		0.0049	0.0019	mg/Kg	☼	10/18/18 07:15	10/27/18 10:09	1
4-Methyl-2-pentanone (MIBK)	<0.0014		0.0049	0.0014	mg/Kg	☼	10/18/18 07:15	10/27/18 10:09	1
Methyl tert-butyl ether	<0.00057		0.0020	0.00057	mg/Kg	☼	10/18/18 07:15	10/27/18 10:09	1
Styrene	<0.00059		0.0020	0.00059	mg/Kg	☼	10/18/18 07:15	10/27/18 10:09	1
1,1,2,2-Tetrachloroethane	<0.00062		0.0020	0.00062	mg/Kg	☼	10/18/18 07:15	10/27/18 10:09	1
Tetrachloroethene	<0.00067		0.0020	0.00067	mg/Kg	☼	10/18/18 07:15	10/27/18 10:09	1
Toluene	<0.00049		0.0020	0.00049	mg/Kg	☼	10/18/18 07:15	10/27/18 10:09	1
trans-1,2-Dichloroethene	<0.00087		0.0020	0.00087	mg/Kg	☼	10/18/18 07:15	10/27/18 10:09	1
trans-1,3-Dichloropropene	<0.00069		0.0020	0.00069	mg/Kg	☼	10/18/18 07:15	10/27/18 10:09	1
1,1,1-Trichloroethane	<0.00066		0.0020	0.00066	mg/Kg	☼	10/18/18 07:15	10/27/18 10:09	1
1,1,2-Trichloroethane	<0.00084		0.0020	0.00084	mg/Kg	☼	10/18/18 07:15	10/27/18 10:09	1
Trichloroethene	<0.00066		0.0020	0.00066	mg/Kg	☼	10/18/18 07:15	10/27/18 10:09	1
Vinyl acetate	<0.0017		0.0049	0.0017	mg/Kg	☼	10/18/18 07:15	10/27/18 10:09	1
Vinyl chloride	<0.00087		0.0020	0.00087	mg/Kg	☼	10/18/18 07:15	10/27/18 10:09	1
Xylenes, Total	<0.00063		0.0039	0.00063	mg/Kg	☼	10/18/18 07:15	10/27/18 10:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		75 - 131	10/18/18 07:15	10/27/18 10:09	1
Dibromofluoromethane	103		75 - 126	10/18/18 07:15	10/27/18 10:09	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	10/18/18 07:15	10/27/18 10:09	1
Toluene-d8 (Surr)	95		75 - 124	10/18/18 07:15	10/27/18 10:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.016	J	0.038	0.0069	mg/Kg	☼	10/24/18 07:29	10/27/18 16:42	1
Acenaphthylene	0.011	J	0.038	0.0050	mg/Kg	☼	10/24/18 07:29	10/27/18 16:42	1
Anthracene	0.068	*	0.038	0.0064	mg/Kg	☼	10/24/18 07:29	10/27/18 16:42	1
Benzo[a]anthracene	0.29		0.038	0.0051	mg/Kg	☼	10/24/18 07:29	10/27/18 16:42	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B05 (0-5)

Lab Sample ID: 500-153334-2

Date Collected: 10/17/18 10:00

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 86.2

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	0.0074	mg/Kg	☼	10/24/18 07:29	10/27/18 16:42	1
Benzo[b]fluoranthene	0.75		0.038	0.0082	mg/Kg	☼	10/24/18 07:29	10/27/18 16:42	1
Benzo[g,h,i]perylene	0.14		0.038	0.012	mg/Kg	☼	10/24/18 07:29	10/27/18 16:42	1
Benzo[k]fluoranthene	0.25		0.038	0.011	mg/Kg	☼	10/24/18 07:29	10/27/18 16:42	1
Bis(2-chloroethoxy)methane	<0.039		0.19	0.039	mg/Kg	☼	10/24/18 07:29	10/27/18 16:42	1
Bis(2-chloroethyl)ether	<0.057		0.19	0.057	mg/Kg	☼	10/24/18 07:29	10/27/18 16:42	1
Bis(2-ethylhexyl) phthalate	0.073	J	0.19	0.070	mg/Kg	☼	10/24/18 07:29	10/27/18 16:42	1
4-Bromophenyl phenyl ether	<0.050		0.19	0.050	mg/Kg	☼	10/24/18 07:29	10/27/18 16:42	1
Butyl benzyl phthalate	<0.073		0.19	0.073	mg/Kg	☼	10/24/18 07:29	10/27/18 16:42	1
Carbazole	<0.095		0.19	0.095	mg/Kg	☼	10/24/18 07:29	10/27/18 16:42	1
4-Chloroaniline	<0.18		0.77	0.18	mg/Kg	☼	10/24/18 07:29	10/27/18 16:42	1
4-Chloro-3-methylphenol	<0.13		0.38	0.13	mg/Kg	☼	10/24/18 07:29	10/27/18 16:42	1
2-Chloronaphthalene	<0.042		0.19	0.042	mg/Kg	☼	10/24/18 07:29	10/27/18 16:42	1
2-Chlorophenol	<0.065		0.19	0.065	mg/Kg	☼	10/24/18 07:29	10/27/18 16:42	1
4-Chlorophenyl phenyl ether	<0.045		0.19	0.045	mg/Kg	☼	10/24/18 07:29	10/27/18 16:42	1
Chrysene	0.41		0.038	0.010	mg/Kg	☼	10/24/18 07:29	10/27/18 16:42	1
Dibenz(a,h)anthracene	<0.0074		0.038	0.0074	mg/Kg	☼	10/24/18 07:29	10/27/18 16:42	1
Dibenzofuran	<0.045		0.19	0.045	mg/Kg	☼	10/24/18 07:29	10/27/18 16:42	1
1,2-Dichlorobenzene	<0.046		0.19	0.046	mg/Kg	☼	10/24/18 07:29	10/27/18 16:42	1
1,3-Dichlorobenzene	<0.043		0.19	0.043	mg/Kg	☼	10/24/18 07:29	10/27/18 16:42	1
1,4-Dichlorobenzene	<0.049		0.19	0.049	mg/Kg	☼	10/24/18 07:29	10/27/18 16:42	1
3,3'-Dichlorobenzidine	<0.053		0.19	0.053	mg/Kg	☼	10/24/18 07:29	10/27/18 16:42	1
2,4-Dichlorophenol	<0.091		0.38	0.091	mg/Kg	☼	10/24/18 07:29	10/27/18 16:42	1
Diethyl phthalate	<0.065		0.19	0.065	mg/Kg	☼	10/24/18 07:29	10/27/18 16:42	1
2,4-Dimethylphenol	<0.14		0.38	0.14	mg/Kg	☼	10/24/18 07:29	10/27/18 16:42	1
Dimethyl phthalate	<0.050		0.19	0.050	mg/Kg	☼	10/24/18 07:29	10/27/18 16:42	1
Di-n-butyl phthalate	<0.058		0.19	0.058	mg/Kg	☼	10/24/18 07:29	10/27/18 16:42	1
4,6-Dinitro-2-methylphenol	<0.31		0.77	0.31	mg/Kg	☼	10/24/18 07:29	10/27/18 16:42	1
2,4-Dinitrophenol	<0.67		0.77	0.67	mg/Kg	☼	10/24/18 07:29	10/27/18 16:42	1
2,4-Dinitrotoluene	<0.061		0.19	0.061	mg/Kg	☼	10/24/18 07:29	10/27/18 16:42	1
2,6-Dinitrotoluene	<0.075		0.19	0.075	mg/Kg	☼	10/24/18 07:29	10/27/18 16:42	1
Di-n-octyl phthalate	<0.062		0.19	0.062	mg/Kg	☼	10/24/18 07:29	10/27/18 16:42	1
Fluoranthene	0.83	*	0.038	0.0071	mg/Kg	☼	10/24/18 07:29	10/27/18 16:42	1
Fluorene	0.019	J	0.038	0.0054	mg/Kg	☼	10/24/18 07:29	10/27/18 16:42	1
Hexachlorobenzene	<0.0088		0.077	0.0088	mg/Kg	☼	10/24/18 07:29	10/27/18 16:42	1
Hexachlorobutadiene	<0.060		0.19	0.060	mg/Kg	☼	10/24/18 07:29	10/27/18 16:42	1
Hexachlorocyclopentadiene	<0.22		0.77	0.22	mg/Kg	☼	10/24/18 07:29	10/27/18 16:42	1
Hexachloroethane	<0.058		0.19	0.058	mg/Kg	☼	10/24/18 07:29	10/27/18 16:42	1
Indeno[1,2,3-cd]pyrene	0.12		0.038	0.0099	mg/Kg	☼	10/24/18 07:29	10/27/18 16:42	1
Isophorone	<0.043		0.19	0.043	mg/Kg	☼	10/24/18 07:29	10/27/18 16:42	1
2-Methylnaphthalene	0.0081	J	0.077	0.0070	mg/Kg	☼	10/24/18 07:29	10/27/18 16:42	1
2-Methylphenol	<0.061		0.19	0.061	mg/Kg	☼	10/24/18 07:29	10/27/18 16:42	1
3 & 4 Methylphenol	<0.064		0.19	0.064	mg/Kg	☼	10/24/18 07:29	10/27/18 16:42	1
Naphthalene	0.0084	J	0.038	0.0059	mg/Kg	☼	10/24/18 07:29	10/27/18 16:42	1
2-Nitroaniline	<0.051		0.19	0.051	mg/Kg	☼	10/24/18 07:29	10/27/18 16:42	1
3-Nitroaniline	<0.12		0.38	0.12	mg/Kg	☼	10/24/18 07:29	10/27/18 16:42	1
4-Nitroaniline	<0.16		0.38	0.16	mg/Kg	☼	10/24/18 07:29	10/27/18 16:42	1
Nitrobenzene	<0.0095		0.038	0.0095	mg/Kg	☼	10/24/18 07:29	10/27/18 16:42	1
2-Nitrophenol	<0.090		0.38	0.090	mg/Kg	☼	10/24/18 07:29	10/27/18 16:42	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B05 (0-5)

Lab Sample ID: 500-153334-2

Date Collected: 10/17/18 10:00

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 86.2

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	☼	10/24/18 07:29	10/27/18 16:42	1
N-Nitrosodi-n-propylamine	<0.047		0.077	0.047	mg/Kg	☼	10/24/18 07:29	10/27/18 16:42	1
N-Nitrosodiphenylamine	<0.045		0.19	0.045	mg/Kg	☼	10/24/18 07:29	10/27/18 16:42	1
2,2'-oxybis[1-chloropropane]	<0.044		0.19	0.044	mg/Kg	☼	10/24/18 07:29	10/27/18 16:42	1
Pentachlorophenol	<0.61		0.77	0.61	mg/Kg	☼	10/24/18 07:29	10/27/18 16:42	1
Phenanthrene	0.37		0.038	0.0053	mg/Kg	☼	10/24/18 07:29	10/27/18 16:42	1
Phenol	<0.085		0.19	0.085	mg/Kg	☼	10/24/18 07:29	10/27/18 16:42	1
Pyrene	0.74		0.038	0.0076	mg/Kg	☼	10/24/18 07:29	10/27/18 16:42	1
1,2,4-Trichlorobenzene	<0.041		0.19	0.041	mg/Kg	☼	10/24/18 07:29	10/27/18 16:42	1
2,4,5-Trichlorophenol	<0.087 *		0.38	0.087	mg/Kg	☼	10/24/18 07:29	10/27/18 16:42	1
2,4,6-Trichlorophenol	<0.13		0.38	0.13	mg/Kg	☼	10/24/18 07:29	10/27/18 16:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	110		43 - 145	10/24/18 07:29	10/27/18 16:42	1
2-Fluorophenol	131		31 - 166	10/24/18 07:29	10/27/18 16:42	1
Nitrobenzene-d5	119		37 - 147	10/24/18 07:29	10/27/18 16:42	1
Phenol-d5	127		30 - 153	10/24/18 07:29	10/27/18 16:42	1
Terphenyl-d14	150		42 - 157	10/24/18 07:29	10/27/18 16:42	1
2,4,6-Tribromophenol	138		31 - 143	10/24/18 07:29	10/27/18 16:42	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	J B	1.1	0.21	mg/Kg	☼	10/24/18 08:16	10/24/18 19:23	1
Arsenic	7.9		0.55	0.19	mg/Kg	☼	10/24/18 08:16	10/24/18 19:23	1
Barium	110		0.55	0.063	mg/Kg	☼	10/24/18 08:16	10/24/18 19:23	1
Beryllium	0.70		0.22	0.051	mg/Kg	☼	10/24/18 08:16	10/24/18 19:23	1
Cadmium	0.20	B	0.11	0.020	mg/Kg	☼	10/24/18 08:16	10/24/18 19:23	1
Chromium	20		0.55	0.27	mg/Kg	☼	10/24/18 08:16	10/24/18 19:23	1
Cobalt	11		0.27	0.072	mg/Kg	☼	10/24/18 08:16	10/24/18 19:23	1
Copper	18	B	0.55	0.15	mg/Kg	☼	10/24/18 08:16	10/24/18 19:23	1
Iron	19000		11	5.7	mg/Kg	☼	10/24/18 08:16	10/24/18 19:23	1
Lead	39	B	0.27	0.13	mg/Kg	☼	10/24/18 08:16	10/24/18 19:23	1
Magnesium	14000		5.5	2.7	mg/Kg	☼	10/24/18 08:16	10/24/18 19:23	1
Calcium	21000	B	11	1.9	mg/Kg	☼	10/24/18 08:16	10/24/18 19:23	1
Manganese	580		0.55	0.080	mg/Kg	☼	10/24/18 08:16	10/24/18 19:23	1
Nickel	26		0.55	0.16	mg/Kg	☼	10/24/18 08:16	10/24/18 19:23	1
Selenium	0.46	J	0.55	0.32	mg/Kg	☼	10/24/18 08:16	10/24/18 19:23	1
Silver	0.33		0.27	0.071	mg/Kg	☼	10/24/18 08:16	10/24/18 19:23	1
Thallium	<0.27		0.55	0.27	mg/Kg	☼	10/24/18 08:16	10/24/18 19:23	1
Vanadium	30		0.27	0.065	mg/Kg	☼	10/24/18 08:16	10/24/18 19:23	1
Zinc	94		1.1	0.48	mg/Kg	☼	10/24/18 08:16	10/24/18 19:23	1
Potassium	1500		27	9.7	mg/Kg	☼	10/24/18 08:16	10/24/18 19:23	1
Sodium	710		55	8.1	mg/Kg	☼	10/24/18 08:16	10/24/18 19:23	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		10/25/18 09:50	10/25/18 23:08	1
Barium	0.85		0.50	0.050	mg/L		10/25/18 09:50	10/25/18 23:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/25/18 09:50	10/25/18 23:08	1
Cadmium	0.0036	J	0.0050	0.0020	mg/L		10/25/18 09:50	10/25/18 23:08	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B05 (0-5)

Lab Sample ID: 500-153334-2

Date Collected: 10/17/18 10:00

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	330		5.0	0.50	mg/L		10/25/18 09:50	10/25/18 23:08	1
Chromium	<0.010		0.070	0.010	mg/L		10/25/18 09:50	10/25/18 23:08	1
Cobalt	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/25/18 23:08	1
Copper	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/25/18 23:08	1
Iron	<0.20		0.40	0.20	mg/L		10/25/18 09:50	10/25/18 23:08	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/25/18 09:50	10/25/18 23:08	1
Magnesium	150		2.5	0.50	mg/L		10/25/18 09:50	10/25/18 23:08	1
Manganese	0.70		0.025	0.010	mg/L		10/25/18 09:50	10/25/18 23:08	1
Nickel	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/25/18 23:08	1
Potassium	1.6 J		2.5	0.50	mg/L		10/25/18 09:50	10/25/18 23:08	1
Selenium	<0.020		0.050	0.020	mg/L		10/25/18 09:50	10/25/18 23:08	1
Silver	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/25/18 23:08	1
Vanadium	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/25/18 23:08	1
Zinc	0.066 J		0.50	0.020	mg/L		10/25/18 09:50	10/25/18 23:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.1		0.025	0.010	mg/L		10/25/18 15:13	10/26/18 16:36	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		10/25/18 09:50	10/25/18 19:20	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/25/18 09:50	10/25/18 19:20	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		10/25/18 12:40	10/26/18 08:20	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038		0.018	0.0060	mg/Kg	☼	10/23/18 15:50	10/24/18 09:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.20		0.57	0.20	mg/Kg	☼	10/26/18 11:10	10/26/18 15:15	1
pH	7.3		0.2	0.2	SU			10/24/18 14:40	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B06 (0-5)

Lab Sample ID: 500-153334-3

Date Collected: 10/17/18 09:50

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 85.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0094		0.022	0.0094	mg/Kg	☼	10/18/18 07:15	10/27/18 10:35	1
Benzene	<0.00055		0.0022	0.00055	mg/Kg	☼	10/18/18 07:15	10/27/18 10:35	1
Bromodichloromethane	<0.00044		0.0022	0.00044	mg/Kg	☼	10/18/18 07:15	10/27/18 10:35	1
Bromoform	<0.00063		0.0022	0.00063	mg/Kg	☼	10/18/18 07:15	10/27/18 10:35	1
Bromomethane	<0.0020	*	0.0054	0.0020	mg/Kg	☼	10/18/18 07:15	10/27/18 10:35	1
2-Butanone (MEK)	<0.0024		0.0054	0.0024	mg/Kg	☼	10/18/18 07:15	10/27/18 10:35	1
Carbon disulfide	<0.0011		0.0054	0.0011	mg/Kg	☼	10/18/18 07:15	10/27/18 10:35	1
Carbon tetrachloride	<0.00063		0.0022	0.00063	mg/Kg	☼	10/18/18 07:15	10/27/18 10:35	1
Chlorobenzene	<0.00080		0.0022	0.00080	mg/Kg	☼	10/18/18 07:15	10/27/18 10:35	1
Chloroethane	<0.0016	*	0.0054	0.0016	mg/Kg	☼	10/18/18 07:15	10/27/18 10:35	1
Chloroform	<0.00075		0.0022	0.00075	mg/Kg	☼	10/18/18 07:15	10/27/18 10:35	1
Chloromethane	<0.0022		0.0054	0.0022	mg/Kg	☼	10/18/18 07:15	10/27/18 10:35	1
cis-1,2-Dichloroethene	<0.00060		0.0022	0.00060	mg/Kg	☼	10/18/18 07:15	10/27/18 10:35	1
cis-1,3-Dichloropropene	<0.00065		0.0022	0.00065	mg/Kg	☼	10/18/18 07:15	10/27/18 10:35	1
Dibromochloromethane	<0.00071		0.0022	0.00071	mg/Kg	☼	10/18/18 07:15	10/27/18 10:35	1
1,1-Dichloroethane	<0.00074		0.0022	0.00074	mg/Kg	☼	10/18/18 07:15	10/27/18 10:35	1
1,2-Dichloroethane	<0.0017		0.0054	0.0017	mg/Kg	☼	10/18/18 07:15	10/27/18 10:35	1
1,1-Dichloroethene	<0.00074		0.0022	0.00074	mg/Kg	☼	10/18/18 07:15	10/27/18 10:35	1
1,2-Dichloropropane	<0.00056		0.0022	0.00056	mg/Kg	☼	10/18/18 07:15	10/27/18 10:35	1
1,3-Dichloropropene, Total	<0.00076		0.0022	0.00076	mg/Kg	☼	10/18/18 07:15	10/27/18 10:35	1
Ethylbenzene	<0.0010		0.0022	0.0010	mg/Kg	☼	10/18/18 07:15	10/27/18 10:35	1
2-Hexanone	<0.0017		0.0054	0.0017	mg/Kg	☼	10/18/18 07:15	10/27/18 10:35	1
Methylene Chloride	<0.0021		0.0054	0.0021	mg/Kg	☼	10/18/18 07:15	10/27/18 10:35	1
4-Methyl-2-pentanone (MIBK)	<0.0016		0.0054	0.0016	mg/Kg	☼	10/18/18 07:15	10/27/18 10:35	1
Methyl tert-butyl ether	<0.00063		0.0022	0.00063	mg/Kg	☼	10/18/18 07:15	10/27/18 10:35	1
Styrene	<0.00065		0.0022	0.00065	mg/Kg	☼	10/18/18 07:15	10/27/18 10:35	1
1,1,2,2-Tetrachloroethane	<0.00069		0.0022	0.00069	mg/Kg	☼	10/18/18 07:15	10/27/18 10:35	1
Tetrachloroethene	<0.00074		0.0022	0.00074	mg/Kg	☼	10/18/18 07:15	10/27/18 10:35	1
Toluene	<0.00055		0.0022	0.00055	mg/Kg	☼	10/18/18 07:15	10/27/18 10:35	1
trans-1,2-Dichloroethene	<0.00096		0.0022	0.00096	mg/Kg	☼	10/18/18 07:15	10/27/18 10:35	1
trans-1,3-Dichloropropene	<0.00076		0.0022	0.00076	mg/Kg	☼	10/18/18 07:15	10/27/18 10:35	1
1,1,1-Trichloroethane	<0.00072		0.0022	0.00072	mg/Kg	☼	10/18/18 07:15	10/27/18 10:35	1
1,1,2-Trichloroethane	<0.00093		0.0022	0.00093	mg/Kg	☼	10/18/18 07:15	10/27/18 10:35	1
Trichloroethene	<0.00073		0.0022	0.00073	mg/Kg	☼	10/18/18 07:15	10/27/18 10:35	1
Vinyl acetate	<0.0019		0.0054	0.0019	mg/Kg	☼	10/18/18 07:15	10/27/18 10:35	1
Vinyl chloride	<0.00096		0.0022	0.00096	mg/Kg	☼	10/18/18 07:15	10/27/18 10:35	1
Xylenes, Total	<0.00069		0.0043	0.00069	mg/Kg	☼	10/18/18 07:15	10/27/18 10:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		75 - 131	10/18/18 07:15	10/27/18 10:35	1
Dibromofluoromethane	101		75 - 126	10/18/18 07:15	10/27/18 10:35	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	10/18/18 07:15	10/27/18 10:35	1
Toluene-d8 (Surr)	95		75 - 124	10/18/18 07:15	10/27/18 10:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.0097	J	0.038	0.0069	mg/Kg	☼	10/24/18 07:29	10/27/18 12:53	1
Acenaphthylene	<0.0051		0.038	0.0051	mg/Kg	☼	10/24/18 07:29	10/27/18 12:53	1
Anthracene	<0.0064	*	0.038	0.0064	mg/Kg	☼	10/24/18 07:29	10/27/18 12:53	1
Benzo[a]anthracene	0.015	J	0.038	0.0052	mg/Kg	☼	10/24/18 07:29	10/27/18 12:53	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B06 (0-5)

Lab Sample ID: 500-153334-3

Date Collected: 10/17/18 09:50

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 85.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.0074		0.038	0.0074	mg/Kg	☼	10/24/18 07:29	10/27/18 12:53	1
Benzo[b]fluoranthene	0.025	J	0.038	0.0083	mg/Kg	☼	10/24/18 07:29	10/27/18 12:53	1
Benzo[g,h,i]perylene	0.016	J	0.038	0.012	mg/Kg	☼	10/24/18 07:29	10/27/18 12:53	1
Benzo[k]fluoranthene	<0.011		0.038	0.011	mg/Kg	☼	10/24/18 07:29	10/27/18 12:53	1
Bis(2-chloroethoxy)methane	<0.039		0.19	0.039	mg/Kg	☼	10/24/18 07:29	10/27/18 12:53	1
Bis(2-chloroethyl)ether	<0.058		0.19	0.058	mg/Kg	☼	10/24/18 07:29	10/27/18 12:53	1
Bis(2-ethylhexyl) phthalate	<0.070		0.19	0.070	mg/Kg	☼	10/24/18 07:29	10/27/18 12:53	1
4-Bromophenyl phenyl ether	<0.051		0.19	0.051	mg/Kg	☼	10/24/18 07:29	10/27/18 12:53	1
Butyl benzyl phthalate	<0.073		0.19	0.073	mg/Kg	☼	10/24/18 07:29	10/27/18 12:53	1
Carbazole	<0.096		0.19	0.096	mg/Kg	☼	10/24/18 07:29	10/27/18 12:53	1
4-Chloroaniline	<0.18		0.78	0.18	mg/Kg	☼	10/24/18 07:29	10/27/18 12:53	1
4-Chloro-3-methylphenol	<0.13		0.38	0.13	mg/Kg	☼	10/24/18 07:29	10/27/18 12:53	1
2-Chloronaphthalene	<0.042		0.19	0.042	mg/Kg	☼	10/24/18 07:29	10/27/18 12:53	1
2-Chlorophenol	<0.066		0.19	0.066	mg/Kg	☼	10/24/18 07:29	10/27/18 12:53	1
4-Chlorophenyl phenyl ether	<0.045		0.19	0.045	mg/Kg	☼	10/24/18 07:29	10/27/18 12:53	1
Chrysene	0.029	J	0.038	0.010	mg/Kg	☼	10/24/18 07:29	10/27/18 12:53	1
Dibenz(a,h)anthracene	<0.0074		0.038	0.0074	mg/Kg	☼	10/24/18 07:29	10/27/18 12:53	1
Dibenzofuran	<0.045		0.19	0.045	mg/Kg	☼	10/24/18 07:29	10/27/18 12:53	1
1,2-Dichlorobenzene	<0.046		0.19	0.046	mg/Kg	☼	10/24/18 07:29	10/27/18 12:53	1
1,3-Dichlorobenzene	<0.043		0.19	0.043	mg/Kg	☼	10/24/18 07:29	10/27/18 12:53	1
1,4-Dichlorobenzene	<0.049		0.19	0.049	mg/Kg	☼	10/24/18 07:29	10/27/18 12:53	1
3,3'-Dichlorobenzidine	<0.054		0.19	0.054	mg/Kg	☼	10/24/18 07:29	10/27/18 12:53	1
2,4-Dichlorophenol	<0.091		0.38	0.091	mg/Kg	☼	10/24/18 07:29	10/27/18 12:53	1
Diethyl phthalate	<0.065		0.19	0.065	mg/Kg	☼	10/24/18 07:29	10/27/18 12:53	1
2,4-Dimethylphenol	<0.15		0.38	0.15	mg/Kg	☼	10/24/18 07:29	10/27/18 12:53	1
Dimethyl phthalate	<0.050		0.19	0.050	mg/Kg	☼	10/24/18 07:29	10/27/18 12:53	1
Di-n-butyl phthalate	<0.059		0.19	0.059	mg/Kg	☼	10/24/18 07:29	10/27/18 12:53	1
4,6-Dinitro-2-methylphenol	<0.31		0.78	0.31	mg/Kg	☼	10/24/18 07:29	10/27/18 12:53	1
2,4-Dinitrophenol	<0.68		0.78	0.68	mg/Kg	☼	10/24/18 07:29	10/27/18 12:53	1
2,4-Dinitrotoluene	<0.061		0.19	0.061	mg/Kg	☼	10/24/18 07:29	10/27/18 12:53	1
2,6-Dinitrotoluene	<0.076		0.19	0.076	mg/Kg	☼	10/24/18 07:29	10/27/18 12:53	1
Di-n-octyl phthalate	<0.063		0.19	0.063	mg/Kg	☼	10/24/18 07:29	10/27/18 12:53	1
Fluoranthene	0.039	*	0.038	0.0071	mg/Kg	☼	10/24/18 07:29	10/27/18 12:53	1
Fluorene	0.013	J	0.038	0.0054	mg/Kg	☼	10/24/18 07:29	10/27/18 12:53	1
Hexachlorobenzene	<0.0089		0.078	0.0089	mg/Kg	☼	10/24/18 07:29	10/27/18 12:53	1
Hexachlorobutadiene	<0.060		0.19	0.060	mg/Kg	☼	10/24/18 07:29	10/27/18 12:53	1
Hexachlorocyclopentadiene	<0.22		0.78	0.22	mg/Kg	☼	10/24/18 07:29	10/27/18 12:53	1
Hexachloroethane	<0.058		0.19	0.058	mg/Kg	☼	10/24/18 07:29	10/27/18 12:53	1
Indeno[1,2,3-cd]pyrene	<0.010		0.038	0.010	mg/Kg	☼	10/24/18 07:29	10/27/18 12:53	1
Isophorone	<0.043		0.19	0.043	mg/Kg	☼	10/24/18 07:29	10/27/18 12:53	1
2-Methylnaphthalene	0.17		0.078	0.0071	mg/Kg	☼	10/24/18 07:29	10/27/18 12:53	1
2-Methylphenol	<0.062		0.19	0.062	mg/Kg	☼	10/24/18 07:29	10/27/18 12:53	1
3 & 4 Methylphenol	<0.064		0.19	0.064	mg/Kg	☼	10/24/18 07:29	10/27/18 12:53	1
Naphthalene	0.025	J	0.038	0.0059	mg/Kg	☼	10/24/18 07:29	10/27/18 12:53	1
2-Nitroaniline	<0.052		0.19	0.052	mg/Kg	☼	10/24/18 07:29	10/27/18 12:53	1
3-Nitroaniline	<0.12		0.38	0.12	mg/Kg	☼	10/24/18 07:29	10/27/18 12:53	1
4-Nitroaniline	<0.16		0.38	0.16	mg/Kg	☼	10/24/18 07:29	10/27/18 12:53	1
Nitrobenzene	<0.0096		0.038	0.0096	mg/Kg	☼	10/24/18 07:29	10/27/18 12:53	1
2-Nitrophenol	<0.091		0.38	0.091	mg/Kg	☼	10/24/18 07:29	10/27/18 12:53	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B06 (0-5)

Lab Sample ID: 500-153334-3

Date Collected: 10/17/18 09:50

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 85.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.37		0.78	0.37	mg/Kg	☼	10/24/18 07:29	10/27/18 12:53	1
N-Nitrosodi-n-propylamine	<0.047		0.078	0.047	mg/Kg	☼	10/24/18 07:29	10/27/18 12:53	1
N-Nitrosodiphenylamine	<0.045		0.19	0.045	mg/Kg	☼	10/24/18 07:29	10/27/18 12:53	1
2,2'-oxybis[1-chloropropane]	<0.045		0.19	0.045	mg/Kg	☼	10/24/18 07:29	10/27/18 12:53	1
Pentachlorophenol	<0.62		0.78	0.62	mg/Kg	☼	10/24/18 07:29	10/27/18 12:53	1
Phenanthrene	0.064		0.038	0.0054	mg/Kg	☼	10/24/18 07:29	10/27/18 12:53	1
Phenol	<0.085		0.19	0.085	mg/Kg	☼	10/24/18 07:29	10/27/18 12:53	1
Pyrene	0.044		0.038	0.0076	mg/Kg	☼	10/24/18 07:29	10/27/18 12:53	1
1,2,4-Trichlorobenzene	<0.041		0.19	0.041	mg/Kg	☼	10/24/18 07:29	10/27/18 12:53	1
2,4,5-Trichlorophenol	<0.088 *		0.38	0.088	mg/Kg	☼	10/24/18 07:29	10/27/18 12:53	1
2,4,6-Trichlorophenol	<0.13		0.38	0.13	mg/Kg	☼	10/24/18 07:29	10/27/18 12:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	104		43 - 145	10/24/18 07:29	10/27/18 12:53	1
2-Fluorophenol	162		31 - 166	10/24/18 07:29	10/27/18 12:53	1
Nitrobenzene-d5	114		37 - 147	10/24/18 07:29	10/27/18 12:53	1
Phenol-d5	136		30 - 153	10/24/18 07:29	10/27/18 12:53	1
Terphenyl-d14	143		42 - 157	10/24/18 07:29	10/27/18 12:53	1
2,4,6-Tribromophenol	52		31 - 143	10/24/18 07:29	10/27/18 12:53	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.49	J B	1.1	0.22	mg/Kg	☼	10/24/18 08:16	10/24/18 19:27	1
Arsenic	5.0		0.57	0.20	mg/Kg	☼	10/24/18 08:16	10/24/18 19:27	1
Barium	84		0.57	0.065	mg/Kg	☼	10/24/18 08:16	10/24/18 19:27	1
Beryllium	0.62		0.23	0.053	mg/Kg	☼	10/24/18 08:16	10/24/18 19:27	1
Cadmium	0.12	B	0.11	0.021	mg/Kg	☼	10/24/18 08:16	10/24/18 19:27	1
Chromium	10		0.57	0.28	mg/Kg	☼	10/24/18 08:16	10/24/18 19:27	1
Cobalt	7.8		0.29	0.075	mg/Kg	☼	10/24/18 08:16	10/24/18 19:27	1
Copper	9.1	B	0.57	0.16	mg/Kg	☼	10/24/18 08:16	10/24/18 19:27	1
Iron	11000		11	6.0	mg/Kg	☼	10/24/18 08:16	10/24/18 19:27	1
Lead	12	B	0.29	0.13	mg/Kg	☼	10/24/18 08:16	10/24/18 19:27	1
Magnesium	39000		5.7	2.8	mg/Kg	☼	10/24/18 08:16	10/24/18 19:27	1
Calcium	98000	B	57	9.7	mg/Kg	☼	10/24/18 08:16	10/25/18 12:16	5
Manganese	680		0.57	0.083	mg/Kg	☼	10/24/18 08:16	10/24/18 19:27	1
Nickel	13		0.57	0.17	mg/Kg	☼	10/24/18 08:16	10/24/18 19:27	1
Selenium	<0.34		0.57	0.34	mg/Kg	☼	10/24/18 08:16	10/24/18 19:27	1
Silver	0.21	J	0.29	0.074	mg/Kg	☼	10/24/18 08:16	10/24/18 19:27	1
Thallium	<0.29		0.57	0.29	mg/Kg	☼	10/24/18 08:16	10/24/18 19:27	1
Vanadium	19		0.29	0.068	mg/Kg	☼	10/24/18 08:16	10/24/18 19:27	1
Zinc	44		1.1	0.50	mg/Kg	☼	10/24/18 08:16	10/24/18 19:27	1
Potassium	1400		29	10	mg/Kg	☼	10/24/18 08:16	10/24/18 19:27	1
Sodium	1000		57	8.5	mg/Kg	☼	10/24/18 08:16	10/24/18 19:27	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		10/25/18 09:50	10/25/18 23:12	1
Barium	0.43	J	0.50	0.050	mg/L		10/25/18 09:50	10/25/18 23:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/25/18 09:50	10/25/18 23:12	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		10/25/18 09:50	10/25/18 23:12	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B06 (0-5)

Lab Sample ID: 500-153334-3

Date Collected: 10/17/18 09:50

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 85.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	720		25	2.5	mg/L		10/25/18 09:50	10/30/18 11:59	5
Chromium	0.014	J B	0.070	0.010	mg/L		10/25/18 09:50	10/25/18 23:12	1
Cobalt	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/25/18 23:12	1
Copper	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/25/18 23:12	1
Iron	<0.20		0.40	0.20	mg/L		10/25/18 09:50	10/25/18 23:12	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/25/18 09:50	10/25/18 23:12	1
Magnesium	73		2.5	0.50	mg/L		10/25/18 09:50	10/25/18 23:12	1
Manganese	0.59		0.025	0.010	mg/L		10/25/18 09:50	10/25/18 23:12	1
Nickel	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/25/18 23:12	1
Potassium	3.5		2.5	0.50	mg/L		10/25/18 09:50	10/25/18 23:12	1
Selenium	<0.020		0.050	0.020	mg/L		10/25/18 09:50	10/25/18 23:12	1
Silver	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/25/18 23:12	1
Vanadium	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/25/18 23:12	1
Zinc	<0.020		0.50	0.020	mg/L		10/25/18 09:50	10/25/18 23:12	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		10/25/18 15:13	10/26/18 16:40	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		10/25/18 09:50	10/25/18 19:21	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/25/18 09:50	10/25/18 19:21	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		10/25/18 12:40	10/26/18 08:22	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.019	0.0062	mg/Kg	☼	10/23/18 15:50	10/24/18 09:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.19		0.54	0.19	mg/Kg	☼	10/26/18 11:10	10/26/18 15:15	1
pH	10.4		0.2	0.2	SU			10/24/18 14:43	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B10 (0-5)

Lab Sample ID: 500-153334-4

Date Collected: 10/17/18 09:35

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0080		0.018	0.0080	mg/Kg	☼	10/18/18 07:15	10/27/18 11:00	1
Benzene	<0.00047		0.0018	0.00047	mg/Kg	☼	10/18/18 07:15	10/27/18 11:00	1
Bromodichloromethane	<0.00037		0.0018	0.00037	mg/Kg	☼	10/18/18 07:15	10/27/18 11:00	1
Bromoform	<0.00053		0.0018	0.00053	mg/Kg	☼	10/18/18 07:15	10/27/18 11:00	1
Bromomethane	<0.0017	*	0.0046	0.0017	mg/Kg	☼	10/18/18 07:15	10/27/18 11:00	1
2-Butanone (MEK)	<0.0020		0.0046	0.0020	mg/Kg	☼	10/18/18 07:15	10/27/18 11:00	1
Carbon disulfide	<0.00095		0.0046	0.00095	mg/Kg	☼	10/18/18 07:15	10/27/18 11:00	1
Carbon tetrachloride	<0.00053		0.0018	0.00053	mg/Kg	☼	10/18/18 07:15	10/27/18 11:00	1
Chlorobenzene	<0.00067		0.0018	0.00067	mg/Kg	☼	10/18/18 07:15	10/27/18 11:00	1
Chloroethane	<0.0014	*	0.0046	0.0014	mg/Kg	☼	10/18/18 07:15	10/27/18 11:00	1
Chloroform	<0.00063		0.0018	0.00063	mg/Kg	☼	10/18/18 07:15	10/27/18 11:00	1
Chloromethane	<0.0018		0.0046	0.0018	mg/Kg	☼	10/18/18 07:15	10/27/18 11:00	1
cis-1,2-Dichloroethene	<0.00051		0.0018	0.00051	mg/Kg	☼	10/18/18 07:15	10/27/18 11:00	1
cis-1,3-Dichloropropene	<0.00055		0.0018	0.00055	mg/Kg	☼	10/18/18 07:15	10/27/18 11:00	1
Dibromochloromethane	<0.00060		0.0018	0.00060	mg/Kg	☼	10/18/18 07:15	10/27/18 11:00	1
1,1-Dichloroethane	<0.00063		0.0018	0.00063	mg/Kg	☼	10/18/18 07:15	10/27/18 11:00	1
1,2-Dichloroethane	<0.0014		0.0046	0.0014	mg/Kg	☼	10/18/18 07:15	10/27/18 11:00	1
1,1-Dichloroethene	<0.00063		0.0018	0.00063	mg/Kg	☼	10/18/18 07:15	10/27/18 11:00	1
1,2-Dichloropropane	<0.00047		0.0018	0.00047	mg/Kg	☼	10/18/18 07:15	10/27/18 11:00	1
1,3-Dichloropropene, Total	<0.00064		0.0018	0.00064	mg/Kg	☼	10/18/18 07:15	10/27/18 11:00	1
Ethylbenzene	<0.00088		0.0018	0.00088	mg/Kg	☼	10/18/18 07:15	10/27/18 11:00	1
2-Hexanone	<0.0014		0.0046	0.0014	mg/Kg	☼	10/18/18 07:15	10/27/18 11:00	1
Methylene Chloride	<0.0018		0.0046	0.0018	mg/Kg	☼	10/18/18 07:15	10/27/18 11:00	1
4-Methyl-2-pentanone (MIBK)	<0.0014		0.0046	0.0014	mg/Kg	☼	10/18/18 07:15	10/27/18 11:00	1
Methyl tert-butyl ether	<0.00054		0.0018	0.00054	mg/Kg	☼	10/18/18 07:15	10/27/18 11:00	1
Styrene	<0.00055		0.0018	0.00055	mg/Kg	☼	10/18/18 07:15	10/27/18 11:00	1
1,1,2,2-Tetrachloroethane	<0.00058		0.0018	0.00058	mg/Kg	☼	10/18/18 07:15	10/27/18 11:00	1
Tetrachloroethene	<0.00062		0.0018	0.00062	mg/Kg	☼	10/18/18 07:15	10/27/18 11:00	1
Toluene	<0.00046		0.0018	0.00046	mg/Kg	☼	10/18/18 07:15	10/27/18 11:00	1
trans-1,2-Dichloroethene	<0.00081		0.0018	0.00081	mg/Kg	☼	10/18/18 07:15	10/27/18 11:00	1
trans-1,3-Dichloropropene	<0.00064		0.0018	0.00064	mg/Kg	☼	10/18/18 07:15	10/27/18 11:00	1
1,1,1-Trichloroethane	<0.00061		0.0018	0.00061	mg/Kg	☼	10/18/18 07:15	10/27/18 11:00	1
1,1,2-Trichloroethane	<0.00078		0.0018	0.00078	mg/Kg	☼	10/18/18 07:15	10/27/18 11:00	1
Trichloroethene	<0.00062		0.0018	0.00062	mg/Kg	☼	10/18/18 07:15	10/27/18 11:00	1
Vinyl acetate	<0.0016		0.0046	0.0016	mg/Kg	☼	10/18/18 07:15	10/27/18 11:00	1
Vinyl chloride	<0.00081		0.0018	0.00081	mg/Kg	☼	10/18/18 07:15	10/27/18 11:00	1
Xylenes, Total	<0.00059		0.0037	0.00059	mg/Kg	☼	10/18/18 07:15	10/27/18 11:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		75 - 131	10/18/18 07:15	10/27/18 11:00	1
Dibromofluoromethane	99		75 - 126	10/18/18 07:15	10/27/18 11:00	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	10/18/18 07:15	10/27/18 11:00	1
Toluene-d8 (Surr)	97		75 - 124	10/18/18 07:15	10/27/18 11:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.031	J	0.039	0.0070	mg/Kg	☼	10/24/18 07:29	10/27/18 17:11	1
Acenaphthylene	0.041		0.039	0.0051	mg/Kg	☼	10/24/18 07:29	10/27/18 17:11	1
Anthracene	0.13	*	0.039	0.0065	mg/Kg	☼	10/24/18 07:29	10/27/18 17:11	1
Benzo[a]anthracene	0.63		0.039	0.0052	mg/Kg	☼	10/24/18 07:29	10/27/18 17:11	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B10 (0-5)

Lab Sample ID: 500-153334-4

Date Collected: 10/17/18 09:35

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.86		0.039	0.0075	mg/Kg	☼	10/24/18 07:29	10/27/18 17:11	1
Benzo[b]fluoranthene	1.7		0.039	0.0084	mg/Kg	☼	10/24/18 07:29	10/27/18 17:11	1
Benzo[g,h,i]perylene	0.43		0.039	0.013	mg/Kg	☼	10/24/18 07:29	10/27/18 17:11	1
Benzo[k]fluoranthene	0.60		0.039	0.011	mg/Kg	☼	10/24/18 07:29	10/27/18 17:11	1
Bis(2-chloroethoxy)methane	<0.040		0.20	0.040	mg/Kg	☼	10/24/18 07:29	10/27/18 17:11	1
Bis(2-chloroethyl)ether	<0.058		0.20	0.058	mg/Kg	☼	10/24/18 07:29	10/27/18 17:11	1
Bis(2-ethylhexyl) phthalate	0.14	J	0.20	0.071	mg/Kg	☼	10/24/18 07:29	10/27/18 17:11	1
4-Bromophenyl phenyl ether	<0.051		0.20	0.051	mg/Kg	☼	10/24/18 07:29	10/27/18 17:11	1
Butyl benzyl phthalate	0.082	J	0.20	0.074	mg/Kg	☼	10/24/18 07:29	10/27/18 17:11	1
Carbazole	0.10	J	0.20	0.097	mg/Kg	☼	10/24/18 07:29	10/27/18 17:11	1
4-Chloroaniline	<0.18		0.78	0.18	mg/Kg	☼	10/24/18 07:29	10/27/18 17:11	1
4-Chloro-3-methylphenol	<0.13		0.39	0.13	mg/Kg	☼	10/24/18 07:29	10/27/18 17:11	1
2-Chloronaphthalene	<0.043		0.20	0.043	mg/Kg	☼	10/24/18 07:29	10/27/18 17:11	1
2-Chlorophenol	<0.066		0.20	0.066	mg/Kg	☼	10/24/18 07:29	10/27/18 17:11	1
4-Chlorophenyl phenyl ether	<0.045		0.20	0.045	mg/Kg	☼	10/24/18 07:29	10/27/18 17:11	1
Chrysene	0.81		0.039	0.011	mg/Kg	☼	10/24/18 07:29	10/27/18 17:11	1
Dibenz(a,h)anthracene	0.092		0.039	0.0075	mg/Kg	☼	10/24/18 07:29	10/27/18 17:11	1
Dibenzofuran	<0.045		0.20	0.045	mg/Kg	☼	10/24/18 07:29	10/27/18 17:11	1
1,2-Dichlorobenzene	<0.046		0.20	0.046	mg/Kg	☼	10/24/18 07:29	10/27/18 17:11	1
1,3-Dichlorobenzene	<0.044		0.20	0.044	mg/Kg	☼	10/24/18 07:29	10/27/18 17:11	1
1,4-Dichlorobenzene	<0.050		0.20	0.050	mg/Kg	☼	10/24/18 07:29	10/27/18 17:11	1
3,3'-Dichlorobenzidine	<0.054		0.20	0.054	mg/Kg	☼	10/24/18 07:29	10/27/18 17:11	1
2,4-Dichlorophenol	<0.092		0.39	0.092	mg/Kg	☼	10/24/18 07:29	10/27/18 17:11	1
Diethyl phthalate	<0.066		0.20	0.066	mg/Kg	☼	10/24/18 07:29	10/27/18 17:11	1
2,4-Dimethylphenol	<0.15		0.39	0.15	mg/Kg	☼	10/24/18 07:29	10/27/18 17:11	1
Dimethyl phthalate	<0.051		0.20	0.051	mg/Kg	☼	10/24/18 07:29	10/27/18 17:11	1
Di-n-butyl phthalate	<0.059		0.20	0.059	mg/Kg	☼	10/24/18 07:29	10/27/18 17:11	1
4,6-Dinitro-2-methylphenol	<0.31		0.78	0.31	mg/Kg	☼	10/24/18 07:29	10/27/18 17:11	1
2,4-Dinitrophenol	<0.68		0.78	0.68	mg/Kg	☼	10/24/18 07:29	10/27/18 17:11	1
2,4-Dinitrotoluene	<0.062		0.20	0.062	mg/Kg	☼	10/24/18 07:29	10/27/18 17:11	1
2,6-Dinitrotoluene	<0.076		0.20	0.076	mg/Kg	☼	10/24/18 07:29	10/27/18 17:11	1
Di-n-octyl phthalate	<0.063		0.20	0.063	mg/Kg	☼	10/24/18 07:29	10/27/18 17:11	1
Fluoranthene	1.8	*	0.039	0.0072	mg/Kg	☼	10/24/18 07:29	10/27/18 17:11	1
Fluorene	0.034	J	0.039	0.0055	mg/Kg	☼	10/24/18 07:29	10/27/18 17:11	1
Hexachlorobenzene	<0.0090		0.078	0.0090	mg/Kg	☼	10/24/18 07:29	10/27/18 17:11	1
Hexachlorobutadiene	<0.061		0.20	0.061	mg/Kg	☼	10/24/18 07:29	10/27/18 17:11	1
Hexachlorocyclopentadiene	<0.22		0.78	0.22	mg/Kg	☼	10/24/18 07:29	10/27/18 17:11	1
Hexachloroethane	<0.059		0.20	0.059	mg/Kg	☼	10/24/18 07:29	10/27/18 17:11	1
Indeno[1,2,3-cd]pyrene	0.36		0.039	0.010	mg/Kg	☼	10/24/18 07:29	10/27/18 17:11	1
Isophorone	<0.044		0.20	0.044	mg/Kg	☼	10/24/18 07:29	10/27/18 17:11	1
2-Methylnaphthalene	0.025	J	0.078	0.0071	mg/Kg	☼	10/24/18 07:29	10/27/18 17:11	1
2-Methylphenol	<0.062		0.20	0.062	mg/Kg	☼	10/24/18 07:29	10/27/18 17:11	1
3 & 4 Methylphenol	<0.065		0.20	0.065	mg/Kg	☼	10/24/18 07:29	10/27/18 17:11	1
Naphthalene	0.020	J	0.039	0.0060	mg/Kg	☼	10/24/18 07:29	10/27/18 17:11	1
2-Nitroaniline	<0.052		0.20	0.052	mg/Kg	☼	10/24/18 07:29	10/27/18 17:11	1
3-Nitroaniline	<0.12		0.39	0.12	mg/Kg	☼	10/24/18 07:29	10/27/18 17:11	1
4-Nitroaniline	<0.16		0.39	0.16	mg/Kg	☼	10/24/18 07:29	10/27/18 17:11	1
Nitrobenzene	<0.0097		0.039	0.0097	mg/Kg	☼	10/24/18 07:29	10/27/18 17:11	1
2-Nitrophenol	<0.092		0.39	0.092	mg/Kg	☼	10/24/18 07:29	10/27/18 17:11	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B10 (0-5)

Lab Sample ID: 500-153334-4

Date Collected: 10/17/18 09:35

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.37		0.78	0.37	mg/Kg	☼	10/24/18 07:29	10/27/18 17:11	1
N-Nitrosodi-n-propylamine	<0.047		0.078	0.047	mg/Kg	☼	10/24/18 07:29	10/27/18 17:11	1
N-Nitrosodiphenylamine	<0.046		0.20	0.046	mg/Kg	☼	10/24/18 07:29	10/27/18 17:11	1
2,2'-oxybis[1-chloropropane]	<0.045		0.20	0.045	mg/Kg	☼	10/24/18 07:29	10/27/18 17:11	1
Pentachlorophenol	<0.62		0.78	0.62	mg/Kg	☼	10/24/18 07:29	10/27/18 17:11	1
Phenanthrene	0.67		0.039	0.0054	mg/Kg	☼	10/24/18 07:29	10/27/18 17:11	1
Phenol	<0.086		0.20	0.086	mg/Kg	☼	10/24/18 07:29	10/27/18 17:11	1
Pyrene	2.0		0.039	0.0077	mg/Kg	☼	10/24/18 07:29	10/27/18 17:11	1
1,2,4-Trichlorobenzene	<0.042		0.20	0.042	mg/Kg	☼	10/24/18 07:29	10/27/18 17:11	1
2,4,5-Trichlorophenol	<0.089 *		0.39	0.089	mg/Kg	☼	10/24/18 07:29	10/27/18 17:11	1
2,4,6-Trichlorophenol	<0.13		0.39	0.13	mg/Kg	☼	10/24/18 07:29	10/27/18 17:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	96		43 - 145	10/24/18 07:29	10/27/18 17:11	1
2-Fluorophenol	143		31 - 166	10/24/18 07:29	10/27/18 17:11	1
Nitrobenzene-d5	104		37 - 147	10/24/18 07:29	10/27/18 17:11	1
Phenol-d5	122		30 - 153	10/24/18 07:29	10/27/18 17:11	1
Terphenyl-d14	180 X		42 - 157	10/24/18 07:29	10/27/18 17:11	1
2,4,6-Tribromophenol	110		31 - 143	10/24/18 07:29	10/27/18 17:11	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.41	J B	1.1	0.22	mg/Kg	☼	10/24/18 08:16	10/24/18 19:31	1
Arsenic	5.4		0.57	0.20	mg/Kg	☼	10/24/18 08:16	10/24/18 19:31	1
Barium	89		0.57	0.065	mg/Kg	☼	10/24/18 08:16	10/24/18 19:31	1
Beryllium	0.48		0.23	0.054	mg/Kg	☼	10/24/18 08:16	10/24/18 19:31	1
Cadmium	0.67	B	0.11	0.021	mg/Kg	☼	10/24/18 08:16	10/24/18 19:31	1
Chromium	22		0.57	0.28	mg/Kg	☼	10/24/18 08:16	10/24/18 19:31	1
Cobalt	5.3		0.29	0.075	mg/Kg	☼	10/24/18 08:16	10/24/18 19:31	1
Copper	29	B	0.57	0.16	mg/Kg	☼	10/24/18 08:16	10/24/18 19:31	1
Iron	13000		11	6.0	mg/Kg	☼	10/24/18 08:16	10/24/18 19:31	1
Lead	170	B	0.29	0.13	mg/Kg	☼	10/24/18 08:16	10/24/18 19:31	1
Magnesium	50000		5.7	2.8	mg/Kg	☼	10/24/18 08:16	10/24/18 19:31	1
Calcium	100000	B	57	9.7	mg/Kg	☼	10/24/18 08:16	10/25/18 12:20	5
Manganese	490		0.57	0.083	mg/Kg	☼	10/24/18 08:16	10/24/18 19:31	1
Nickel	14		0.57	0.17	mg/Kg	☼	10/24/18 08:16	10/24/18 19:31	1
Selenium	0.44	J	0.57	0.34	mg/Kg	☼	10/24/18 08:16	10/24/18 19:31	1
Silver	0.18	J	0.29	0.074	mg/Kg	☼	10/24/18 08:16	10/24/18 19:31	1
Thallium	<0.29		0.57	0.29	mg/Kg	☼	10/24/18 08:16	10/24/18 19:31	1
Vanadium	23		0.29	0.068	mg/Kg	☼	10/24/18 08:16	10/24/18 19:31	1
Zinc	160		1.1	0.50	mg/Kg	☼	10/24/18 08:16	10/24/18 19:31	1
Potassium	1200		29	10	mg/Kg	☼	10/24/18 08:16	10/24/18 19:31	1
Sodium	690		57	8.5	mg/Kg	☼	10/24/18 08:16	10/24/18 19:31	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		10/25/18 09:50	10/25/18 23:16	1
Barium	0.71		0.50	0.050	mg/L		10/25/18 09:50	10/25/18 23:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/25/18 09:50	10/25/18 23:16	1
Cadmium	0.0068		0.0050	0.0020	mg/L		10/25/18 09:50	10/25/18 23:16	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B10 (0-5)

Lab Sample ID: 500-153334-4

Date Collected: 10/17/18 09:35

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	380		5.0	0.50	mg/L		10/25/18 09:50	10/25/18 23:16	1
Chromium	<0.010		0.070	0.010	mg/L		10/25/18 09:50	10/25/18 23:16	1
Cobalt	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/25/18 23:16	1
Copper	0.023	J	0.025	0.010	mg/L		10/25/18 09:50	10/25/18 23:16	1
Iron	<0.20		0.40	0.20	mg/L		10/25/18 09:50	10/25/18 23:16	1
Lead	0.010		0.0075	0.0075	mg/L		10/25/18 09:50	10/25/18 23:16	1
Magnesium	160		2.5	0.50	mg/L		10/25/18 09:50	10/25/18 23:16	1
Manganese	1.1		0.025	0.010	mg/L		10/25/18 09:50	10/25/18 23:16	1
Nickel	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/25/18 23:16	1
Potassium	4.1		2.5	0.50	mg/L		10/25/18 09:50	10/25/18 23:16	1
Selenium	<0.020		0.050	0.020	mg/L		10/25/18 09:50	10/25/18 23:16	1
Silver	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/25/18 23:16	1
Vanadium	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/25/18 23:16	1
Zinc	0.37	J	0.50	0.020	mg/L		10/25/18 09:50	10/25/18 23:16	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0026	J	0.0050	0.0020	mg/L		10/25/18 15:13	10/26/18 16:44	1
Lead	0.48		0.0075	0.0075	mg/L		10/25/18 15:13	10/26/18 16:44	1
Manganese	1.3		0.025	0.010	mg/L		10/25/18 15:13	10/26/18 16:44	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		10/25/18 09:50	10/25/18 19:22	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/25/18 09:50	10/25/18 19:22	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		10/25/18 12:40	10/26/18 08:24	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.042		0.019	0.0062	mg/Kg	☼	10/23/18 15:50	10/24/18 09:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.19		0.55	0.19	mg/Kg	☼	10/26/18 11:10	10/26/18 15:16	1
pH	8.4		0.2	0.2	SU			10/24/18 14:46	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B11 (0-5)

Lab Sample ID: 500-153334-5

Date Collected: 10/17/18 09:25

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 79.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0086		0.020	0.0086	mg/Kg	☼	10/18/18 07:15	10/27/18 11:27	1
Benzene	<0.00050		0.0020	0.00050	mg/Kg	☼	10/18/18 07:15	10/27/18 11:27	1
Bromodichloromethane	<0.00040		0.0020	0.00040	mg/Kg	☼	10/18/18 07:15	10/27/18 11:27	1
Bromoform	<0.00057		0.0020	0.00057	mg/Kg	☼	10/18/18 07:15	10/27/18 11:27	1
Bromomethane	<0.0019	*	0.0049	0.0019	mg/Kg	☼	10/18/18 07:15	10/27/18 11:27	1
2-Butanone (MEK)	<0.0022		0.0049	0.0022	mg/Kg	☼	10/18/18 07:15	10/27/18 11:27	1
Carbon disulfide	<0.0010		0.0049	0.0010	mg/Kg	☼	10/18/18 07:15	10/27/18 11:27	1
Carbon tetrachloride	<0.00057		0.0020	0.00057	mg/Kg	☼	10/18/18 07:15	10/27/18 11:27	1
Chlorobenzene	<0.00073		0.0020	0.00073	mg/Kg	☼	10/18/18 07:15	10/27/18 11:27	1
Chloroethane	<0.0015	*	0.0049	0.0015	mg/Kg	☼	10/18/18 07:15	10/27/18 11:27	1
Chloroform	<0.00068		0.0020	0.00068	mg/Kg	☼	10/18/18 07:15	10/27/18 11:27	1
Chloromethane	<0.0020		0.0049	0.0020	mg/Kg	☼	10/18/18 07:15	10/27/18 11:27	1
cis-1,2-Dichloroethene	<0.00055		0.0020	0.00055	mg/Kg	☼	10/18/18 07:15	10/27/18 11:27	1
cis-1,3-Dichloropropene	<0.00059		0.0020	0.00059	mg/Kg	☼	10/18/18 07:15	10/27/18 11:27	1
Dibromochloromethane	<0.00064		0.0020	0.00064	mg/Kg	☼	10/18/18 07:15	10/27/18 11:27	1
1,1-Dichloroethane	<0.00067		0.0020	0.00067	mg/Kg	☼	10/18/18 07:15	10/27/18 11:27	1
1,2-Dichloroethane	<0.0015		0.0049	0.0015	mg/Kg	☼	10/18/18 07:15	10/27/18 11:27	1
1,1-Dichloroethene	<0.00068		0.0020	0.00068	mg/Kg	☼	10/18/18 07:15	10/27/18 11:27	1
1,2-Dichloropropane	<0.00051		0.0020	0.00051	mg/Kg	☼	10/18/18 07:15	10/27/18 11:27	1
1,3-Dichloropropane, Total	<0.00069		0.0020	0.00069	mg/Kg	☼	10/18/18 07:15	10/27/18 11:27	1
Ethylbenzene	<0.00094		0.0020	0.00094	mg/Kg	☼	10/18/18 07:15	10/27/18 11:27	1
2-Hexanone	<0.0015		0.0049	0.0015	mg/Kg	☼	10/18/18 07:15	10/27/18 11:27	1
Methylene Chloride	<0.0019		0.0049	0.0019	mg/Kg	☼	10/18/18 07:15	10/27/18 11:27	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0049	0.0015	mg/Kg	☼	10/18/18 07:15	10/27/18 11:27	1
Methyl tert-butyl ether	<0.00058		0.0020	0.00058	mg/Kg	☼	10/18/18 07:15	10/27/18 11:27	1
Styrene	<0.00059		0.0020	0.00059	mg/Kg	☼	10/18/18 07:15	10/27/18 11:27	1
1,1,2,2-Tetrachloroethane	<0.00063		0.0020	0.00063	mg/Kg	☼	10/18/18 07:15	10/27/18 11:27	1
Tetrachloroethene	<0.00067		0.0020	0.00067	mg/Kg	☼	10/18/18 07:15	10/27/18 11:27	1
Toluene	<0.00050		0.0020	0.00050	mg/Kg	☼	10/18/18 07:15	10/27/18 11:27	1
trans-1,2-Dichloroethene	<0.00087		0.0020	0.00087	mg/Kg	☼	10/18/18 07:15	10/27/18 11:27	1
trans-1,3-Dichloropropene	<0.00069		0.0020	0.00069	mg/Kg	☼	10/18/18 07:15	10/27/18 11:27	1
1,1,1-Trichloroethane	<0.00066		0.0020	0.00066	mg/Kg	☼	10/18/18 07:15	10/27/18 11:27	1
1,1,2-Trichloroethane	<0.00084		0.0020	0.00084	mg/Kg	☼	10/18/18 07:15	10/27/18 11:27	1
Trichloroethene	<0.00067		0.0020	0.00067	mg/Kg	☼	10/18/18 07:15	10/27/18 11:27	1
Vinyl acetate	<0.0017		0.0049	0.0017	mg/Kg	☼	10/18/18 07:15	10/27/18 11:27	1
Vinyl chloride	<0.00087		0.0020	0.00087	mg/Kg	☼	10/18/18 07:15	10/27/18 11:27	1
Xylenes, Total	<0.00063		0.0039	0.00063	mg/Kg	☼	10/18/18 07:15	10/27/18 11:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		75 - 131	10/18/18 07:15	10/27/18 11:27	1
Dibromofluoromethane	103		75 - 126	10/18/18 07:15	10/27/18 11:27	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	10/18/18 07:15	10/27/18 11:27	1
Toluene-d8 (Surr)	96		75 - 124	10/18/18 07:15	10/27/18 11:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.036	J	0.041	0.0075	mg/Kg	☼	10/24/18 07:29	10/27/18 17:40	1
Acenaphthylene	0.042		0.041	0.0055	mg/Kg	☼	10/24/18 07:29	10/27/18 17:40	1
Anthracene	0.15	*	0.041	0.0069	mg/Kg	☼	10/24/18 07:29	10/27/18 17:40	1
Benzo[a]anthracene	0.49		0.041	0.0056	mg/Kg	☼	10/24/18 07:29	10/27/18 17:40	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B11 (0-5)

Lab Sample ID: 500-153334-5

Date Collected: 10/17/18 09:25

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 79.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.61		0.041	0.0080	mg/Kg	☼	10/24/18 07:29	10/27/18 17:40	1
Benzo[b]fluoranthene	1.1		0.041	0.0090	mg/Kg	☼	10/24/18 07:29	10/27/18 17:40	1
Benzo[g,h,i]perylene	0.28		0.041	0.013	mg/Kg	☼	10/24/18 07:29	10/27/18 17:40	1
Benzo[k]fluoranthene	0.39		0.041	0.012	mg/Kg	☼	10/24/18 07:29	10/27/18 17:40	1
Bis(2-chloroethoxy)methane	<0.042		0.21	0.042	mg/Kg	☼	10/24/18 07:29	10/27/18 17:40	1
Bis(2-chloroethyl)ether	<0.062		0.21	0.062	mg/Kg	☼	10/24/18 07:29	10/27/18 17:40	1
Bis(2-ethylhexyl) phthalate	0.25		0.21	0.076	mg/Kg	☼	10/24/18 07:29	10/27/18 17:40	1
4-Bromophenyl phenyl ether	<0.055		0.21	0.055	mg/Kg	☼	10/24/18 07:29	10/27/18 17:40	1
Butyl benzyl phthalate	<0.079		0.21	0.079	mg/Kg	☼	10/24/18 07:29	10/27/18 17:40	1
Carbazole	<0.10		0.21	0.10	mg/Kg	☼	10/24/18 07:29	10/27/18 17:40	1
4-Chloroaniline	<0.20		0.84	0.20	mg/Kg	☼	10/24/18 07:29	10/27/18 17:40	1
4-Chloro-3-methylphenol	<0.14		0.41	0.14	mg/Kg	☼	10/24/18 07:29	10/27/18 17:40	1
2-Chloronaphthalene	<0.046		0.21	0.046	mg/Kg	☼	10/24/18 07:29	10/27/18 17:40	1
2-Chlorophenol	<0.071		0.21	0.071	mg/Kg	☼	10/24/18 07:29	10/27/18 17:40	1
4-Chlorophenyl phenyl ether	<0.049		0.21	0.049	mg/Kg	☼	10/24/18 07:29	10/27/18 17:40	1
Chrysene	0.60		0.041	0.011	mg/Kg	☼	10/24/18 07:29	10/27/18 17:40	1
Dibenz(a,h)anthracene	0.067		0.041	0.0080	mg/Kg	☼	10/24/18 07:29	10/27/18 17:40	1
Dibenzofuran	<0.049		0.21	0.049	mg/Kg	☼	10/24/18 07:29	10/27/18 17:40	1
1,2-Dichlorobenzene	<0.050		0.21	0.050	mg/Kg	☼	10/24/18 07:29	10/27/18 17:40	1
1,3-Dichlorobenzene	<0.047		0.21	0.047	mg/Kg	☼	10/24/18 07:29	10/27/18 17:40	1
1,4-Dichlorobenzene	<0.053		0.21	0.053	mg/Kg	☼	10/24/18 07:29	10/27/18 17:40	1
3,3'-Dichlorobenzidine	<0.058		0.21	0.058	mg/Kg	☼	10/24/18 07:29	10/27/18 17:40	1
2,4-Dichlorophenol	<0.099		0.41	0.099	mg/Kg	☼	10/24/18 07:29	10/27/18 17:40	1
Diethyl phthalate	<0.070		0.21	0.070	mg/Kg	☼	10/24/18 07:29	10/27/18 17:40	1
2,4-Dimethylphenol	<0.16		0.41	0.16	mg/Kg	☼	10/24/18 07:29	10/27/18 17:40	1
Dimethyl phthalate	0.67		0.21	0.054	mg/Kg	☼	10/24/18 07:29	10/27/18 17:40	1
Di-n-butyl phthalate	<0.063		0.21	0.063	mg/Kg	☼	10/24/18 07:29	10/27/18 17:40	1
4,6-Dinitro-2-methylphenol	<0.33		0.84	0.33	mg/Kg	☼	10/24/18 07:29	10/27/18 17:40	1
2,4-Dinitrophenol	<0.73		0.84	0.73	mg/Kg	☼	10/24/18 07:29	10/27/18 17:40	1
2,4-Dinitrotoluene	<0.066		0.21	0.066	mg/Kg	☼	10/24/18 07:29	10/27/18 17:40	1
2,6-Dinitrotoluene	<0.082		0.21	0.082	mg/Kg	☼	10/24/18 07:29	10/27/18 17:40	1
Di-n-octyl phthalate	<0.068		0.21	0.068	mg/Kg	☼	10/24/18 07:29	10/27/18 17:40	1
Fluoranthene	1.2 *		0.041	0.0077	mg/Kg	☼	10/24/18 07:29	10/27/18 17:40	1
Fluorene	0.043		0.041	0.0058	mg/Kg	☼	10/24/18 07:29	10/27/18 17:40	1
Hexachlorobenzene	<0.0096		0.084	0.0096	mg/Kg	☼	10/24/18 07:29	10/27/18 17:40	1
Hexachlorobutadiene	<0.065		0.21	0.065	mg/Kg	☼	10/24/18 07:29	10/27/18 17:40	1
Hexachlorocyclopentadiene	<0.24		0.84	0.24	mg/Kg	☼	10/24/18 07:29	10/27/18 17:40	1
Hexachloroethane	<0.063		0.21	0.063	mg/Kg	☼	10/24/18 07:29	10/27/18 17:40	1
Indeno[1,2,3-cd]pyrene	0.25		0.041	0.011	mg/Kg	☼	10/24/18 07:29	10/27/18 17:40	1
Isophorone	<0.047		0.21	0.047	mg/Kg	☼	10/24/18 07:29	10/27/18 17:40	1
2-Methylnaphthalene	0.018 J		0.084	0.0076	mg/Kg	☼	10/24/18 07:29	10/27/18 17:40	1
2-Methylphenol	<0.067		0.21	0.067	mg/Kg	☼	10/24/18 07:29	10/27/18 17:40	1
3 & 4 Methylphenol	<0.069		0.21	0.069	mg/Kg	☼	10/24/18 07:29	10/27/18 17:40	1
Naphthalene	0.017 J		0.041	0.0064	mg/Kg	☼	10/24/18 07:29	10/27/18 17:40	1
2-Nitroaniline	<0.056		0.21	0.056	mg/Kg	☼	10/24/18 07:29	10/27/18 17:40	1
3-Nitroaniline	<0.13		0.41	0.13	mg/Kg	☼	10/24/18 07:29	10/27/18 17:40	1
4-Nitroaniline	<0.17		0.41	0.17	mg/Kg	☼	10/24/18 07:29	10/27/18 17:40	1
Nitrobenzene	<0.010		0.041	0.010	mg/Kg	☼	10/24/18 07:29	10/27/18 17:40	1
2-Nitrophenol	<0.098		0.41	0.098	mg/Kg	☼	10/24/18 07:29	10/27/18 17:40	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B11 (0-5)

Lab Sample ID: 500-153334-5

Date Collected: 10/17/18 09:25

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 79.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.40		0.84	0.40	mg/Kg	☼	10/24/18 07:29	10/27/18 17:40	1
N-Nitrosodi-n-propylamine	<0.051		0.084	0.051	mg/Kg	☼	10/24/18 07:29	10/27/18 17:40	1
N-Nitrosodiphenylamine	<0.049		0.21	0.049	mg/Kg	☼	10/24/18 07:29	10/27/18 17:40	1
2,2'-oxybis[1-chloropropane]	<0.048		0.21	0.048	mg/Kg	☼	10/24/18 07:29	10/27/18 17:40	1
Pentachlorophenol	<0.67		0.84	0.67	mg/Kg	☼	10/24/18 07:29	10/27/18 17:40	1
Phenanthrene	0.69		0.041	0.0058	mg/Kg	☼	10/24/18 07:29	10/27/18 17:40	1
Phenol	<0.092		0.21	0.092	mg/Kg	☼	10/24/18 07:29	10/27/18 17:40	1
Pyrene	1.4		0.041	0.0083	mg/Kg	☼	10/24/18 07:29	10/27/18 17:40	1
1,2,4-Trichlorobenzene	<0.045		0.21	0.045	mg/Kg	☼	10/24/18 07:29	10/27/18 17:40	1
2,4,5-Trichlorophenol	<0.095 *		0.41	0.095	mg/Kg	☼	10/24/18 07:29	10/27/18 17:40	1
2,4,6-Trichlorophenol	<0.14		0.41	0.14	mg/Kg	☼	10/24/18 07:29	10/27/18 17:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	93		43 - 145	10/24/18 07:29	10/27/18 17:40	1
2-Fluorophenol	125		31 - 166	10/24/18 07:29	10/27/18 17:40	1
Nitrobenzene-d5	100		37 - 147	10/24/18 07:29	10/27/18 17:40	1
Phenol-d5	122		30 - 153	10/24/18 07:29	10/27/18 17:40	1
Terphenyl-d14	163 X		42 - 157	10/24/18 07:29	10/27/18 17:40	1
2,4,6-Tribromophenol	103		31 - 143	10/24/18 07:29	10/27/18 17:40	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.52	J B	1.3	0.24	mg/Kg	☼	10/24/18 08:16	10/24/18 19:43	1
Arsenic	7.8		0.63	0.21	mg/Kg	☼	10/24/18 08:16	10/24/18 19:43	1
Barium	140		0.63	0.071	mg/Kg	☼	10/24/18 08:16	10/24/18 19:43	1
Beryllium	0.82		0.25	0.058	mg/Kg	☼	10/24/18 08:16	10/24/18 19:43	1
Cadmium	0.69	B	0.13	0.023	mg/Kg	☼	10/24/18 08:16	10/24/18 19:43	1
Chromium	25		0.63	0.31	mg/Kg	☼	10/24/18 08:16	10/24/18 19:43	1
Cobalt	8.6		0.31	0.082	mg/Kg	☼	10/24/18 08:16	10/24/18 19:43	1
Copper	34	B	0.63	0.18	mg/Kg	☼	10/24/18 08:16	10/24/18 19:43	1
Iron	19000		13	6.5	mg/Kg	☼	10/24/18 08:16	10/24/18 19:43	1
Lead	410	B	0.31	0.14	mg/Kg	☼	10/24/18 08:16	10/24/18 19:43	1
Magnesium	27000		6.3	3.1	mg/Kg	☼	10/24/18 08:16	10/24/18 19:43	1
Calcium	55000	B	63	11	mg/Kg	☼	10/24/18 08:16	10/25/18 12:24	5
Manganese	500		0.63	0.091	mg/Kg	☼	10/24/18 08:16	10/24/18 19:43	1
Nickel	23		0.63	0.18	mg/Kg	☼	10/24/18 08:16	10/24/18 19:43	1
Selenium	0.64		0.63	0.37	mg/Kg	☼	10/24/18 08:16	10/24/18 19:43	1
Silver	0.27	J	0.31	0.081	mg/Kg	☼	10/24/18 08:16	10/24/18 19:43	1
Thallium	<0.31		0.63	0.31	mg/Kg	☼	10/24/18 08:16	10/24/18 19:43	1
Vanadium	30		0.31	0.074	mg/Kg	☼	10/24/18 08:16	10/24/18 19:43	1
Zinc	180		1.3	0.55	mg/Kg	☼	10/24/18 08:16	10/24/18 19:43	1
Potassium	1600		31	11	mg/Kg	☼	10/24/18 08:16	10/24/18 19:43	1
Sodium	940		63	9.3	mg/Kg	☼	10/24/18 08:16	10/24/18 19:43	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		10/25/18 09:50	10/25/18 23:20	1
Barium	0.84		0.50	0.050	mg/L		10/25/18 09:50	10/25/18 23:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/25/18 09:50	10/25/18 23:20	1
Cadmium	0.0081		0.0050	0.0020	mg/L		10/25/18 09:50	10/25/18 23:20	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B11 (0-5)

Lab Sample ID: 500-153334-5

Date Collected: 10/17/18 09:25

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 79.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	350		5.0	0.50	mg/L		10/25/18 09:50	10/25/18 23:20	1
Chromium	<0.010		0.070	0.010	mg/L		10/25/18 09:50	10/25/18 23:20	1
Cobalt	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/25/18 23:20	1
Copper	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/25/18 23:20	1
Iron	<0.20		0.40	0.20	mg/L		10/25/18 09:50	10/25/18 23:20	1
Lead	0.063		0.0075	0.0075	mg/L		10/25/18 09:50	10/25/18 23:20	1
Magnesium	150		2.5	0.50	mg/L		10/25/18 09:50	10/25/18 23:20	1
Manganese	0.77		0.025	0.010	mg/L		10/25/18 09:50	10/25/18 23:20	1
Nickel	0.010	J	0.025	0.010	mg/L		10/25/18 09:50	10/25/18 23:20	1
Potassium	1.7	J	2.5	0.50	mg/L		10/25/18 09:50	10/25/18 23:20	1
Selenium	<0.020		0.050	0.020	mg/L		10/25/18 09:50	10/25/18 23:20	1
Silver	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/25/18 23:20	1
Vanadium	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/25/18 23:20	1
Zinc	0.23	J	0.50	0.020	mg/L		10/25/18 09:50	10/25/18 23:20	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0027	J	0.0050	0.0020	mg/L		10/25/18 15:13	10/26/18 16:48	1
Lead	1.1		0.0075	0.0075	mg/L		10/25/18 15:13	10/26/18 16:48	1
Manganese	1.4		0.025	0.010	mg/L		10/25/18 15:13	10/26/18 16:48	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		10/25/18 09:50	10/25/18 19:23	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/25/18 09:50	10/25/18 19:23	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		10/25/18 12:40	10/26/18 08:27	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.060		0.019	0.0064	mg/Kg	☼	10/23/18 15:50	10/24/18 10:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.20		0.59	0.20	mg/Kg	☼	10/26/18 11:10	10/26/18 15:17	1
pH	8.2		0.2	0.2	SU			10/24/18 14:48	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B12 (0-5)

Lab Sample ID: 500-153334-6

Date Collected: 10/17/18 09:10

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 79.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0087		0.020	0.0087	mg/Kg	☼	10/18/18 07:15	10/27/18 11:53	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg	☼	10/18/18 07:15	10/27/18 11:53	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg	☼	10/18/18 07:15	10/27/18 11:53	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg	☼	10/18/18 07:15	10/27/18 11:53	1
Bromomethane	<0.0019	*	0.0050	0.0019	mg/Kg	☼	10/18/18 07:15	10/27/18 11:53	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg	☼	10/18/18 07:15	10/27/18 11:53	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg	☼	10/18/18 07:15	10/27/18 11:53	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg	☼	10/18/18 07:15	10/27/18 11:53	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg	☼	10/18/18 07:15	10/27/18 11:53	1
Chloroethane	<0.0015	*	0.0050	0.0015	mg/Kg	☼	10/18/18 07:15	10/27/18 11:53	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg	☼	10/18/18 07:15	10/27/18 11:53	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg	☼	10/18/18 07:15	10/27/18 11:53	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg	☼	10/18/18 07:15	10/27/18 11:53	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg	☼	10/18/18 07:15	10/27/18 11:53	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg	☼	10/18/18 07:15	10/27/18 11:53	1
1,1-Dichloroethane	<0.00068		0.0020	0.00068	mg/Kg	☼	10/18/18 07:15	10/27/18 11:53	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg	☼	10/18/18 07:15	10/27/18 11:53	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg	☼	10/18/18 07:15	10/27/18 11:53	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg	☼	10/18/18 07:15	10/27/18 11:53	1
1,3-Dichloropropene, Total	<0.00070		0.0020	0.00070	mg/Kg	☼	10/18/18 07:15	10/27/18 11:53	1
Ethylbenzene	<0.00095		0.0020	0.00095	mg/Kg	☼	10/18/18 07:15	10/27/18 11:53	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg	☼	10/18/18 07:15	10/27/18 11:53	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg	☼	10/18/18 07:15	10/27/18 11:53	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg	☼	10/18/18 07:15	10/27/18 11:53	1
Methyl tert-butyl ether	<0.00058		0.0020	0.00058	mg/Kg	☼	10/18/18 07:15	10/27/18 11:53	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg	☼	10/18/18 07:15	10/27/18 11:53	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg	☼	10/18/18 07:15	10/27/18 11:53	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg	☼	10/18/18 07:15	10/27/18 11:53	1
Toluene	<0.00050		0.0020	0.00050	mg/Kg	☼	10/18/18 07:15	10/27/18 11:53	1
trans-1,2-Dichloroethene	<0.00088		0.0020	0.00088	mg/Kg	☼	10/18/18 07:15	10/27/18 11:53	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg	☼	10/18/18 07:15	10/27/18 11:53	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg	☼	10/18/18 07:15	10/27/18 11:53	1
1,1,2-Trichloroethane	<0.00085		0.0020	0.00085	mg/Kg	☼	10/18/18 07:15	10/27/18 11:53	1
Trichloroethene	<0.00067		0.0020	0.00067	mg/Kg	☼	10/18/18 07:15	10/27/18 11:53	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg	☼	10/18/18 07:15	10/27/18 11:53	1
Vinyl chloride	<0.00088		0.0020	0.00088	mg/Kg	☼	10/18/18 07:15	10/27/18 11:53	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg	☼	10/18/18 07:15	10/27/18 11:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		75 - 131	10/18/18 07:15	10/27/18 11:53	1
Dibromofluoromethane	100		75 - 126	10/18/18 07:15	10/27/18 11:53	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	10/18/18 07:15	10/27/18 11:53	1
Toluene-d8 (Surr)	96		75 - 124	10/18/18 07:15	10/27/18 11:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.013	J	0.041	0.0075	mg/Kg	☼	10/24/18 07:29	10/27/18 18:08	1
Acenaphthylene	0.028	J	0.041	0.0055	mg/Kg	☼	10/24/18 07:29	10/27/18 18:08	1
Anthracene	0.051	*	0.041	0.0069	mg/Kg	☼	10/24/18 07:29	10/27/18 18:08	1
Benzo[a]anthracene	0.25		0.041	0.0056	mg/Kg	☼	10/24/18 07:29	10/27/18 18:08	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B12 (0-5)

Lab Sample ID: 500-153334-6

Date Collected: 10/17/18 09:10

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 79.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.33		0.041	0.0080	mg/Kg	☼	10/24/18 07:29	10/27/18 18:08	1
Benzo[b]fluoranthene	0.63		0.041	0.0090	mg/Kg	☼	10/24/18 07:29	10/27/18 18:08	1
Benzo[g,h,i]perylene	0.18		0.041	0.013	mg/Kg	☼	10/24/18 07:29	10/27/18 18:08	1
Benzo[k]fluoranthene	0.21		0.041	0.012	mg/Kg	☼	10/24/18 07:29	10/27/18 18:08	1
Bis(2-chloroethoxy)methane	<0.042		0.21	0.042	mg/Kg	☼	10/24/18 07:29	10/27/18 18:08	1
Bis(2-chloroethyl)ether	<0.062		0.21	0.062	mg/Kg	☼	10/24/18 07:29	10/27/18 18:08	1
Bis(2-ethylhexyl) phthalate	0.080	J	0.21	0.076	mg/Kg	☼	10/24/18 07:29	10/27/18 18:08	1
4-Bromophenyl phenyl ether	<0.055		0.21	0.055	mg/Kg	☼	10/24/18 07:29	10/27/18 18:08	1
Butyl benzyl phthalate	<0.079		0.21	0.079	mg/Kg	☼	10/24/18 07:29	10/27/18 18:08	1
Carbazole	<0.10		0.21	0.10	mg/Kg	☼	10/24/18 07:29	10/27/18 18:08	1
4-Chloroaniline	<0.20		0.84	0.20	mg/Kg	☼	10/24/18 07:29	10/27/18 18:08	1
4-Chloro-3-methylphenol	<0.14		0.41	0.14	mg/Kg	☼	10/24/18 07:29	10/27/18 18:08	1
2-Chloronaphthalene	<0.046		0.21	0.046	mg/Kg	☼	10/24/18 07:29	10/27/18 18:08	1
2-Chlorophenol	<0.071		0.21	0.071	mg/Kg	☼	10/24/18 07:29	10/27/18 18:08	1
4-Chlorophenyl phenyl ether	<0.049		0.21	0.049	mg/Kg	☼	10/24/18 07:29	10/27/18 18:08	1
Chrysene	0.32		0.041	0.011	mg/Kg	☼	10/24/18 07:29	10/27/18 18:08	1
Dibenz(a,h)anthracene	0.042		0.041	0.0080	mg/Kg	☼	10/24/18 07:29	10/27/18 18:08	1
Dibenzofuran	<0.049		0.21	0.049	mg/Kg	☼	10/24/18 07:29	10/27/18 18:08	1
1,2-Dichlorobenzene	<0.050		0.21	0.050	mg/Kg	☼	10/24/18 07:29	10/27/18 18:08	1
1,3-Dichlorobenzene	<0.047		0.21	0.047	mg/Kg	☼	10/24/18 07:29	10/27/18 18:08	1
1,4-Dichlorobenzene	<0.053		0.21	0.053	mg/Kg	☼	10/24/18 07:29	10/27/18 18:08	1
3,3'-Dichlorobenzidine	<0.058		0.21	0.058	mg/Kg	☼	10/24/18 07:29	10/27/18 18:08	1
2,4-Dichlorophenol	<0.099		0.41	0.099	mg/Kg	☼	10/24/18 07:29	10/27/18 18:08	1
Diethyl phthalate	<0.070		0.21	0.070	mg/Kg	☼	10/24/18 07:29	10/27/18 18:08	1
2,4-Dimethylphenol	<0.16		0.41	0.16	mg/Kg	☼	10/24/18 07:29	10/27/18 18:08	1
Dimethyl phthalate	<0.054		0.21	0.054	mg/Kg	☼	10/24/18 07:29	10/27/18 18:08	1
Di-n-butyl phthalate	<0.063		0.21	0.063	mg/Kg	☼	10/24/18 07:29	10/27/18 18:08	1
4,6-Dinitro-2-methylphenol	<0.33		0.84	0.33	mg/Kg	☼	10/24/18 07:29	10/27/18 18:08	1
2,4-Dinitrophenol	<0.73		0.84	0.73	mg/Kg	☼	10/24/18 07:29	10/27/18 18:08	1
2,4-Dinitrotoluene	<0.066		0.21	0.066	mg/Kg	☼	10/24/18 07:29	10/27/18 18:08	1
2,6-Dinitrotoluene	<0.082		0.21	0.082	mg/Kg	☼	10/24/18 07:29	10/27/18 18:08	1
Di-n-octyl phthalate	<0.068		0.21	0.068	mg/Kg	☼	10/24/18 07:29	10/27/18 18:08	1
Fluoranthene	0.61	*	0.041	0.0077	mg/Kg	☼	10/24/18 07:29	10/27/18 18:08	1
Fluorene	0.015	J	0.041	0.0058	mg/Kg	☼	10/24/18 07:29	10/27/18 18:08	1
Hexachlorobenzene	<0.0096		0.084	0.0096	mg/Kg	☼	10/24/18 07:29	10/27/18 18:08	1
Hexachlorobutadiene	<0.065		0.21	0.065	mg/Kg	☼	10/24/18 07:29	10/27/18 18:08	1
Hexachlorocyclopentadiene	<0.24		0.84	0.24	mg/Kg	☼	10/24/18 07:29	10/27/18 18:08	1
Hexachloroethane	<0.063		0.21	0.063	mg/Kg	☼	10/24/18 07:29	10/27/18 18:08	1
Indeno[1,2,3-cd]pyrene	0.14		0.041	0.011	mg/Kg	☼	10/24/18 07:29	10/27/18 18:08	1
Isophorone	<0.047		0.21	0.047	mg/Kg	☼	10/24/18 07:29	10/27/18 18:08	1
2-Methylnaphthalene	0.019	J	0.084	0.0076	mg/Kg	☼	10/24/18 07:29	10/27/18 18:08	1
2-Methylphenol	<0.067		0.21	0.067	mg/Kg	☼	10/24/18 07:29	10/27/18 18:08	1
3 & 4 Methylphenol	<0.069		0.21	0.069	mg/Kg	☼	10/24/18 07:29	10/27/18 18:08	1
Naphthalene	0.015	J	0.041	0.0064	mg/Kg	☼	10/24/18 07:29	10/27/18 18:08	1
2-Nitroaniline	<0.056		0.21	0.056	mg/Kg	☼	10/24/18 07:29	10/27/18 18:08	1
3-Nitroaniline	<0.13		0.41	0.13	mg/Kg	☼	10/24/18 07:29	10/27/18 18:08	1
4-Nitroaniline	<0.17		0.41	0.17	mg/Kg	☼	10/24/18 07:29	10/27/18 18:08	1
Nitrobenzene	<0.010		0.041	0.010	mg/Kg	☼	10/24/18 07:29	10/27/18 18:08	1
2-Nitrophenol	<0.098		0.41	0.098	mg/Kg	☼	10/24/18 07:29	10/27/18 18:08	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B12 (0-5)

Lab Sample ID: 500-153334-6

Date Collected: 10/17/18 09:10

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 79.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.40		0.84	0.40	mg/Kg	☼	10/24/18 07:29	10/27/18 18:08	1
N-Nitrosodi-n-propylamine	<0.051		0.084	0.051	mg/Kg	☼	10/24/18 07:29	10/27/18 18:08	1
N-Nitrosodiphenylamine	<0.049		0.21	0.049	mg/Kg	☼	10/24/18 07:29	10/27/18 18:08	1
2,2'-oxybis[1-chloropropane]	<0.048		0.21	0.048	mg/Kg	☼	10/24/18 07:29	10/27/18 18:08	1
Pentachlorophenol	<0.67		0.84	0.67	mg/Kg	☼	10/24/18 07:29	10/27/18 18:08	1
Phenanthrene	0.26		0.041	0.0058	mg/Kg	☼	10/24/18 07:29	10/27/18 18:08	1
Phenol	<0.092		0.21	0.092	mg/Kg	☼	10/24/18 07:29	10/27/18 18:08	1
Pyrene	0.81		0.041	0.0083	mg/Kg	☼	10/24/18 07:29	10/27/18 18:08	1
1,2,4-Trichlorobenzene	<0.045		0.21	0.045	mg/Kg	☼	10/24/18 07:29	10/27/18 18:08	1
2,4,5-Trichlorophenol	<0.095 *		0.41	0.095	mg/Kg	☼	10/24/18 07:29	10/27/18 18:08	1
2,4,6-Trichlorophenol	<0.14		0.41	0.14	mg/Kg	☼	10/24/18 07:29	10/27/18 18:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	87		43 - 145	10/24/18 07:29	10/27/18 18:08	1
2-Fluorophenol	143		31 - 166	10/24/18 07:29	10/27/18 18:08	1
Nitrobenzene-d5	114		37 - 147	10/24/18 07:29	10/27/18 18:08	1
Phenol-d5	135		30 - 153	10/24/18 07:29	10/27/18 18:08	1
Terphenyl-d14	196 X		42 - 157	10/24/18 07:29	10/27/18 18:08	1
2,4,6-Tribromophenol	123		31 - 143	10/24/18 07:29	10/27/18 18:08	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.57	J B	1.2	0.23	mg/Kg	☼	10/24/18 08:16	10/24/18 19:47	1
Arsenic	9.6		0.60	0.21	mg/Kg	☼	10/24/18 08:16	10/24/18 19:47	1
Barium	54		0.60	0.068	mg/Kg	☼	10/24/18 08:16	10/24/18 19:47	1
Beryllium	0.48		0.24	0.056	mg/Kg	☼	10/24/18 08:16	10/24/18 19:47	1
Cadmium	0.42	B	0.12	0.022	mg/Kg	☼	10/24/18 08:16	10/24/18 19:47	1
Chromium	17		0.60	0.30	mg/Kg	☼	10/24/18 08:16	10/24/18 19:47	1
Cobalt	5.3		0.30	0.079	mg/Kg	☼	10/24/18 08:16	10/24/18 19:47	1
Copper	20	B	0.60	0.17	mg/Kg	☼	10/24/18 08:16	10/24/18 19:47	1
Iron	17000		60	31	mg/Kg	☼	10/24/18 08:16	10/25/18 12:28	5
Lead	190	B	0.30	0.14	mg/Kg	☼	10/24/18 08:16	10/24/18 19:47	1
Magnesium	81000		30	15	mg/Kg	☼	10/24/18 08:16	10/25/18 12:28	5
Calcium	130000	B	60	10	mg/Kg	☼	10/24/18 08:16	10/25/18 12:28	5
Manganese	390		0.60	0.087	mg/Kg	☼	10/24/18 08:16	10/24/18 19:47	1
Nickel	15		0.60	0.17	mg/Kg	☼	10/24/18 08:16	10/24/18 19:47	1
Selenium	<0.35		0.60	0.35	mg/Kg	☼	10/24/18 08:16	10/24/18 19:47	1
Silver	0.11	J	0.30	0.077	mg/Kg	☼	10/24/18 08:16	10/24/18 19:47	1
Thallium	<0.30		0.60	0.30	mg/Kg	☼	10/24/18 08:16	10/24/18 19:47	1
Vanadium	21		0.30	0.071	mg/Kg	☼	10/24/18 08:16	10/24/18 19:47	1
Zinc	95		1.2	0.53	mg/Kg	☼	10/24/18 08:16	10/24/18 19:47	1
Potassium	1100		30	11	mg/Kg	☼	10/24/18 08:16	10/24/18 19:47	1
Sodium	610		60	8.9	mg/Kg	☼	10/24/18 08:16	10/24/18 19:47	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		10/25/18 09:50	10/25/18 23:24	1
Barium	0.86		0.50	0.050	mg/L		10/25/18 09:50	10/25/18 23:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/25/18 09:50	10/25/18 23:24	1
Cadmium	0.0085		0.0050	0.0020	mg/L		10/25/18 09:50	10/25/18 23:24	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B12 (0-5)

Lab Sample ID: 500-153334-6

Date Collected: 10/17/18 09:10

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 79.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	360		5.0	0.50	mg/L	-	10/25/18 09:50	10/25/18 23:24	1
Chromium	<0.010		0.070	0.010	mg/L	-	10/25/18 09:50	10/25/18 23:24	1
Cobalt	<0.010		0.025	0.010	mg/L	-	10/25/18 09:50	10/25/18 23:24	1
Copper	0.022	J	0.025	0.010	mg/L	-	10/25/18 09:50	10/25/18 23:24	1
Iron	<0.20		0.40	0.20	mg/L	-	10/25/18 09:50	10/25/18 23:24	1
Lead	0.045		0.0075	0.0075	mg/L	-	10/25/18 09:50	10/25/18 23:24	1
Magnesium	170		2.5	0.50	mg/L	-	10/25/18 09:50	10/25/18 23:24	1
Manganese	1.3		0.025	0.010	mg/L	-	10/25/18 09:50	10/25/18 23:24	1
Nickel	0.012	J	0.025	0.010	mg/L	-	10/25/18 09:50	10/25/18 23:24	1
Potassium	2.6		2.5	0.50	mg/L	-	10/25/18 09:50	10/25/18 23:24	1
Selenium	<0.020		0.050	0.020	mg/L	-	10/25/18 09:50	10/25/18 23:24	1
Silver	<0.010		0.025	0.010	mg/L	-	10/25/18 09:50	10/25/18 23:24	1
Vanadium	<0.010		0.025	0.010	mg/L	-	10/25/18 09:50	10/25/18 23:24	1
Zinc	0.43	J	0.50	0.020	mg/L	-	10/25/18 09:50	10/25/18 23:24	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0028	J	0.0050	0.0020	mg/L	-	10/25/18 15:13	10/26/18 16:52	1
Lead	0.79		0.0075	0.0075	mg/L	-	10/25/18 15:13	10/26/18 16:52	1
Manganese	1.8		0.025	0.010	mg/L	-	10/25/18 15:13	10/26/18 16:52	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	-	10/25/18 09:50	10/25/18 19:24	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	10/25/18 09:50	10/25/18 19:24	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	-	10/25/18 12:40	10/26/18 08:33	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.041		0.019	0.0063	mg/Kg	☼	10/23/18 15:50	10/24/18 10:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.21		0.61	0.21	mg/Kg	☼	10/26/18 11:10	10/26/18 15:17	1
pH	8.4		0.2	0.2	SU			10/24/18 14:51	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B36 (0-5)

Lab Sample ID: 500-153334-7

Date Collected: 10/17/18 14:45

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0080		0.018	0.0080	mg/Kg	☼	10/18/18 07:15	10/27/18 12:19	1
Benzene	<0.00047		0.0018	0.00047	mg/Kg	☼	10/18/18 07:15	10/27/18 12:19	1
Bromodichloromethane	<0.00037		0.0018	0.00037	mg/Kg	☼	10/18/18 07:15	10/27/18 12:19	1
Bromoform	<0.00054		0.0018	0.00054	mg/Kg	☼	10/18/18 07:15	10/27/18 12:19	1
Bromomethane	<0.0017	*	0.0046	0.0017	mg/Kg	☼	10/18/18 07:15	10/27/18 12:19	1
2-Butanone (MEK)	<0.0020		0.0046	0.0020	mg/Kg	☼	10/18/18 07:15	10/27/18 12:19	1
Carbon disulfide	<0.00095		0.0046	0.00095	mg/Kg	☼	10/18/18 07:15	10/27/18 12:19	1
Carbon tetrachloride	<0.00053		0.0018	0.00053	mg/Kg	☼	10/18/18 07:15	10/27/18 12:19	1
Chlorobenzene	<0.00068		0.0018	0.00068	mg/Kg	☼	10/18/18 07:15	10/27/18 12:19	1
Chloroethane	<0.0014	*	0.0046	0.0014	mg/Kg	☼	10/18/18 07:15	10/27/18 12:19	1
Chloroform	<0.00064		0.0018	0.00064	mg/Kg	☼	10/18/18 07:15	10/27/18 12:19	1
Chloromethane	<0.0018		0.0046	0.0018	mg/Kg	☼	10/18/18 07:15	10/27/18 12:19	1
cis-1,2-Dichloroethene	<0.00051		0.0018	0.00051	mg/Kg	☼	10/18/18 07:15	10/27/18 12:19	1
cis-1,3-Dichloropropene	<0.00055		0.0018	0.00055	mg/Kg	☼	10/18/18 07:15	10/27/18 12:19	1
Dibromochloromethane	<0.00060		0.0018	0.00060	mg/Kg	☼	10/18/18 07:15	10/27/18 12:19	1
1,1-Dichloroethane	<0.00063		0.0018	0.00063	mg/Kg	☼	10/18/18 07:15	10/27/18 12:19	1
1,2-Dichloroethane	<0.0014		0.0046	0.0014	mg/Kg	☼	10/18/18 07:15	10/27/18 12:19	1
1,1-Dichloroethene	<0.00063		0.0018	0.00063	mg/Kg	☼	10/18/18 07:15	10/27/18 12:19	1
1,2-Dichloropropane	<0.00047		0.0018	0.00047	mg/Kg	☼	10/18/18 07:15	10/27/18 12:19	1
1,3-Dichloropropene, Total	<0.00064		0.0018	0.00064	mg/Kg	☼	10/18/18 07:15	10/27/18 12:19	1
Ethylbenzene	<0.00088		0.0018	0.00088	mg/Kg	☼	10/18/18 07:15	10/27/18 12:19	1
2-Hexanone	<0.0014		0.0046	0.0014	mg/Kg	☼	10/18/18 07:15	10/27/18 12:19	1
Methylene Chloride	<0.0018		0.0046	0.0018	mg/Kg	☼	10/18/18 07:15	10/27/18 12:19	1
4-Methyl-2-pentanone (MIBK)	<0.0014		0.0046	0.0014	mg/Kg	☼	10/18/18 07:15	10/27/18 12:19	1
Methyl tert-butyl ether	<0.00054		0.0018	0.00054	mg/Kg	☼	10/18/18 07:15	10/27/18 12:19	1
Styrene	<0.00055		0.0018	0.00055	mg/Kg	☼	10/18/18 07:15	10/27/18 12:19	1
1,1,2,2-Tetrachloroethane	<0.00059		0.0018	0.00059	mg/Kg	☼	10/18/18 07:15	10/27/18 12:19	1
Tetrachloroethene	<0.00062		0.0018	0.00062	mg/Kg	☼	10/18/18 07:15	10/27/18 12:19	1
Toluene	<0.00046		0.0018	0.00046	mg/Kg	☼	10/18/18 07:15	10/27/18 12:19	1
trans-1,2-Dichloroethene	<0.00081		0.0018	0.00081	mg/Kg	☼	10/18/18 07:15	10/27/18 12:19	1
trans-1,3-Dichloropropene	<0.00064		0.0018	0.00064	mg/Kg	☼	10/18/18 07:15	10/27/18 12:19	1
1,1,1-Trichloroethane	<0.00062		0.0018	0.00062	mg/Kg	☼	10/18/18 07:15	10/27/18 12:19	1
1,1,2-Trichloroethane	<0.00079		0.0018	0.00079	mg/Kg	☼	10/18/18 07:15	10/27/18 12:19	1
Trichloroethene	<0.00062		0.0018	0.00062	mg/Kg	☼	10/18/18 07:15	10/27/18 12:19	1
Vinyl acetate	<0.0016		0.0046	0.0016	mg/Kg	☼	10/18/18 07:15	10/27/18 12:19	1
Vinyl chloride	<0.00081		0.0018	0.00081	mg/Kg	☼	10/18/18 07:15	10/27/18 12:19	1
Xylenes, Total	<0.00059		0.0037	0.00059	mg/Kg	☼	10/18/18 07:15	10/27/18 12:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		75 - 131	10/18/18 07:15	10/27/18 12:19	1
Dibromofluoromethane	104		75 - 126	10/18/18 07:15	10/27/18 12:19	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134	10/18/18 07:15	10/27/18 12:19	1
Toluene-d8 (Surr)	94		75 - 124	10/18/18 07:15	10/27/18 12:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0071		0.039	0.0071	mg/Kg	☼	10/24/18 07:29	10/27/18 13:22	1
Acenaphthylene	0.0065	J	0.039	0.0052	mg/Kg	☼	10/24/18 07:29	10/27/18 13:22	1
Anthracene	0.0066	J *	0.039	0.0066	mg/Kg	☼	10/24/18 07:29	10/27/18 13:22	1
Benzo[a]anthracene	0.044		0.039	0.0053	mg/Kg	☼	10/24/18 07:29	10/27/18 13:22	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B36 (0-5)

Lab Sample ID: 500-153334-7

Date Collected: 10/17/18 14:45

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.065		0.039	0.0076	mg/Kg	☼	10/24/18 07:29	10/27/18 13:22	1
Benzo[b]fluoranthene	0.11		0.039	0.0085	mg/Kg	☼	10/24/18 07:29	10/27/18 13:22	1
Benzo[g,h,i]perylene	0.033	J	0.039	0.013	mg/Kg	☼	10/24/18 07:29	10/27/18 13:22	1
Benzo[k]fluoranthene	0.042		0.039	0.012	mg/Kg	☼	10/24/18 07:29	10/27/18 13:22	1
Bis(2-chloroethoxy)methane	<0.040		0.20	0.040	mg/Kg	☼	10/24/18 07:29	10/27/18 13:22	1
Bis(2-chloroethyl)ether	<0.059		0.20	0.059	mg/Kg	☼	10/24/18 07:29	10/27/18 13:22	1
Bis(2-ethylhexyl) phthalate	<0.072		0.20	0.072	mg/Kg	☼	10/24/18 07:29	10/27/18 13:22	1
4-Bromophenyl phenyl ether	<0.052		0.20	0.052	mg/Kg	☼	10/24/18 07:29	10/27/18 13:22	1
Butyl benzyl phthalate	<0.075		0.20	0.075	mg/Kg	☼	10/24/18 07:29	10/27/18 13:22	1
Carbazole	<0.098		0.20	0.098	mg/Kg	☼	10/24/18 07:29	10/27/18 13:22	1
4-Chloroaniline	<0.18		0.79	0.18	mg/Kg	☼	10/24/18 07:29	10/27/18 13:22	1
4-Chloro-3-methylphenol	<0.13		0.39	0.13	mg/Kg	☼	10/24/18 07:29	10/27/18 13:22	1
2-Chloronaphthalene	<0.043		0.20	0.043	mg/Kg	☼	10/24/18 07:29	10/27/18 13:22	1
2-Chlorophenol	<0.067		0.20	0.067	mg/Kg	☼	10/24/18 07:29	10/27/18 13:22	1
4-Chlorophenyl phenyl ether	<0.046		0.20	0.046	mg/Kg	☼	10/24/18 07:29	10/27/18 13:22	1
Chrysene	0.069		0.039	0.011	mg/Kg	☼	10/24/18 07:29	10/27/18 13:22	1
Dibenz(a,h)anthracene	<0.0076		0.039	0.0076	mg/Kg	☼	10/24/18 07:29	10/27/18 13:22	1
Dibenzofuran	<0.046		0.20	0.046	mg/Kg	☼	10/24/18 07:29	10/27/18 13:22	1
1,2-Dichlorobenzene	<0.047		0.20	0.047	mg/Kg	☼	10/24/18 07:29	10/27/18 13:22	1
1,3-Dichlorobenzene	<0.044		0.20	0.044	mg/Kg	☼	10/24/18 07:29	10/27/18 13:22	1
1,4-Dichlorobenzene	<0.050		0.20	0.050	mg/Kg	☼	10/24/18 07:29	10/27/18 13:22	1
3,3'-Dichlorobenzidine	<0.055		0.20	0.055	mg/Kg	☼	10/24/18 07:29	10/27/18 13:22	1
2,4-Dichlorophenol	<0.093		0.39	0.093	mg/Kg	☼	10/24/18 07:29	10/27/18 13:22	1
Diethyl phthalate	<0.066		0.20	0.066	mg/Kg	☼	10/24/18 07:29	10/27/18 13:22	1
2,4-Dimethylphenol	<0.15		0.39	0.15	mg/Kg	☼	10/24/18 07:29	10/27/18 13:22	1
Dimethyl phthalate	<0.051		0.20	0.051	mg/Kg	☼	10/24/18 07:29	10/27/18 13:22	1
Di-n-butyl phthalate	<0.060		0.20	0.060	mg/Kg	☼	10/24/18 07:29	10/27/18 13:22	1
4,6-Dinitro-2-methylphenol	<0.32		0.79	0.32	mg/Kg	☼	10/24/18 07:29	10/27/18 13:22	1
2,4-Dinitrophenol	<0.69		0.79	0.69	mg/Kg	☼	10/24/18 07:29	10/27/18 13:22	1
2,4-Dinitrotoluene	<0.062		0.20	0.062	mg/Kg	☼	10/24/18 07:29	10/27/18 13:22	1
2,6-Dinitrotoluene	<0.077		0.20	0.077	mg/Kg	☼	10/24/18 07:29	10/27/18 13:22	1
Di-n-octyl phthalate	<0.064		0.20	0.064	mg/Kg	☼	10/24/18 07:29	10/27/18 13:22	1
Fluoranthene	0.11	*	0.039	0.0073	mg/Kg	☼	10/24/18 07:29	10/27/18 13:22	1
Fluorene	<0.0055		0.039	0.0055	mg/Kg	☼	10/24/18 07:29	10/27/18 13:22	1
Hexachlorobenzene	<0.0091		0.079	0.0091	mg/Kg	☼	10/24/18 07:29	10/27/18 13:22	1
Hexachlorobutadiene	<0.062		0.20	0.062	mg/Kg	☼	10/24/18 07:29	10/27/18 13:22	1
Hexachlorocyclopentadiene	<0.23		0.79	0.23	mg/Kg	☼	10/24/18 07:29	10/27/18 13:22	1
Hexachloroethane	<0.060		0.20	0.060	mg/Kg	☼	10/24/18 07:29	10/27/18 13:22	1
Indeno[1,2,3-cd]pyrene	0.028	J	0.039	0.010	mg/Kg	☼	10/24/18 07:29	10/27/18 13:22	1
Isophorone	<0.044		0.20	0.044	mg/Kg	☼	10/24/18 07:29	10/27/18 13:22	1
2-Methylnaphthalene	<0.0072		0.079	0.0072	mg/Kg	☼	10/24/18 07:29	10/27/18 13:22	1
2-Methylphenol	<0.063		0.20	0.063	mg/Kg	☼	10/24/18 07:29	10/27/18 13:22	1
3 & 4 Methylphenol	<0.065		0.20	0.065	mg/Kg	☼	10/24/18 07:29	10/27/18 13:22	1
Naphthalene	<0.0060		0.039	0.0060	mg/Kg	☼	10/24/18 07:29	10/27/18 13:22	1
2-Nitroaniline	<0.053		0.20	0.053	mg/Kg	☼	10/24/18 07:29	10/27/18 13:22	1
3-Nitroaniline	<0.12		0.39	0.12	mg/Kg	☼	10/24/18 07:29	10/27/18 13:22	1
4-Nitroaniline	<0.16		0.39	0.16	mg/Kg	☼	10/24/18 07:29	10/27/18 13:22	1
Nitrobenzene	<0.0098		0.039	0.0098	mg/Kg	☼	10/24/18 07:29	10/27/18 13:22	1
2-Nitrophenol	<0.093		0.39	0.093	mg/Kg	☼	10/24/18 07:29	10/27/18 13:22	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B36 (0-5)

Lab Sample ID: 500-153334-7

Date Collected: 10/17/18 14:45

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.37		0.79	0.37	mg/Kg	☼	10/24/18 07:29	10/27/18 13:22	1
N-Nitrosodi-n-propylamine	<0.048		0.079	0.048	mg/Kg	☼	10/24/18 07:29	10/27/18 13:22	1
N-Nitrosodiphenylamine	<0.046		0.20	0.046	mg/Kg	☼	10/24/18 07:29	10/27/18 13:22	1
2,2'-oxybis[1-chloropropane]	<0.045		0.20	0.045	mg/Kg	☼	10/24/18 07:29	10/27/18 13:22	1
Pentachlorophenol	<0.63		0.79	0.63	mg/Kg	☼	10/24/18 07:29	10/27/18 13:22	1
Phenanthrene	0.038	J	0.039	0.0055	mg/Kg	☼	10/24/18 07:29	10/27/18 13:22	1
Phenol	<0.087		0.20	0.087	mg/Kg	☼	10/24/18 07:29	10/27/18 13:22	1
Pyrene	0.099		0.039	0.0078	mg/Kg	☼	10/24/18 07:29	10/27/18 13:22	1
1,2,4-Trichlorobenzene	<0.042		0.20	0.042	mg/Kg	☼	10/24/18 07:29	10/27/18 13:22	1
2,4,5-Trichlorophenol	<0.090	*	0.39	0.090	mg/Kg	☼	10/24/18 07:29	10/27/18 13:22	1
2,4,6-Trichlorophenol	<0.13		0.39	0.13	mg/Kg	☼	10/24/18 07:29	10/27/18 13:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	114		43 - 145	10/24/18 07:29	10/27/18 13:22	1
2-Fluorophenol	160		31 - 166	10/24/18 07:29	10/27/18 13:22	1
Nitrobenzene-d5	125		37 - 147	10/24/18 07:29	10/27/18 13:22	1
Phenol-d5	146		30 - 153	10/24/18 07:29	10/27/18 13:22	1
Terphenyl-d14	141		42 - 157	10/24/18 07:29	10/27/18 13:22	1
2,4,6-Tribromophenol	120		31 - 143	10/24/18 07:29	10/27/18 13:22	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.53	J B	1.2	0.23	mg/Kg	☼	10/24/18 08:16	10/24/18 19:51	1
Arsenic	8.7		0.59	0.20	mg/Kg	☼	10/24/18 08:16	10/24/18 19:51	1
Barium	82		0.59	0.068	mg/Kg	☼	10/24/18 08:16	10/24/18 19:51	1
Beryllium	0.60		0.24	0.056	mg/Kg	☼	10/24/18 08:16	10/24/18 19:51	1
Cadmium	0.23	B	0.12	0.021	mg/Kg	☼	10/24/18 08:16	10/24/18 19:51	1
Chromium	16		0.59	0.29	mg/Kg	☼	10/24/18 08:16	10/24/18 19:51	1
Cobalt	12		0.30	0.078	mg/Kg	☼	10/24/18 08:16	10/24/18 19:51	1
Copper	20	B	0.59	0.17	mg/Kg	☼	10/24/18 08:16	10/24/18 19:51	1
Iron	18000		12	6.2	mg/Kg	☼	10/24/18 08:16	10/24/18 19:51	1
Lead	91	B	0.30	0.14	mg/Kg	☼	10/24/18 08:16	10/24/18 19:51	1
Magnesium	5500		5.9	2.9	mg/Kg	☼	10/24/18 08:16	10/24/18 19:51	1
Calcium	7200	B	12	2.0	mg/Kg	☼	10/24/18 08:16	10/24/18 19:51	1
Manganese	510		0.59	0.086	mg/Kg	☼	10/24/18 08:16	10/24/18 19:51	1
Nickel	25		0.59	0.17	mg/Kg	☼	10/24/18 08:16	10/24/18 19:51	1
Selenium	0.47	J	0.59	0.35	mg/Kg	☼	10/24/18 08:16	10/24/18 19:51	1
Silver	0.27	J	0.30	0.077	mg/Kg	☼	10/24/18 08:16	10/24/18 19:51	1
Thallium	<0.30		0.59	0.30	mg/Kg	☼	10/24/18 08:16	10/24/18 19:51	1
Vanadium	26		0.30	0.070	mg/Kg	☼	10/24/18 08:16	10/24/18 19:51	1
Zinc	85		1.2	0.52	mg/Kg	☼	10/24/18 08:16	10/24/18 19:51	1
Potassium	1500		30	11	mg/Kg	☼	10/24/18 08:16	10/24/18 19:51	1
Sodium	670		59	8.8	mg/Kg	☼	10/24/18 08:16	10/24/18 19:51	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		10/25/18 09:50	10/25/18 23:29	1
Barium	0.61		0.50	0.050	mg/L		10/25/18 09:50	10/25/18 23:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/25/18 09:50	10/25/18 23:29	1
Cadmium	0.0033	J	0.0050	0.0020	mg/L		10/25/18 09:50	10/25/18 23:29	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B36 (0-5)

Lab Sample ID: 500-153334-7

Date Collected: 10/17/18 14:45

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 84.1

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		10/25/18 09:50	10/25/18 23:29	1
Chromium	<0.010		0.070	0.010	mg/L		10/25/18 09:50	10/25/18 23:29	1
Cobalt	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/25/18 23:29	1
Copper	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/25/18 23:29	1
Iron	<0.20		0.40	0.20	mg/L		10/25/18 09:50	10/25/18 23:29	1
Lead	0.0076		0.0075	0.0075	mg/L		10/25/18 09:50	10/25/18 23:29	1
Magnesium	80		2.5	0.50	mg/L		10/25/18 09:50	10/25/18 23:29	1
Manganese	0.44		0.025	0.010	mg/L		10/25/18 09:50	10/25/18 23:29	1
Nickel	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/25/18 23:29	1
Potassium	3.1		2.5	0.50	mg/L		10/25/18 09:50	10/25/18 23:29	1
Selenium	<0.020		0.050	0.020	mg/L		10/25/18 09:50	10/25/18 23:29	1
Silver	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/25/18 23:29	1
Vanadium	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/25/18 23:29	1
Zinc	0.066	J	0.50	0.020	mg/L		10/25/18 09:50	10/25/18 23:29	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.40		0.0075	0.0075	mg/L		10/25/18 15:13	10/26/18 16:56	1
Manganese	2.3		0.025	0.010	mg/L		10/25/18 15:13	10/26/18 16:56	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		10/25/18 09:50	10/25/18 19:25	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/25/18 09:50	10/25/18 19:25	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		10/25/18 12:40	10/26/18 08:35	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.019	0.0065	mg/Kg	☼	10/23/18 15:50	10/24/18 10:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.19		0.56	0.19	mg/Kg	☼	10/26/18 11:10	10/26/18 15:20	1
pH	8.3		0.2	0.2	SU			10/24/18 14:54	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B37 (0-5)

Lab Sample ID: 500-153334-8

Date Collected: 10/17/18 14:30

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 84.1

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	☼	10/18/18 07:15	10/27/18 12:45	1
Benzene	<0.00048		0.0019	0.00048	mg/Kg	☼	10/18/18 07:15	10/27/18 12:45	1
Bromodichloromethane	<0.00038		0.0019	0.00038	mg/Kg	☼	10/18/18 07:15	10/27/18 12:45	1
Bromoform	<0.00055		0.0019	0.00055	mg/Kg	☼	10/18/18 07:15	10/27/18 12:45	1
Bromomethane	<0.0018	*	0.0047	0.0018	mg/Kg	☼	10/18/18 07:15	10/27/18 12:45	1
2-Butanone (MEK)	<0.0021		0.0047	0.0021	mg/Kg	☼	10/18/18 07:15	10/27/18 12:45	1
Carbon disulfide	<0.00097		0.0047	0.00097	mg/Kg	☼	10/18/18 07:15	10/27/18 12:45	1
Carbon tetrachloride	<0.00054		0.0019	0.00054	mg/Kg	☼	10/18/18 07:15	10/27/18 12:45	1
Chlorobenzene	<0.00069		0.0019	0.00069	mg/Kg	☼	10/18/18 07:15	10/27/18 12:45	1
Chloroethane	<0.0014	*	0.0047	0.0014	mg/Kg	☼	10/18/18 07:15	10/27/18 12:45	1
Chloroform	<0.00065		0.0019	0.00065	mg/Kg	☼	10/18/18 07:15	10/27/18 12:45	1
Chloromethane	<0.0019		0.0047	0.0019	mg/Kg	☼	10/18/18 07:15	10/27/18 12:45	1
cis-1,2-Dichloroethene	<0.00052		0.0019	0.00052	mg/Kg	☼	10/18/18 07:15	10/27/18 12:45	1
cis-1,3-Dichloropropene	<0.00056		0.0019	0.00056	mg/Kg	☼	10/18/18 07:15	10/27/18 12:45	1
Dibromochloromethane	<0.00061		0.0019	0.00061	mg/Kg	☼	10/18/18 07:15	10/27/18 12:45	1
1,1-Dichloroethane	<0.00064		0.0019	0.00064	mg/Kg	☼	10/18/18 07:15	10/27/18 12:45	1
1,2-Dichloroethane	<0.0015		0.0047	0.0015	mg/Kg	☼	10/18/18 07:15	10/27/18 12:45	1
1,1-Dichloroethene	<0.00064		0.0019	0.00064	mg/Kg	☼	10/18/18 07:15	10/27/18 12:45	1
1,2-Dichloropropane	<0.00048		0.0019	0.00048	mg/Kg	☼	10/18/18 07:15	10/27/18 12:45	1
1,3-Dichloropropene, Total	<0.00066		0.0019	0.00066	mg/Kg	☼	10/18/18 07:15	10/27/18 12:45	1
Ethylbenzene	<0.00089		0.0019	0.00089	mg/Kg	☼	10/18/18 07:15	10/27/18 12:45	1
2-Hexanone	<0.0015		0.0047	0.0015	mg/Kg	☼	10/18/18 07:15	10/27/18 12:45	1
Methylene Chloride	<0.0018		0.0047	0.0018	mg/Kg	☼	10/18/18 07:15	10/27/18 12:45	1
4-Methyl-2-pentanone (MIBK)	<0.0014		0.0047	0.0014	mg/Kg	☼	10/18/18 07:15	10/27/18 12:45	1
Methyl tert-butyl ether	<0.00055		0.0019	0.00055	mg/Kg	☼	10/18/18 07:15	10/27/18 12:45	1
Styrene	<0.00056		0.0019	0.00056	mg/Kg	☼	10/18/18 07:15	10/27/18 12:45	1
1,1,2,2-Tetrachloroethane	<0.00060		0.0019	0.00060	mg/Kg	☼	10/18/18 07:15	10/27/18 12:45	1
Tetrachloroethene	<0.00064		0.0019	0.00064	mg/Kg	☼	10/18/18 07:15	10/27/18 12:45	1
Toluene	<0.00047		0.0019	0.00047	mg/Kg	☼	10/18/18 07:15	10/27/18 12:45	1
trans-1,2-Dichloroethene	<0.00083		0.0019	0.00083	mg/Kg	☼	10/18/18 07:15	10/27/18 12:45	1
trans-1,3-Dichloropropene	<0.00066		0.0019	0.00066	mg/Kg	☼	10/18/18 07:15	10/27/18 12:45	1
1,1,1-Trichloroethane	<0.00063		0.0019	0.00063	mg/Kg	☼	10/18/18 07:15	10/27/18 12:45	1
1,1,2-Trichloroethane	<0.00080		0.0019	0.00080	mg/Kg	☼	10/18/18 07:15	10/27/18 12:45	1
Trichloroethene	<0.00063		0.0019	0.00063	mg/Kg	☼	10/18/18 07:15	10/27/18 12:45	1
Vinyl acetate	<0.0016		0.0047	0.0016	mg/Kg	☼	10/18/18 07:15	10/27/18 12:45	1
Vinyl chloride	<0.00083		0.0019	0.00083	mg/Kg	☼	10/18/18 07:15	10/27/18 12:45	1
Xylenes, Total	<0.00060		0.0037	0.00060	mg/Kg	☼	10/18/18 07:15	10/27/18 12:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		75 - 131	10/18/18 07:15	10/27/18 12:45	1
Dibromofluoromethane	105		75 - 126	10/18/18 07:15	10/27/18 12:45	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134	10/18/18 07:15	10/27/18 12:45	1
Toluene-d8 (Surr)	95		75 - 124	10/18/18 07:15	10/27/18 12:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.017	J	0.038	0.0069	mg/Kg	☼	10/24/18 07:29	10/27/18 15:16	1
Acenaphthylene	0.024	J	0.038	0.0051	mg/Kg	☼	10/24/18 07:29	10/27/18 15:16	1
Anthracene	0.074	*	0.038	0.0065	mg/Kg	☼	10/24/18 07:29	10/27/18 15:16	1
Benzo[a]anthracene	0.41		0.038	0.0052	mg/Kg	☼	10/24/18 07:29	10/27/18 15:16	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B37 (0-5)

Lab Sample ID: 500-153334-8

Date Collected: 10/17/18 14:30

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.51		0.038	0.0075	mg/Kg	☼	10/24/18 07:29	10/27/18 15:16	1
Benzo[b]fluoranthene	0.99		0.038	0.0083	mg/Kg	☼	10/24/18 07:29	10/27/18 15:16	1
Benzo[g,h,i]perylene	0.20		0.038	0.012	mg/Kg	☼	10/24/18 07:29	10/27/18 15:16	1
Benzo[k]fluoranthene	0.32		0.038	0.011	mg/Kg	☼	10/24/18 07:29	10/27/18 15:16	1
Bis(2-chloroethoxy)methane	<0.039		0.19	0.039	mg/Kg	☼	10/24/18 07:29	10/27/18 15:16	1
Bis(2-chloroethyl)ether	<0.058		0.19	0.058	mg/Kg	☼	10/24/18 07:29	10/27/18 15:16	1
Bis(2-ethylhexyl) phthalate	0.14	J	0.19	0.071	mg/Kg	☼	10/24/18 07:29	10/27/18 15:16	1
4-Bromophenyl phenyl ether	<0.051		0.19	0.051	mg/Kg	☼	10/24/18 07:29	10/27/18 15:16	1
Butyl benzyl phthalate	0.080	J	0.19	0.073	mg/Kg	☼	10/24/18 07:29	10/27/18 15:16	1
Carbazole	<0.097		0.19	0.097	mg/Kg	☼	10/24/18 07:29	10/27/18 15:16	1
4-Chloroaniline	<0.18		0.78	0.18	mg/Kg	☼	10/24/18 07:29	10/27/18 15:16	1
4-Chloro-3-methylphenol	<0.13		0.38	0.13	mg/Kg	☼	10/24/18 07:29	10/27/18 15:16	1
2-Chloronaphthalene	<0.043		0.19	0.043	mg/Kg	☼	10/24/18 07:29	10/27/18 15:16	1
2-Chlorophenol	<0.066		0.19	0.066	mg/Kg	☼	10/24/18 07:29	10/27/18 15:16	1
4-Chlorophenyl phenyl ether	<0.045		0.19	0.045	mg/Kg	☼	10/24/18 07:29	10/27/18 15:16	1
Chrysene	0.54		0.038	0.011	mg/Kg	☼	10/24/18 07:29	10/27/18 15:16	1
Dibenz(a,h)anthracene	0.050		0.038	0.0075	mg/Kg	☼	10/24/18 07:29	10/27/18 15:16	1
Dibenzofuran	<0.045		0.19	0.045	mg/Kg	☼	10/24/18 07:29	10/27/18 15:16	1
1,2-Dichlorobenzene	<0.046		0.19	0.046	mg/Kg	☼	10/24/18 07:29	10/27/18 15:16	1
1,3-Dichlorobenzene	<0.043		0.19	0.043	mg/Kg	☼	10/24/18 07:29	10/27/18 15:16	1
1,4-Dichlorobenzene	<0.050		0.19	0.050	mg/Kg	☼	10/24/18 07:29	10/27/18 15:16	1
3,3'-Dichlorobenzidine	<0.054		0.19	0.054	mg/Kg	☼	10/24/18 07:29	10/27/18 15:16	1
2,4-Dichlorophenol	<0.092		0.38	0.092	mg/Kg	☼	10/24/18 07:29	10/27/18 15:16	1
Diethyl phthalate	<0.065		0.19	0.065	mg/Kg	☼	10/24/18 07:29	10/27/18 15:16	1
2,4-Dimethylphenol	<0.15		0.38	0.15	mg/Kg	☼	10/24/18 07:29	10/27/18 15:16	1
Dimethyl phthalate	0.062	J	0.19	0.050	mg/Kg	☼	10/24/18 07:29	10/27/18 15:16	1
Di-n-butyl phthalate	<0.059		0.19	0.059	mg/Kg	☼	10/24/18 07:29	10/27/18 15:16	1
4,6-Dinitro-2-methylphenol	<0.31		0.78	0.31	mg/Kg	☼	10/24/18 07:29	10/27/18 15:16	1
2,4-Dinitrophenol	<0.68		0.78	0.68	mg/Kg	☼	10/24/18 07:29	10/27/18 15:16	1
2,4-Dinitrotoluene	<0.061		0.19	0.061	mg/Kg	☼	10/24/18 07:29	10/27/18 15:16	1
2,6-Dinitrotoluene	<0.076		0.19	0.076	mg/Kg	☼	10/24/18 07:29	10/27/18 15:16	1
Di-n-octyl phthalate	<0.063		0.19	0.063	mg/Kg	☼	10/24/18 07:29	10/27/18 15:16	1
Fluoranthene	1.0	*	0.038	0.0072	mg/Kg	☼	10/24/18 07:29	10/27/18 15:16	1
Fluorene	0.019	J	0.038	0.0054	mg/Kg	☼	10/24/18 07:29	10/27/18 15:16	1
Hexachlorobenzene	<0.0090		0.078	0.0090	mg/Kg	☼	10/24/18 07:29	10/27/18 15:16	1
Hexachlorobutadiene	<0.061		0.19	0.061	mg/Kg	☼	10/24/18 07:29	10/27/18 15:16	1
Hexachlorocyclopentadiene	<0.22		0.78	0.22	mg/Kg	☼	10/24/18 07:29	10/27/18 15:16	1
Hexachloroethane	<0.059		0.19	0.059	mg/Kg	☼	10/24/18 07:29	10/27/18 15:16	1
Indeno[1,2,3-cd]pyrene	0.19		0.038	0.010	mg/Kg	☼	10/24/18 07:29	10/27/18 15:16	1
Isophorone	<0.043		0.19	0.043	mg/Kg	☼	10/24/18 07:29	10/27/18 15:16	1
2-Methylnaphthalene	0.024	J	0.078	0.0071	mg/Kg	☼	10/24/18 07:29	10/27/18 15:16	1
2-Methylphenol	<0.062		0.19	0.062	mg/Kg	☼	10/24/18 07:29	10/27/18 15:16	1
3 & 4 Methylphenol	<0.064		0.19	0.064	mg/Kg	☼	10/24/18 07:29	10/27/18 15:16	1
Naphthalene	0.017	J	0.038	0.0059	mg/Kg	☼	10/24/18 07:29	10/27/18 15:16	1
2-Nitroaniline	<0.052		0.19	0.052	mg/Kg	☼	10/24/18 07:29	10/27/18 15:16	1
3-Nitroaniline	<0.12		0.38	0.12	mg/Kg	☼	10/24/18 07:29	10/27/18 15:16	1
4-Nitroaniline	<0.16		0.38	0.16	mg/Kg	☼	10/24/18 07:29	10/27/18 15:16	1
Nitrobenzene	<0.0096		0.038	0.0096	mg/Kg	☼	10/24/18 07:29	10/27/18 15:16	1
2-Nitrophenol	<0.091		0.38	0.091	mg/Kg	☼	10/24/18 07:29	10/27/18 15:16	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B37 (0-5)

Lab Sample ID: 500-153334-8

Date Collected: 10/17/18 14:30

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.37		0.78	0.37	mg/Kg	☼	10/24/18 07:29	10/27/18 15:16	1
N-Nitrosodi-n-propylamine	<0.047		0.078	0.047	mg/Kg	☼	10/24/18 07:29	10/27/18 15:16	1
N-Nitrosodiphenylamine	<0.046		0.19	0.046	mg/Kg	☼	10/24/18 07:29	10/27/18 15:16	1
2,2'-oxybis[1-chloropropane]	<0.045		0.19	0.045	mg/Kg	☼	10/24/18 07:29	10/27/18 15:16	1
Pentachlorophenol	<0.62		0.78	0.62	mg/Kg	☼	10/24/18 07:29	10/27/18 15:16	1
Phenanthrene	0.37		0.038	0.0054	mg/Kg	☼	10/24/18 07:29	10/27/18 15:16	1
Phenol	<0.086		0.19	0.086	mg/Kg	☼	10/24/18 07:29	10/27/18 15:16	1
Pyrene	0.88		0.038	0.0077	mg/Kg	☼	10/24/18 07:29	10/27/18 15:16	1
1,2,4-Trichlorobenzene	<0.042		0.19	0.042	mg/Kg	☼	10/24/18 07:29	10/27/18 15:16	1
2,4,5-Trichlorophenol	<0.088 *		0.38	0.088	mg/Kg	☼	10/24/18 07:29	10/27/18 15:16	1
2,4,6-Trichlorophenol	<0.13		0.38	0.13	mg/Kg	☼	10/24/18 07:29	10/27/18 15:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	116		43 - 145	10/24/18 07:29	10/27/18 15:16	1
2-Fluorophenol	144		31 - 166	10/24/18 07:29	10/27/18 15:16	1
Nitrobenzene-d5	118		37 - 147	10/24/18 07:29	10/27/18 15:16	1
Phenol-d5	144		30 - 153	10/24/18 07:29	10/27/18 15:16	1
Terphenyl-d14	150		42 - 157	10/24/18 07:29	10/27/18 15:16	1
2,4,6-Tribromophenol	131		31 - 143	10/24/18 07:29	10/27/18 15:16	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.55	J B	1.1	0.21	mg/Kg	☼	10/24/18 08:16	10/24/18 19:55	1
Arsenic	6.1		0.55	0.19	mg/Kg	☼	10/24/18 08:16	10/24/18 19:55	1
Barium	130		0.55	0.063	mg/Kg	☼	10/24/18 08:16	10/24/18 19:55	1
Beryllium	0.72		0.22	0.052	mg/Kg	☼	10/24/18 08:16	10/24/18 19:55	1
Cadmium	0.70	B	0.11	0.020	mg/Kg	☼	10/24/18 08:16	10/24/18 19:55	1
Chromium	23		0.55	0.27	mg/Kg	☼	10/24/18 08:16	10/24/18 19:55	1
Cobalt	8.3		0.28	0.072	mg/Kg	☼	10/24/18 08:16	10/24/18 19:55	1
Copper	33	B	0.55	0.15	mg/Kg	☼	10/24/18 08:16	10/24/18 19:55	1
Iron	16000		11	5.7	mg/Kg	☼	10/24/18 08:16	10/24/18 19:55	1
Lead	410	B	0.28	0.13	mg/Kg	☼	10/24/18 08:16	10/24/18 19:55	1
Magnesium	25000		5.5	2.7	mg/Kg	☼	10/24/18 08:16	10/24/18 19:55	1
Calcium	53000	B	55	9.4	mg/Kg	☼	10/24/18 08:16	10/25/18 12:32	5
Manganese	380		0.55	0.080	mg/Kg	☼	10/24/18 08:16	10/24/18 19:55	1
Nickel	22		0.55	0.16	mg/Kg	☼	10/24/18 08:16	10/24/18 19:55	1
Selenium	<0.32		0.55	0.32	mg/Kg	☼	10/24/18 08:16	10/24/18 19:55	1
Silver	0.22	J	0.28	0.071	mg/Kg	☼	10/24/18 08:16	10/24/18 19:55	1
Thallium	<0.28		0.55	0.28	mg/Kg	☼	10/24/18 08:16	10/24/18 19:55	1
Vanadium	23		0.28	0.065	mg/Kg	☼	10/24/18 08:16	10/24/18 19:55	1
Zinc	160		1.1	0.49	mg/Kg	☼	10/24/18 08:16	10/24/18 19:55	1
Potassium	1700		28	9.8	mg/Kg	☼	10/24/18 08:16	10/24/18 19:55	1
Sodium	1200		55	8.2	mg/Kg	☼	10/24/18 08:16	10/24/18 19:55	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		10/25/18 09:50	10/25/18 23:33	1
Barium	0.62		0.50	0.050	mg/L		10/25/18 09:50	10/25/18 23:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/25/18 09:50	10/25/18 23:33	1
Cadmium	0.0053		0.0050	0.0020	mg/L		10/25/18 09:50	10/25/18 23:33	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B37 (0-5)

Lab Sample ID: 500-153334-8

Date Collected: 10/17/18 14:30

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	330		5.0	0.50	mg/L		10/25/18 09:50	10/25/18 23:33	1
Chromium	<0.010		0.070	0.010	mg/L		10/25/18 09:50	10/25/18 23:33	1
Cobalt	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/25/18 23:33	1
Copper	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/25/18 23:33	1
Iron	<0.20		0.40	0.20	mg/L		10/25/18 09:50	10/25/18 23:33	1
Lead	0.036		0.0075	0.0075	mg/L		10/25/18 09:50	10/25/18 23:33	1
Magnesium	130		2.5	0.50	mg/L		10/25/18 09:50	10/25/18 23:33	1
Manganese	1.0		0.025	0.010	mg/L		10/25/18 09:50	10/25/18 23:33	1
Nickel	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/25/18 23:33	1
Potassium	1.7 J		2.5	0.50	mg/L		10/25/18 09:50	10/25/18 23:33	1
Selenium	<0.020		0.050	0.020	mg/L		10/25/18 09:50	10/25/18 23:33	1
Silver	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/25/18 23:33	1
Vanadium	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/25/18 23:33	1
Zinc	0.13 J		0.50	0.020	mg/L		10/25/18 09:50	10/25/18 23:33	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0032 J		0.0050	0.0020	mg/L		10/25/18 15:13	10/26/18 17:00	1
Lead	1.2		0.0075	0.0075	mg/L		10/25/18 15:13	10/26/18 17:00	1
Manganese	0.97		0.025	0.010	mg/L		10/25/18 15:13	10/26/18 17:00	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		10/25/18 09:50	10/25/18 19:26	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/25/18 09:50	10/25/18 19:26	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		10/25/18 12:40	10/26/18 08:37	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.019	0.0063	mg/Kg	☼	10/23/18 15:50	10/24/18 10:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.20		0.59	0.20	mg/Kg	☼	10/26/18 11:10	10/26/18 15:20	1
pH	7.9		0.2	0.2	SU			10/24/18 14:56	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B38 (0-5)

Lab Sample ID: 500-153334-9

Date Collected: 10/17/18 14:15

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 81.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0076		0.018	0.0076	mg/Kg	☼	10/18/18 07:15	10/27/18 13:11	1
Benzene	<0.00045		0.0018	0.00045	mg/Kg	☼	10/18/18 07:15	10/27/18 13:11	1
Bromodichloromethane	<0.00036		0.0018	0.00036	mg/Kg	☼	10/18/18 07:15	10/27/18 13:11	1
Bromoform	<0.00051		0.0018	0.00051	mg/Kg	☼	10/18/18 07:15	10/27/18 13:11	1
Bromomethane	<0.0017	*	0.0044	0.0017	mg/Kg	☼	10/18/18 07:15	10/27/18 13:11	1
2-Butanone (MEK)	<0.0019		0.0044	0.0019	mg/Kg	☼	10/18/18 07:15	10/27/18 13:11	1
Carbon disulfide	<0.00091		0.0044	0.00091	mg/Kg	☼	10/18/18 07:15	10/27/18 13:11	1
Carbon tetrachloride	<0.00051		0.0018	0.00051	mg/Kg	☼	10/18/18 07:15	10/27/18 13:11	1
Chlorobenzene	<0.00065		0.0018	0.00065	mg/Kg	☼	10/18/18 07:15	10/27/18 13:11	1
Chloroethane	<0.0013	*	0.0044	0.0013	mg/Kg	☼	10/18/18 07:15	10/27/18 13:11	1
Chloroform	<0.00061		0.0018	0.00061	mg/Kg	☼	10/18/18 07:15	10/27/18 13:11	1
Chloromethane	<0.0018		0.0044	0.0018	mg/Kg	☼	10/18/18 07:15	10/27/18 13:11	1
cis-1,2-Dichloroethene	<0.00049		0.0018	0.00049	mg/Kg	☼	10/18/18 07:15	10/27/18 13:11	1
cis-1,3-Dichloropropene	<0.00053		0.0018	0.00053	mg/Kg	☼	10/18/18 07:15	10/27/18 13:11	1
Dibromochloromethane	<0.00057		0.0018	0.00057	mg/Kg	☼	10/18/18 07:15	10/27/18 13:11	1
1,1-Dichloroethane	<0.00060		0.0018	0.00060	mg/Kg	☼	10/18/18 07:15	10/27/18 13:11	1
1,2-Dichloroethane	<0.0014		0.0044	0.0014	mg/Kg	☼	10/18/18 07:15	10/27/18 13:11	1
1,1-Dichloroethene	<0.00060		0.0018	0.00060	mg/Kg	☼	10/18/18 07:15	10/27/18 13:11	1
1,2-Dichloropropane	<0.00045		0.0018	0.00045	mg/Kg	☼	10/18/18 07:15	10/27/18 13:11	1
1,3-Dichloropropene, Total	<0.00061		0.0018	0.00061	mg/Kg	☼	10/18/18 07:15	10/27/18 13:11	1
Ethylbenzene	<0.00084		0.0018	0.00084	mg/Kg	☼	10/18/18 07:15	10/27/18 13:11	1
2-Hexanone	<0.0014		0.0044	0.0014	mg/Kg	☼	10/18/18 07:15	10/27/18 13:11	1
Methylene Chloride	<0.0017		0.0044	0.0017	mg/Kg	☼	10/18/18 07:15	10/27/18 13:11	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0044	0.0013	mg/Kg	☼	10/18/18 07:15	10/27/18 13:11	1
Methyl tert-butyl ether	<0.00051		0.0018	0.00051	mg/Kg	☼	10/18/18 07:15	10/27/18 13:11	1
Styrene	<0.00053		0.0018	0.00053	mg/Kg	☼	10/18/18 07:15	10/27/18 13:11	1
1,1,2,2-Tetrachloroethane	<0.00056		0.0018	0.00056	mg/Kg	☼	10/18/18 07:15	10/27/18 13:11	1
Tetrachloroethene	<0.00060		0.0018	0.00060	mg/Kg	☼	10/18/18 07:15	10/27/18 13:11	1
Toluene	<0.00044		0.0018	0.00044	mg/Kg	☼	10/18/18 07:15	10/27/18 13:11	1
trans-1,2-Dichloroethene	<0.00078		0.0018	0.00078	mg/Kg	☼	10/18/18 07:15	10/27/18 13:11	1
trans-1,3-Dichloropropene	<0.00061		0.0018	0.00061	mg/Kg	☼	10/18/18 07:15	10/27/18 13:11	1
1,1,1-Trichloroethane	<0.00059		0.0018	0.00059	mg/Kg	☼	10/18/18 07:15	10/27/18 13:11	1
1,1,2-Trichloroethane	<0.00075		0.0018	0.00075	mg/Kg	☼	10/18/18 07:15	10/27/18 13:11	1
Trichloroethene	<0.00059		0.0018	0.00059	mg/Kg	☼	10/18/18 07:15	10/27/18 13:11	1
Vinyl acetate	<0.0015		0.0044	0.0015	mg/Kg	☼	10/18/18 07:15	10/27/18 13:11	1
Vinyl chloride	<0.00077		0.0018	0.00077	mg/Kg	☼	10/18/18 07:15	10/27/18 13:11	1
Xylenes, Total	<0.00056		0.0035	0.00056	mg/Kg	☼	10/18/18 07:15	10/27/18 13:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		75 - 131	10/18/18 07:15	10/27/18 13:11	1
Dibromofluoromethane	101		75 - 126	10/18/18 07:15	10/27/18 13:11	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	10/18/18 07:15	10/27/18 13:11	1
Toluene-d8 (Surr)	96		75 - 124	10/18/18 07:15	10/27/18 13:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0073		0.040	0.0073	mg/Kg	☼	10/24/18 07:29	10/27/18 15:45	1
Acenaphthylene	0.013	J	0.040	0.0054	mg/Kg	☼	10/24/18 07:29	10/27/18 15:45	1
Anthracene	0.022	J *	0.040	0.0068	mg/Kg	☼	10/24/18 07:29	10/27/18 15:45	1
Benzo[a]anthracene	0.16		0.040	0.0055	mg/Kg	☼	10/24/18 07:29	10/27/18 15:45	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B38 (0-5)

Lab Sample ID: 500-153334-9

Date Collected: 10/17/18 14:15

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 81.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.20		0.040	0.0079	mg/Kg	☼	10/24/18 07:29	10/27/18 15:45	1
Benzo[b]fluoranthene	0.33		0.040	0.0088	mg/Kg	☼	10/24/18 07:29	10/27/18 15:45	1
Benzo[g,h,i]perylene	0.077		0.040	0.013	mg/Kg	☼	10/24/18 07:29	10/27/18 15:45	1
Benzo[k]fluoranthene	0.091		0.040	0.012	mg/Kg	☼	10/24/18 07:29	10/27/18 15:45	1
Bis(2-chloroethoxy)methane	<0.042		0.20	0.042	mg/Kg	☼	10/24/18 07:29	10/27/18 15:45	1
Bis(2-chloroethyl)ether	<0.061		0.20	0.061	mg/Kg	☼	10/24/18 07:29	10/27/18 15:45	1
Bis(2-ethylhexyl) phthalate	0.080	J	0.20	0.074	mg/Kg	☼	10/24/18 07:29	10/27/18 15:45	1
4-Bromophenyl phenyl ether	<0.054		0.20	0.054	mg/Kg	☼	10/24/18 07:29	10/27/18 15:45	1
Butyl benzyl phthalate	<0.077		0.20	0.077	mg/Kg	☼	10/24/18 07:29	10/27/18 15:45	1
Carbazole	<0.10		0.20	0.10	mg/Kg	☼	10/24/18 07:29	10/27/18 15:45	1
4-Chloroaniline	<0.19		0.82	0.19	mg/Kg	☼	10/24/18 07:29	10/27/18 15:45	1
4-Chloro-3-methylphenol	<0.14		0.40	0.14	mg/Kg	☼	10/24/18 07:29	10/27/18 15:45	1
2-Chloronaphthalene	<0.045		0.20	0.045	mg/Kg	☼	10/24/18 07:29	10/27/18 15:45	1
2-Chlorophenol	<0.069		0.20	0.069	mg/Kg	☼	10/24/18 07:29	10/27/18 15:45	1
4-Chlorophenyl phenyl ether	<0.048		0.20	0.048	mg/Kg	☼	10/24/18 07:29	10/27/18 15:45	1
Chrysene	0.21		0.040	0.011	mg/Kg	☼	10/24/18 07:29	10/27/18 15:45	1
Dibenz(a,h)anthracene	<0.0079		0.040	0.0079	mg/Kg	☼	10/24/18 07:29	10/27/18 15:45	1
Dibenzofuran	<0.048		0.20	0.048	mg/Kg	☼	10/24/18 07:29	10/27/18 15:45	1
1,2-Dichlorobenzene	<0.049		0.20	0.049	mg/Kg	☼	10/24/18 07:29	10/27/18 15:45	1
1,3-Dichlorobenzene	<0.046		0.20	0.046	mg/Kg	☼	10/24/18 07:29	10/27/18 15:45	1
1,4-Dichlorobenzene	<0.052		0.20	0.052	mg/Kg	☼	10/24/18 07:29	10/27/18 15:45	1
3,3'-Dichlorobenzidine	<0.057		0.20	0.057	mg/Kg	☼	10/24/18 07:29	10/27/18 15:45	1
2,4-Dichlorophenol	<0.097		0.40	0.097	mg/Kg	☼	10/24/18 07:29	10/27/18 15:45	1
Diethyl phthalate	<0.069		0.20	0.069	mg/Kg	☼	10/24/18 07:29	10/27/18 15:45	1
2,4-Dimethylphenol	<0.15		0.40	0.15	mg/Kg	☼	10/24/18 07:29	10/27/18 15:45	1
Dimethyl phthalate	<0.053		0.20	0.053	mg/Kg	☼	10/24/18 07:29	10/27/18 15:45	1
Di-n-butyl phthalate	<0.062		0.20	0.062	mg/Kg	☼	10/24/18 07:29	10/27/18 15:45	1
4,6-Dinitro-2-methylphenol	<0.33		0.82	0.33	mg/Kg	☼	10/24/18 07:29	10/27/18 15:45	1
2,4-Dinitrophenol	<0.72		0.82	0.72	mg/Kg	☼	10/24/18 07:29	10/27/18 15:45	1
2,4-Dinitrotoluene	<0.065		0.20	0.065	mg/Kg	☼	10/24/18 07:29	10/27/18 15:45	1
2,6-Dinitrotoluene	<0.080		0.20	0.080	mg/Kg	☼	10/24/18 07:29	10/27/18 15:45	1
Di-n-octyl phthalate	<0.066		0.20	0.066	mg/Kg	☼	10/24/18 07:29	10/27/18 15:45	1
Fluoranthene	0.32	*	0.040	0.0075	mg/Kg	☼	10/24/18 07:29	10/27/18 15:45	1
Fluorene	0.0066	J	0.040	0.0057	mg/Kg	☼	10/24/18 07:29	10/27/18 15:45	1
Hexachlorobenzene	<0.0094		0.082	0.0094	mg/Kg	☼	10/24/18 07:29	10/27/18 15:45	1
Hexachlorobutadiene	<0.064		0.20	0.064	mg/Kg	☼	10/24/18 07:29	10/27/18 15:45	1
Hexachlorocyclopentadiene	<0.23		0.82	0.23	mg/Kg	☼	10/24/18 07:29	10/27/18 15:45	1
Hexachloroethane	<0.062		0.20	0.062	mg/Kg	☼	10/24/18 07:29	10/27/18 15:45	1
Indeno[1,2,3-cd]pyrene	0.066		0.040	0.011	mg/Kg	☼	10/24/18 07:29	10/27/18 15:45	1
Isophorone	<0.046		0.20	0.046	mg/Kg	☼	10/24/18 07:29	10/27/18 15:45	1
2-Methylnaphthalene	0.0090	J	0.082	0.0075	mg/Kg	☼	10/24/18 07:29	10/27/18 15:45	1
2-Methylphenol	<0.065		0.20	0.065	mg/Kg	☼	10/24/18 07:29	10/27/18 15:45	1
3 & 4 Methylphenol	<0.068		0.20	0.068	mg/Kg	☼	10/24/18 07:29	10/27/18 15:45	1
Naphthalene	0.0063	J	0.040	0.0063	mg/Kg	☼	10/24/18 07:29	10/27/18 15:45	1
2-Nitroaniline	<0.055		0.20	0.055	mg/Kg	☼	10/24/18 07:29	10/27/18 15:45	1
3-Nitroaniline	<0.13		0.40	0.13	mg/Kg	☼	10/24/18 07:29	10/27/18 15:45	1
4-Nitroaniline	<0.17		0.40	0.17	mg/Kg	☼	10/24/18 07:29	10/27/18 15:45	1
Nitrobenzene	<0.010		0.040	0.010	mg/Kg	☼	10/24/18 07:29	10/27/18 15:45	1
2-Nitrophenol	<0.096		0.40	0.096	mg/Kg	☼	10/24/18 07:29	10/27/18 15:45	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B38 (0-5)

Lab Sample ID: 500-153334-9

Date Collected: 10/17/18 14:15

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 81.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.39		0.82	0.39	mg/Kg	☼	10/24/18 07:29	10/27/18 15:45	1
N-Nitrosodi-n-propylamine	<0.050		0.082	0.050	mg/Kg	☼	10/24/18 07:29	10/27/18 15:45	1
N-Nitrosodiphenylamine	<0.048		0.20	0.048	mg/Kg	☼	10/24/18 07:29	10/27/18 15:45	1
2,2'-oxybis[1-chloropropane]	<0.047		0.20	0.047	mg/Kg	☼	10/24/18 07:29	10/27/18 15:45	1
Pentachlorophenol	<0.65		0.82	0.65	mg/Kg	☼	10/24/18 07:29	10/27/18 15:45	1
Phenanthrene	0.13		0.040	0.0057	mg/Kg	☼	10/24/18 07:29	10/27/18 15:45	1
Phenol	<0.090		0.20	0.090	mg/Kg	☼	10/24/18 07:29	10/27/18 15:45	1
Pyrene	0.30		0.040	0.0081	mg/Kg	☼	10/24/18 07:29	10/27/18 15:45	1
1,2,4-Trichlorobenzene	<0.044		0.20	0.044	mg/Kg	☼	10/24/18 07:29	10/27/18 15:45	1
2,4,5-Trichlorophenol	<0.093 *		0.40	0.093	mg/Kg	☼	10/24/18 07:29	10/27/18 15:45	1
2,4,6-Trichlorophenol	<0.14		0.40	0.14	mg/Kg	☼	10/24/18 07:29	10/27/18 15:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	98		43 - 145	10/24/18 07:29	10/27/18 15:45	1
2-Fluorophenol	151		31 - 166	10/24/18 07:29	10/27/18 15:45	1
Nitrobenzene-d5	117		37 - 147	10/24/18 07:29	10/27/18 15:45	1
Phenol-d5	133		30 - 153	10/24/18 07:29	10/27/18 15:45	1
Terphenyl-d14	126		42 - 157	10/24/18 07:29	10/27/18 15:45	1
2,4,6-Tribromophenol	97		31 - 143	10/24/18 07:29	10/27/18 15:45	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.62	J B	1.2	0.24	mg/Kg	☼	10/24/18 08:16	10/24/18 19:59	1
Arsenic	6.0		0.61	0.21	mg/Kg	☼	10/24/18 08:16	10/24/18 19:59	1
Barium	110		0.61	0.069	mg/Kg	☼	10/24/18 08:16	10/24/18 19:59	1
Beryllium	0.72		0.24	0.057	mg/Kg	☼	10/24/18 08:16	10/24/18 19:59	1
Cadmium	0.46	B	0.12	0.022	mg/Kg	☼	10/24/18 08:16	10/24/18 19:59	1
Chromium	19		0.61	0.30	mg/Kg	☼	10/24/18 08:16	10/24/18 19:59	1
Cobalt	8.1		0.30	0.080	mg/Kg	☼	10/24/18 08:16	10/24/18 19:59	1
Copper	23	B	0.61	0.17	mg/Kg	☼	10/24/18 08:16	10/24/18 19:59	1
Iron	16000		12	6.3	mg/Kg	☼	10/24/18 08:16	10/24/18 19:59	1
Lead	190	B	0.30	0.14	mg/Kg	☼	10/24/18 08:16	10/24/18 19:59	1
Magnesium	29000		6.1	3.0	mg/Kg	☼	10/24/18 08:16	10/24/18 19:59	1
Calcium	62000	B	61	10	mg/Kg	☼	10/24/18 08:16	10/25/18 12:36	5
Manganese	410		0.61	0.088	mg/Kg	☼	10/24/18 08:16	10/24/18 19:59	1
Nickel	20		0.61	0.18	mg/Kg	☼	10/24/18 08:16	10/24/18 19:59	1
Selenium	0.55	J	0.61	0.36	mg/Kg	☼	10/24/18 08:16	10/24/18 19:59	1
Silver	0.22	J	0.30	0.079	mg/Kg	☼	10/24/18 08:16	10/24/18 19:59	1
Thallium	<0.30		0.61	0.30	mg/Kg	☼	10/24/18 08:16	10/24/18 19:59	1
Vanadium	24		0.30	0.072	mg/Kg	☼	10/24/18 08:16	10/24/18 19:59	1
Zinc	110		1.2	0.53	mg/Kg	☼	10/24/18 08:16	10/24/18 19:59	1
Potassium	1600		30	11	mg/Kg	☼	10/24/18 08:16	10/24/18 19:59	1
Sodium	1300		61	9.0	mg/Kg	☼	10/24/18 08:16	10/24/18 19:59	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		10/25/18 09:50	10/25/18 23:45	1
Barium	0.61		0.50	0.050	mg/L		10/25/18 09:50	10/25/18 23:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/25/18 09:50	10/25/18 23:45	1
Cadmium	0.0043	J	0.0050	0.0020	mg/L		10/25/18 09:50	10/25/18 23:45	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B38 (0-5)

Lab Sample ID: 500-153334-9

Date Collected: 10/17/18 14:15

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 81.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	330		5.0	0.50	mg/L		10/25/18 09:50	10/25/18 23:45	1
Chromium	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/26/18 15:04	1
Cobalt	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/25/18 23:45	1
Copper	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/25/18 23:45	1
Iron	<0.20		0.40	0.20	mg/L		10/25/18 09:50	10/25/18 23:45	1
Lead	0.011		0.0075	0.0075	mg/L		10/25/18 09:50	10/25/18 23:45	1
Magnesium	130		2.5	0.50	mg/L		10/25/18 09:50	10/25/18 23:45	1
Manganese	0.75		0.025	0.010	mg/L		10/25/18 09:50	10/25/18 23:45	1
Nickel	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/25/18 23:45	1
Potassium	2.2 J		2.5	0.50	mg/L		10/25/18 09:50	10/25/18 23:45	1
Selenium	<0.020		0.050	0.020	mg/L		10/25/18 09:50	10/25/18 23:45	1
Silver	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/25/18 23:45	1
Vanadium	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/25/18 23:45	1
Zinc	0.081 J		0.50	0.020	mg/L		10/25/18 09:50	10/25/18 23:45	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.56		0.0075	0.0075	mg/L		10/25/18 15:13	10/26/18 17:11	1
Manganese	0.84		0.025	0.010	mg/L		10/25/18 15:13	10/26/18 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		10/25/18 09:50	10/25/18 19:30	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/25/18 09:50	10/25/18 19:30	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		10/25/18 12:40	10/26/18 08:39	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.019	0.0064	mg/Kg	☼	10/23/18 15:50	10/24/18 10:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.40 J		0.54	0.19	mg/Kg	☼	10/26/18 11:10	10/26/18 15:21	1
pH	8.7		0.2	0.2	SU			10/24/18 15:44	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B39 (0-2)

Lab Sample ID: 500-153334-10

Date Collected: 10/17/18 14:00

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0091		0.021	0.0091	mg/Kg	☼	10/18/18 07:15	10/27/18 17:57	1
Benzene	<0.00053		0.0021	0.00053	mg/Kg	☼	10/18/18 07:15	10/27/18 17:57	1
Bromodichloromethane	<0.00042		0.0021	0.00042	mg/Kg	☼	10/18/18 07:15	10/27/18 17:57	1
Bromoform	<0.00061		0.0021	0.00061	mg/Kg	☼	10/18/18 07:15	10/27/18 17:57	1
Bromomethane	<0.0020	*	0.0052	0.0020	mg/Kg	☼	10/18/18 07:15	10/27/18 17:57	1
2-Butanone (MEK)	<0.0023		0.0052	0.0023	mg/Kg	☼	10/18/18 07:15	10/27/18 17:57	1
Carbon disulfide	<0.0011		0.0052	0.0011	mg/Kg	☼	10/18/18 07:15	10/27/18 17:57	1
Carbon tetrachloride	<0.00060		0.0021	0.00060	mg/Kg	☼	10/18/18 07:15	10/27/18 17:57	1
Chlorobenzene	<0.00077		0.0021	0.00077	mg/Kg	☼	10/18/18 07:15	10/27/18 17:57	1
Chloroethane	<0.0015	*	0.0052	0.0015	mg/Kg	☼	10/18/18 07:15	10/27/18 17:57	1
Chloroform	<0.00072		0.0021	0.00072	mg/Kg	☼	10/18/18 07:15	10/27/18 17:57	1
Chloromethane	<0.0021		0.0052	0.0021	mg/Kg	☼	10/18/18 07:15	10/27/18 17:57	1
cis-1,2-Dichloroethene	<0.00058		0.0021	0.00058	mg/Kg	☼	10/18/18 07:15	10/27/18 17:57	1
cis-1,3-Dichloropropene	<0.00063		0.0021	0.00063	mg/Kg	☼	10/18/18 07:15	10/27/18 17:57	1
Dibromochloromethane	<0.00068		0.0021	0.00068	mg/Kg	☼	10/18/18 07:15	10/27/18 17:57	1
1,1-Dichloroethane	<0.00071		0.0021	0.00071	mg/Kg	☼	10/18/18 07:15	10/27/18 17:57	1
1,2-Dichloroethane	<0.0016		0.0052	0.0016	mg/Kg	☼	10/18/18 07:15	10/27/18 17:57	1
1,1-Dichloroethene	<0.00071		0.0021	0.00071	mg/Kg	☼	10/18/18 07:15	10/27/18 17:57	1
1,2-Dichloropropane	<0.00054		0.0021	0.00054	mg/Kg	☼	10/18/18 07:15	10/27/18 17:57	1
1,3-Dichloropropene, Total	<0.00073		0.0021	0.00073	mg/Kg	☼	10/18/18 07:15	10/27/18 17:57	1
Ethylbenzene	<0.00099		0.0021	0.00099	mg/Kg	☼	10/18/18 07:15	10/27/18 17:57	1
2-Hexanone	<0.0016		0.0052	0.0016	mg/Kg	☼	10/18/18 07:15	10/27/18 17:57	1
Methylene Chloride	<0.0020		0.0052	0.0020	mg/Kg	☼	10/18/18 07:15	10/27/18 17:57	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0052	0.0015	mg/Kg	☼	10/18/18 07:15	10/27/18 17:57	1
Methyl tert-butyl ether	<0.00061		0.0021	0.00061	mg/Kg	☼	10/18/18 07:15	10/27/18 17:57	1
Styrene	<0.00063		0.0021	0.00063	mg/Kg	☼	10/18/18 07:15	10/27/18 17:57	1
1,1,2,2-Tetrachloroethane	<0.00066		0.0021	0.00066	mg/Kg	☼	10/18/18 07:15	10/27/18 17:57	1
Tetrachloroethene	<0.00071		0.0021	0.00071	mg/Kg	☼	10/18/18 07:15	10/27/18 17:57	1
Toluene	<0.00052		0.0021	0.00052	mg/Kg	☼	10/18/18 07:15	10/27/18 17:57	1
trans-1,2-Dichloroethene	<0.00092		0.0021	0.00092	mg/Kg	☼	10/18/18 07:15	10/27/18 17:57	1
trans-1,3-Dichloropropene	<0.00073		0.0021	0.00073	mg/Kg	☼	10/18/18 07:15	10/27/18 17:57	1
1,1,1-Trichloroethane	<0.00070		0.0021	0.00070	mg/Kg	☼	10/18/18 07:15	10/27/18 17:57	1
1,1,2-Trichloroethane	<0.00089		0.0021	0.00089	mg/Kg	☼	10/18/18 07:15	10/27/18 17:57	1
Trichloroethene	<0.00070		0.0021	0.00070	mg/Kg	☼	10/18/18 07:15	10/27/18 17:57	1
Vinyl acetate	<0.0018		0.0052	0.0018	mg/Kg	☼	10/18/18 07:15	10/27/18 17:57	1
Vinyl chloride	<0.00092		0.0021	0.00092	mg/Kg	☼	10/18/18 07:15	10/27/18 17:57	1
Xylenes, Total	<0.00067		0.0042	0.00067	mg/Kg	☼	10/18/18 07:15	10/27/18 17:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		75 - 131	10/18/18 07:15	10/27/18 17:57	1
Dibromofluoromethane	105		75 - 126	10/18/18 07:15	10/27/18 17:57	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134	10/18/18 07:15	10/27/18 17:57	1
Toluene-d8 (Surr)	95		75 - 124	10/18/18 07:15	10/27/18 17:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0068		0.038	0.0068	mg/Kg	☼	10/24/18 07:29	10/27/18 16:14	1
Acenaphthylene	0.012	J	0.038	0.0050	mg/Kg	☼	10/24/18 07:29	10/27/18 16:14	1
Anthracene	0.027	J *	0.038	0.0063	mg/Kg	☼	10/24/18 07:29	10/27/18 16:14	1
Benzo[a]anthracene	0.19		0.038	0.0051	mg/Kg	☼	10/24/18 07:29	10/27/18 16:14	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B39 (0-2)

Lab Sample ID: 500-153334-10

Date Collected: 10/17/18 14:00

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.26		0.038	0.0073	mg/Kg	☼	10/24/18 07:29	10/27/18 16:14	1
Benzo[b]fluoranthene	0.54		0.038	0.0082	mg/Kg	☼	10/24/18 07:29	10/27/18 16:14	1
Benzo[g,h,i]perylene	0.12		0.038	0.012	mg/Kg	☼	10/24/18 07:29	10/27/18 16:14	1
Benzo[k]fluoranthene	0.18		0.038	0.011	mg/Kg	☼	10/24/18 07:29	10/27/18 16:14	1
Bis(2-chloroethoxy)methane	<0.039		0.19	0.039	mg/Kg	☼	10/24/18 07:29	10/27/18 16:14	1
Bis(2-chloroethyl)ether	<0.057		0.19	0.057	mg/Kg	☼	10/24/18 07:29	10/27/18 16:14	1
Bis(2-ethylhexyl) phthalate	<0.069		0.19	0.069	mg/Kg	☼	10/24/18 07:29	10/27/18 16:14	1
4-Bromophenyl phenyl ether	<0.050		0.19	0.050	mg/Kg	☼	10/24/18 07:29	10/27/18 16:14	1
Butyl benzyl phthalate	<0.072		0.19	0.072	mg/Kg	☼	10/24/18 07:29	10/27/18 16:14	1
Carbazole	<0.094		0.19	0.094	mg/Kg	☼	10/24/18 07:29	10/27/18 16:14	1
4-Chloroaniline	<0.18		0.76	0.18	mg/Kg	☼	10/24/18 07:29	10/27/18 16:14	1
4-Chloro-3-methylphenol	<0.13		0.38	0.13	mg/Kg	☼	10/24/18 07:29	10/27/18 16:14	1
2-Chloronaphthalene	<0.042		0.19	0.042	mg/Kg	☼	10/24/18 07:29	10/27/18 16:14	1
2-Chlorophenol	<0.064		0.19	0.064	mg/Kg	☼	10/24/18 07:29	10/27/18 16:14	1
4-Chlorophenyl phenyl ether	<0.044		0.19	0.044	mg/Kg	☼	10/24/18 07:29	10/27/18 16:14	1
Chrysene	0.26		0.038	0.010	mg/Kg	☼	10/24/18 07:29	10/27/18 16:14	1
Dibenz(a,h)anthracene	<0.0073		0.038	0.0073	mg/Kg	☼	10/24/18 07:29	10/27/18 16:14	1
Dibenzofuran	<0.044		0.19	0.044	mg/Kg	☼	10/24/18 07:29	10/27/18 16:14	1
1,2-Dichlorobenzene	<0.045		0.19	0.045	mg/Kg	☼	10/24/18 07:29	10/27/18 16:14	1
1,3-Dichlorobenzene	<0.043		0.19	0.043	mg/Kg	☼	10/24/18 07:29	10/27/18 16:14	1
1,4-Dichlorobenzene	<0.048		0.19	0.048	mg/Kg	☼	10/24/18 07:29	10/27/18 16:14	1
3,3'-Dichlorobenzidine	<0.053		0.19	0.053	mg/Kg	☼	10/24/18 07:29	10/27/18 16:14	1
2,4-Dichlorophenol	<0.090		0.38	0.090	mg/Kg	☼	10/24/18 07:29	10/27/18 16:14	1
Diethyl phthalate	<0.064		0.19	0.064	mg/Kg	☼	10/24/18 07:29	10/27/18 16:14	1
2,4-Dimethylphenol	<0.14		0.38	0.14	mg/Kg	☼	10/24/18 07:29	10/27/18 16:14	1
Dimethyl phthalate	<0.049		0.19	0.049	mg/Kg	☼	10/24/18 07:29	10/27/18 16:14	1
Di-n-butyl phthalate	<0.058		0.19	0.058	mg/Kg	☼	10/24/18 07:29	10/27/18 16:14	1
4,6-Dinitro-2-methylphenol	<0.30		0.76	0.30	mg/Kg	☼	10/24/18 07:29	10/27/18 16:14	1
2,4-Dinitrophenol	<0.67		0.76	0.67	mg/Kg	☼	10/24/18 07:29	10/27/18 16:14	1
2,4-Dinitrotoluene	<0.060		0.19	0.060	mg/Kg	☼	10/24/18 07:29	10/27/18 16:14	1
2,6-Dinitrotoluene	<0.074		0.19	0.074	mg/Kg	☼	10/24/18 07:29	10/27/18 16:14	1
Di-n-octyl phthalate	<0.062		0.19	0.062	mg/Kg	☼	10/24/18 07:29	10/27/18 16:14	1
Fluoranthene	0.51	*	0.038	0.0070	mg/Kg	☼	10/24/18 07:29	10/27/18 16:14	1
Fluorene	0.0063	J	0.038	0.0053	mg/Kg	☼	10/24/18 07:29	10/27/18 16:14	1
Hexachlorobenzene	<0.0088		0.076	0.0088	mg/Kg	☼	10/24/18 07:29	10/27/18 16:14	1
Hexachlorobutadiene	<0.059		0.19	0.059	mg/Kg	☼	10/24/18 07:29	10/27/18 16:14	1
Hexachlorocyclopentadiene	<0.22		0.76	0.22	mg/Kg	☼	10/24/18 07:29	10/27/18 16:14	1
Hexachloroethane	<0.057		0.19	0.057	mg/Kg	☼	10/24/18 07:29	10/27/18 16:14	1
Indeno[1,2,3-cd]pyrene	0.12		0.038	0.0098	mg/Kg	☼	10/24/18 07:29	10/27/18 16:14	1
Isophorone	<0.042		0.19	0.042	mg/Kg	☼	10/24/18 07:29	10/27/18 16:14	1
2-Methylnaphthalene	0.010	J	0.076	0.0069	mg/Kg	☼	10/24/18 07:29	10/27/18 16:14	1
2-Methylphenol	<0.061		0.19	0.061	mg/Kg	☼	10/24/18 07:29	10/27/18 16:14	1
3 & 4 Methylphenol	<0.063		0.19	0.063	mg/Kg	☼	10/24/18 07:29	10/27/18 16:14	1
Naphthalene	0.0083	J	0.038	0.0058	mg/Kg	☼	10/24/18 07:29	10/27/18 16:14	1
2-Nitroaniline	<0.051		0.19	0.051	mg/Kg	☼	10/24/18 07:29	10/27/18 16:14	1
3-Nitroaniline	<0.12		0.38	0.12	mg/Kg	☼	10/24/18 07:29	10/27/18 16:14	1
4-Nitroaniline	<0.16		0.38	0.16	mg/Kg	☼	10/24/18 07:29	10/27/18 16:14	1
Nitrobenzene	<0.0094		0.038	0.0094	mg/Kg	☼	10/24/18 07:29	10/27/18 16:14	1
2-Nitrophenol	<0.089		0.38	0.089	mg/Kg	☼	10/24/18 07:29	10/27/18 16:14	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B39 (0-2)

Lab Sample ID: 500-153334-10

Date Collected: 10/17/18 14:00

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 85.2

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	☼	10/24/18 07:29	10/27/18 16:14	1
N-Nitrosodi-n-propylamine	<0.046		0.076	0.046	mg/Kg	☼	10/24/18 07:29	10/27/18 16:14	1
N-Nitrosodiphenylamine	<0.045		0.19	0.045	mg/Kg	☼	10/24/18 07:29	10/27/18 16:14	1
2,2'-oxybis[1-chloropropane]	<0.044		0.19	0.044	mg/Kg	☼	10/24/18 07:29	10/27/18 16:14	1
Pentachlorophenol	<0.61		0.76	0.61	mg/Kg	☼	10/24/18 07:29	10/27/18 16:14	1
Phenanthrene	0.16		0.038	0.0053	mg/Kg	☼	10/24/18 07:29	10/27/18 16:14	1
Phenol	<0.084		0.19	0.084	mg/Kg	☼	10/24/18 07:29	10/27/18 16:14	1
Pyrene	0.38		0.038	0.0075	mg/Kg	☼	10/24/18 07:29	10/27/18 16:14	1
1,2,4-Trichlorobenzene	<0.041		0.19	0.041	mg/Kg	☼	10/24/18 07:29	10/27/18 16:14	1
2,4,5-Trichlorophenol	<0.086 *		0.38	0.086	mg/Kg	☼	10/24/18 07:29	10/27/18 16:14	1
2,4,6-Trichlorophenol	<0.13		0.38	0.13	mg/Kg	☼	10/24/18 07:29	10/27/18 16:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	110		43 - 145	10/24/18 07:29	10/27/18 16:14	1
2-Fluorophenol	139		31 - 166	10/24/18 07:29	10/27/18 16:14	1
Nitrobenzene-d5	126		37 - 147	10/24/18 07:29	10/27/18 16:14	1
Phenol-d5	133		30 - 153	10/24/18 07:29	10/27/18 16:14	1
Terphenyl-d14	126		42 - 157	10/24/18 07:29	10/27/18 16:14	1
2,4,6-Tribromophenol	107		31 - 143	10/24/18 07:29	10/27/18 16:14	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.46	J B	1.1	0.22	mg/Kg	☼	10/24/18 08:16	10/24/18 20:03	1
Arsenic	5.1		0.57	0.19	mg/Kg	☼	10/24/18 08:16	10/24/18 20:03	1
Barium	100		0.57	0.065	mg/Kg	☼	10/24/18 08:16	10/24/18 20:03	1
Beryllium	0.75		0.23	0.053	mg/Kg	☼	10/24/18 08:16	10/24/18 20:03	1
Cadmium	0.35	B	0.11	0.020	mg/Kg	☼	10/24/18 08:16	10/24/18 20:03	1
Chromium	21		0.57	0.28	mg/Kg	☼	10/24/18 08:16	10/24/18 20:03	1
Cobalt	7.8		0.28	0.074	mg/Kg	☼	10/24/18 08:16	10/24/18 20:03	1
Copper	23	B	0.57	0.16	mg/Kg	☼	10/24/18 08:16	10/24/18 20:03	1
Iron	17000		11	5.9	mg/Kg	☼	10/24/18 08:16	10/24/18 20:03	1
Lead	110	B	0.28	0.13	mg/Kg	☼	10/24/18 08:16	10/24/18 20:03	1
Magnesium	20000		5.7	2.8	mg/Kg	☼	10/24/18 08:16	10/24/18 20:03	1
Calcium	32000	B	11	1.9	mg/Kg	☼	10/24/18 08:16	10/24/18 20:03	1
Manganese	320		0.57	0.082	mg/Kg	☼	10/24/18 08:16	10/24/18 20:03	1
Nickel	23		0.57	0.17	mg/Kg	☼	10/24/18 08:16	10/24/18 20:03	1
Selenium	0.83		0.57	0.33	mg/Kg	☼	10/24/18 08:16	10/24/18 20:03	1
Silver	0.32		0.28	0.073	mg/Kg	☼	10/24/18 08:16	10/24/18 20:03	1
Thallium	<0.28		0.57	0.28	mg/Kg	☼	10/24/18 08:16	10/24/18 20:03	1
Vanadium	26		0.28	0.067	mg/Kg	☼	10/24/18 08:16	10/24/18 20:03	1
Zinc	100		1.1	0.50	mg/Kg	☼	10/24/18 08:16	10/24/18 20:03	1
Potassium	1600		28	10	mg/Kg	☼	10/24/18 08:16	10/24/18 20:03	1
Sodium	1800		57	8.4	mg/Kg	☼	10/24/18 08:16	10/24/18 20:03	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		10/25/18 09:50	10/25/18 23:49	1
Barium	0.45	J	0.50	0.050	mg/L		10/25/18 09:50	10/25/18 23:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/25/18 09:50	10/25/18 23:49	1
Cadmium	0.0031	J	0.0050	0.0020	mg/L		10/25/18 09:50	10/25/18 23:49	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B39 (0-2)

Lab Sample ID: 500-153334-10

Date Collected: 10/17/18 14:00

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 85.2

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		10/25/18 09:50	10/25/18 23:49	1
Chromium	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/26/18 15:08	1
Cobalt	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/25/18 23:49	1
Copper	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/25/18 23:49	1
Iron	<0.20		0.40	0.20	mg/L		10/25/18 09:50	10/25/18 23:49	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/25/18 09:50	10/25/18 23:49	1
Magnesium	130		2.5	0.50	mg/L		10/25/18 09:50	10/25/18 23:49	1
Manganese	0.73		0.025	0.010	mg/L		10/25/18 09:50	10/25/18 23:49	1
Nickel	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/25/18 23:49	1
Potassium	1.6 J		2.5	0.50	mg/L		10/25/18 09:50	10/25/18 23:49	1
Selenium	<0.020		0.050	0.020	mg/L		10/25/18 09:50	10/25/18 23:49	1
Silver	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/25/18 23:49	1
Vanadium	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/25/18 23:49	1
Zinc	0.17 J		0.50	0.020	mg/L		10/25/18 09:50	10/25/18 23:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.1		0.025	0.010	mg/L		10/25/18 15:13	10/26/18 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		10/25/18 09:50	10/25/18 19:31	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/25/18 09:50	10/25/18 19:31	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		10/25/18 12:40	10/26/18 08:42	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.037		0.018	0.0061	mg/Kg	☼	10/23/18 15:50	10/24/18 10:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.19		0.55	0.19	mg/Kg	☼	10/26/18 11:10	10/26/18 15:22	1
pH	8.7		0.2	0.2	SU			10/24/18 15:47	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B40 (0-4)

Lab Sample ID: 500-153334-11

Date Collected: 10/17/18 13:40

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0080		0.018	0.0080	mg/Kg	☼	10/18/18 07:15	10/27/18 17:43	1
Benzene	<0.00047		0.0018	0.00047	mg/Kg	☼	10/18/18 07:15	10/27/18 17:43	1
Bromodichloromethane	<0.00037		0.0018	0.00037	mg/Kg	☼	10/18/18 07:15	10/27/18 17:43	1
Bromoform	<0.00054		0.0018	0.00054	mg/Kg	☼	10/18/18 07:15	10/27/18 17:43	1
Bromomethane	<0.0017		0.0046	0.0017	mg/Kg	☼	10/18/18 07:15	10/27/18 17:43	1
2-Butanone (MEK)	<0.0020		0.0046	0.0020	mg/Kg	☼	10/18/18 07:15	10/27/18 17:43	1
Carbon disulfide	<0.00096		0.0046	0.00096	mg/Kg	☼	10/18/18 07:15	10/27/18 17:43	1
Carbon tetrachloride	<0.00053		0.0018	0.00053	mg/Kg	☼	10/18/18 07:15	10/27/18 17:43	1
Chlorobenzene	<0.00068		0.0018	0.00068	mg/Kg	☼	10/18/18 07:15	10/27/18 17:43	1
Chloroethane	<0.0014	*	0.0046	0.0014	mg/Kg	☼	10/18/18 07:15	10/27/18 17:43	1
Chloroform	<0.00064		0.0018	0.00064	mg/Kg	☼	10/18/18 07:15	10/27/18 17:43	1
Chloromethane	<0.0018		0.0046	0.0018	mg/Kg	☼	10/18/18 07:15	10/27/18 17:43	1
cis-1,2-Dichloroethene	<0.00051		0.0018	0.00051	mg/Kg	☼	10/18/18 07:15	10/27/18 17:43	1
cis-1,3-Dichloropropene	<0.00055		0.0018	0.00055	mg/Kg	☼	10/18/18 07:15	10/27/18 17:43	1
Dibromochloromethane	<0.00060		0.0018	0.00060	mg/Kg	☼	10/18/18 07:15	10/27/18 17:43	1
1,1-Dichloroethane	<0.00063		0.0018	0.00063	mg/Kg	☼	10/18/18 07:15	10/27/18 17:43	1
1,2-Dichloroethane	<0.0014		0.0046	0.0014	mg/Kg	☼	10/18/18 07:15	10/27/18 17:43	1
1,1-Dichloroethene	<0.00063		0.0018	0.00063	mg/Kg	☼	10/18/18 07:15	10/27/18 17:43	1
1,2-Dichloropropane	<0.00048		0.0018	0.00048	mg/Kg	☼	10/18/18 07:15	10/27/18 17:43	1
1,3-Dichloropropene, Total	<0.00065		0.0018	0.00065	mg/Kg	☼	10/18/18 07:15	10/27/18 17:43	1
Ethylbenzene	<0.00088		0.0018	0.00088	mg/Kg	☼	10/18/18 07:15	10/27/18 17:43	1
2-Hexanone	<0.0014		0.0046	0.0014	mg/Kg	☼	10/18/18 07:15	10/27/18 17:43	1
Methylene Chloride	<0.0018		0.0046	0.0018	mg/Kg	☼	10/18/18 07:15	10/27/18 17:43	1
4-Methyl-2-pentanone (MIBK)	<0.0014		0.0046	0.0014	mg/Kg	☼	10/18/18 07:15	10/27/18 17:43	1
Methyl tert-butyl ether	<0.00054		0.0018	0.00054	mg/Kg	☼	10/18/18 07:15	10/27/18 17:43	1
Styrene	<0.00056		0.0018	0.00056	mg/Kg	☼	10/18/18 07:15	10/27/18 17:43	1
1,1,2,2-Tetrachloroethane	<0.00059		0.0018	0.00059	mg/Kg	☼	10/18/18 07:15	10/27/18 17:43	1
Tetrachloroethene	<0.00063		0.0018	0.00063	mg/Kg	☼	10/18/18 07:15	10/27/18 17:43	1
Toluene	<0.00046		0.0018	0.00046	mg/Kg	☼	10/18/18 07:15	10/27/18 17:43	1
trans-1,2-Dichloroethene	<0.00082		0.0018	0.00082	mg/Kg	☼	10/18/18 07:15	10/27/18 17:43	1
trans-1,3-Dichloropropene	<0.00065		0.0018	0.00065	mg/Kg	☼	10/18/18 07:15	10/27/18 17:43	1
1,1,1-Trichloroethane	<0.00062		0.0018	0.00062	mg/Kg	☼	10/18/18 07:15	10/27/18 17:43	1
1,1,2-Trichloroethane	<0.00079		0.0018	0.00079	mg/Kg	☼	10/18/18 07:15	10/27/18 17:43	1
Trichloroethene	<0.00062		0.0018	0.00062	mg/Kg	☼	10/18/18 07:15	10/27/18 17:43	1
Vinyl acetate	<0.0016		0.0046	0.0016	mg/Kg	☼	10/18/18 07:15	10/27/18 17:43	1
Vinyl chloride	<0.00081		0.0018	0.00081	mg/Kg	☼	10/18/18 07:15	10/27/18 17:43	1
Xylenes, Total	<0.00059		0.0037	0.00059	mg/Kg	☼	10/18/18 07:15	10/27/18 17:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		75 - 131	10/18/18 07:15	10/27/18 17:43	1
Dibromofluoromethane	96		75 - 126	10/18/18 07:15	10/27/18 17:43	1
1,2-Dichloroethane-d4 (Surr)	122		70 - 134	10/18/18 07:15	10/27/18 17:43	1
Toluene-d8 (Surr)	94		75 - 124	10/18/18 07:15	10/27/18 17:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.080		0.037	0.0067	mg/Kg	☼	10/24/18 07:29	10/27/18 20:03	1
Acenaphthylene	0.17		0.037	0.0049	mg/Kg	☼	10/24/18 07:29	10/27/18 20:03	1
Anthracene	0.46	*	0.037	0.0063	mg/Kg	☼	10/24/18 07:29	10/27/18 20:03	1
Benzo[a]anthracene	1.7		0.037	0.0051	mg/Kg	☼	10/24/18 07:29	10/27/18 20:03	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B40 (0-4)

Lab Sample ID: 500-153334-11

Date Collected: 10/17/18 13:40

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	<0.038		0.19	0.038	mg/Kg	☼	10/24/18 07:29	10/27/18 20:03	1
Bis(2-chloroethyl)ether	<0.056		0.19	0.056	mg/Kg	☼	10/24/18 07:29	10/27/18 20:03	1
Bis(2-ethylhexyl) phthalate	0.20		0.19	0.069	mg/Kg	☼	10/24/18 07:29	10/27/18 20:03	1
4-Bromophenyl phenyl ether	<0.049		0.19	0.049	mg/Kg	☼	10/24/18 07:29	10/27/18 20:03	1
Butyl benzyl phthalate	0.086 J		0.19	0.071	mg/Kg	☼	10/24/18 07:29	10/27/18 20:03	1
Carbazole	0.33		0.19	0.094	mg/Kg	☼	10/24/18 07:29	10/27/18 20:03	1
4-Chloroaniline	<0.18		0.76	0.18	mg/Kg	☼	10/24/18 07:29	10/27/18 20:03	1
4-Chloro-3-methylphenol	<0.13		0.37	0.13	mg/Kg	☼	10/24/18 07:29	10/27/18 20:03	1
2-Chloronaphthalene	<0.041		0.19	0.041	mg/Kg	☼	10/24/18 07:29	10/27/18 20:03	1
2-Chlorophenol	<0.064		0.19	0.064	mg/Kg	☼	10/24/18 07:29	10/27/18 20:03	1
4-Chlorophenyl phenyl ether	<0.044		0.19	0.044	mg/Kg	☼	10/24/18 07:29	10/27/18 20:03	1
Chrysene	1.9		0.037	0.010	mg/Kg	☼	10/24/18 07:29	10/27/18 20:03	1
Dibenzofuran	0.077 J		0.19	0.044	mg/Kg	☼	10/24/18 07:29	10/27/18 20:03	1
1,2-Dichlorobenzene	<0.045		0.19	0.045	mg/Kg	☼	10/24/18 07:29	10/27/18 20:03	1
1,3-Dichlorobenzene	<0.042		0.19	0.042	mg/Kg	☼	10/24/18 07:29	10/27/18 20:03	1
1,4-Dichlorobenzene	<0.048		0.19	0.048	mg/Kg	☼	10/24/18 07:29	10/27/18 20:03	1
3,3'-Dichlorobenzidine	<0.053		0.19	0.053	mg/Kg	☼	10/24/18 07:29	10/27/18 20:03	1
2,4-Dichlorophenol	<0.089		0.37	0.089	mg/Kg	☼	10/24/18 07:29	10/27/18 20:03	1
Diethyl phthalate	<0.064		0.19	0.064	mg/Kg	☼	10/24/18 07:29	10/27/18 20:03	1
2,4-Dimethylphenol	<0.14		0.37	0.14	mg/Kg	☼	10/24/18 07:29	10/27/18 20:03	1
Dimethyl phthalate	<0.049		0.19	0.049	mg/Kg	☼	10/24/18 07:29	10/27/18 20:03	1
Di-n-butyl phthalate	<0.057		0.19	0.057	mg/Kg	☼	10/24/18 07:29	10/27/18 20:03	1
4,6-Dinitro-2-methylphenol	<0.30		0.76	0.30	mg/Kg	☼	10/24/18 07:29	10/27/18 20:03	1
2,4-Dinitrophenol	<0.66		0.76	0.66	mg/Kg	☼	10/24/18 07:29	10/27/18 20:03	1
2,4-Dinitrotoluene	<0.060		0.19	0.060	mg/Kg	☼	10/24/18 07:29	10/27/18 20:03	1
2,6-Dinitrotoluene	<0.074		0.19	0.074	mg/Kg	☼	10/24/18 07:29	10/27/18 20:03	1
Di-n-octyl phthalate	<0.061		0.19	0.061	mg/Kg	☼	10/24/18 07:29	10/27/18 20:03	1
Fluorene	0.15		0.037	0.0053	mg/Kg	☼	10/24/18 07:29	10/27/18 20:03	1
Hexachlorobenzene	<0.0087		0.076	0.0087	mg/Kg	☼	10/24/18 07:29	10/27/18 20:03	1
Hexachlorobutadiene	<0.059		0.19	0.059	mg/Kg	☼	10/24/18 07:29	10/27/18 20:03	1
Hexachlorocyclopentadiene	<0.22		0.76	0.22	mg/Kg	☼	10/24/18 07:29	10/27/18 20:03	1
Hexachloroethane	<0.057		0.19	0.057	mg/Kg	☼	10/24/18 07:29	10/27/18 20:03	1
Isophorone	<0.042		0.19	0.042	mg/Kg	☼	10/24/18 07:29	10/27/18 20:03	1
2-Methylnaphthalene	0.038 J		0.076	0.0069	mg/Kg	☼	10/24/18 07:29	10/27/18 20:03	1
2-Methylphenol	<0.060		0.19	0.060	mg/Kg	☼	10/24/18 07:29	10/27/18 20:03	1
3 & 4 Methylphenol	<0.063		0.19	0.063	mg/Kg	☼	10/24/18 07:29	10/27/18 20:03	1
Naphthalene	0.032 J		0.037	0.0058	mg/Kg	☼	10/24/18 07:29	10/27/18 20:03	1
2-Nitroaniline	<0.051		0.19	0.051	mg/Kg	☼	10/24/18 07:29	10/27/18 20:03	1
3-Nitroaniline	<0.12		0.37	0.12	mg/Kg	☼	10/24/18 07:29	10/27/18 20:03	1
4-Nitroaniline	<0.16		0.37	0.16	mg/Kg	☼	10/24/18 07:29	10/27/18 20:03	1
Nitrobenzene	<0.0094		0.037	0.0094	mg/Kg	☼	10/24/18 07:29	10/27/18 20:03	1
2-Nitrophenol	<0.089		0.37	0.089	mg/Kg	☼	10/24/18 07:29	10/27/18 20:03	1
4-Nitrophenol	<0.36		0.76	0.36	mg/Kg	☼	10/24/18 07:29	10/27/18 20:03	1
N-Nitrosodi-n-propylamine	<0.046		0.076	0.046	mg/Kg	☼	10/24/18 07:29	10/27/18 20:03	1
N-Nitrosodiphenylamine	<0.044		0.19	0.044	mg/Kg	☼	10/24/18 07:29	10/27/18 20:03	1
2,2'-oxybis[1-chloropropane]	<0.044		0.19	0.044	mg/Kg	☼	10/24/18 07:29	10/27/18 20:03	1
Pentachlorophenol	<0.60		0.76	0.60	mg/Kg	☼	10/24/18 07:29	10/27/18 20:03	1
Phenanthrene	1.8		0.037	0.0052	mg/Kg	☼	10/24/18 07:29	10/27/18 20:03	1
Phenol	<0.083		0.19	0.083	mg/Kg	☼	10/24/18 07:29	10/27/18 20:03	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B40 (0-4)

Lab Sample ID: 500-153334-11

Date Collected: 10/17/18 13:40

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.040		0.19	0.040	mg/Kg	☼	10/24/18 07:29	10/27/18 20:03	1
2,4,5-Trichlorophenol	<0.086	*	0.37	0.086	mg/Kg	☼	10/24/18 07:29	10/27/18 20:03	1
2,4,6-Trichlorophenol	<0.13		0.37	0.13	mg/Kg	☼	10/24/18 07:29	10/27/18 20:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	100		43 - 145				10/24/18 07:29	10/27/18 20:03	1
2-Fluorophenol	148		31 - 166				10/24/18 07:29	10/27/18 20:03	1
Nitrobenzene-d5	120		37 - 147				10/24/18 07:29	10/27/18 20:03	1
Phenol-d5	142		30 - 153				10/24/18 07:29	10/27/18 20:03	1
Terphenyl-d14	211	X	42 - 157				10/24/18 07:29	10/27/18 20:03	1
2,4,6-Tribromophenol	125		31 - 143				10/24/18 07:29	10/27/18 20:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	2.2		0.19	0.036	mg/Kg	☼	10/24/18 07:29	10/29/18 12:12	5
Benzo[b]fluoranthene	4.0		0.19	0.041	mg/Kg	☼	10/24/18 07:29	10/29/18 12:12	5
Benzo[g,h,i]perylene	1.1		0.19	0.060	mg/Kg	☼	10/24/18 07:29	10/29/18 12:12	5
Benzo[k]fluoranthene	1.3		0.19	0.055	mg/Kg	☼	10/24/18 07:29	10/29/18 12:12	5
Dibenz(a,h)anthracene	0.27		0.19	0.036	mg/Kg	☼	10/24/18 07:29	10/29/18 12:12	5
Fluoranthene	4.9	*	0.19	0.035	mg/Kg	☼	10/24/18 07:29	10/29/18 12:12	5
Indeno[1,2,3-cd]pyrene	0.92		0.19	0.049	mg/Kg	☼	10/24/18 07:29	10/29/18 12:12	5
Pyrene	3.7		0.19	0.037	mg/Kg	☼	10/24/18 07:29	10/29/18 12:12	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.46	J B	1.1	0.22	mg/Kg	☼	10/24/18 08:16	10/24/18 20:07	1
Arsenic	3.3		0.57	0.19	mg/Kg	☼	10/24/18 08:16	10/24/18 20:07	1
Barium	260		0.57	0.065	mg/Kg	☼	10/24/18 08:16	10/24/18 20:07	1
Beryllium	0.78		0.23	0.053	mg/Kg	☼	10/24/18 08:16	10/24/18 20:07	1
Cadmium	0.29	B	0.11	0.020	mg/Kg	☼	10/24/18 08:16	10/24/18 20:07	1
Chromium	16		0.57	0.28	mg/Kg	☼	10/24/18 08:16	10/24/18 20:07	1
Cobalt	4.1		0.28	0.074	mg/Kg	☼	10/24/18 08:16	10/24/18 20:07	1
Copper	24	B	0.57	0.16	mg/Kg	☼	10/24/18 08:16	10/24/18 20:07	1
Iron	12000		11	5.9	mg/Kg	☼	10/24/18 08:16	10/24/18 20:07	1
Lead	66	B	0.28	0.13	mg/Kg	☼	10/24/18 08:16	10/24/18 20:07	1
Magnesium	52000		5.7	2.8	mg/Kg	☼	10/24/18 08:16	10/24/18 20:07	1
Calcium	110000	B	57	9.6	mg/Kg	☼	10/24/18 08:16	10/25/18 12:48	5
Manganese	410		0.57	0.082	mg/Kg	☼	10/24/18 08:16	10/24/18 20:07	1
Nickel	13		0.57	0.17	mg/Kg	☼	10/24/18 08:16	10/24/18 20:07	1
Selenium	0.33	J	0.57	0.33	mg/Kg	☼	10/24/18 08:16	10/24/18 20:07	1
Silver	0.18	J	0.28	0.073	mg/Kg	☼	10/24/18 08:16	10/24/18 20:07	1
Thallium	<0.28		0.57	0.28	mg/Kg	☼	10/24/18 08:16	10/24/18 20:07	1
Vanadium	17		0.28	0.067	mg/Kg	☼	10/24/18 08:16	10/24/18 20:07	1
Zinc	140		1.1	0.50	mg/Kg	☼	10/24/18 08:16	10/24/18 20:07	1
Potassium	1300		28	10	mg/Kg	☼	10/24/18 08:16	10/24/18 20:07	1
Sodium	680		57	8.4	mg/Kg	☼	10/24/18 08:16	10/24/18 20:07	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		10/25/18 09:50	10/25/18 23:53	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B40 (0-4)

Lab Sample ID: 500-153334-11

Date Collected: 10/17/18 13:40

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.49	J	0.50	0.050	mg/L		10/25/18 09:50	10/25/18 23:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/25/18 09:50	10/25/18 23:53	1
Cadmium	0.0036	J	0.0050	0.0020	mg/L		10/25/18 09:50	10/25/18 23:53	1
Calcium	350		5.0	0.50	mg/L		10/25/18 09:50	10/25/18 23:53	1
Chromium	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/26/18 15:12	1
Cobalt	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/25/18 23:53	1
Copper	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/25/18 23:53	1
Iron	<0.20		0.40	0.20	mg/L		10/25/18 09:50	10/25/18 23:53	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/25/18 09:50	10/25/18 23:53	1
Magnesium	130		2.5	0.50	mg/L		10/25/18 09:50	10/25/18 23:53	1
Manganese	0.98		0.025	0.010	mg/L		10/25/18 09:50	10/25/18 23:53	1
Nickel	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/25/18 23:53	1
Potassium	1.8	J	2.5	0.50	mg/L		10/25/18 09:50	10/25/18 23:53	1
Selenium	<0.020		0.050	0.020	mg/L		10/25/18 09:50	10/25/18 23:53	1
Silver	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/25/18 23:53	1
Vanadium	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/25/18 23:53	1
Zinc	0.13	J	0.50	0.020	mg/L		10/25/18 09:50	10/25/18 23:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.45		0.025	0.010	mg/L		10/25/18 15:13	10/26/18 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		10/25/18 09:50	10/25/18 19:32	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/25/18 09:50	10/25/18 19:32	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		10/25/18 12:40	10/26/18 08:44	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.019	0.0064	mg/Kg	☼	10/23/18 15:50	10/24/18 10:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.19		0.55	0.19	mg/Kg	☼	10/25/18 17:45	10/26/18 11:39	1
pH	8.4		0.2	0.2	SU			10/24/18 16:39	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B15 (0-5)

Lab Sample ID: 500-153334-12

Date Collected: 10/17/18 09:20

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.012		0.027	0.012	mg/Kg	☼	10/18/18 07:15	10/27/18 18:09	1
Benzene	<0.00068		0.0027	0.00068	mg/Kg	☼	10/18/18 07:15	10/27/18 18:09	1
Bromodichloromethane	<0.00054		0.0027	0.00054	mg/Kg	☼	10/18/18 07:15	10/27/18 18:09	1
Bromoform	<0.00078		0.0027	0.00078	mg/Kg	☼	10/18/18 07:15	10/27/18 18:09	1
Bromomethane	<0.0025		0.0067	0.0025	mg/Kg	☼	10/18/18 07:15	10/27/18 18:09	1
2-Butanone (MEK)	<0.0030		0.0067	0.0030	mg/Kg	☼	10/18/18 07:15	10/27/18 18:09	1
Carbon disulfide	<0.0014		0.0067	0.0014	mg/Kg	☼	10/18/18 07:15	10/27/18 18:09	1
Carbon tetrachloride	<0.00077		0.0027	0.00077	mg/Kg	☼	10/18/18 07:15	10/27/18 18:09	1
Chlorobenzene	<0.00098		0.0027	0.00098	mg/Kg	☼	10/18/18 07:15	10/27/18 18:09	1
Chloroethane	<0.0020	*	0.0067	0.0020	mg/Kg	☼	10/18/18 07:15	10/27/18 18:09	1
Chloroform	<0.00092		0.0027	0.00092	mg/Kg	☼	10/18/18 07:15	10/27/18 18:09	1
Chloromethane	<0.0027		0.0067	0.0027	mg/Kg	☼	10/18/18 07:15	10/27/18 18:09	1
cis-1,2-Dichloroethene	<0.00074		0.0027	0.00074	mg/Kg	☼	10/18/18 07:15	10/27/18 18:09	1
cis-1,3-Dichloropropene	<0.00080		0.0027	0.00080	mg/Kg	☼	10/18/18 07:15	10/27/18 18:09	1
Dibromochloromethane	<0.00087		0.0027	0.00087	mg/Kg	☼	10/18/18 07:15	10/27/18 18:09	1
1,1-Dichloroethane	<0.00091		0.0027	0.00091	mg/Kg	☼	10/18/18 07:15	10/27/18 18:09	1
1,2-Dichloroethane	<0.0021		0.0067	0.0021	mg/Kg	☼	10/18/18 07:15	10/27/18 18:09	1
1,1-Dichloroethene	<0.00092		0.0027	0.00092	mg/Kg	☼	10/18/18 07:15	10/27/18 18:09	1
1,2-Dichloropropane	<0.00069		0.0027	0.00069	mg/Kg	☼	10/18/18 07:15	10/27/18 18:09	1
1,3-Dichloropropene, Total	<0.00094		0.0027	0.00094	mg/Kg	☼	10/18/18 07:15	10/27/18 18:09	1
Ethylbenzene	<0.0013		0.0027	0.0013	mg/Kg	☼	10/18/18 07:15	10/27/18 18:09	1
2-Hexanone	<0.0021		0.0067	0.0021	mg/Kg	☼	10/18/18 07:15	10/27/18 18:09	1
Methylene Chloride	<0.0026		0.0067	0.0026	mg/Kg	☼	10/18/18 07:15	10/27/18 18:09	1
4-Methyl-2-pentanone (MIBK)	<0.0020		0.0067	0.0020	mg/Kg	☼	10/18/18 07:15	10/27/18 18:09	1
Methyl tert-butyl ether	<0.00078		0.0027	0.00078	mg/Kg	☼	10/18/18 07:15	10/27/18 18:09	1
Styrene	<0.00080		0.0027	0.00080	mg/Kg	☼	10/18/18 07:15	10/27/18 18:09	1
1,1,2,2-Tetrachloroethane	<0.00085		0.0027	0.00085	mg/Kg	☼	10/18/18 07:15	10/27/18 18:09	1
Tetrachloroethene	<0.00091		0.0027	0.00091	mg/Kg	☼	10/18/18 07:15	10/27/18 18:09	1
Toluene	<0.00067		0.0027	0.00067	mg/Kg	☼	10/18/18 07:15	10/27/18 18:09	1
trans-1,2-Dichloroethene	<0.0012		0.0027	0.0012	mg/Kg	☼	10/18/18 07:15	10/27/18 18:09	1
trans-1,3-Dichloropropene	<0.00094		0.0027	0.00094	mg/Kg	☼	10/18/18 07:15	10/27/18 18:09	1
1,1,1-Trichloroethane	<0.00089		0.0027	0.00089	mg/Kg	☼	10/18/18 07:15	10/27/18 18:09	1
1,1,2-Trichloroethane	<0.0011		0.0027	0.0011	mg/Kg	☼	10/18/18 07:15	10/27/18 18:09	1
Trichloroethene	<0.00090		0.0027	0.00090	mg/Kg	☼	10/18/18 07:15	10/27/18 18:09	1
Vinyl acetate	<0.0023		0.0067	0.0023	mg/Kg	☼	10/18/18 07:15	10/27/18 18:09	1
Vinyl chloride	<0.0012		0.0027	0.0012	mg/Kg	☼	10/18/18 07:15	10/27/18 18:09	1
Xylenes, Total	<0.00085		0.0053	0.00085	mg/Kg	☼	10/18/18 07:15	10/27/18 18:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		75 - 131	10/18/18 07:15	10/27/18 18:09	1
Dibromofluoromethane	97		75 - 126	10/18/18 07:15	10/27/18 18:09	1
1,2-Dichloroethane-d4 (Surr)	126		70 - 134	10/18/18 07:15	10/27/18 18:09	1
Toluene-d8 (Surr)	93		75 - 124	10/18/18 07:15	10/27/18 18:09	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	☼	10/24/18 07:29	10/27/18 12:24	1
Acenaphthylene	<0.0050		0.038	0.0050	mg/Kg	☼	10/24/18 07:29	10/27/18 12:24	1
Anthracene	0.0071	J *	0.038	0.0064	mg/Kg	☼	10/24/18 07:29	10/27/18 12:24	1
Benzo[a]anthracene	0.039		0.038	0.0051	mg/Kg	☼	10/24/18 07:29	10/27/18 12:24	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B15 (0-5)

Lab Sample ID: 500-153334-12

Date Collected: 10/17/18 09:20

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.056		0.038	0.0074	mg/Kg	☼	10/24/18 07:29	10/27/18 12:24	1
Benzo[b]fluoranthene	0.090		0.038	0.0082	mg/Kg	☼	10/24/18 07:29	10/27/18 12:24	1
Benzo[g,h,i]perylene	0.048		0.038	0.012	mg/Kg	☼	10/24/18 07:29	10/27/18 12:24	1
Benzo[k]fluoranthene	0.031	J	0.038	0.011	mg/Kg	☼	10/24/18 07:29	10/27/18 12:24	1
Bis(2-chloroethoxy)methane	<0.039		0.19	0.039	mg/Kg	☼	10/24/18 07:29	10/27/18 12:24	1
Bis(2-chloroethyl)ether	<0.057		0.19	0.057	mg/Kg	☼	10/24/18 07:29	10/27/18 12:24	1
Bis(2-ethylhexyl) phthalate	<0.070		0.19	0.070	mg/Kg	☼	10/24/18 07:29	10/27/18 12:24	1
4-Bromophenyl phenyl ether	<0.050		0.19	0.050	mg/Kg	☼	10/24/18 07:29	10/27/18 12:24	1
Butyl benzyl phthalate	<0.073		0.19	0.073	mg/Kg	☼	10/24/18 07:29	10/27/18 12:24	1
Carbazole	<0.095		0.19	0.095	mg/Kg	☼	10/24/18 07:29	10/27/18 12:24	1
4-Chloroaniline	<0.18		0.77	0.18	mg/Kg	☼	10/24/18 07:29	10/27/18 12:24	1
4-Chloro-3-methylphenol	<0.13		0.38	0.13	mg/Kg	☼	10/24/18 07:29	10/27/18 12:24	1
2-Chloronaphthalene	<0.042		0.19	0.042	mg/Kg	☼	10/24/18 07:29	10/27/18 12:24	1
2-Chlorophenol	<0.065		0.19	0.065	mg/Kg	☼	10/24/18 07:29	10/27/18 12:24	1
4-Chlorophenyl phenyl ether	<0.045		0.19	0.045	mg/Kg	☼	10/24/18 07:29	10/27/18 12:24	1
Chrysene	0.067		0.038	0.010	mg/Kg	☼	10/24/18 07:29	10/27/18 12:24	1
Dibenz(a,h)anthracene	0.011	J	0.038	0.0074	mg/Kg	☼	10/24/18 07:29	10/27/18 12:24	1
Dibenzofuran	<0.045		0.19	0.045	mg/Kg	☼	10/24/18 07:29	10/27/18 12:24	1
1,2-Dichlorobenzene	<0.046		0.19	0.046	mg/Kg	☼	10/24/18 07:29	10/27/18 12:24	1
1,3-Dichlorobenzene	<0.043		0.19	0.043	mg/Kg	☼	10/24/18 07:29	10/27/18 12:24	1
1,4-Dichlorobenzene	<0.049		0.19	0.049	mg/Kg	☼	10/24/18 07:29	10/27/18 12:24	1
3,3'-Dichlorobenzidine	<0.053		0.19	0.053	mg/Kg	☼	10/24/18 07:29	10/27/18 12:24	1
2,4-Dichlorophenol	<0.091		0.38	0.091	mg/Kg	☼	10/24/18 07:29	10/27/18 12:24	1
Diethyl phthalate	<0.065		0.19	0.065	mg/Kg	☼	10/24/18 07:29	10/27/18 12:24	1
2,4-Dimethylphenol	<0.14		0.38	0.14	mg/Kg	☼	10/24/18 07:29	10/27/18 12:24	1
Dimethyl phthalate	<0.050		0.19	0.050	mg/Kg	☼	10/24/18 07:29	10/27/18 12:24	1
Di-n-butyl phthalate	<0.058		0.19	0.058	mg/Kg	☼	10/24/18 07:29	10/27/18 12:24	1
4,6-Dinitro-2-methylphenol	<0.31		0.77	0.31	mg/Kg	☼	10/24/18 07:29	10/27/18 12:24	1
2,4-Dinitrophenol	<0.67		0.77	0.67	mg/Kg	☼	10/24/18 07:29	10/27/18 12:24	1
2,4-Dinitrotoluene	<0.061		0.19	0.061	mg/Kg	☼	10/24/18 07:29	10/27/18 12:24	1
2,6-Dinitrotoluene	<0.075		0.19	0.075	mg/Kg	☼	10/24/18 07:29	10/27/18 12:24	1
Di-n-octyl phthalate	<0.062		0.19	0.062	mg/Kg	☼	10/24/18 07:29	10/27/18 12:24	1
Fluoranthene	0.12	*	0.038	0.0071	mg/Kg	☼	10/24/18 07:29	10/27/18 12:24	1
Fluorene	<0.0054		0.038	0.0054	mg/Kg	☼	10/24/18 07:29	10/27/18 12:24	1
Hexachlorobenzene	<0.0089		0.077	0.0089	mg/Kg	☼	10/24/18 07:29	10/27/18 12:24	1
Hexachlorobutadiene	<0.060		0.19	0.060	mg/Kg	☼	10/24/18 07:29	10/27/18 12:24	1
Hexachlorocyclopentadiene	<0.22		0.77	0.22	mg/Kg	☼	10/24/18 07:29	10/27/18 12:24	1
Hexachloroethane	<0.058		0.19	0.058	mg/Kg	☼	10/24/18 07:29	10/27/18 12:24	1
Indeno[1,2,3-cd]pyrene	0.035	J	0.038	0.0099	mg/Kg	☼	10/24/18 07:29	10/27/18 12:24	1
Isophorone	<0.043		0.19	0.043	mg/Kg	☼	10/24/18 07:29	10/27/18 12:24	1
2-Methylnaphthalene	<0.0070		0.077	0.0070	mg/Kg	☼	10/24/18 07:29	10/27/18 12:24	1
2-Methylphenol	<0.061		0.19	0.061	mg/Kg	☼	10/24/18 07:29	10/27/18 12:24	1
3 & 4 Methylphenol	<0.064		0.19	0.064	mg/Kg	☼	10/24/18 07:29	10/27/18 12:24	1
Naphthalene	<0.0059		0.038	0.0059	mg/Kg	☼	10/24/18 07:29	10/27/18 12:24	1
2-Nitroaniline	<0.051		0.19	0.051	mg/Kg	☼	10/24/18 07:29	10/27/18 12:24	1
3-Nitroaniline	<0.12		0.38	0.12	mg/Kg	☼	10/24/18 07:29	10/27/18 12:24	1
4-Nitroaniline	<0.16		0.38	0.16	mg/Kg	☼	10/24/18 07:29	10/27/18 12:24	1
Nitrobenzene	<0.0095		0.038	0.0095	mg/Kg	☼	10/24/18 07:29	10/27/18 12:24	1
2-Nitrophenol	<0.090		0.38	0.090	mg/Kg	☼	10/24/18 07:29	10/27/18 12:24	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B15 (0-5)

Lab Sample ID: 500-153334-12

Date Collected: 10/17/18 09:20

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 86.7

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	☼	10/24/18 07:29	10/27/18 12:24	1
N-Nitrosodi-n-propylamine	<0.047		0.077	0.047	mg/Kg	☼	10/24/18 07:29	10/27/18 12:24	1
N-Nitrosodiphenylamine	<0.045		0.19	0.045	mg/Kg	☼	10/24/18 07:29	10/27/18 12:24	1
2,2'-oxybis[1-chloropropane]	<0.044		0.19	0.044	mg/Kg	☼	10/24/18 07:29	10/27/18 12:24	1
Pentachlorophenol	<0.61		0.77	0.61	mg/Kg	☼	10/24/18 07:29	10/27/18 12:24	1
Phenanthrene	0.046		0.038	0.0053	mg/Kg	☼	10/24/18 07:29	10/27/18 12:24	1
Phenol	<0.085		0.19	0.085	mg/Kg	☼	10/24/18 07:29	10/27/18 12:24	1
Pyrene	0.082		0.038	0.0076	mg/Kg	☼	10/24/18 07:29	10/27/18 12:24	1
1,2,4-Trichlorobenzene	<0.041		0.19	0.041	mg/Kg	☼	10/24/18 07:29	10/27/18 12:24	1
2,4,5-Trichlorophenol	<0.087 *		0.38	0.087	mg/Kg	☼	10/24/18 07:29	10/27/18 12:24	1
2,4,6-Trichlorophenol	<0.13		0.38	0.13	mg/Kg	☼	10/24/18 07:29	10/27/18 12:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	105		43 - 145				10/24/18 07:29	10/27/18 12:24	1
2-Fluorophenol	168	X	31 - 166				10/24/18 07:29	10/27/18 12:24	1
Nitrobenzene-d5	116		37 - 147				10/24/18 07:29	10/27/18 12:24	1
Phenol-d5	134		30 - 153				10/24/18 07:29	10/27/18 12:24	1
Terphenyl-d14	106		42 - 157				10/24/18 07:29	10/27/18 12:24	1
2,4,6-Tribromophenol	112		31 - 143				10/24/18 07:29	10/27/18 12:24	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.38	J B F1	1.1	0.21	mg/Kg	☼	10/24/18 08:16	10/24/18 20:11	1
Arsenic	6.3		0.54	0.18	mg/Kg	☼	10/24/18 08:16	10/24/18 20:11	1
Barium	130	F1 F2	0.54	0.062	mg/Kg	☼	10/24/18 08:16	10/24/18 20:11	1
Beryllium	0.65	F1	0.22	0.050	mg/Kg	☼	10/24/18 08:16	10/24/18 20:11	1
Cadmium	0.17	B F1	0.11	0.019	mg/Kg	☼	10/24/18 08:16	10/24/18 20:11	1
Chromium	17		0.54	0.27	mg/Kg	☼	10/24/18 08:16	10/24/18 20:11	1
Cobalt	10	F1 F2	0.27	0.071	mg/Kg	☼	10/24/18 08:16	10/24/18 20:11	1
Copper	14	B	0.54	0.15	mg/Kg	☼	10/24/18 08:16	10/24/18 20:11	1
Iron	16000		11	5.6	mg/Kg	☼	10/24/18 08:16	10/24/18 20:11	1
Lead	26	B	0.27	0.12	mg/Kg	☼	10/24/18 08:16	10/24/18 20:11	1
Magnesium	4000		5.4	2.7	mg/Kg	☼	10/24/18 08:16	10/24/18 20:11	1
Calcium	5000	B F2	11	1.8	mg/Kg	☼	10/24/18 08:16	10/24/18 20:11	1
Manganese	660	F2	0.54	0.078	mg/Kg	☼	10/24/18 08:16	10/24/18 20:11	1
Nickel	18	F1 F2	0.54	0.16	mg/Kg	☼	10/24/18 08:16	10/24/18 20:11	1
Selenium	0.56	F1	0.54	0.32	mg/Kg	☼	10/24/18 08:16	10/24/18 20:11	1
Silver	0.30	F1	0.27	0.070	mg/Kg	☼	10/24/18 08:16	10/24/18 20:11	1
Thallium	<0.27	F1	0.54	0.27	mg/Kg	☼	10/24/18 08:16	10/24/18 20:11	1
Vanadium	29		0.27	0.064	mg/Kg	☼	10/24/18 08:16	10/24/18 20:11	1
Zinc	70		1.1	0.47	mg/Kg	☼	10/24/18 08:16	10/24/18 20:11	1
Potassium	1800	F1	27	9.6	mg/Kg	☼	10/24/18 08:16	10/24/18 20:11	1
Sodium	510		54	8.0	mg/Kg	☼	10/24/18 08:16	10/24/18 20:11	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		10/25/18 09:50	10/25/18 23:57	1
Barium	0.53		0.50	0.050	mg/L		10/25/18 09:50	10/25/18 23:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/25/18 09:50	10/25/18 23:57	1
Cadmium	0.0021	J	0.0050	0.0020	mg/L		10/25/18 09:50	10/25/18 23:57	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B15 (0-5)

Lab Sample ID: 500-153334-12

Date Collected: 10/17/18 09:20

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	140		5.0	0.50	mg/L		10/25/18 09:50	10/25/18 23:57	1
Chromium	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/26/18 15:16	1
Cobalt	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/25/18 23:57	1
Copper	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/25/18 23:57	1
Iron	<0.20		0.40	0.20	mg/L		10/25/18 09:50	10/25/18 23:57	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/25/18 09:50	10/25/18 23:57	1
Magnesium	67		2.5	0.50	mg/L		10/25/18 09:50	10/25/18 23:57	1
Manganese	0.26		0.025	0.010	mg/L		10/25/18 09:50	10/25/18 23:57	1
Nickel	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/25/18 23:57	1
Potassium	5.0		2.5	0.50	mg/L		10/25/18 09:50	10/25/18 23:57	1
Selenium	<0.020		0.050	0.020	mg/L		10/25/18 09:50	10/25/18 23:57	1
Silver	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/25/18 23:57	1
Vanadium	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/25/18 23:57	1
Zinc	0.15 J		0.50	0.020	mg/L		10/25/18 09:50	10/25/18 23:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.61		0.025	0.010	mg/L		10/25/18 15:13	10/26/18 17:23	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		10/25/18 09:50	10/25/18 19:33	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/25/18 09:50	10/25/18 19:33	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		10/25/18 12:40	10/26/18 08:50	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.018	0.0061	mg/Kg	☼	10/23/18 15:50	10/24/18 10:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.19		0.55	0.19	mg/Kg	☼	10/25/18 17:45	10/26/18 11:39	1
pH	7.6		0.2	0.2	SU			10/24/18 16:39	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B15 (0-5) Dup

Lab Sample ID: 500-153334-13

Date Collected: 10/17/18 09:25

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.011		0.024	0.011	mg/Kg	☼	10/18/18 07:15	10/28/18 05:45	1
Benzene	<0.00062		0.0024	0.00062	mg/Kg	☼	10/18/18 07:15	10/28/18 05:45	1
Bromodichloromethane	<0.00049		0.0024	0.00049	mg/Kg	☼	10/18/18 07:15	10/28/18 05:45	1
Bromoform	<0.00071		0.0024	0.00071	mg/Kg	☼	10/18/18 07:15	10/28/18 05:45	1
Bromomethane	<0.0023		0.0061	0.0023	mg/Kg	☼	10/18/18 07:15	10/28/18 05:45	1
2-Butanone (MEK)	<0.0027		0.0061	0.0027	mg/Kg	☼	10/18/18 07:15	10/28/18 05:45	1
Carbon disulfide	<0.0013		0.0061	0.0013	mg/Kg	☼	10/18/18 07:15	10/28/18 05:45	1
Carbon tetrachloride	<0.00070		0.0024	0.00070	mg/Kg	☼	10/18/18 07:15	10/28/18 05:45	1
Chlorobenzene	<0.00090		0.0024	0.00090	mg/Kg	☼	10/18/18 07:15	10/28/18 05:45	1
Chloroethane	<0.0018	*	0.0061	0.0018	mg/Kg	☼	10/18/18 07:15	10/28/18 05:45	1
Chloroform	<0.00084		0.0024	0.00084	mg/Kg	☼	10/18/18 07:15	10/28/18 05:45	1
Chloromethane	<0.0024		0.0061	0.0024	mg/Kg	☼	10/18/18 07:15	10/28/18 05:45	1
cis-1,2-Dichloroethene	<0.00068		0.0024	0.00068	mg/Kg	☼	10/18/18 07:15	10/28/18 05:45	1
cis-1,3-Dichloropropene	<0.00073		0.0024	0.00073	mg/Kg	☼	10/18/18 07:15	10/28/18 05:45	1
Dibromochloromethane	<0.00079		0.0024	0.00079	mg/Kg	☼	10/18/18 07:15	10/28/18 05:45	1
1,1-Dichloroethane	<0.00083		0.0024	0.00083	mg/Kg	☼	10/18/18 07:15	10/28/18 05:45	1
1,2-Dichloroethane	<0.0019		0.0061	0.0019	mg/Kg	☼	10/18/18 07:15	10/28/18 05:45	1
1,1-Dichloroethene	<0.00084		0.0024	0.00084	mg/Kg	☼	10/18/18 07:15	10/28/18 05:45	1
1,2-Dichloropropane	<0.00063		0.0024	0.00063	mg/Kg	☼	10/18/18 07:15	10/28/18 05:45	1
1,3-Dichloropropene, Total	<0.00085		0.0024	0.00085	mg/Kg	☼	10/18/18 07:15	10/28/18 05:45	1
Ethylbenzene	<0.0012		0.0024	0.0012	mg/Kg	☼	10/18/18 07:15	10/28/18 05:45	1
2-Hexanone	<0.0019		0.0061	0.0019	mg/Kg	☼	10/18/18 07:15	10/28/18 05:45	1
Methylene Chloride	<0.0024		0.0061	0.0024	mg/Kg	☼	10/18/18 07:15	10/28/18 05:45	1
4-Methyl-2-pentanone (MIBK)	<0.0018		0.0061	0.0018	mg/Kg	☼	10/18/18 07:15	10/28/18 05:45	1
Methyl tert-butyl ether	<0.00071		0.0024	0.00071	mg/Kg	☼	10/18/18 07:15	10/28/18 05:45	1
Styrene	<0.00073		0.0024	0.00073	mg/Kg	☼	10/18/18 07:15	10/28/18 05:45	1
1,1,2,2-Tetrachloroethane	<0.00078		0.0024	0.00078	mg/Kg	☼	10/18/18 07:15	10/28/18 05:45	1
Tetrachloroethene	<0.00083		0.0024	0.00083	mg/Kg	☼	10/18/18 07:15	10/28/18 05:45	1
Toluene	<0.00061		0.0024	0.00061	mg/Kg	☼	10/18/18 07:15	10/28/18 05:45	1
trans-1,2-Dichloroethene	<0.0011		0.0024	0.0011	mg/Kg	☼	10/18/18 07:15	10/28/18 05:45	1
trans-1,3-Dichloropropene	<0.00085		0.0024	0.00085	mg/Kg	☼	10/18/18 07:15	10/28/18 05:45	1
1,1,1-Trichloroethane	<0.00081		0.0024	0.00081	mg/Kg	☼	10/18/18 07:15	10/28/18 05:45	1
1,1,2-Trichloroethane	<0.0010		0.0024	0.0010	mg/Kg	☼	10/18/18 07:15	10/28/18 05:45	1
Trichloroethene	<0.00082		0.0024	0.00082	mg/Kg	☼	10/18/18 07:15	10/28/18 05:45	1
Vinyl acetate	<0.0021		0.0061	0.0021	mg/Kg	☼	10/18/18 07:15	10/28/18 05:45	1
Vinyl chloride	<0.0011		0.0024	0.0011	mg/Kg	☼	10/18/18 07:15	10/28/18 05:45	1
Xylenes, Total	<0.00078		0.0049	0.00078	mg/Kg	☼	10/18/18 07:15	10/28/18 05:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		75 - 131	10/18/18 07:15	10/28/18 05:45	1
Dibromofluoromethane	102		75 - 126	10/18/18 07:15	10/28/18 05:45	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 134	10/18/18 07:15	10/28/18 05:45	1
Toluene-d8 (Surr)	98		75 - 124	10/18/18 07:15	10/28/18 05:45	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	☼	10/24/18 07:29	10/27/18 14:19	1
Acenaphthylene	0.0052	J	0.038	0.0051	mg/Kg	☼	10/24/18 07:29	10/27/18 14:19	1
Anthracene	0.016	J *	0.038	0.0065	mg/Kg	☼	10/24/18 07:29	10/27/18 14:19	1
Benzo[a]anthracene	0.087		0.038	0.0052	mg/Kg	☼	10/24/18 07:29	10/27/18 14:19	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B15 (0-5) Dup

Lab Sample ID: 500-153334-13

Date Collected: 10/17/18 09:25

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.11		0.038	0.0075	mg/Kg	☼	10/24/18 07:29	10/27/18 14:19	1
Benzo[b]fluoranthene	0.16		0.038	0.0083	mg/Kg	☼	10/24/18 07:29	10/27/18 14:19	1
Benzo[g,h,i]perylene	0.044		0.038	0.012	mg/Kg	☼	10/24/18 07:29	10/27/18 14:19	1
Benzo[k]fluoranthene	0.050		0.038	0.011	mg/Kg	☼	10/24/18 07:29	10/27/18 14:19	1
Bis(2-chloroethoxy)methane	<0.039		0.19	0.039	mg/Kg	☼	10/24/18 07:29	10/27/18 14:19	1
Bis(2-chloroethyl)ether	<0.058		0.19	0.058	mg/Kg	☼	10/24/18 07:29	10/27/18 14:19	1
Bis(2-ethylhexyl) phthalate	<0.071		0.19	0.071	mg/Kg	☼	10/24/18 07:29	10/27/18 14:19	1
4-Bromophenyl phenyl ether	<0.051		0.19	0.051	mg/Kg	☼	10/24/18 07:29	10/27/18 14:19	1
Butyl benzyl phthalate	<0.074		0.19	0.074	mg/Kg	☼	10/24/18 07:29	10/27/18 14:19	1
Carbazole	<0.097		0.19	0.097	mg/Kg	☼	10/24/18 07:29	10/27/18 14:19	1
4-Chloroaniline	<0.18		0.78	0.18	mg/Kg	☼	10/24/18 07:29	10/27/18 14:19	1
4-Chloro-3-methylphenol	<0.13		0.38	0.13	mg/Kg	☼	10/24/18 07:29	10/27/18 14:19	1
2-Chloronaphthalene	<0.043		0.19	0.043	mg/Kg	☼	10/24/18 07:29	10/27/18 14:19	1
2-Chlorophenol	<0.066		0.19	0.066	mg/Kg	☼	10/24/18 07:29	10/27/18 14:19	1
4-Chlorophenyl phenyl ether	<0.045		0.19	0.045	mg/Kg	☼	10/24/18 07:29	10/27/18 14:19	1
Chrysene	0.12		0.038	0.011	mg/Kg	☼	10/24/18 07:29	10/27/18 14:19	1
Dibenz(a,h)anthracene	<0.0075		0.038	0.0075	mg/Kg	☼	10/24/18 07:29	10/27/18 14:19	1
Dibenzofuran	<0.045		0.19	0.045	mg/Kg	☼	10/24/18 07:29	10/27/18 14:19	1
1,2-Dichlorobenzene	<0.046		0.19	0.046	mg/Kg	☼	10/24/18 07:29	10/27/18 14:19	1
1,3-Dichlorobenzene	<0.044		0.19	0.044	mg/Kg	☼	10/24/18 07:29	10/27/18 14:19	1
1,4-Dichlorobenzene	<0.050		0.19	0.050	mg/Kg	☼	10/24/18 07:29	10/27/18 14:19	1
3,3'-Dichlorobenzidine	<0.054		0.19	0.054	mg/Kg	☼	10/24/18 07:29	10/27/18 14:19	1
2,4-Dichlorophenol	<0.092		0.38	0.092	mg/Kg	☼	10/24/18 07:29	10/27/18 14:19	1
Diethyl phthalate	<0.066		0.19	0.066	mg/Kg	☼	10/24/18 07:29	10/27/18 14:19	1
2,4-Dimethylphenol	<0.15		0.38	0.15	mg/Kg	☼	10/24/18 07:29	10/27/18 14:19	1
Dimethyl phthalate	<0.051		0.19	0.051	mg/Kg	☼	10/24/18 07:29	10/27/18 14:19	1
Di-n-butyl phthalate	<0.059		0.19	0.059	mg/Kg	☼	10/24/18 07:29	10/27/18 14:19	1
4,6-Dinitro-2-methylphenol	<0.31		0.78	0.31	mg/Kg	☼	10/24/18 07:29	10/27/18 14:19	1
2,4-Dinitrophenol	<0.68		0.78	0.68	mg/Kg	☼	10/24/18 07:29	10/27/18 14:19	1
2,4-Dinitrotoluene	<0.061		0.19	0.061	mg/Kg	☼	10/24/18 07:29	10/27/18 14:19	1
2,6-Dinitrotoluene	<0.076		0.19	0.076	mg/Kg	☼	10/24/18 07:29	10/27/18 14:19	1
Di-n-octyl phthalate	<0.063		0.19	0.063	mg/Kg	☼	10/24/18 07:29	10/27/18 14:19	1
Fluoranthene	0.22 *		0.038	0.0072	mg/Kg	☼	10/24/18 07:29	10/27/18 14:19	1
Fluorene	<0.0054		0.038	0.0054	mg/Kg	☼	10/24/18 07:29	10/27/18 14:19	1
Hexachlorobenzene	<0.0090		0.078	0.0090	mg/Kg	☼	10/24/18 07:29	10/27/18 14:19	1
Hexachlorobutadiene	<0.061		0.19	0.061	mg/Kg	☼	10/24/18 07:29	10/27/18 14:19	1
Hexachlorocyclopentadiene	<0.22		0.78	0.22	mg/Kg	☼	10/24/18 07:29	10/27/18 14:19	1
Hexachloroethane	<0.059		0.19	0.059	mg/Kg	☼	10/24/18 07:29	10/27/18 14:19	1
Indeno[1,2,3-cd]pyrene	0.044		0.038	0.010	mg/Kg	☼	10/24/18 07:29	10/27/18 14:19	1
Isophorone	<0.043		0.19	0.043	mg/Kg	☼	10/24/18 07:29	10/27/18 14:19	1
2-Methylnaphthalene	<0.0071		0.078	0.0071	mg/Kg	☼	10/24/18 07:29	10/27/18 14:19	1
2-Methylphenol	<0.062		0.19	0.062	mg/Kg	☼	10/24/18 07:29	10/27/18 14:19	1
3 & 4 Methylphenol	<0.064		0.19	0.064	mg/Kg	☼	10/24/18 07:29	10/27/18 14:19	1
Naphthalene	<0.0059		0.038	0.0059	mg/Kg	☼	10/24/18 07:29	10/27/18 14:19	1
2-Nitroaniline	<0.052		0.19	0.052	mg/Kg	☼	10/24/18 07:29	10/27/18 14:19	1
3-Nitroaniline	<0.12		0.38	0.12	mg/Kg	☼	10/24/18 07:29	10/27/18 14:19	1
4-Nitroaniline	<0.16		0.38	0.16	mg/Kg	☼	10/24/18 07:29	10/27/18 14:19	1
Nitrobenzene	<0.0097		0.038	0.0097	mg/Kg	☼	10/24/18 07:29	10/27/18 14:19	1
2-Nitrophenol	<0.091		0.38	0.091	mg/Kg	☼	10/24/18 07:29	10/27/18 14:19	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B15 (0-5) Dup

Lab Sample ID: 500-153334-13

Date Collected: 10/17/18 09:25

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.37		0.78	0.37	mg/Kg	☼	10/24/18 07:29	10/27/18 14:19	1
N-Nitrosodi-n-propylamine	<0.047		0.078	0.047	mg/Kg	☼	10/24/18 07:29	10/27/18 14:19	1
N-Nitrosodiphenylamine	<0.046		0.19	0.046	mg/Kg	☼	10/24/18 07:29	10/27/18 14:19	1
2,2'-oxybis[1-chloropropane]	<0.045		0.19	0.045	mg/Kg	☼	10/24/18 07:29	10/27/18 14:19	1
Pentachlorophenol	<0.62		0.78	0.62	mg/Kg	☼	10/24/18 07:29	10/27/18 14:19	1
Phenanthrene	0.091		0.038	0.0054	mg/Kg	☼	10/24/18 07:29	10/27/18 14:19	1
Phenol	<0.086		0.19	0.086	mg/Kg	☼	10/24/18 07:29	10/27/18 14:19	1
Pyrene	0.17		0.038	0.0077	mg/Kg	☼	10/24/18 07:29	10/27/18 14:19	1
1,2,4-Trichlorobenzene	<0.042		0.19	0.042	mg/Kg	☼	10/24/18 07:29	10/27/18 14:19	1
2,4,5-Trichlorophenol	<0.088 *		0.38	0.088	mg/Kg	☼	10/24/18 07:29	10/27/18 14:19	1
2,4,6-Trichlorophenol	<0.13		0.38	0.13	mg/Kg	☼	10/24/18 07:29	10/27/18 14:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	111		43 - 145				10/24/18 07:29	10/27/18 14:19	1
2-Fluorophenol	137		31 - 166				10/24/18 07:29	10/27/18 14:19	1
Nitrobenzene-d5	112		37 - 147				10/24/18 07:29	10/27/18 14:19	1
Phenol-d5	129		30 - 153				10/24/18 07:29	10/27/18 14:19	1
Terphenyl-d14	114		42 - 157				10/24/18 07:29	10/27/18 14:19	1
2,4,6-Tribromophenol	116		31 - 143				10/24/18 07:29	10/27/18 14:19	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.36	J B	1.1	0.21	mg/Kg	☼	10/24/18 08:16	10/24/18 20:39	1
Arsenic	6.4		0.55	0.19	mg/Kg	☼	10/24/18 08:16	10/24/18 20:39	1
Barium	120		0.55	0.062	mg/Kg	☼	10/24/18 08:16	10/24/18 20:39	1
Beryllium	0.65		0.22	0.051	mg/Kg	☼	10/24/18 08:16	10/24/18 20:39	1
Cadmium	0.22	B	0.11	0.020	mg/Kg	☼	10/24/18 08:16	10/24/18 20:39	1
Chromium	16		0.55	0.27	mg/Kg	☼	10/24/18 08:16	10/24/18 20:39	1
Cobalt	11		0.27	0.072	mg/Kg	☼	10/24/18 08:16	10/24/18 20:39	1
Copper	14	B	0.55	0.15	mg/Kg	☼	10/24/18 08:16	10/24/18 20:39	1
Iron	16000		11	5.7	mg/Kg	☼	10/24/18 08:16	10/24/18 20:39	1
Lead	45	B	0.27	0.13	mg/Kg	☼	10/24/18 08:16	10/24/18 20:39	1
Magnesium	4700		5.5	2.7	mg/Kg	☼	10/24/18 08:16	10/24/18 20:39	1
Calcium	6300	B	11	1.9	mg/Kg	☼	10/24/18 08:16	10/24/18 20:39	1
Manganese	670		0.55	0.079	mg/Kg	☼	10/24/18 08:16	10/24/18 20:39	1
Nickel	18		0.55	0.16	mg/Kg	☼	10/24/18 08:16	10/24/18 20:39	1
Selenium	0.64		0.55	0.32	mg/Kg	☼	10/24/18 08:16	10/24/18 20:39	1
Silver	0.29		0.27	0.070	mg/Kg	☼	10/24/18 08:16	10/24/18 20:39	1
Thallium	<0.27		0.55	0.27	mg/Kg	☼	10/24/18 08:16	10/24/18 20:39	1
Vanadium	28		0.27	0.064	mg/Kg	☼	10/24/18 08:16	10/24/18 20:39	1
Zinc	75		1.1	0.48	mg/Kg	☼	10/24/18 08:16	10/24/18 20:39	1
Potassium	1600		27	9.7	mg/Kg	☼	10/24/18 08:16	10/24/18 20:39	1
Sodium	460		55	8.1	mg/Kg	☼	10/24/18 08:16	10/24/18 20:39	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		10/25/18 09:50	10/26/18 00:01	1
Barium	0.59		0.50	0.050	mg/L		10/25/18 09:50	10/26/18 00:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/25/18 09:50	10/26/18 00:01	1
Cadmium	0.0024	J	0.0050	0.0020	mg/L		10/25/18 09:50	10/26/18 00:01	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B15 (0-5) Dup

Lab Sample ID: 500-153334-13

Date Collected: 10/17/18 09:25

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	180		5.0	0.50	mg/L		10/25/18 09:50	10/26/18 00:01	1
Chromium	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/26/18 15:20	1
Cobalt	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/26/18 00:01	1
Copper	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/26/18 00:01	1
Iron	<0.20		0.40	0.20	mg/L		10/25/18 09:50	10/26/18 00:01	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/25/18 09:50	10/26/18 00:01	1
Magnesium	84		2.5	0.50	mg/L		10/25/18 09:50	10/26/18 00:01	1
Manganese	0.31		0.025	0.010	mg/L		10/25/18 09:50	10/26/18 00:01	1
Nickel	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/26/18 00:01	1
Potassium	3.1		2.5	0.50	mg/L		10/25/18 09:50	10/26/18 00:01	1
Selenium	<0.020		0.050	0.020	mg/L		10/25/18 09:50	10/26/18 00:01	1
Silver	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/26/18 00:01	1
Vanadium	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/26/18 00:01	1
Zinc	0.054	J	0.50	0.020	mg/L		10/25/18 09:50	10/26/18 00:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.78		0.025	0.010	mg/L		10/25/18 15:13	10/26/18 17:27	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		10/25/18 09:50	10/25/18 19:34	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/25/18 09:50	10/25/18 19:34	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		10/25/18 12:40	10/26/18 08:52	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.036		0.019	0.0062	mg/Kg	☼	10/23/18 15:50	10/24/18 10:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.20	J	0.48	0.16	mg/Kg	☼	10/25/18 17:45	10/26/18 11:40	1
pH	7.8		0.2	0.2	SU			10/24/18 16:39	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B14 (0-5)

Lab Sample ID: 500-153334-14

Date Collected: 10/17/18 09:45

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 83.9

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	☼	10/18/18 07:15	10/28/18 06:10	1
Benzene	<0.00049		0.0019	0.00049	mg/Kg	☼	10/18/18 07:15	10/28/18 06:10	1
Bromodichloromethane	<0.00039		0.0019	0.00039	mg/Kg	☼	10/18/18 07:15	10/28/18 06:10	1
Bromoform	<0.00056		0.0019	0.00056	mg/Kg	☼	10/18/18 07:15	10/28/18 06:10	1
Bromomethane	<0.0018		0.0048	0.0018	mg/Kg	☼	10/18/18 07:15	10/28/18 06:10	1
2-Butanone (MEK)	<0.0021		0.0048	0.0021	mg/Kg	☼	10/18/18 07:15	10/28/18 06:10	1
Carbon disulfide	<0.0010		0.0048	0.0010	mg/Kg	☼	10/18/18 07:15	10/28/18 06:10	1
Carbon tetrachloride	<0.00056		0.0019	0.00056	mg/Kg	☼	10/18/18 07:15	10/28/18 06:10	1
Chlorobenzene	<0.00071		0.0019	0.00071	mg/Kg	☼	10/18/18 07:15	10/28/18 06:10	1
Chloroethane	<0.0014	*	0.0048	0.0014	mg/Kg	☼	10/18/18 07:15	10/28/18 06:10	1
Chloroform	<0.00067		0.0019	0.00067	mg/Kg	☼	10/18/18 07:15	10/28/18 06:10	1
Chloromethane	<0.0019		0.0048	0.0019	mg/Kg	☼	10/18/18 07:15	10/28/18 06:10	1
cis-1,2-Dichloroethene	<0.00054		0.0019	0.00054	mg/Kg	☼	10/18/18 07:15	10/28/18 06:10	1
cis-1,3-Dichloropropene	<0.00058		0.0019	0.00058	mg/Kg	☼	10/18/18 07:15	10/28/18 06:10	1
Dibromochloromethane	<0.00063		0.0019	0.00063	mg/Kg	☼	10/18/18 07:15	10/28/18 06:10	1
1,1-Dichloroethane	<0.00066		0.0019	0.00066	mg/Kg	☼	10/18/18 07:15	10/28/18 06:10	1
1,2-Dichloroethane	<0.0015		0.0048	0.0015	mg/Kg	☼	10/18/18 07:15	10/28/18 06:10	1
1,1-Dichloroethene	<0.00066		0.0019	0.00066	mg/Kg	☼	10/18/18 07:15	10/28/18 06:10	1
1,2-Dichloropropane	<0.00050		0.0019	0.00050	mg/Kg	☼	10/18/18 07:15	10/28/18 06:10	1
1,3-Dichloropropene, Total	<0.00068		0.0019	0.00068	mg/Kg	☼	10/18/18 07:15	10/28/18 06:10	1
Ethylbenzene	<0.00092		0.0019	0.00092	mg/Kg	☼	10/18/18 07:15	10/28/18 06:10	1
2-Hexanone	<0.0015		0.0048	0.0015	mg/Kg	☼	10/18/18 07:15	10/28/18 06:10	1
Methylene Chloride	<0.0019		0.0048	0.0019	mg/Kg	☼	10/18/18 07:15	10/28/18 06:10	1
4-Methyl-2-pentanone (MIBK)	<0.0014		0.0048	0.0014	mg/Kg	☼	10/18/18 07:15	10/28/18 06:10	1
Methyl tert-butyl ether	<0.00057		0.0019	0.00057	mg/Kg	☼	10/18/18 07:15	10/28/18 06:10	1
Styrene	<0.00058		0.0019	0.00058	mg/Kg	☼	10/18/18 07:15	10/28/18 06:10	1
1,1,2,2-Tetrachloroethane	<0.00062		0.0019	0.00062	mg/Kg	☼	10/18/18 07:15	10/28/18 06:10	1
Tetrachloroethene	<0.00066		0.0019	0.00066	mg/Kg	☼	10/18/18 07:15	10/28/18 06:10	1
Toluene	<0.00049		0.0019	0.00049	mg/Kg	☼	10/18/18 07:15	10/28/18 06:10	1
trans-1,2-Dichloroethene	<0.00086		0.0019	0.00086	mg/Kg	☼	10/18/18 07:15	10/28/18 06:10	1
trans-1,3-Dichloropropene	<0.00068		0.0019	0.00068	mg/Kg	☼	10/18/18 07:15	10/28/18 06:10	1
1,1,1-Trichloroethane	<0.00065		0.0019	0.00065	mg/Kg	☼	10/18/18 07:15	10/28/18 06:10	1
1,1,2-Trichloroethane	<0.00083		0.0019	0.00083	mg/Kg	☼	10/18/18 07:15	10/28/18 06:10	1
Trichloroethene	<0.00065		0.0019	0.00065	mg/Kg	☼	10/18/18 07:15	10/28/18 06:10	1
Vinyl acetate	<0.0017		0.0048	0.0017	mg/Kg	☼	10/18/18 07:15	10/28/18 06:10	1
Vinyl chloride	<0.00086		0.0019	0.00086	mg/Kg	☼	10/18/18 07:15	10/28/18 06:10	1
Xylenes, Total	<0.00062		0.0039	0.00062	mg/Kg	☼	10/18/18 07:15	10/28/18 06:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		75 - 131	10/18/18 07:15	10/28/18 06:10	1
Dibromofluoromethane	101		75 - 126	10/18/18 07:15	10/28/18 06:10	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 134	10/18/18 07:15	10/28/18 06:10	1
Toluene-d8 (Surr)	98		75 - 124	10/18/18 07:15	10/28/18 06:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0070		0.039	0.0070	mg/Kg	☼	10/24/18 07:29	10/27/18 14:47	1
Acenaphthylene	<0.0052		0.039	0.0052	mg/Kg	☼	10/24/18 07:29	10/27/18 14:47	1
Anthracene	0.010	J *	0.039	0.0065	mg/Kg	☼	10/24/18 07:29	10/27/18 14:47	1
Benzo[a]anthracene	0.065		0.039	0.0053	mg/Kg	☼	10/24/18 07:29	10/27/18 14:47	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B14 (0-5)

Lab Sample ID: 500-153334-14

Date Collected: 10/17/18 09:45

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.089		0.039	0.0076	mg/Kg	☼	10/24/18 07:29	10/27/18 14:47	1
Benzo[b]fluoranthene	0.15		0.039	0.0085	mg/Kg	☼	10/24/18 07:29	10/27/18 14:47	1
Benzo[g,h,i]perylene	0.044		0.039	0.013	mg/Kg	☼	10/24/18 07:29	10/27/18 14:47	1
Benzo[k]fluoranthene	0.056		0.039	0.012	mg/Kg	☼	10/24/18 07:29	10/27/18 14:47	1
Bis(2-chloroethoxy)methane	<0.040		0.20	0.040	mg/Kg	☼	10/24/18 07:29	10/27/18 14:47	1
Bis(2-chloroethyl)ether	<0.059		0.20	0.059	mg/Kg	☼	10/24/18 07:29	10/27/18 14:47	1
Bis(2-ethylhexyl) phthalate	0.098	J	0.20	0.072	mg/Kg	☼	10/24/18 07:29	10/27/18 14:47	1
4-Bromophenyl phenyl ether	<0.052		0.20	0.052	mg/Kg	☼	10/24/18 07:29	10/27/18 14:47	1
Butyl benzyl phthalate	<0.074		0.20	0.074	mg/Kg	☼	10/24/18 07:29	10/27/18 14:47	1
Carbazole	<0.098		0.20	0.098	mg/Kg	☼	10/24/18 07:29	10/27/18 14:47	1
4-Chloroaniline	<0.18		0.79	0.18	mg/Kg	☼	10/24/18 07:29	10/27/18 14:47	1
4-Chloro-3-methylphenol	<0.13		0.39	0.13	mg/Kg	☼	10/24/18 07:29	10/27/18 14:47	1
2-Chloronaphthalene	<0.043		0.20	0.043	mg/Kg	☼	10/24/18 07:29	10/27/18 14:47	1
2-Chlorophenol	<0.067		0.20	0.067	mg/Kg	☼	10/24/18 07:29	10/27/18 14:47	1
4-Chlorophenyl phenyl ether	<0.046		0.20	0.046	mg/Kg	☼	10/24/18 07:29	10/27/18 14:47	1
Chrysene	0.097		0.039	0.011	mg/Kg	☼	10/24/18 07:29	10/27/18 14:47	1
Dibenz(a,h)anthracene	<0.0076		0.039	0.0076	mg/Kg	☼	10/24/18 07:29	10/27/18 14:47	1
Dibenzofuran	<0.046		0.20	0.046	mg/Kg	☼	10/24/18 07:29	10/27/18 14:47	1
1,2-Dichlorobenzene	<0.047		0.20	0.047	mg/Kg	☼	10/24/18 07:29	10/27/18 14:47	1
1,3-Dichlorobenzene	<0.044		0.20	0.044	mg/Kg	☼	10/24/18 07:29	10/27/18 14:47	1
1,4-Dichlorobenzene	<0.050		0.20	0.050	mg/Kg	☼	10/24/18 07:29	10/27/18 14:47	1
3,3'-Dichlorobenzidine	<0.055		0.20	0.055	mg/Kg	☼	10/24/18 07:29	10/27/18 14:47	1
2,4-Dichlorophenol	<0.093		0.39	0.093	mg/Kg	☼	10/24/18 07:29	10/27/18 14:47	1
Diethyl phthalate	<0.066		0.20	0.066	mg/Kg	☼	10/24/18 07:29	10/27/18 14:47	1
2,4-Dimethylphenol	<0.15		0.39	0.15	mg/Kg	☼	10/24/18 07:29	10/27/18 14:47	1
Dimethyl phthalate	<0.051		0.20	0.051	mg/Kg	☼	10/24/18 07:29	10/27/18 14:47	1
Di-n-butyl phthalate	<0.060		0.20	0.060	mg/Kg	☼	10/24/18 07:29	10/27/18 14:47	1
4,6-Dinitro-2-methylphenol	<0.31		0.79	0.31	mg/Kg	☼	10/24/18 07:29	10/27/18 14:47	1
2,4-Dinitrophenol	<0.69		0.79	0.69	mg/Kg	☼	10/24/18 07:29	10/27/18 14:47	1
2,4-Dinitrotoluene	<0.062		0.20	0.062	mg/Kg	☼	10/24/18 07:29	10/27/18 14:47	1
2,6-Dinitrotoluene	<0.077		0.20	0.077	mg/Kg	☼	10/24/18 07:29	10/27/18 14:47	1
Di-n-octyl phthalate	<0.064		0.20	0.064	mg/Kg	☼	10/24/18 07:29	10/27/18 14:47	1
Fluoranthene	0.16	*	0.039	0.0073	mg/Kg	☼	10/24/18 07:29	10/27/18 14:47	1
Fluorene	<0.0055		0.039	0.0055	mg/Kg	☼	10/24/18 07:29	10/27/18 14:47	1
Hexachlorobenzene	<0.0091		0.079	0.0091	mg/Kg	☼	10/24/18 07:29	10/27/18 14:47	1
Hexachlorobutadiene	<0.062		0.20	0.062	mg/Kg	☼	10/24/18 07:29	10/27/18 14:47	1
Hexachlorocyclopentadiene	<0.23		0.79	0.23	mg/Kg	☼	10/24/18 07:29	10/27/18 14:47	1
Hexachloroethane	<0.060		0.20	0.060	mg/Kg	☼	10/24/18 07:29	10/27/18 14:47	1
Indeno[1,2,3-cd]pyrene	0.039		0.039	0.010	mg/Kg	☼	10/24/18 07:29	10/27/18 14:47	1
Isophorone	<0.044		0.20	0.044	mg/Kg	☼	10/24/18 07:29	10/27/18 14:47	1
2-Methylnaphthalene	<0.0072		0.079	0.0072	mg/Kg	☼	10/24/18 07:29	10/27/18 14:47	1
2-Methylphenol	<0.063		0.20	0.063	mg/Kg	☼	10/24/18 07:29	10/27/18 14:47	1
3 & 4 Methylphenol	<0.065		0.20	0.065	mg/Kg	☼	10/24/18 07:29	10/27/18 14:47	1
Naphthalene	<0.0060		0.039	0.0060	mg/Kg	☼	10/24/18 07:29	10/27/18 14:47	1
2-Nitroaniline	<0.053		0.20	0.053	mg/Kg	☼	10/24/18 07:29	10/27/18 14:47	1
3-Nitroaniline	<0.12		0.39	0.12	mg/Kg	☼	10/24/18 07:29	10/27/18 14:47	1
4-Nitroaniline	<0.16		0.39	0.16	mg/Kg	☼	10/24/18 07:29	10/27/18 14:47	1
Nitrobenzene	<0.0098		0.039	0.0098	mg/Kg	☼	10/24/18 07:29	10/27/18 14:47	1
2-Nitrophenol	<0.093		0.39	0.093	mg/Kg	☼	10/24/18 07:29	10/27/18 14:47	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B14 (0-5)

Lab Sample ID: 500-153334-14

Date Collected: 10/17/18 09:45

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.37		0.79	0.37	mg/Kg	☼	10/24/18 07:29	10/27/18 14:47	1
N-Nitrosodi-n-propylamine	<0.048		0.079	0.048	mg/Kg	☼	10/24/18 07:29	10/27/18 14:47	1
N-Nitrosodiphenylamine	<0.046		0.20	0.046	mg/Kg	☼	10/24/18 07:29	10/27/18 14:47	1
2,2'-oxybis[1-chloropropane]	<0.045		0.20	0.045	mg/Kg	☼	10/24/18 07:29	10/27/18 14:47	1
Pentachlorophenol	<0.63		0.79	0.63	mg/Kg	☼	10/24/18 07:29	10/27/18 14:47	1
Phenanthrene	0.067		0.039	0.0055	mg/Kg	☼	10/24/18 07:29	10/27/18 14:47	1
Phenol	<0.087		0.20	0.087	mg/Kg	☼	10/24/18 07:29	10/27/18 14:47	1
Pyrene	0.15		0.039	0.0078	mg/Kg	☼	10/24/18 07:29	10/27/18 14:47	1
1,2,4-Trichlorobenzene	<0.042		0.20	0.042	mg/Kg	☼	10/24/18 07:29	10/27/18 14:47	1
2,4,5-Trichlorophenol	<0.089 *		0.39	0.089	mg/Kg	☼	10/24/18 07:29	10/27/18 14:47	1
2,4,6-Trichlorophenol	<0.13		0.39	0.13	mg/Kg	☼	10/24/18 07:29	10/27/18 14:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	108		43 - 145	10/24/18 07:29	10/27/18 14:47	1
2-Fluorophenol	153		31 - 166	10/24/18 07:29	10/27/18 14:47	1
Nitrobenzene-d5	121		37 - 147	10/24/18 07:29	10/27/18 14:47	1
Phenol-d5	149		30 - 153	10/24/18 07:29	10/27/18 14:47	1
Terphenyl-d14	144		42 - 157	10/24/18 07:29	10/27/18 14:47	1
2,4,6-Tribromophenol	119		31 - 143	10/24/18 07:29	10/27/18 14:47	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		5.5	1.1	mg/Kg	☼	10/24/18 08:16	10/25/18 12:52	5
Arsenic	13		2.8	0.95	mg/Kg	☼	10/24/18 08:16	10/25/18 12:52	5
Barium	130		2.8	0.32	mg/Kg	☼	10/24/18 08:16	10/25/18 12:52	5
Beryllium	1.2		1.1	0.26	mg/Kg	☼	10/24/18 08:16	10/25/18 12:52	5
Cadmium	0.18	J B	0.55	0.10	mg/Kg	☼	10/24/18 08:16	10/25/18 12:52	5
Chromium	27		2.8	1.4	mg/Kg	☼	10/24/18 08:16	10/25/18 12:52	5
Cobalt	11		0.28	0.073	mg/Kg	☼	10/24/18 08:16	10/24/18 20:43	1
Copper	25	B	2.8	0.78	mg/Kg	☼	10/24/18 08:16	10/25/18 12:52	5
Iron	30000		55	29	mg/Kg	☼	10/24/18 08:16	10/25/18 12:52	5
Lead	46	B	0.28	0.13	mg/Kg	☼	10/24/18 08:16	10/24/18 20:43	1
Magnesium	15000		28	14	mg/Kg	☼	10/24/18 08:16	10/25/18 12:52	5
Calcium	22000	B	55	9.4	mg/Kg	☼	10/24/18 08:16	10/25/18 12:52	5
Manganese	830		2.8	0.40	mg/Kg	☼	10/24/18 08:16	10/25/18 12:52	5
Nickel	32		0.55	0.16	mg/Kg	☼	10/24/18 08:16	10/24/18 20:43	1
Selenium	<1.6		2.8	1.6	mg/Kg	☼	10/24/18 08:16	10/25/18 12:52	5
Silver	<0.36		1.4	0.36	mg/Kg	☼	10/24/18 08:16	10/25/18 12:52	5
Thallium	<0.28		0.55	0.28	mg/Kg	☼	10/24/18 08:16	10/24/18 20:43	1
Vanadium	49		1.4	0.33	mg/Kg	☼	10/24/18 08:16	10/25/18 12:52	5
Zinc	95		1.1	0.49	mg/Kg	☼	10/24/18 08:16	10/24/18 20:43	1
Potassium	2200		140	49	mg/Kg	☼	10/24/18 08:16	10/25/18 12:52	5
Sodium	1200		280	41	mg/Kg	☼	10/24/18 08:16	10/25/18 12:52	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		10/25/18 09:50	10/26/18 00:05	1
Barium	0.56		0.50	0.050	mg/L		10/25/18 09:50	10/26/18 00:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/25/18 09:50	10/26/18 00:05	1
Cadmium	0.0021	J	0.0050	0.0020	mg/L		10/25/18 09:50	10/26/18 00:05	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B14 (0-5)

Lab Sample ID: 500-153334-14

Date Collected: 10/17/18 09:45

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 83.9

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		10/25/18 09:50	10/26/18 00:05	1
Chromium	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/26/18 15:24	1
Cobalt	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/26/18 00:05	1
Copper	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/26/18 00:05	1
Iron	<0.20		0.40	0.20	mg/L		10/25/18 09:50	10/26/18 00:05	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/25/18 09:50	10/26/18 00:05	1
Magnesium	130		2.5	0.50	mg/L		10/25/18 09:50	10/26/18 00:05	1
Manganese	0.30		0.025	0.010	mg/L		10/25/18 09:50	10/26/18 00:05	1
Nickel	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/26/18 00:05	1
Potassium	1.0 J		2.5	0.50	mg/L		10/25/18 09:50	10/26/18 00:05	1
Selenium	<0.020		0.050	0.020	mg/L		10/25/18 09:50	10/26/18 00:05	1
Silver	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/26/18 00:05	1
Vanadium	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/26/18 00:05	1
Zinc	0.53		0.50	0.020	mg/L		10/25/18 09:50	10/26/18 00:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.97		0.025	0.010	mg/L		10/25/18 15:13	10/26/18 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		10/25/18 09:50	10/25/18 19:35	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/25/18 09:50	10/25/18 19:35	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		10/25/18 12:40	10/26/18 08:59	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.089		0.019	0.0065	mg/Kg	☼	10/23/18 15:50	10/24/18 10:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.19		0.55	0.19	mg/Kg	☼	10/25/18 17:45	10/26/18 11:40	1
pH	7.8		0.2	0.2	SU			10/24/18 16:39	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B13 (0-5)

Lab Sample ID: 500-153334-15

Date Collected: 10/17/18 10:00

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 81.3

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	☼	10/18/18 07:15	10/28/18 06:36	1
Benzene	<0.00049		0.0019	0.00049	mg/Kg	☼	10/18/18 07:15	10/28/18 06:36	1
Bromodichloromethane	<0.00039		0.0019	0.00039	mg/Kg	☼	10/18/18 07:15	10/28/18 06:36	1
Bromoform	<0.00056		0.0019	0.00056	mg/Kg	☼	10/18/18 07:15	10/28/18 06:36	1
Bromomethane	<0.0018		0.0048	0.0018	mg/Kg	☼	10/18/18 07:15	10/28/18 06:36	1
2-Butanone (MEK)	<0.0021		0.0048	0.0021	mg/Kg	☼	10/18/18 07:15	10/28/18 06:36	1
Carbon disulfide	<0.00099		0.0048	0.00099	mg/Kg	☼	10/18/18 07:15	10/28/18 06:36	1
Carbon tetrachloride	<0.00055		0.0019	0.00055	mg/Kg	☼	10/18/18 07:15	10/28/18 06:36	1
Chlorobenzene	<0.00071		0.0019	0.00071	mg/Kg	☼	10/18/18 07:15	10/28/18 06:36	1
Chloroethane	<0.0014	*	0.0048	0.0014	mg/Kg	☼	10/18/18 07:15	10/28/18 06:36	1
Chloroform	<0.00066		0.0019	0.00066	mg/Kg	☼	10/18/18 07:15	10/28/18 06:36	1
Chloromethane	<0.0019		0.0048	0.0019	mg/Kg	☼	10/18/18 07:15	10/28/18 06:36	1
cis-1,2-Dichloroethene	<0.00053		0.0019	0.00053	mg/Kg	☼	10/18/18 07:15	10/28/18 06:36	1
cis-1,3-Dichloropropene	<0.00058		0.0019	0.00058	mg/Kg	☼	10/18/18 07:15	10/28/18 06:36	1
Dibromochloromethane	<0.00063		0.0019	0.00063	mg/Kg	☼	10/18/18 07:15	10/28/18 06:36	1
1,1-Dichloroethane	<0.00065		0.0019	0.00065	mg/Kg	☼	10/18/18 07:15	10/28/18 06:36	1
1,2-Dichloroethane	<0.0015		0.0048	0.0015	mg/Kg	☼	10/18/18 07:15	10/28/18 06:36	1
1,1-Dichloroethene	<0.00066		0.0019	0.00066	mg/Kg	☼	10/18/18 07:15	10/28/18 06:36	1
1,2-Dichloropropane	<0.00049		0.0019	0.00049	mg/Kg	☼	10/18/18 07:15	10/28/18 06:36	1
1,3-Dichloropropene, Total	<0.00067		0.0019	0.00067	mg/Kg	☼	10/18/18 07:15	10/28/18 06:36	1
Ethylbenzene	<0.00091		0.0019	0.00091	mg/Kg	☼	10/18/18 07:15	10/28/18 06:36	1
2-Hexanone	<0.0015		0.0048	0.0015	mg/Kg	☼	10/18/18 07:15	10/28/18 06:36	1
Methylene Chloride	<0.0019		0.0048	0.0019	mg/Kg	☼	10/18/18 07:15	10/28/18 06:36	1
4-Methyl-2-pentanone (MIBK)	<0.0014		0.0048	0.0014	mg/Kg	☼	10/18/18 07:15	10/28/18 06:36	1
Methyl tert-butyl ether	<0.00056		0.0019	0.00056	mg/Kg	☼	10/18/18 07:15	10/28/18 06:36	1
Styrene	<0.00058		0.0019	0.00058	mg/Kg	☼	10/18/18 07:15	10/28/18 06:36	1
1,1,2,2-Tetrachloroethane	<0.00061		0.0019	0.00061	mg/Kg	☼	10/18/18 07:15	10/28/18 06:36	1
Tetrachloroethene	<0.00065		0.0019	0.00065	mg/Kg	☼	10/18/18 07:15	10/28/18 06:36	1
Toluene	<0.00048		0.0019	0.00048	mg/Kg	☼	10/18/18 07:15	10/28/18 06:36	1
trans-1,2-Dichloroethene	<0.00085		0.0019	0.00085	mg/Kg	☼	10/18/18 07:15	10/28/18 06:36	1
trans-1,3-Dichloropropene	<0.00067		0.0019	0.00067	mg/Kg	☼	10/18/18 07:15	10/28/18 06:36	1
1,1,1-Trichloroethane	<0.00064		0.0019	0.00064	mg/Kg	☼	10/18/18 07:15	10/28/18 06:36	1
1,1,2-Trichloroethane	<0.00082		0.0019	0.00082	mg/Kg	☼	10/18/18 07:15	10/28/18 06:36	1
Trichloroethene	<0.00065		0.0019	0.00065	mg/Kg	☼	10/18/18 07:15	10/28/18 06:36	1
Vinyl acetate	<0.0017		0.0048	0.0017	mg/Kg	☼	10/18/18 07:15	10/28/18 06:36	1
Vinyl chloride	<0.00085		0.0019	0.00085	mg/Kg	☼	10/18/18 07:15	10/28/18 06:36	1
Xylenes, Total	<0.00061		0.0038	0.00061	mg/Kg	☼	10/18/18 07:15	10/28/18 06:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		75 - 131	10/18/18 07:15	10/28/18 06:36	1
Dibromofluoromethane	103		75 - 126	10/18/18 07:15	10/28/18 06:36	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 134	10/18/18 07:15	10/28/18 06:36	1
Toluene-d8 (Surr)	96		75 - 124	10/18/18 07:15	10/28/18 06:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.023	J	0.040	0.0072	mg/Kg	☼	10/24/18 07:29	10/27/18 18:37	1
Acenaphthylene	0.018	J	0.040	0.0053	mg/Kg	☼	10/24/18 07:29	10/27/18 18:37	1
Anthracene	0.074	*	0.040	0.0067	mg/Kg	☼	10/24/18 07:29	10/27/18 18:37	1
Benzo[a]anthracene	0.38		0.040	0.0054	mg/Kg	☼	10/24/18 07:29	10/27/18 18:37	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B13 (0-5)

Lab Sample ID: 500-153334-15

Date Collected: 10/17/18 10:00

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 81.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.52		0.040	0.0078	mg/Kg	☼	10/24/18 07:29	10/27/18 18:37	1
Benzo[b]fluoranthene	1.2		0.040	0.0086	mg/Kg	☼	10/24/18 07:29	10/27/18 18:37	1
Benzo[g,h,i]perylene	0.24		0.040	0.013	mg/Kg	☼	10/24/18 07:29	10/27/18 18:37	1
Benzo[k]fluoranthene	0.32		0.040	0.012	mg/Kg	☼	10/24/18 07:29	10/27/18 18:37	1
Bis(2-chloroethoxy)methane	<0.041		0.20	0.041	mg/Kg	☼	10/24/18 07:29	10/27/18 18:37	1
Bis(2-chloroethyl)ether	<0.060		0.20	0.060	mg/Kg	☼	10/24/18 07:29	10/27/18 18:37	1
Bis(2-ethylhexyl) phthalate	0.11	J	0.20	0.073	mg/Kg	☼	10/24/18 07:29	10/27/18 18:37	1
4-Bromophenyl phenyl ether	<0.053		0.20	0.053	mg/Kg	☼	10/24/18 07:29	10/27/18 18:37	1
Butyl benzyl phthalate	0.084	J	0.20	0.076	mg/Kg	☼	10/24/18 07:29	10/27/18 18:37	1
Carbazole	<0.10		0.20	0.10	mg/Kg	☼	10/24/18 07:29	10/27/18 18:37	1
4-Chloroaniline	<0.19		0.81	0.19	mg/Kg	☼	10/24/18 07:29	10/27/18 18:37	1
4-Chloro-3-methylphenol	<0.14		0.40	0.14	mg/Kg	☼	10/24/18 07:29	10/27/18 18:37	1
2-Chloronaphthalene	<0.044		0.20	0.044	mg/Kg	☼	10/24/18 07:29	10/27/18 18:37	1
2-Chlorophenol	<0.068		0.20	0.068	mg/Kg	☼	10/24/18 07:29	10/27/18 18:37	1
4-Chlorophenyl phenyl ether	<0.047		0.20	0.047	mg/Kg	☼	10/24/18 07:29	10/27/18 18:37	1
Chrysene	0.52		0.040	0.011	mg/Kg	☼	10/24/18 07:29	10/27/18 18:37	1
Dibenz(a,h)anthracene	0.050		0.040	0.0077	mg/Kg	☼	10/24/18 07:29	10/27/18 18:37	1
Dibenzofuran	<0.047		0.20	0.047	mg/Kg	☼	10/24/18 07:29	10/27/18 18:37	1
1,2-Dichlorobenzene	<0.048		0.20	0.048	mg/Kg	☼	10/24/18 07:29	10/27/18 18:37	1
1,3-Dichlorobenzene	<0.045		0.20	0.045	mg/Kg	☼	10/24/18 07:29	10/27/18 18:37	1
1,4-Dichlorobenzene	<0.051		0.20	0.051	mg/Kg	☼	10/24/18 07:29	10/27/18 18:37	1
3,3'-Dichlorobenzidine	<0.056		0.20	0.056	mg/Kg	☼	10/24/18 07:29	10/27/18 18:37	1
2,4-Dichlorophenol	<0.095		0.40	0.095	mg/Kg	☼	10/24/18 07:29	10/27/18 18:37	1
Diethyl phthalate	<0.068		0.20	0.068	mg/Kg	☼	10/24/18 07:29	10/27/18 18:37	1
2,4-Dimethylphenol	<0.15		0.40	0.15	mg/Kg	☼	10/24/18 07:29	10/27/18 18:37	1
Dimethyl phthalate	<0.052		0.20	0.052	mg/Kg	☼	10/24/18 07:29	10/27/18 18:37	1
Di-n-butyl phthalate	<0.061		0.20	0.061	mg/Kg	☼	10/24/18 07:29	10/27/18 18:37	1
4,6-Dinitro-2-methylphenol	<0.32		0.81	0.32	mg/Kg	☼	10/24/18 07:29	10/27/18 18:37	1
2,4-Dinitrophenol	<0.71		0.81	0.71	mg/Kg	☼	10/24/18 07:29	10/27/18 18:37	1
2,4-Dinitrotoluene	<0.064		0.20	0.064	mg/Kg	☼	10/24/18 07:29	10/27/18 18:37	1
2,6-Dinitrotoluene	<0.079		0.20	0.079	mg/Kg	☼	10/24/18 07:29	10/27/18 18:37	1
Di-n-octyl phthalate	<0.065		0.20	0.065	mg/Kg	☼	10/24/18 07:29	10/27/18 18:37	1
Fluoranthene	1.2	*	0.040	0.0074	mg/Kg	☼	10/24/18 07:29	10/27/18 18:37	1
Fluorene	0.022	J	0.040	0.0056	mg/Kg	☼	10/24/18 07:29	10/27/18 18:37	1
Hexachlorobenzene	<0.0093		0.081	0.0093	mg/Kg	☼	10/24/18 07:29	10/27/18 18:37	1
Hexachlorobutadiene	<0.063		0.20	0.063	mg/Kg	☼	10/24/18 07:29	10/27/18 18:37	1
Hexachlorocyclopentadiene	<0.23		0.81	0.23	mg/Kg	☼	10/24/18 07:29	10/27/18 18:37	1
Hexachloroethane	<0.061		0.20	0.061	mg/Kg	☼	10/24/18 07:29	10/27/18 18:37	1
Indeno[1,2,3-cd]pyrene	0.19		0.040	0.010	mg/Kg	☼	10/24/18 07:29	10/27/18 18:37	1
Isophorone	<0.045		0.20	0.045	mg/Kg	☼	10/24/18 07:29	10/27/18 18:37	1
2-Methylnaphthalene	0.014	J	0.081	0.0074	mg/Kg	☼	10/24/18 07:29	10/27/18 18:37	1
2-Methylphenol	<0.064		0.20	0.064	mg/Kg	☼	10/24/18 07:29	10/27/18 18:37	1
3 & 4 Methylphenol	<0.067		0.20	0.067	mg/Kg	☼	10/24/18 07:29	10/27/18 18:37	1
Naphthalene	0.012	J	0.040	0.0062	mg/Kg	☼	10/24/18 07:29	10/27/18 18:37	1
2-Nitroaniline	<0.054		0.20	0.054	mg/Kg	☼	10/24/18 07:29	10/27/18 18:37	1
3-Nitroaniline	<0.12		0.40	0.12	mg/Kg	☼	10/24/18 07:29	10/27/18 18:37	1
4-Nitroaniline	<0.17		0.40	0.17	mg/Kg	☼	10/24/18 07:29	10/27/18 18:37	1
Nitrobenzene	<0.010		0.040	0.010	mg/Kg	☼	10/24/18 07:29	10/27/18 18:37	1
2-Nitrophenol	<0.095		0.40	0.095	mg/Kg	☼	10/24/18 07:29	10/27/18 18:37	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B13 (0-5)

Lab Sample ID: 500-153334-15

Date Collected: 10/17/18 10:00

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 81.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.38		0.81	0.38	mg/Kg	☼	10/24/18 07:29	10/27/18 18:37	1
N-Nitrosodi-n-propylamine	<0.049		0.081	0.049	mg/Kg	☼	10/24/18 07:29	10/27/18 18:37	1
N-Nitrosodiphenylamine	<0.047		0.20	0.047	mg/Kg	☼	10/24/18 07:29	10/27/18 18:37	1
2,2'-oxybis[1-chloropropane]	<0.046		0.20	0.046	mg/Kg	☼	10/24/18 07:29	10/27/18 18:37	1
Pentachlorophenol	<0.64		0.81	0.64	mg/Kg	☼	10/24/18 07:29	10/27/18 18:37	1
Phenanthrene	0.46		0.040	0.0056	mg/Kg	☼	10/24/18 07:29	10/27/18 18:37	1
Phenol	<0.089		0.20	0.089	mg/Kg	☼	10/24/18 07:29	10/27/18 18:37	1
Pyrene	1.2		0.040	0.0080	mg/Kg	☼	10/24/18 07:29	10/27/18 18:37	1
1,2,4-Trichlorobenzene	<0.043		0.20	0.043	mg/Kg	☼	10/24/18 07:29	10/27/18 18:37	1
2,4,5-Trichlorophenol	<0.091 *		0.40	0.091	mg/Kg	☼	10/24/18 07:29	10/27/18 18:37	1
2,4,6-Trichlorophenol	<0.14		0.40	0.14	mg/Kg	☼	10/24/18 07:29	10/27/18 18:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	92		43 - 145	10/24/18 07:29	10/27/18 18:37	1
2-Fluorophenol	140		31 - 166	10/24/18 07:29	10/27/18 18:37	1
Nitrobenzene-d5	98		37 - 147	10/24/18 07:29	10/27/18 18:37	1
Phenol-d5	122		30 - 153	10/24/18 07:29	10/27/18 18:37	1
Terphenyl-d14	168 X		42 - 157	10/24/18 07:29	10/27/18 18:37	1
2,4,6-Tribromophenol	107		31 - 143	10/24/18 07:29	10/27/18 18:37	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.50	J B	1.2	0.23	mg/Kg	☼	10/24/18 08:16	10/24/18 20:47	1
Arsenic	6.9		0.60	0.21	mg/Kg	☼	10/24/18 08:16	10/24/18 20:47	1
Barium	110		0.60	0.068	mg/Kg	☼	10/24/18 08:16	10/24/18 20:47	1
Beryllium	0.54		0.24	0.056	mg/Kg	☼	10/24/18 08:16	10/24/18 20:47	1
Cadmium	0.60	B	0.12	0.022	mg/Kg	☼	10/24/18 08:16	10/24/18 20:47	1
Chromium	21		0.60	0.30	mg/Kg	☼	10/24/18 08:16	10/24/18 20:47	1
Cobalt	6.5		0.30	0.079	mg/Kg	☼	10/24/18 08:16	10/24/18 20:47	1
Copper	31	B	0.60	0.17	mg/Kg	☼	10/24/18 08:16	10/24/18 20:47	1
Iron	15000		12	6.2	mg/Kg	☼	10/24/18 08:16	10/24/18 20:47	1
Lead	270	B	0.30	0.14	mg/Kg	☼	10/24/18 08:16	10/24/18 20:47	1
Magnesium	39000		6.0	3.0	mg/Kg	☼	10/24/18 08:16	10/24/18 20:47	1
Calcium	79000	B	60	10	mg/Kg	☼	10/24/18 08:16	10/25/18 12:56	5
Manganese	520		0.60	0.087	mg/Kg	☼	10/24/18 08:16	10/24/18 20:47	1
Nickel	18		0.60	0.17	mg/Kg	☼	10/24/18 08:16	10/24/18 20:47	1
Selenium	0.44	J	0.60	0.35	mg/Kg	☼	10/24/18 08:16	10/24/18 20:47	1
Silver	0.18	J	0.30	0.077	mg/Kg	☼	10/24/18 08:16	10/24/18 20:47	1
Thallium	<0.30		0.60	0.30	mg/Kg	☼	10/24/18 08:16	10/24/18 20:47	1
Vanadium	23		0.30	0.071	mg/Kg	☼	10/24/18 08:16	10/24/18 20:47	1
Zinc	160		1.2	0.53	mg/Kg	☼	10/24/18 08:16	10/24/18 20:47	1
Potassium	1200		30	11	mg/Kg	☼	10/24/18 08:16	10/24/18 20:47	1
Sodium	1100		60	8.9	mg/Kg	☼	10/24/18 08:16	10/24/18 20:47	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		10/25/18 09:50	10/26/18 00:09	1
Barium	0.69		0.50	0.050	mg/L		10/25/18 09:50	10/26/18 00:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/25/18 09:50	10/26/18 00:09	1
Cadmium	0.0043	J	0.0050	0.0020	mg/L		10/25/18 09:50	10/26/18 00:09	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B13 (0-5)

Lab Sample ID: 500-153334-15

Date Collected: 10/17/18 10:00

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 81.3

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		10/25/18 09:50	10/26/18 00:09	1
Chromium	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/26/18 15:28	1
Cobalt	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/26/18 00:09	1
Copper	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/26/18 00:09	1
Iron	<0.20		0.40	0.20	mg/L		10/25/18 09:50	10/26/18 00:09	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/25/18 09:50	10/26/18 00:09	1
Magnesium	150		2.5	0.50	mg/L		10/25/18 09:50	10/26/18 00:09	1
Manganese	0.14		0.025	0.010	mg/L		10/25/18 09:50	10/26/18 00:09	1
Nickel	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/26/18 00:09	1
Potassium	3.0		2.5	0.50	mg/L		10/25/18 09:50	10/26/18 00:09	1
Selenium	<0.020		0.050	0.020	mg/L		10/25/18 09:50	10/26/18 00:09	1
Silver	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/26/18 00:09	1
Vanadium	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/26/18 00:09	1
Zinc	0.11 J		0.50	0.020	mg/L		10/25/18 09:50	10/26/18 00:09	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		10/25/18 09:50	10/25/18 19:36	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/25/18 09:50	10/25/18 19:36	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		10/25/18 12:40	10/26/18 09:01	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.019	0.0063	mg/Kg	☼	10/23/18 15:50	10/24/18 10:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.18		0.53	0.18	mg/Kg	☼	10/25/18 17:45	10/26/18 11:41	1
pH	8.7		0.2	0.2	SU			10/24/18 16:39	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B09 (0-5)

Lab Sample ID: 500-153334-16

Date Collected: 10/17/18 10:20

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 83.1

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	☼	10/18/18 07:15	10/28/18 07:02	1
Benzene	<0.00047		0.0018	0.00047	mg/Kg	☼	10/18/18 07:15	10/28/18 07:02	1
Bromodichloromethane	<0.00037		0.0018	0.00037	mg/Kg	☼	10/18/18 07:15	10/28/18 07:02	1
Bromoform	<0.00053		0.0018	0.00053	mg/Kg	☼	10/18/18 07:15	10/28/18 07:02	1
Bromomethane	<0.0017		0.0046	0.0017	mg/Kg	☼	10/18/18 07:15	10/28/18 07:02	1
2-Butanone (MEK)	<0.0020		0.0046	0.0020	mg/Kg	☼	10/18/18 07:15	10/28/18 07:02	1
Carbon disulfide	<0.00095		0.0046	0.00095	mg/Kg	☼	10/18/18 07:15	10/28/18 07:02	1
Carbon tetrachloride	<0.00053		0.0018	0.00053	mg/Kg	☼	10/18/18 07:15	10/28/18 07:02	1
Chlorobenzene	<0.00067		0.0018	0.00067	mg/Kg	☼	10/18/18 07:15	10/28/18 07:02	1
Chloroethane	<0.0014	*	0.0046	0.0014	mg/Kg	☼	10/18/18 07:15	10/28/18 07:02	1
Chloroform	<0.00063		0.0018	0.00063	mg/Kg	☼	10/18/18 07:15	10/28/18 07:02	1
Chloromethane	<0.0018		0.0046	0.0018	mg/Kg	☼	10/18/18 07:15	10/28/18 07:02	1
cis-1,2-Dichloroethene	<0.00051		0.0018	0.00051	mg/Kg	☼	10/18/18 07:15	10/28/18 07:02	1
cis-1,3-Dichloropropene	<0.00055		0.0018	0.00055	mg/Kg	☼	10/18/18 07:15	10/28/18 07:02	1
Dibromochloromethane	<0.00060		0.0018	0.00060	mg/Kg	☼	10/18/18 07:15	10/28/18 07:02	1
1,1-Dichloroethane	<0.00062		0.0018	0.00062	mg/Kg	☼	10/18/18 07:15	10/28/18 07:02	1
1,2-Dichloroethane	<0.0014		0.0046	0.0014	mg/Kg	☼	10/18/18 07:15	10/28/18 07:02	1
1,1-Dichloroethene	<0.00063		0.0018	0.00063	mg/Kg	☼	10/18/18 07:15	10/28/18 07:02	1
1,2-Dichloropropane	<0.00047		0.0018	0.00047	mg/Kg	☼	10/18/18 07:15	10/28/18 07:02	1
1,3-Dichloropropene, Total	<0.00064		0.0018	0.00064	mg/Kg	☼	10/18/18 07:15	10/28/18 07:02	1
Ethylbenzene	<0.00087		0.0018	0.00087	mg/Kg	☼	10/18/18 07:15	10/28/18 07:02	1
2-Hexanone	<0.0014		0.0046	0.0014	mg/Kg	☼	10/18/18 07:15	10/28/18 07:02	1
Methylene Chloride	<0.0018		0.0046	0.0018	mg/Kg	☼	10/18/18 07:15	10/28/18 07:02	1
4-Methyl-2-pentanone (MIBK)	<0.0014		0.0046	0.0014	mg/Kg	☼	10/18/18 07:15	10/28/18 07:02	1
Methyl tert-butyl ether	<0.00054		0.0018	0.00054	mg/Kg	☼	10/18/18 07:15	10/28/18 07:02	1
Styrene	<0.00055		0.0018	0.00055	mg/Kg	☼	10/18/18 07:15	10/28/18 07:02	1
1,1,2,2-Tetrachloroethane	<0.00058		0.0018	0.00058	mg/Kg	☼	10/18/18 07:15	10/28/18 07:02	1
Tetrachloroethene	<0.00062		0.0018	0.00062	mg/Kg	☼	10/18/18 07:15	10/28/18 07:02	1
Toluene	<0.00046		0.0018	0.00046	mg/Kg	☼	10/18/18 07:15	10/28/18 07:02	1
trans-1,2-Dichloroethene	<0.00081		0.0018	0.00081	mg/Kg	☼	10/18/18 07:15	10/28/18 07:02	1
trans-1,3-Dichloropropene	<0.00064		0.0018	0.00064	mg/Kg	☼	10/18/18 07:15	10/28/18 07:02	1
1,1,1-Trichloroethane	<0.00061		0.0018	0.00061	mg/Kg	☼	10/18/18 07:15	10/28/18 07:02	1
1,1,2-Trichloroethane	<0.00078		0.0018	0.00078	mg/Kg	☼	10/18/18 07:15	10/28/18 07:02	1
Trichloroethene	<0.00062		0.0018	0.00062	mg/Kg	☼	10/18/18 07:15	10/28/18 07:02	1
Vinyl acetate	<0.0016		0.0046	0.0016	mg/Kg	☼	10/18/18 07:15	10/28/18 07:02	1
Vinyl chloride	<0.00081		0.0018	0.00081	mg/Kg	☼	10/18/18 07:15	10/28/18 07:02	1
Xylenes, Total	<0.00058		0.0036	0.00058	mg/Kg	☼	10/18/18 07:15	10/28/18 07:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		75 - 131	10/18/18 07:15	10/28/18 07:02	1
Dibromofluoromethane	102		75 - 126	10/18/18 07:15	10/28/18 07:02	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 134	10/18/18 07:15	10/28/18 07:02	1
Toluene-d8 (Surr)	96		75 - 124	10/18/18 07:15	10/28/18 07:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0071		0.039	0.0071	mg/Kg	☼	10/24/18 07:29	10/27/18 10:58	1
Acenaphthylene	<0.0052		0.039	0.0052	mg/Kg	☼	10/24/18 07:29	10/27/18 10:58	1
Anthracene	<0.0066	*	0.039	0.0066	mg/Kg	☼	10/24/18 07:29	10/27/18 10:58	1
Benzo[a]anthracene	<0.0053		0.039	0.0053	mg/Kg	☼	10/24/18 07:29	10/27/18 10:58	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B09 (0-5)

Lab Sample ID: 500-153334-16

Date Collected: 10/17/18 10:20

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.0077		0.039	0.0077	mg/Kg	☼	10/24/18 07:29	10/27/18 10:58	1
Benzo[b]fluoranthene	<0.0085		0.039	0.0085	mg/Kg	☼	10/24/18 07:29	10/27/18 10:58	1
Benzo[g,h,i]perylene	<0.013		0.039	0.013	mg/Kg	☼	10/24/18 07:29	10/27/18 10:58	1
Benzo[k]fluoranthene	<0.012		0.039	0.012	mg/Kg	☼	10/24/18 07:29	10/27/18 10:58	1
Bis(2-chloroethoxy)methane	<0.040		0.20	0.040	mg/Kg	☼	10/24/18 07:29	10/27/18 10:58	1
Bis(2-chloroethyl)ether	<0.059		0.20	0.059	mg/Kg	☼	10/24/18 07:29	10/27/18 10:58	1
Bis(2-ethylhexyl) phthalate	<0.072		0.20	0.072	mg/Kg	☼	10/24/18 07:29	10/27/18 10:58	1
4-Bromophenyl phenyl ether	<0.052		0.20	0.052	mg/Kg	☼	10/24/18 07:29	10/27/18 10:58	1
Butyl benzyl phthalate	<0.075		0.20	0.075	mg/Kg	☼	10/24/18 07:29	10/27/18 10:58	1
Carbazole	<0.099		0.20	0.099	mg/Kg	☼	10/24/18 07:29	10/27/18 10:58	1
4-Chloroaniline	<0.19		0.80	0.19	mg/Kg	☼	10/24/18 07:29	10/27/18 10:58	1
4-Chloro-3-methylphenol	<0.13		0.39	0.13	mg/Kg	☼	10/24/18 07:29	10/27/18 10:58	1
2-Chloronaphthalene	<0.044		0.20	0.044	mg/Kg	☼	10/24/18 07:29	10/27/18 10:58	1
2-Chlorophenol	<0.068		0.20	0.068	mg/Kg	☼	10/24/18 07:29	10/27/18 10:58	1
4-Chlorophenyl phenyl ether	<0.046		0.20	0.046	mg/Kg	☼	10/24/18 07:29	10/27/18 10:58	1
Chrysene	<0.011		0.039	0.011	mg/Kg	☼	10/24/18 07:29	10/27/18 10:58	1
Dibenz(a,h)anthracene	<0.0076		0.039	0.0076	mg/Kg	☼	10/24/18 07:29	10/27/18 10:58	1
Dibenzofuran	<0.046		0.20	0.046	mg/Kg	☼	10/24/18 07:29	10/27/18 10:58	1
1,2-Dichlorobenzene	<0.047		0.20	0.047	mg/Kg	☼	10/24/18 07:29	10/27/18 10:58	1
1,3-Dichlorobenzene	<0.045		0.20	0.045	mg/Kg	☼	10/24/18 07:29	10/27/18 10:58	1
1,4-Dichlorobenzene	<0.051		0.20	0.051	mg/Kg	☼	10/24/18 07:29	10/27/18 10:58	1
3,3'-Dichlorobenzidine	<0.055		0.20	0.055	mg/Kg	☼	10/24/18 07:29	10/27/18 10:58	1
2,4-Dichlorophenol	<0.094		0.39	0.094	mg/Kg	☼	10/24/18 07:29	10/27/18 10:58	1
Diethyl phthalate	<0.067		0.20	0.067	mg/Kg	☼	10/24/18 07:29	10/27/18 10:58	1
2,4-Dimethylphenol	<0.15		0.39	0.15	mg/Kg	☼	10/24/18 07:29	10/27/18 10:58	1
Dimethyl phthalate	<0.052		0.20	0.052	mg/Kg	☼	10/24/18 07:29	10/27/18 10:58	1
Di-n-butyl phthalate	<0.060		0.20	0.060	mg/Kg	☼	10/24/18 07:29	10/27/18 10:58	1
4,6-Dinitro-2-methylphenol	<0.32		0.80	0.32	mg/Kg	☼	10/24/18 07:29	10/27/18 10:58	1
2,4-Dinitrophenol	<0.70		0.80	0.70	mg/Kg	☼	10/24/18 07:29	10/27/18 10:58	1
2,4-Dinitrotoluene	<0.063		0.20	0.063	mg/Kg	☼	10/24/18 07:29	10/27/18 10:58	1
2,6-Dinitrotoluene	<0.078		0.20	0.078	mg/Kg	☼	10/24/18 07:29	10/27/18 10:58	1
Di-n-octyl phthalate	<0.065		0.20	0.065	mg/Kg	☼	10/24/18 07:29	10/27/18 10:58	1
Fluoranthene	<0.0073 *		0.039	0.0073	mg/Kg	☼	10/24/18 07:29	10/27/18 10:58	1
Fluorene	<0.0056		0.039	0.0056	mg/Kg	☼	10/24/18 07:29	10/27/18 10:58	1
Hexachlorobenzene	<0.0092		0.080	0.0092	mg/Kg	☼	10/24/18 07:29	10/27/18 10:58	1
Hexachlorobutadiene	<0.062		0.20	0.062	mg/Kg	☼	10/24/18 07:29	10/27/18 10:58	1
Hexachlorocyclopentadiene	<0.23		0.80	0.23	mg/Kg	☼	10/24/18 07:29	10/27/18 10:58	1
Hexachloroethane	<0.060		0.20	0.060	mg/Kg	☼	10/24/18 07:29	10/27/18 10:58	1
Indeno[1,2,3-cd]pyrene	<0.010		0.039	0.010	mg/Kg	☼	10/24/18 07:29	10/27/18 10:58	1
Isophorone	<0.044		0.20	0.044	mg/Kg	☼	10/24/18 07:29	10/27/18 10:58	1
2-Methylnaphthalene	<0.0073		0.080	0.0073	mg/Kg	☼	10/24/18 07:29	10/27/18 10:58	1
2-Methylphenol	<0.063		0.20	0.063	mg/Kg	☼	10/24/18 07:29	10/27/18 10:58	1
3 & 4 Methylphenol	<0.066		0.20	0.066	mg/Kg	☼	10/24/18 07:29	10/27/18 10:58	1
Naphthalene	<0.0061		0.039	0.0061	mg/Kg	☼	10/24/18 07:29	10/27/18 10:58	1
2-Nitroaniline	<0.053		0.20	0.053	mg/Kg	☼	10/24/18 07:29	10/27/18 10:58	1
3-Nitroaniline	<0.12		0.39	0.12	mg/Kg	☼	10/24/18 07:29	10/27/18 10:58	1
4-Nitroaniline	<0.17		0.39	0.17	mg/Kg	☼	10/24/18 07:29	10/27/18 10:58	1
Nitrobenzene	<0.0099		0.039	0.0099	mg/Kg	☼	10/24/18 07:29	10/27/18 10:58	1
2-Nitrophenol	<0.093		0.39	0.093	mg/Kg	☼	10/24/18 07:29	10/27/18 10:58	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B09 (0-5)

Lab Sample ID: 500-153334-16

Date Collected: 10/17/18 10:20

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 83.1

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	☼	10/24/18 07:29	10/27/18 10:58	1
N-Nitrosodi-n-propylamine	<0.048		0.080	0.048	mg/Kg	☼	10/24/18 07:29	10/27/18 10:58	1
N-Nitrosodiphenylamine	<0.047		0.20	0.047	mg/Kg	☼	10/24/18 07:29	10/27/18 10:58	1
2,2'-oxybis[1-chloropropane]	<0.046		0.20	0.046	mg/Kg	☼	10/24/18 07:29	10/27/18 10:58	1
Pentachlorophenol	<0.63		0.80	0.63	mg/Kg	☼	10/24/18 07:29	10/27/18 10:58	1
Phenanthrene	<0.0055		0.039	0.0055	mg/Kg	☼	10/24/18 07:29	10/27/18 10:58	1
Phenol	<0.088		0.20	0.088	mg/Kg	☼	10/24/18 07:29	10/27/18 10:58	1
Pyrene	<0.0079		0.039	0.0079	mg/Kg	☼	10/24/18 07:29	10/27/18 10:58	1
1,2,4-Trichlorobenzene	<0.043		0.20	0.043	mg/Kg	☼	10/24/18 07:29	10/27/18 10:58	1
2,4,5-Trichlorophenol	<0.090 *		0.39	0.090	mg/Kg	☼	10/24/18 07:29	10/27/18 10:58	1
2,4,6-Trichlorophenol	<0.14		0.39	0.14	mg/Kg	☼	10/24/18 07:29	10/27/18 10:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	96		43 - 145				10/24/18 07:29	10/27/18 10:58	1
2-Fluorophenol	127		31 - 166				10/24/18 07:29	10/27/18 10:58	1
Nitrobenzene-d5	107		37 - 147				10/24/18 07:29	10/27/18 10:58	1
Phenol-d5	124		30 - 153				10/24/18 07:29	10/27/18 10:58	1
Terphenyl-d14	107		42 - 157				10/24/18 07:29	10/27/18 10:58	1
2,4,6-Tribromophenol	95		31 - 143				10/24/18 07:29	10/27/18 10:58	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.37	J B	1.2	0.23	mg/Kg	☼	10/24/18 08:16	10/24/18 20:51	1
Arsenic	8.8		0.58	0.20	mg/Kg	☼	10/24/18 08:16	10/24/18 20:51	1
Barium	130		0.58	0.066	mg/Kg	☼	10/24/18 08:16	10/24/18 20:51	1
Beryllium	0.79		0.23	0.054	mg/Kg	☼	10/24/18 08:16	10/24/18 20:51	1
Cadmium	0.066	J B	0.12	0.021	mg/Kg	☼	10/24/18 08:16	10/24/18 20:51	1
Chromium	21		0.58	0.29	mg/Kg	☼	10/24/18 08:16	10/24/18 20:51	1
Cobalt	13		0.29	0.076	mg/Kg	☼	10/24/18 08:16	10/24/18 20:51	1
Copper	16	B	0.58	0.16	mg/Kg	☼	10/24/18 08:16	10/24/18 20:51	1
Iron	22000		12	6.0	mg/Kg	☼	10/24/18 08:16	10/24/18 20:51	1
Lead	17	B	0.29	0.13	mg/Kg	☼	10/24/18 08:16	10/24/18 20:51	1
Magnesium	3600		5.8	2.9	mg/Kg	☼	10/24/18 08:16	10/24/18 20:51	1
Calcium	2300	B	12	2.0	mg/Kg	☼	10/24/18 08:16	10/24/18 20:51	1
Manganese	580		0.58	0.084	mg/Kg	☼	10/24/18 08:16	10/24/18 20:51	1
Nickel	21		0.58	0.17	mg/Kg	☼	10/24/18 08:16	10/24/18 20:51	1
Selenium	0.86		0.58	0.34	mg/Kg	☼	10/24/18 08:16	10/24/18 20:51	1
Silver	0.31		0.29	0.075	mg/Kg	☼	10/24/18 08:16	10/24/18 20:51	1
Thallium	<0.29		0.58	0.29	mg/Kg	☼	10/24/18 08:16	10/24/18 20:51	1
Vanadium	40		0.29	0.069	mg/Kg	☼	10/24/18 08:16	10/24/18 20:51	1
Zinc	67		1.2	0.51	mg/Kg	☼	10/24/18 08:16	10/24/18 20:51	1
Potassium	1600		29	10	mg/Kg	☼	10/24/18 08:16	10/24/18 20:51	1
Sodium	960		58	8.6	mg/Kg	☼	10/24/18 08:16	10/24/18 20:51	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		10/25/18 09:50	10/26/18 00:14	1
Barium	0.47	J	0.50	0.050	mg/L		10/25/18 09:50	10/26/18 00:14	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/25/18 09:50	10/26/18 00:14	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		10/25/18 09:50	10/26/18 00:14	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B09 (0-5)

Lab Sample ID: 500-153334-16

Date Collected: 10/17/18 10:20

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	43		5.0	0.50	mg/L		10/25/18 09:50	10/26/18 00:14	1
Chromium	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/26/18 15:32	1
Cobalt	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/26/18 00:14	1
Copper	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/26/18 00:14	1
Iron	0.25	J	0.40	0.20	mg/L		10/25/18 09:50	10/26/18 00:14	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/25/18 09:50	10/26/18 00:14	1
Magnesium	10		2.5	0.50	mg/L		10/25/18 09:50	10/26/18 00:14	1
Manganese	0.028		0.025	0.010	mg/L		10/25/18 09:50	10/26/18 00:14	1
Nickel	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/26/18 00:14	1
Potassium	1.1	J	2.5	0.50	mg/L		10/25/18 09:50	10/26/18 00:14	1
Selenium	<0.020		0.050	0.020	mg/L		10/25/18 09:50	10/26/18 00:14	1
Silver	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/26/18 00:14	1
Vanadium	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/26/18 00:14	1
Zinc	0.056	J	0.50	0.020	mg/L		10/25/18 09:50	10/26/18 00:14	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		10/25/18 09:50	10/25/18 19:37	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/25/18 09:50	10/25/18 19:37	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		10/25/18 12:40	10/26/18 09:03	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.019	0.0063	mg/Kg	☼	10/23/18 15:50	10/24/18 10:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.19		0.54	0.19	mg/Kg	☼	10/25/18 17:45	10/26/18 11:41	1
pH	7.6		0.2	0.2	SU			10/24/18 16:39	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B08 (0-5)

Lab Sample ID: 500-153334-17

Date Collected: 10/17/18 10:40

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 81.5

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	☼	10/18/18 07:15	10/28/18 07:28	1
Benzene	<0.00045		0.0018	0.00045	mg/Kg	☼	10/18/18 07:15	10/28/18 07:28	1
Bromodichloromethane	<0.00036		0.0018	0.00036	mg/Kg	☼	10/18/18 07:15	10/28/18 07:28	1
Bromoform	<0.00051		0.0018	0.00051	mg/Kg	☼	10/18/18 07:15	10/28/18 07:28	1
Bromomethane	<0.0017		0.0044	0.0017	mg/Kg	☼	10/18/18 07:15	10/28/18 07:28	1
2-Butanone (MEK)	<0.0020		0.0044	0.0020	mg/Kg	☼	10/18/18 07:15	10/28/18 07:28	1
Carbon disulfide	<0.00092		0.0044	0.00092	mg/Kg	☼	10/18/18 07:15	10/28/18 07:28	1
Carbon tetrachloride	<0.00051		0.0018	0.00051	mg/Kg	☼	10/18/18 07:15	10/28/18 07:28	1
Chlorobenzene	<0.00065		0.0018	0.00065	mg/Kg	☼	10/18/18 07:15	10/28/18 07:28	1
Chloroethane	<0.0013	*	0.0044	0.0013	mg/Kg	☼	10/18/18 07:15	10/28/18 07:28	1
Chloroform	<0.00061		0.0018	0.00061	mg/Kg	☼	10/18/18 07:15	10/28/18 07:28	1
Chloromethane	<0.0018		0.0044	0.0018	mg/Kg	☼	10/18/18 07:15	10/28/18 07:28	1
cis-1,2-Dichloroethene	<0.00049		0.0018	0.00049	mg/Kg	☼	10/18/18 07:15	10/28/18 07:28	1
cis-1,3-Dichloropropene	<0.00053		0.0018	0.00053	mg/Kg	☼	10/18/18 07:15	10/28/18 07:28	1
Dibromochloromethane	<0.00058		0.0018	0.00058	mg/Kg	☼	10/18/18 07:15	10/28/18 07:28	1
1,1-Dichloroethane	<0.00060		0.0018	0.00060	mg/Kg	☼	10/18/18 07:15	10/28/18 07:28	1
1,2-Dichloroethane	<0.0014		0.0044	0.0014	mg/Kg	☼	10/18/18 07:15	10/28/18 07:28	1
1,1-Dichloroethene	<0.00061		0.0018	0.00061	mg/Kg	☼	10/18/18 07:15	10/28/18 07:28	1
1,2-Dichloropropane	<0.00046		0.0018	0.00046	mg/Kg	☼	10/18/18 07:15	10/28/18 07:28	1
1,3-Dichloropropene, Total	<0.00062		0.0018	0.00062	mg/Kg	☼	10/18/18 07:15	10/28/18 07:28	1
Ethylbenzene	<0.00084		0.0018	0.00084	mg/Kg	☼	10/18/18 07:15	10/28/18 07:28	1
2-Hexanone	<0.0014		0.0044	0.0014	mg/Kg	☼	10/18/18 07:15	10/28/18 07:28	1
Methylene Chloride	<0.0017		0.0044	0.0017	mg/Kg	☼	10/18/18 07:15	10/28/18 07:28	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0044	0.0013	mg/Kg	☼	10/18/18 07:15	10/28/18 07:28	1
Methyl tert-butyl ether	<0.00052		0.0018	0.00052	mg/Kg	☼	10/18/18 07:15	10/28/18 07:28	1
Styrene	<0.00053		0.0018	0.00053	mg/Kg	☼	10/18/18 07:15	10/28/18 07:28	1
1,1,2,2-Tetrachloroethane	<0.00056		0.0018	0.00056	mg/Kg	☼	10/18/18 07:15	10/28/18 07:28	1
Tetrachloroethene	<0.00060		0.0018	0.00060	mg/Kg	☼	10/18/18 07:15	10/28/18 07:28	1
Toluene	<0.00044		0.0018	0.00044	mg/Kg	☼	10/18/18 07:15	10/28/18 07:28	1
trans-1,2-Dichloroethene	<0.00078		0.0018	0.00078	mg/Kg	☼	10/18/18 07:15	10/28/18 07:28	1
trans-1,3-Dichloropropene	<0.00062		0.0018	0.00062	mg/Kg	☼	10/18/18 07:15	10/28/18 07:28	1
1,1,1-Trichloroethane	<0.00059		0.0018	0.00059	mg/Kg	☼	10/18/18 07:15	10/28/18 07:28	1
1,1,2-Trichloroethane	<0.00076		0.0018	0.00076	mg/Kg	☼	10/18/18 07:15	10/28/18 07:28	1
Trichloroethene	<0.00060		0.0018	0.00060	mg/Kg	☼	10/18/18 07:15	10/28/18 07:28	1
Vinyl acetate	<0.0015		0.0044	0.0015	mg/Kg	☼	10/18/18 07:15	10/28/18 07:28	1
Vinyl chloride	<0.00078		0.0018	0.00078	mg/Kg	☼	10/18/18 07:15	10/28/18 07:28	1
Xylenes, Total	<0.00056		0.0035	0.00056	mg/Kg	☼	10/18/18 07:15	10/28/18 07:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		75 - 131	10/18/18 07:15	10/28/18 07:28	1
Dibromofluoromethane	103		75 - 126	10/18/18 07:15	10/28/18 07:28	1
1,2-Dichloroethane-d4 (Surr)	113		70 - 134	10/18/18 07:15	10/28/18 07:28	1
Toluene-d8 (Surr)	97		75 - 124	10/18/18 07:15	10/28/18 07:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.012	J	0.040	0.0072	mg/Kg	☼	10/24/18 07:29	10/27/18 19:06	1
Acenaphthylene	0.0063	J	0.040	0.0053	mg/Kg	☼	10/24/18 07:29	10/27/18 19:06	1
Anthracene	0.047	*	0.040	0.0067	mg/Kg	☼	10/24/18 07:29	10/27/18 19:06	1
Benzo[a]anthracene	0.22		0.040	0.0054	mg/Kg	☼	10/24/18 07:29	10/27/18 19:06	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B08 (0-5)

Lab Sample ID: 500-153334-17

Date Collected: 10/17/18 10:40

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.26		0.040	0.0078	mg/Kg	☼	10/24/18 07:29	10/27/18 19:06	1
Benzo[b]fluoranthene	0.57		0.040	0.0087	mg/Kg	☼	10/24/18 07:29	10/27/18 19:06	1
Benzo[g,h,i]perylene	0.15		0.040	0.013	mg/Kg	☼	10/24/18 07:29	10/27/18 19:06	1
Benzo[k]fluoranthene	0.21		0.040	0.012	mg/Kg	☼	10/24/18 07:29	10/27/18 19:06	1
Bis(2-chloroethoxy)methane	<0.041		0.20	0.041	mg/Kg	☼	10/24/18 07:29	10/27/18 19:06	1
Bis(2-chloroethyl)ether	<0.060		0.20	0.060	mg/Kg	☼	10/24/18 07:29	10/27/18 19:06	1
Bis(2-ethylhexyl) phthalate	<0.073		0.20	0.073	mg/Kg	☼	10/24/18 07:29	10/27/18 19:06	1
4-Bromophenyl phenyl ether	<0.053		0.20	0.053	mg/Kg	☼	10/24/18 07:29	10/27/18 19:06	1
Butyl benzyl phthalate	<0.076		0.20	0.076	mg/Kg	☼	10/24/18 07:29	10/27/18 19:06	1
Carbazole	<0.10		0.20	0.10	mg/Kg	☼	10/24/18 07:29	10/27/18 19:06	1
4-Chloroaniline	<0.19		0.81	0.19	mg/Kg	☼	10/24/18 07:29	10/27/18 19:06	1
4-Chloro-3-methylphenol	<0.14		0.40	0.14	mg/Kg	☼	10/24/18 07:29	10/27/18 19:06	1
2-Chloronaphthalene	<0.044		0.20	0.044	mg/Kg	☼	10/24/18 07:29	10/27/18 19:06	1
2-Chlorophenol	<0.069		0.20	0.069	mg/Kg	☼	10/24/18 07:29	10/27/18 19:06	1
4-Chlorophenyl phenyl ether	<0.047		0.20	0.047	mg/Kg	☼	10/24/18 07:29	10/27/18 19:06	1
Chrysene	0.27		0.040	0.011	mg/Kg	☼	10/24/18 07:29	10/27/18 19:06	1
Dibenz(a,h)anthracene	<0.0078		0.040	0.0078	mg/Kg	☼	10/24/18 07:29	10/27/18 19:06	1
Dibenzofuran	<0.047		0.20	0.047	mg/Kg	☼	10/24/18 07:29	10/27/18 19:06	1
1,2-Dichlorobenzene	<0.048		0.20	0.048	mg/Kg	☼	10/24/18 07:29	10/27/18 19:06	1
1,3-Dichlorobenzene	<0.045		0.20	0.045	mg/Kg	☼	10/24/18 07:29	10/27/18 19:06	1
1,4-Dichlorobenzene	<0.052		0.20	0.052	mg/Kg	☼	10/24/18 07:29	10/27/18 19:06	1
3,3'-Dichlorobenzidine	<0.056		0.20	0.056	mg/Kg	☼	10/24/18 07:29	10/27/18 19:06	1
2,4-Dichlorophenol	<0.095		0.40	0.095	mg/Kg	☼	10/24/18 07:29	10/27/18 19:06	1
Diethyl phthalate	<0.068		0.20	0.068	mg/Kg	☼	10/24/18 07:29	10/27/18 19:06	1
2,4-Dimethylphenol	<0.15		0.40	0.15	mg/Kg	☼	10/24/18 07:29	10/27/18 19:06	1
Dimethyl phthalate	<0.053		0.20	0.053	mg/Kg	☼	10/24/18 07:29	10/27/18 19:06	1
Di-n-butyl phthalate	<0.061		0.20	0.061	mg/Kg	☼	10/24/18 07:29	10/27/18 19:06	1
4,6-Dinitro-2-methylphenol	<0.32		0.81	0.32	mg/Kg	☼	10/24/18 07:29	10/27/18 19:06	1
2,4-Dinitrophenol	<0.71		0.81	0.71	mg/Kg	☼	10/24/18 07:29	10/27/18 19:06	1
2,4-Dinitrotoluene	<0.064		0.20	0.064	mg/Kg	☼	10/24/18 07:29	10/27/18 19:06	1
2,6-Dinitrotoluene	<0.079		0.20	0.079	mg/Kg	☼	10/24/18 07:29	10/27/18 19:06	1
Di-n-octyl phthalate	<0.066		0.20	0.066	mg/Kg	☼	10/24/18 07:29	10/27/18 19:06	1
Fluoranthene	0.67 *		0.040	0.0075	mg/Kg	☼	10/24/18 07:29	10/27/18 19:06	1
Fluorene	0.013 J		0.040	0.0057	mg/Kg	☼	10/24/18 07:29	10/27/18 19:06	1
Hexachlorobenzene	<0.0093		0.081	0.0093	mg/Kg	☼	10/24/18 07:29	10/27/18 19:06	1
Hexachlorobutadiene	<0.063		0.20	0.063	mg/Kg	☼	10/24/18 07:29	10/27/18 19:06	1
Hexachlorocyclopentadiene	<0.23		0.81	0.23	mg/Kg	☼	10/24/18 07:29	10/27/18 19:06	1
Hexachloroethane	<0.061		0.20	0.061	mg/Kg	☼	10/24/18 07:29	10/27/18 19:06	1
Indeno[1,2,3-cd]pyrene	0.11		0.040	0.010	mg/Kg	☼	10/24/18 07:29	10/27/18 19:06	1
Isophorone	<0.045		0.20	0.045	mg/Kg	☼	10/24/18 07:29	10/27/18 19:06	1
2-Methylnaphthalene	<0.0074		0.081	0.0074	mg/Kg	☼	10/24/18 07:29	10/27/18 19:06	1
2-Methylphenol	<0.064		0.20	0.064	mg/Kg	☼	10/24/18 07:29	10/27/18 19:06	1
3 & 4 Methylphenol	<0.067		0.20	0.067	mg/Kg	☼	10/24/18 07:29	10/27/18 19:06	1
Naphthalene	<0.0062		0.040	0.0062	mg/Kg	☼	10/24/18 07:29	10/27/18 19:06	1
2-Nitroaniline	<0.054		0.20	0.054	mg/Kg	☼	10/24/18 07:29	10/27/18 19:06	1
3-Nitroaniline	<0.12		0.40	0.12	mg/Kg	☼	10/24/18 07:29	10/27/18 19:06	1
4-Nitroaniline	<0.17		0.40	0.17	mg/Kg	☼	10/24/18 07:29	10/27/18 19:06	1
Nitrobenzene	<0.010		0.040	0.010	mg/Kg	☼	10/24/18 07:29	10/27/18 19:06	1
2-Nitrophenol	<0.095		0.40	0.095	mg/Kg	☼	10/24/18 07:29	10/27/18 19:06	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B08 (0-5)

Lab Sample ID: 500-153334-17

Date Collected: 10/17/18 10:40

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.38		0.81	0.38	mg/Kg	☼	10/24/18 07:29	10/27/18 19:06	1
N-Nitrosodi-n-propylamine	<0.049		0.081	0.049	mg/Kg	☼	10/24/18 07:29	10/27/18 19:06	1
N-Nitrosodiphenylamine	<0.047		0.20	0.047	mg/Kg	☼	10/24/18 07:29	10/27/18 19:06	1
2,2'-oxybis[1-chloropropane]	<0.047		0.20	0.047	mg/Kg	☼	10/24/18 07:29	10/27/18 19:06	1
Pentachlorophenol	<0.64		0.81	0.64	mg/Kg	☼	10/24/18 07:29	10/27/18 19:06	1
Phenanthrene	0.25		0.040	0.0056	mg/Kg	☼	10/24/18 07:29	10/27/18 19:06	1
Phenol	<0.089		0.20	0.089	mg/Kg	☼	10/24/18 07:29	10/27/18 19:06	1
Pyrene	0.60		0.040	0.0080	mg/Kg	☼	10/24/18 07:29	10/27/18 19:06	1
1,2,4-Trichlorobenzene	<0.043		0.20	0.043	mg/Kg	☼	10/24/18 07:29	10/27/18 19:06	1
2,4,5-Trichlorophenol	<0.092 *		0.40	0.092	mg/Kg	☼	10/24/18 07:29	10/27/18 19:06	1
2,4,6-Trichlorophenol	<0.14		0.40	0.14	mg/Kg	☼	10/24/18 07:29	10/27/18 19:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	105		43 - 145	10/24/18 07:29	10/27/18 19:06	1
2-Fluorophenol	139		31 - 166	10/24/18 07:29	10/27/18 19:06	1
Nitrobenzene-d5	114		37 - 147	10/24/18 07:29	10/27/18 19:06	1
Phenol-d5	134		30 - 153	10/24/18 07:29	10/27/18 19:06	1
Terphenyl-d14	168 X		42 - 157	10/24/18 07:29	10/27/18 19:06	1
2,4,6-Tribromophenol	112		31 - 143	10/24/18 07:29	10/27/18 19:06	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.29	J B	1.2	0.23	mg/Kg	☼	10/24/18 08:16	10/24/18 20:55	1
Arsenic	8.5		0.58	0.20	mg/Kg	☼	10/24/18 08:16	10/24/18 20:55	1
Barium	110		0.58	0.067	mg/Kg	☼	10/24/18 08:16	10/24/18 20:55	1
Beryllium	0.80		0.23	0.055	mg/Kg	☼	10/24/18 08:16	10/24/18 20:55	1
Cadmium	0.22	B	0.12	0.021	mg/Kg	☼	10/24/18 08:16	10/24/18 20:55	1
Chromium	21		0.58	0.29	mg/Kg	☼	10/24/18 08:16	10/24/18 20:55	1
Cobalt	11		0.29	0.077	mg/Kg	☼	10/24/18 08:16	10/24/18 20:55	1
Copper	23	B	0.58	0.16	mg/Kg	☼	10/24/18 08:16	10/24/18 20:55	1
Iron	20000		12	6.1	mg/Kg	☼	10/24/18 08:16	10/24/18 20:55	1
Lead	40	B	0.29	0.14	mg/Kg	☼	10/24/18 08:16	10/24/18 20:55	1
Magnesium	13000		5.8	2.9	mg/Kg	☼	10/24/18 08:16	10/24/18 20:55	1
Calcium	20000	B	12	2.0	mg/Kg	☼	10/24/18 08:16	10/24/18 20:55	1
Manganese	480		0.58	0.085	mg/Kg	☼	10/24/18 08:16	10/24/18 20:55	1
Nickel	29		0.58	0.17	mg/Kg	☼	10/24/18 08:16	10/24/18 20:55	1
Selenium	0.83		0.58	0.34	mg/Kg	☼	10/24/18 08:16	10/24/18 20:55	1
Silver	0.33		0.29	0.075	mg/Kg	☼	10/24/18 08:16	10/24/18 20:55	1
Thallium	<0.29		0.58	0.29	mg/Kg	☼	10/24/18 08:16	10/24/18 20:55	1
Vanadium	30		0.29	0.069	mg/Kg	☼	10/24/18 08:16	10/24/18 20:55	1
Zinc	110		1.2	0.51	mg/Kg	☼	10/24/18 08:16	10/24/18 20:55	1
Potassium	1500		29	10	mg/Kg	☼	10/24/18 08:16	10/24/18 20:55	1
Sodium	1000		58	8.7	mg/Kg	☼	10/24/18 08:16	10/24/18 20:55	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		10/25/18 09:50	10/26/18 00:18	1
Barium	0.72		0.50	0.050	mg/L		10/25/18 09:50	10/26/18 00:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/25/18 09:50	10/26/18 00:18	1
Cadmium	0.0037	J	0.0050	0.0020	mg/L		10/25/18 09:50	10/26/18 00:18	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B08 (0-5)

Lab Sample ID: 500-153334-17

Date Collected: 10/17/18 10:40

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 81.5

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		10/25/18 09:50	10/26/18 00:18	1
Chromium	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/26/18 15:36	1
Cobalt	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/26/18 00:18	1
Copper	0.011	J	0.025	0.010	mg/L		10/25/18 09:50	10/26/18 00:18	1
Iron	<0.20		0.40	0.20	mg/L		10/25/18 09:50	10/26/18 00:18	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/25/18 09:50	10/26/18 00:18	1
Magnesium	110		2.5	0.50	mg/L		10/25/18 09:50	10/26/18 00:18	1
Manganese	0.95		0.025	0.010	mg/L		10/25/18 09:50	10/26/18 00:18	1
Nickel	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/26/18 00:18	1
Potassium	6.2		2.5	0.50	mg/L		10/25/18 09:50	10/26/18 00:18	1
Selenium	<0.020		0.050	0.020	mg/L		10/25/18 09:50	10/26/18 00:18	1
Silver	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/26/18 00:18	1
Vanadium	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/26/18 00:18	1
Zinc	0.072	J	0.50	0.020	mg/L		10/25/18 09:50	10/26/18 00:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	2.3		0.025	0.010	mg/L		10/25/18 15:13	10/26/18 17:43	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		10/25/18 09:50	10/25/18 19:38	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/25/18 09:50	10/25/18 19:38	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		10/25/18 12:40	10/26/18 09:05	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.040		0.020	0.0065	mg/Kg	☼	10/23/18 15:50	10/24/18 10:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.21		0.60	0.21	mg/Kg	☼	10/25/18 17:45	10/26/18 11:43	1
pH	8.3		0.2	0.2	SU			10/24/18 16:39	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B07 (0-5)

Lab Sample ID: 500-153334-18

Date Collected: 10/17/18 10:55

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0088		0.020	0.0088	mg/Kg	☼	10/18/18 07:15	10/28/18 07:54	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg	☼	10/18/18 07:15	10/28/18 07:54	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg	☼	10/18/18 07:15	10/28/18 07:54	1
Bromoform	<0.00059		0.0020	0.00059	mg/Kg	☼	10/18/18 07:15	10/28/18 07:54	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg	☼	10/18/18 07:15	10/28/18 07:54	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg	☼	10/18/18 07:15	10/28/18 07:54	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg	☼	10/18/18 07:15	10/28/18 07:54	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg	☼	10/18/18 07:15	10/28/18 07:54	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg	☼	10/18/18 07:15	10/28/18 07:54	1
Chloroethane	<0.0015	*	0.0050	0.0015	mg/Kg	☼	10/18/18 07:15	10/28/18 07:54	1
Chloroform	<0.00070		0.0020	0.00070	mg/Kg	☼	10/18/18 07:15	10/28/18 07:54	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg	☼	10/18/18 07:15	10/28/18 07:54	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg	☼	10/18/18 07:15	10/28/18 07:54	1
cis-1,3-Dichloropropene	<0.00061		0.0020	0.00061	mg/Kg	☼	10/18/18 07:15	10/28/18 07:54	1
Dibromochloromethane	<0.00066		0.0020	0.00066	mg/Kg	☼	10/18/18 07:15	10/28/18 07:54	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg	☼	10/18/18 07:15	10/28/18 07:54	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg	☼	10/18/18 07:15	10/28/18 07:54	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg	☼	10/18/18 07:15	10/28/18 07:54	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg	☼	10/18/18 07:15	10/28/18 07:54	1
1,3-Dichloropropene, Total	<0.00071		0.0020	0.00071	mg/Kg	☼	10/18/18 07:15	10/28/18 07:54	1
Ethylbenzene	<0.00097		0.0020	0.00097	mg/Kg	☼	10/18/18 07:15	10/28/18 07:54	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg	☼	10/18/18 07:15	10/28/18 07:54	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg	☼	10/18/18 07:15	10/28/18 07:54	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg	☼	10/18/18 07:15	10/28/18 07:54	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg	☼	10/18/18 07:15	10/28/18 07:54	1
Styrene	<0.00061		0.0020	0.00061	mg/Kg	☼	10/18/18 07:15	10/28/18 07:54	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg	☼	10/18/18 07:15	10/28/18 07:54	1
Tetrachloroethene	<0.00069		0.0020	0.00069	mg/Kg	☼	10/18/18 07:15	10/28/18 07:54	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg	☼	10/18/18 07:15	10/28/18 07:54	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg	☼	10/18/18 07:15	10/28/18 07:54	1
trans-1,3-Dichloropropene	<0.00071		0.0020	0.00071	mg/Kg	☼	10/18/18 07:15	10/28/18 07:54	1
1,1,1-Trichloroethane	<0.00068		0.0020	0.00068	mg/Kg	☼	10/18/18 07:15	10/28/18 07:54	1
1,1,2-Trichloroethane	<0.00087		0.0020	0.00087	mg/Kg	☼	10/18/18 07:15	10/28/18 07:54	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg	☼	10/18/18 07:15	10/28/18 07:54	1
Vinyl acetate	<0.0018		0.0050	0.0018	mg/Kg	☼	10/18/18 07:15	10/28/18 07:54	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg	☼	10/18/18 07:15	10/28/18 07:54	1
Xylenes, Total	<0.00065		0.0040	0.00065	mg/Kg	☼	10/18/18 07:15	10/28/18 07:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		75 - 131	10/18/18 07:15	10/28/18 07:54	1
Dibromofluoromethane	107		75 - 126	10/18/18 07:15	10/28/18 07:54	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134	10/18/18 07:15	10/28/18 07:54	1
Toluene-d8 (Surr)	95		75 - 124	10/18/18 07:15	10/28/18 07:54	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	☼	10/24/18 07:29	10/27/18 11:26	1
Acenaphthylene	<0.0051		0.038	0.0051	mg/Kg	☼	10/24/18 07:29	10/27/18 11:26	1
Anthracene	<0.0064	*	0.038	0.0064	mg/Kg	☼	10/24/18 07:29	10/27/18 11:26	1
Benzo[a]anthracene	0.015	J	0.038	0.0052	mg/Kg	☼	10/24/18 07:29	10/27/18 11:26	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B07 (0-5)

Lab Sample ID: 500-153334-18

Date Collected: 10/17/18 10:55

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.019	J	0.038	0.0074	mg/Kg	☼	10/24/18 07:29	10/27/18 11:26	1
Benzo[b]fluoranthene	0.025	J	0.038	0.0083	mg/Kg	☼	10/24/18 07:29	10/27/18 11:26	1
Benzo[g,h,i]perylene	0.020	J	0.038	0.012	mg/Kg	☼	10/24/18 07:29	10/27/18 11:26	1
Benzo[k]fluoranthene	<0.011		0.038	0.011	mg/Kg	☼	10/24/18 07:29	10/27/18 11:26	1
Bis(2-chloroethoxy)methane	<0.039		0.19	0.039	mg/Kg	☼	10/24/18 07:29	10/27/18 11:26	1
Bis(2-chloroethyl)ether	<0.058		0.19	0.058	mg/Kg	☼	10/24/18 07:29	10/27/18 11:26	1
Bis(2-ethylhexyl) phthalate	<0.070		0.19	0.070	mg/Kg	☼	10/24/18 07:29	10/27/18 11:26	1
4-Bromophenyl phenyl ether	<0.051		0.19	0.051	mg/Kg	☼	10/24/18 07:29	10/27/18 11:26	1
Butyl benzyl phthalate	<0.073		0.19	0.073	mg/Kg	☼	10/24/18 07:29	10/27/18 11:26	1
Carbazole	<0.096		0.19	0.096	mg/Kg	☼	10/24/18 07:29	10/27/18 11:26	1
4-Chloroaniline	<0.18		0.77	0.18	mg/Kg	☼	10/24/18 07:29	10/27/18 11:26	1
4-Chloro-3-methylphenol	<0.13		0.38	0.13	mg/Kg	☼	10/24/18 07:29	10/27/18 11:26	1
2-Chloronaphthalene	<0.042		0.19	0.042	mg/Kg	☼	10/24/18 07:29	10/27/18 11:26	1
2-Chlorophenol	<0.066		0.19	0.066	mg/Kg	☼	10/24/18 07:29	10/27/18 11:26	1
4-Chlorophenyl phenyl ether	<0.045		0.19	0.045	mg/Kg	☼	10/24/18 07:29	10/27/18 11:26	1
Chrysene	0.022	J	0.038	0.010	mg/Kg	☼	10/24/18 07:29	10/27/18 11:26	1
Dibenz(a,h)anthracene	<0.0074		0.038	0.0074	mg/Kg	☼	10/24/18 07:29	10/27/18 11:26	1
Dibenzofuran	<0.045		0.19	0.045	mg/Kg	☼	10/24/18 07:29	10/27/18 11:26	1
1,2-Dichlorobenzene	<0.046		0.19	0.046	mg/Kg	☼	10/24/18 07:29	10/27/18 11:26	1
1,3-Dichlorobenzene	<0.043		0.19	0.043	mg/Kg	☼	10/24/18 07:29	10/27/18 11:26	1
1,4-Dichlorobenzene	<0.049		0.19	0.049	mg/Kg	☼	10/24/18 07:29	10/27/18 11:26	1
3,3'-Dichlorobenzidine	<0.054		0.19	0.054	mg/Kg	☼	10/24/18 07:29	10/27/18 11:26	1
2,4-Dichlorophenol	<0.091		0.38	0.091	mg/Kg	☼	10/24/18 07:29	10/27/18 11:26	1
Diethyl phthalate	<0.065		0.19	0.065	mg/Kg	☼	10/24/18 07:29	10/27/18 11:26	1
2,4-Dimethylphenol	<0.15		0.38	0.15	mg/Kg	☼	10/24/18 07:29	10/27/18 11:26	1
Dimethyl phthalate	<0.050		0.19	0.050	mg/Kg	☼	10/24/18 07:29	10/27/18 11:26	1
Di-n-butyl phthalate	<0.058		0.19	0.058	mg/Kg	☼	10/24/18 07:29	10/27/18 11:26	1
4,6-Dinitro-2-methylphenol	<0.31		0.77	0.31	mg/Kg	☼	10/24/18 07:29	10/27/18 11:26	1
2,4-Dinitrophenol	<0.68		0.77	0.68	mg/Kg	☼	10/24/18 07:29	10/27/18 11:26	1
2,4-Dinitrotoluene	<0.061		0.19	0.061	mg/Kg	☼	10/24/18 07:29	10/27/18 11:26	1
2,6-Dinitrotoluene	<0.075		0.19	0.075	mg/Kg	☼	10/24/18 07:29	10/27/18 11:26	1
Di-n-octyl phthalate	<0.063		0.19	0.063	mg/Kg	☼	10/24/18 07:29	10/27/18 11:26	1
Fluoranthene	0.030	J *	0.038	0.0071	mg/Kg	☼	10/24/18 07:29	10/27/18 11:26	1
Fluorene	<0.0054		0.038	0.0054	mg/Kg	☼	10/24/18 07:29	10/27/18 11:26	1
Hexachlorobenzene	<0.0089		0.077	0.0089	mg/Kg	☼	10/24/18 07:29	10/27/18 11:26	1
Hexachlorobutadiene	<0.060		0.19	0.060	mg/Kg	☼	10/24/18 07:29	10/27/18 11:26	1
Hexachlorocyclopentadiene	<0.22		0.77	0.22	mg/Kg	☼	10/24/18 07:29	10/27/18 11:26	1
Hexachloroethane	<0.058		0.19	0.058	mg/Kg	☼	10/24/18 07:29	10/27/18 11:26	1
Indeno[1,2,3-cd]pyrene	0.015	J	0.038	0.010	mg/Kg	☼	10/24/18 07:29	10/27/18 11:26	1
Isophorone	<0.043		0.19	0.043	mg/Kg	☼	10/24/18 07:29	10/27/18 11:26	1
2-Methylnaphthalene	<0.0071		0.077	0.0071	mg/Kg	☼	10/24/18 07:29	10/27/18 11:26	1
2-Methylphenol	<0.062		0.19	0.062	mg/Kg	☼	10/24/18 07:29	10/27/18 11:26	1
3 & 4 Methylphenol	<0.064		0.19	0.064	mg/Kg	☼	10/24/18 07:29	10/27/18 11:26	1
Naphthalene	<0.0059		0.038	0.0059	mg/Kg	☼	10/24/18 07:29	10/27/18 11:26	1
2-Nitroaniline	<0.052		0.19	0.052	mg/Kg	☼	10/24/18 07:29	10/27/18 11:26	1
3-Nitroaniline	<0.12		0.38	0.12	mg/Kg	☼	10/24/18 07:29	10/27/18 11:26	1
4-Nitroaniline	<0.16		0.38	0.16	mg/Kg	☼	10/24/18 07:29	10/27/18 11:26	1
Nitrobenzene	<0.0096		0.038	0.0096	mg/Kg	☼	10/24/18 07:29	10/27/18 11:26	1
2-Nitrophenol	<0.091		0.38	0.091	mg/Kg	☼	10/24/18 07:29	10/27/18 11:26	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B07 (0-5)

Lab Sample ID: 500-153334-18

Date Collected: 10/17/18 10:55

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.37		0.77	0.37	mg/Kg	☼	10/24/18 07:29	10/27/18 11:26	1
N-Nitrosodi-n-propylamine	<0.047		0.077	0.047	mg/Kg	☼	10/24/18 07:29	10/27/18 11:26	1
N-Nitrosodiphenylamine	<0.045		0.19	0.045	mg/Kg	☼	10/24/18 07:29	10/27/18 11:26	1
2,2'-oxybis[1-chloropropane]	<0.045		0.19	0.045	mg/Kg	☼	10/24/18 07:29	10/27/18 11:26	1
Pentachlorophenol	<0.62		0.77	0.62	mg/Kg	☼	10/24/18 07:29	10/27/18 11:26	1
Phenanthrene	0.012	J	0.038	0.0054	mg/Kg	☼	10/24/18 07:29	10/27/18 11:26	1
Phenol	<0.085		0.19	0.085	mg/Kg	☼	10/24/18 07:29	10/27/18 11:26	1
Pyrene	0.027	J	0.038	0.0076	mg/Kg	☼	10/24/18 07:29	10/27/18 11:26	1
1,2,4-Trichlorobenzene	<0.041		0.19	0.041	mg/Kg	☼	10/24/18 07:29	10/27/18 11:26	1
2,4,5-Trichlorophenol	<0.088	*	0.38	0.088	mg/Kg	☼	10/24/18 07:29	10/27/18 11:26	1
2,4,6-Trichlorophenol	<0.13		0.38	0.13	mg/Kg	☼	10/24/18 07:29	10/27/18 11:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	113		43 - 145	10/24/18 07:29	10/27/18 11:26	1
2-Fluorophenol	153		31 - 166	10/24/18 07:29	10/27/18 11:26	1
Nitrobenzene-d5	105		37 - 147	10/24/18 07:29	10/27/18 11:26	1
Phenol-d5	147		30 - 153	10/24/18 07:29	10/27/18 11:26	1
Terphenyl-d14	124		42 - 157	10/24/18 07:29	10/27/18 11:26	1
2,4,6-Tribromophenol	119		31 - 143	10/24/18 07:29	10/27/18 11:26	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.58	J B	1.2	0.22	mg/Kg	☼	10/24/18 08:16	10/24/18 20:59	1
Arsenic	9.2		0.58	0.20	mg/Kg	☼	10/24/18 08:16	10/24/18 20:59	1
Barium	120		0.58	0.066	mg/Kg	☼	10/24/18 08:16	10/24/18 20:59	1
Beryllium	0.80		0.23	0.054	mg/Kg	☼	10/24/18 08:16	10/24/18 20:59	1
Cadmium	0.12	B	0.12	0.021	mg/Kg	☼	10/24/18 08:16	10/24/18 20:59	1
Chromium	20		0.58	0.29	mg/Kg	☼	10/24/18 08:16	10/24/18 20:59	1
Cobalt	15		0.29	0.076	mg/Kg	☼	10/24/18 08:16	10/24/18 20:59	1
Copper	20	B	0.58	0.16	mg/Kg	☼	10/24/18 08:16	10/24/18 20:59	1
Iron	23000		12	6.0	mg/Kg	☼	10/24/18 08:16	10/24/18 20:59	1
Lead	21	B	0.29	0.13	mg/Kg	☼	10/24/18 08:16	10/24/18 20:59	1
Magnesium	4400		5.8	2.9	mg/Kg	☼	10/24/18 08:16	10/24/18 20:59	1
Calcium	3700	B	12	2.0	mg/Kg	☼	10/24/18 08:16	10/24/18 20:59	1
Manganese	540		0.58	0.084	mg/Kg	☼	10/24/18 08:16	10/24/18 20:59	1
Nickel	30		0.58	0.17	mg/Kg	☼	10/24/18 08:16	10/24/18 20:59	1
Selenium	0.93		0.58	0.34	mg/Kg	☼	10/24/18 08:16	10/24/18 20:59	1
Silver	0.30		0.29	0.074	mg/Kg	☼	10/24/18 08:16	10/24/18 20:59	1
Thallium	<0.29		0.58	0.29	mg/Kg	☼	10/24/18 08:16	10/24/18 20:59	1
Vanadium	32		0.29	0.068	mg/Kg	☼	10/24/18 08:16	10/24/18 20:59	1
Zinc	80		1.2	0.51	mg/Kg	☼	10/24/18 08:16	10/24/18 20:59	1
Potassium	1400		29	10	mg/Kg	☼	10/24/18 08:16	10/24/18 20:59	1
Sodium	560		58	8.5	mg/Kg	☼	10/24/18 08:16	10/24/18 20:59	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		10/25/18 09:50	10/26/18 00:22	1
Barium	0.90		0.50	0.050	mg/L		10/25/18 09:50	10/26/18 00:22	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/25/18 09:50	10/26/18 00:22	1
Cadmium	0.0029	J	0.0050	0.0020	mg/L		10/25/18 09:50	10/26/18 00:22	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B07 (0-5)

Lab Sample ID: 500-153334-18

Date Collected: 10/17/18 10:55

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	150		5.0	0.50	mg/L		10/25/18 09:50	10/26/18 00:22	1
Chromium	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/26/18 15:41	1
Cobalt	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/26/18 00:22	1
Copper	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/26/18 00:22	1
Iron	<0.20		0.40	0.20	mg/L		10/25/18 09:50	10/26/18 00:22	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/25/18 09:50	10/26/18 00:22	1
Magnesium	67		2.5	0.50	mg/L		10/25/18 09:50	10/26/18 00:22	1
Manganese	0.14		0.025	0.010	mg/L		10/25/18 09:50	10/26/18 00:22	1
Nickel	0.013	J	0.025	0.010	mg/L		10/25/18 09:50	10/26/18 00:22	1
Potassium	1.0	J	2.5	0.50	mg/L		10/25/18 09:50	10/26/18 00:22	1
Selenium	<0.020		0.050	0.020	mg/L		10/25/18 09:50	10/26/18 00:22	1
Silver	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/26/18 00:22	1
Vanadium	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/26/18 00:22	1
Zinc	0.24	J	0.50	0.020	mg/L		10/25/18 09:50	10/26/18 00:22	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		10/25/18 09:50	10/25/18 19:39	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/25/18 09:50	10/25/18 19:39	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		10/25/18 12:40	10/26/18 09:07	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.018	0.0061	mg/Kg	☼	10/23/18 15:50	10/24/18 10:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.20		0.57	0.20	mg/Kg	☼	10/25/18 17:45	10/26/18 11:43	1
pH	7.6		0.2	0.2	SU			10/24/18 16:39	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B03 (0-5)

Lab Sample ID: 500-153334-19

Date Collected: 10/17/18 11:15

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0087		0.020	0.0087	mg/Kg	☼	10/18/18 07:15	10/28/18 08:20	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg	☼	10/18/18 07:15	10/28/18 08:20	1
Bromodichloromethane	<0.00040		0.0020	0.00040	mg/Kg	☼	10/18/18 07:15	10/28/18 08:20	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg	☼	10/18/18 07:15	10/28/18 08:20	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg	☼	10/18/18 07:15	10/28/18 08:20	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg	☼	10/18/18 07:15	10/28/18 08:20	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg	☼	10/18/18 07:15	10/28/18 08:20	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg	☼	10/18/18 07:15	10/28/18 08:20	1
Chlorobenzene	<0.00073		0.0020	0.00073	mg/Kg	☼	10/18/18 07:15	10/28/18 08:20	1
Chloroethane	<0.0015	*	0.0050	0.0015	mg/Kg	☼	10/18/18 07:15	10/28/18 08:20	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg	☼	10/18/18 07:15	10/28/18 08:20	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg	☼	10/18/18 07:15	10/28/18 08:20	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg	☼	10/18/18 07:15	10/28/18 08:20	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg	☼	10/18/18 07:15	10/28/18 08:20	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg	☼	10/18/18 07:15	10/28/18 08:20	1
1,1-Dichloroethane	<0.00068		0.0020	0.00068	mg/Kg	☼	10/18/18 07:15	10/28/18 08:20	1
1,2-Dichloroethane	<0.0015		0.0050	0.0015	mg/Kg	☼	10/18/18 07:15	10/28/18 08:20	1
1,1-Dichloroethene	<0.00068		0.0020	0.00068	mg/Kg	☼	10/18/18 07:15	10/28/18 08:20	1
1,2-Dichloropropane	<0.00051		0.0020	0.00051	mg/Kg	☼	10/18/18 07:15	10/28/18 08:20	1
1,3-Dichloropropene, Total	<0.00070		0.0020	0.00070	mg/Kg	☼	10/18/18 07:15	10/28/18 08:20	1
Ethylbenzene	<0.00095		0.0020	0.00095	mg/Kg	☼	10/18/18 07:15	10/28/18 08:20	1
2-Hexanone	<0.0015		0.0050	0.0015	mg/Kg	☼	10/18/18 07:15	10/28/18 08:20	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg	☼	10/18/18 07:15	10/28/18 08:20	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg	☼	10/18/18 07:15	10/28/18 08:20	1
Methyl tert-butyl ether	<0.00058		0.0020	0.00058	mg/Kg	☼	10/18/18 07:15	10/28/18 08:20	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg	☼	10/18/18 07:15	10/28/18 08:20	1
1,1,2,2-Tetrachloroethane	<0.00063		0.0020	0.00063	mg/Kg	☼	10/18/18 07:15	10/28/18 08:20	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg	☼	10/18/18 07:15	10/28/18 08:20	1
Toluene	<0.00050		0.0020	0.00050	mg/Kg	☼	10/18/18 07:15	10/28/18 08:20	1
trans-1,2-Dichloroethene	<0.00088		0.0020	0.00088	mg/Kg	☼	10/18/18 07:15	10/28/18 08:20	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg	☼	10/18/18 07:15	10/28/18 08:20	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg	☼	10/18/18 07:15	10/28/18 08:20	1
1,1,2-Trichloroethane	<0.00085		0.0020	0.00085	mg/Kg	☼	10/18/18 07:15	10/28/18 08:20	1
Trichloroethene	<0.00067		0.0020	0.00067	mg/Kg	☼	10/18/18 07:15	10/28/18 08:20	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg	☼	10/18/18 07:15	10/28/18 08:20	1
Vinyl chloride	<0.00088		0.0020	0.00088	mg/Kg	☼	10/18/18 07:15	10/28/18 08:20	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg	☼	10/18/18 07:15	10/28/18 08:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		75 - 131	10/18/18 07:15	10/28/18 08:20	1
Dibromofluoromethane	104		75 - 126	10/18/18 07:15	10/28/18 08:20	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 134	10/18/18 07:15	10/28/18 08:20	1
Toluene-d8 (Surr)	97		75 - 124	10/18/18 07:15	10/28/18 08:20	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	☼	10/24/18 07:29	10/27/18 11:55	1
Acenaphthylene	<0.0051		0.038	0.0051	mg/Kg	☼	10/24/18 07:29	10/27/18 11:55	1
Anthracene	0.013	J *	0.038	0.0064	mg/Kg	☼	10/24/18 07:29	10/27/18 11:55	1
Benzo[a]anthracene	0.053		0.038	0.0052	mg/Kg	☼	10/24/18 07:29	10/27/18 11:55	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B03 (0-5)

Lab Sample ID: 500-153334-19

Date Collected: 10/17/18 11:15

Matrix: Solid

Date Received: 10/17/18 16:40

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	0.065		0.038	0.0075	mg/Kg	☼	10/24/18 07:29	10/27/18 11:55	1
Benzo[b]fluoranthene	0.10		0.038	0.0083	mg/Kg	☼	10/24/18 07:29	10/27/18 11:55	1
Benzo[g,h,i]perylene	0.061		0.038	0.012	mg/Kg	☼	10/24/18 07:29	10/27/18 11:55	1
Benzo[k]fluoranthene	0.037	J	0.038	0.011	mg/Kg	☼	10/24/18 07:29	10/27/18 11:55	1
Bis(2-chloroethoxy)methane	<0.039		0.19	0.039	mg/Kg	☼	10/24/18 07:29	10/27/18 11:55	1
Bis(2-chloroethyl)ether	<0.058		0.19	0.058	mg/Kg	☼	10/24/18 07:29	10/27/18 11:55	1
Bis(2-ethylhexyl) phthalate	<0.071		0.19	0.071	mg/Kg	☼	10/24/18 07:29	10/27/18 11:55	1
4-Bromophenyl phenyl ether	<0.051		0.19	0.051	mg/Kg	☼	10/24/18 07:29	10/27/18 11:55	1
Butyl benzyl phthalate	<0.073		0.19	0.073	mg/Kg	☼	10/24/18 07:29	10/27/18 11:55	1
Carbazole	<0.096		0.19	0.096	mg/Kg	☼	10/24/18 07:29	10/27/18 11:55	1
4-Chloroaniline	<0.18		0.78	0.18	mg/Kg	☼	10/24/18 07:29	10/27/18 11:55	1
4-Chloro-3-methylphenol	<0.13		0.38	0.13	mg/Kg	☼	10/24/18 07:29	10/27/18 11:55	1
2-Chloronaphthalene	<0.043		0.19	0.043	mg/Kg	☼	10/24/18 07:29	10/27/18 11:55	1
2-Chlorophenol	<0.066		0.19	0.066	mg/Kg	☼	10/24/18 07:29	10/27/18 11:55	1
4-Chlorophenyl phenyl ether	<0.045		0.19	0.045	mg/Kg	☼	10/24/18 07:29	10/27/18 11:55	1
Chrysene	0.073		0.038	0.011	mg/Kg	☼	10/24/18 07:29	10/27/18 11:55	1
Dibenz(a,h)anthracene	0.011	J	0.038	0.0075	mg/Kg	☼	10/24/18 07:29	10/27/18 11:55	1
Dibenzofuran	<0.045		0.19	0.045	mg/Kg	☼	10/24/18 07:29	10/27/18 11:55	1
1,2-Dichlorobenzene	<0.046		0.19	0.046	mg/Kg	☼	10/24/18 07:29	10/27/18 11:55	1
1,3-Dichlorobenzene	<0.043		0.19	0.043	mg/Kg	☼	10/24/18 07:29	10/27/18 11:55	1
1,4-Dichlorobenzene	<0.050		0.19	0.050	mg/Kg	☼	10/24/18 07:29	10/27/18 11:55	1
3,3'-Dichlorobenzidine	<0.054		0.19	0.054	mg/Kg	☼	10/24/18 07:29	10/27/18 11:55	1
2,4-Dichlorophenol	<0.092		0.38	0.092	mg/Kg	☼	10/24/18 07:29	10/27/18 11:55	1
Diethyl phthalate	<0.065		0.19	0.065	mg/Kg	☼	10/24/18 07:29	10/27/18 11:55	1
2,4-Dimethylphenol	<0.15		0.38	0.15	mg/Kg	☼	10/24/18 07:29	10/27/18 11:55	1
Dimethyl phthalate	<0.050		0.19	0.050	mg/Kg	☼	10/24/18 07:29	10/27/18 11:55	1
Di-n-butyl phthalate	<0.059		0.19	0.059	mg/Kg	☼	10/24/18 07:29	10/27/18 11:55	1
4,6-Dinitro-2-methylphenol	<0.31		0.78	0.31	mg/Kg	☼	10/24/18 07:29	10/27/18 11:55	1
2,4-Dinitrophenol	<0.68		0.78	0.68	mg/Kg	☼	10/24/18 07:29	10/27/18 11:55	1
2,4-Dinitrotoluene	<0.061		0.19	0.061	mg/Kg	☼	10/24/18 07:29	10/27/18 11:55	1
2,6-Dinitrotoluene	<0.076		0.19	0.076	mg/Kg	☼	10/24/18 07:29	10/27/18 11:55	1
Di-n-octyl phthalate	<0.063		0.19	0.063	mg/Kg	☼	10/24/18 07:29	10/27/18 11:55	1
Fluoranthene	0.15	*	0.038	0.0072	mg/Kg	☼	10/24/18 07:29	10/27/18 11:55	1
Fluorene	<0.0054		0.038	0.0054	mg/Kg	☼	10/24/18 07:29	10/27/18 11:55	1
Hexachlorobenzene	<0.0089		0.078	0.0089	mg/Kg	☼	10/24/18 07:29	10/27/18 11:55	1
Hexachlorobutadiene	<0.061		0.19	0.061	mg/Kg	☼	10/24/18 07:29	10/27/18 11:55	1
Hexachlorocyclopentadiene	<0.22		0.78	0.22	mg/Kg	☼	10/24/18 07:29	10/27/18 11:55	1
Hexachloroethane	<0.059		0.19	0.059	mg/Kg	☼	10/24/18 07:29	10/27/18 11:55	1
Indeno[1,2,3-cd]pyrene	0.042		0.038	0.010	mg/Kg	☼	10/24/18 07:29	10/27/18 11:55	1
Isophorone	<0.043		0.19	0.043	mg/Kg	☼	10/24/18 07:29	10/27/18 11:55	1
2-Methylnaphthalene	<0.0071		0.078	0.0071	mg/Kg	☼	10/24/18 07:29	10/27/18 11:55	1
2-Methylphenol	<0.062		0.19	0.062	mg/Kg	☼	10/24/18 07:29	10/27/18 11:55	1
3 & 4 Methylphenol	<0.064		0.19	0.064	mg/Kg	☼	10/24/18 07:29	10/27/18 11:55	1
Naphthalene	<0.0059		0.038	0.0059	mg/Kg	☼	10/24/18 07:29	10/27/18 11:55	1
2-Nitroaniline	<0.052		0.19	0.052	mg/Kg	☼	10/24/18 07:29	10/27/18 11:55	1
3-Nitroaniline	<0.12		0.38	0.12	mg/Kg	☼	10/24/18 07:29	10/27/18 11:55	1
4-Nitroaniline	<0.16		0.38	0.16	mg/Kg	☼	10/24/18 07:29	10/27/18 11:55	1
Nitrobenzene	<0.0096		0.038	0.0096	mg/Kg	☼	10/24/18 07:29	10/27/18 11:55	1
2-Nitrophenol	<0.091		0.38	0.091	mg/Kg	☼	10/24/18 07:29	10/27/18 11:55	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B03 (0-5)

Lab Sample ID: 500-153334-19

Date Collected: 10/17/18 11:15

Matrix: Solid

Date Received: 10/17/18 16:40

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	<0.37		0.78	0.37	mg/Kg	☼	10/24/18 07:29	10/27/18 11:55	1
N-Nitrosodi-n-propylamine	<0.047		0.078	0.047	mg/Kg	☼	10/24/18 07:29	10/27/18 11:55	1
N-Nitrosodiphenylamine	<0.046		0.19	0.046	mg/Kg	☼	10/24/18 07:29	10/27/18 11:55	1
2,2'-oxybis[1-chloropropane]	<0.045		0.19	0.045	mg/Kg	☼	10/24/18 07:29	10/27/18 11:55	1
Pentachlorophenol	<0.62		0.78	0.62	mg/Kg	☼	10/24/18 07:29	10/27/18 11:55	1
Phenanthrene	0.061		0.038	0.0054	mg/Kg	☼	10/24/18 07:29	10/27/18 11:55	1
Phenol	<0.086		0.19	0.086	mg/Kg	☼	10/24/18 07:29	10/27/18 11:55	1
Pyrene	0.12		0.038	0.0077	mg/Kg	☼	10/24/18 07:29	10/27/18 11:55	1
1,2,4-Trichlorobenzene	<0.042		0.19	0.042	mg/Kg	☼	10/24/18 07:29	10/27/18 11:55	1
2,4,5-Trichlorophenol	<0.088 *		0.38	0.088	mg/Kg	☼	10/24/18 07:29	10/27/18 11:55	1
2,4,6-Trichlorophenol	<0.13		0.38	0.13	mg/Kg	☼	10/24/18 07:29	10/27/18 11:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	109		43 - 145	10/24/18 07:29	10/27/18 11:55	1
2-Fluorophenol	146		31 - 166	10/24/18 07:29	10/27/18 11:55	1
Nitrobenzene-d5	123		37 - 147	10/24/18 07:29	10/27/18 11:55	1
Phenol-d5	145		30 - 153	10/24/18 07:29	10/27/18 11:55	1
Terphenyl-d14	131		42 - 157	10/24/18 07:29	10/27/18 11:55	1
2,4,6-Tribromophenol	100		31 - 143	10/24/18 07:29	10/27/18 11:55	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.37	J B	1.1	0.21	mg/Kg	☼	10/24/18 08:16	10/24/18 21:03	1
Arsenic	7.3		0.55	0.19	mg/Kg	☼	10/24/18 08:16	10/24/18 21:03	1
Barium	120		0.55	0.063	mg/Kg	☼	10/24/18 08:16	10/24/18 21:03	1
Beryllium	0.66		0.22	0.051	mg/Kg	☼	10/24/18 08:16	10/24/18 21:03	1
Cadmium	0.16	B	0.11	0.020	mg/Kg	☼	10/24/18 08:16	10/24/18 21:03	1
Chromium	19		0.55	0.27	mg/Kg	☼	10/24/18 08:16	10/24/18 21:03	1
Cobalt	11		0.28	0.072	mg/Kg	☼	10/24/18 08:16	10/24/18 21:03	1
Copper	16	B	0.55	0.15	mg/Kg	☼	10/24/18 08:16	10/24/18 21:03	1
Iron	18000		11	5.7	mg/Kg	☼	10/24/18 08:16	10/24/18 21:03	1
Lead	31	B	0.28	0.13	mg/Kg	☼	10/24/18 08:16	10/24/18 21:03	1
Magnesium	10000		5.5	2.7	mg/Kg	☼	10/24/18 08:16	10/24/18 21:03	1
Calcium	15000	B	11	1.9	mg/Kg	☼	10/24/18 08:16	10/24/18 21:03	1
Manganese	590		0.55	0.080	mg/Kg	☼	10/24/18 08:16	10/24/18 21:03	1
Nickel	19		0.55	0.16	mg/Kg	☼	10/24/18 08:16	10/24/18 21:03	1
Selenium	0.34	J	0.55	0.32	mg/Kg	☼	10/24/18 08:16	10/24/18 21:03	1
Silver	0.30		0.28	0.071	mg/Kg	☼	10/24/18 08:16	10/24/18 21:03	1
Thallium	<0.27		0.55	0.27	mg/Kg	☼	10/24/18 08:16	10/24/18 21:03	1
Vanadium	33		0.28	0.065	mg/Kg	☼	10/24/18 08:16	10/24/18 21:03	1
Zinc	75		1.1	0.48	mg/Kg	☼	10/24/18 08:16	10/24/18 21:03	1
Potassium	1500		28	9.7	mg/Kg	☼	10/24/18 08:16	10/24/18 21:03	1
Sodium	1100		55	8.1	mg/Kg	☼	10/24/18 08:16	10/24/18 21:03	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		10/25/18 09:50	10/26/18 00:34	1
Barium	0.65		0.50	0.050	mg/L		10/25/18 09:50	10/26/18 00:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/25/18 09:50	10/26/18 00:34	1
Cadmium	0.0026	J	0.0050	0.0020	mg/L		10/25/18 09:50	10/26/18 00:34	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B03 (0-5)

Lab Sample ID: 500-153334-19

Date Collected: 10/17/18 11:15

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	150		5.0	0.50	mg/L		10/25/18 09:50	10/26/18 00:34	1
Chromium	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/26/18 15:53	1
Cobalt	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/26/18 00:34	1
Copper	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/26/18 00:34	1
Iron	0.22	J	0.40	0.20	mg/L		10/25/18 09:50	10/26/18 00:34	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/25/18 09:50	10/26/18 00:34	1
Magnesium	55		2.5	0.50	mg/L		10/25/18 09:50	10/26/18 00:34	1
Manganese	0.36		0.025	0.010	mg/L		10/25/18 09:50	10/26/18 00:34	1
Nickel	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/26/18 00:34	1
Potassium	4.7		2.5	0.50	mg/L		10/25/18 09:50	10/26/18 00:34	1
Selenium	<0.020		0.050	0.020	mg/L		10/25/18 09:50	10/26/18 00:34	1
Silver	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/26/18 00:34	1
Vanadium	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/26/18 00:34	1
Zinc	0.033	J	0.50	0.020	mg/L		10/25/18 09:50	10/26/18 00:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	3.1		0.025	0.010	mg/L		10/25/18 15:13	10/26/18 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		10/25/18 09:50	10/25/18 19:42	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/25/18 09:50	10/25/18 19:42	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		10/25/18 12:40	10/26/18 09:09	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.036		0.020	0.0065	mg/Kg	☼	10/23/18 15:50	10/24/18 10:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.17		0.49	0.17	mg/Kg	☼	10/25/18 17:45	10/26/18 11:44	1
pH	8.2		0.2	0.2	SU			10/24/18 16:39	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B02 (0-5)

Lab Sample ID: 500-153334-20

Date Collected: 10/17/18 11:35

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 85.0

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	☼	10/18/18 07:15	10/28/18 08:45	1
Benzene	<0.00050		0.0020	0.00050	mg/Kg	☼	10/18/18 07:15	10/28/18 08:45	1
Bromodichloromethane	<0.00040		0.0020	0.00040	mg/Kg	☼	10/18/18 07:15	10/28/18 08:45	1
Bromoform	<0.00057		0.0020	0.00057	mg/Kg	☼	10/18/18 07:15	10/28/18 08:45	1
Bromomethane	<0.0018		0.0049	0.0018	mg/Kg	☼	10/18/18 07:15	10/28/18 08:45	1
2-Butanone (MEK)	<0.0022		0.0049	0.0022	mg/Kg	☼	10/18/18 07:15	10/28/18 08:45	1
Carbon disulfide	<0.0010		0.0049	0.0010	mg/Kg	☼	10/18/18 07:15	10/28/18 08:45	1
Carbon tetrachloride	<0.00057		0.0020	0.00057	mg/Kg	☼	10/18/18 07:15	10/28/18 08:45	1
Chlorobenzene	<0.00072		0.0020	0.00072	mg/Kg	☼	10/18/18 07:15	10/28/18 08:45	1
Chloroethane	<0.0014 *		0.0049	0.0014	mg/Kg	☼	10/18/18 07:15	10/28/18 08:45	1
Chloroform	<0.00068		0.0020	0.00068	mg/Kg	☼	10/18/18 07:15	10/28/18 08:45	1
Chloromethane	<0.0020		0.0049	0.0020	mg/Kg	☼	10/18/18 07:15	10/28/18 08:45	1
cis-1,2-Dichloroethene	<0.00055		0.0020	0.00055	mg/Kg	☼	10/18/18 07:15	10/28/18 08:45	1
cis-1,3-Dichloropropene	<0.00059		0.0020	0.00059	mg/Kg	☼	10/18/18 07:15	10/28/18 08:45	1
Dibromochloromethane	<0.00064		0.0020	0.00064	mg/Kg	☼	10/18/18 07:15	10/28/18 08:45	1
1,1-Dichloroethane	<0.00067		0.0020	0.00067	mg/Kg	☼	10/18/18 07:15	10/28/18 08:45	1
1,2-Dichloroethane	<0.0015		0.0049	0.0015	mg/Kg	☼	10/18/18 07:15	10/28/18 08:45	1
1,1-Dichloroethene	<0.00067		0.0020	0.00067	mg/Kg	☼	10/18/18 07:15	10/28/18 08:45	1
1,2-Dichloropropane	<0.00050		0.0020	0.00050	mg/Kg	☼	10/18/18 07:15	10/28/18 08:45	1
1,3-Dichloropropene, Total	<0.00069		0.0020	0.00069	mg/Kg	☼	10/18/18 07:15	10/28/18 08:45	1
Ethylbenzene	<0.00093		0.0020	0.00093	mg/Kg	☼	10/18/18 07:15	10/28/18 08:45	1
2-Hexanone	<0.0015		0.0049	0.0015	mg/Kg	☼	10/18/18 07:15	10/28/18 08:45	1
Methylene Chloride	<0.0019		0.0049	0.0019	mg/Kg	☼	10/18/18 07:15	10/28/18 08:45	1
4-Methyl-2-pentanone (MIBK)	<0.0014		0.0049	0.0014	mg/Kg	☼	10/18/18 07:15	10/28/18 08:45	1
Methyl tert-butyl ether	<0.00057		0.0020	0.00057	mg/Kg	☼	10/18/18 07:15	10/28/18 08:45	1
Styrene	<0.00059		0.0020	0.00059	mg/Kg	☼	10/18/18 07:15	10/28/18 08:45	1
1,1,2,2-Tetrachloroethane	<0.00062		0.0020	0.00062	mg/Kg	☼	10/18/18 07:15	10/28/18 08:45	1
Tetrachloroethene	<0.00066		0.0020	0.00066	mg/Kg	☼	10/18/18 07:15	10/28/18 08:45	1
Toluene	<0.00049		0.0020	0.00049	mg/Kg	☼	10/18/18 07:15	10/28/18 08:45	1
trans-1,2-Dichloroethene	<0.00086		0.0020	0.00086	mg/Kg	☼	10/18/18 07:15	10/28/18 08:45	1
trans-1,3-Dichloropropene	<0.00069		0.0020	0.00069	mg/Kg	☼	10/18/18 07:15	10/28/18 08:45	1
1,1,1-Trichloroethane	<0.00065		0.0020	0.00065	mg/Kg	☼	10/18/18 07:15	10/28/18 08:45	1
1,1,2-Trichloroethane	<0.00084		0.0020	0.00084	mg/Kg	☼	10/18/18 07:15	10/28/18 08:45	1
Trichloroethene	<0.00066		0.0020	0.00066	mg/Kg	☼	10/18/18 07:15	10/28/18 08:45	1
Vinyl acetate	<0.0017		0.0049	0.0017	mg/Kg	☼	10/18/18 07:15	10/28/18 08:45	1
Vinyl chloride	<0.00086		0.0020	0.00086	mg/Kg	☼	10/18/18 07:15	10/28/18 08:45	1
Xylenes, Total	<0.00062		0.0039	0.00062	mg/Kg	☼	10/18/18 07:15	10/28/18 08:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		75 - 131	10/18/18 07:15	10/28/18 08:45	1
Dibromofluoromethane	104		75 - 126	10/18/18 07:15	10/28/18 08:45	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134	10/18/18 07:15	10/28/18 08:45	1
Toluene-d8 (Surr)	97		75 - 124	10/18/18 07:15	10/28/18 08:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.029	J	0.039	0.0070	mg/Kg	☼	10/24/18 07:29	10/27/18 19:35	1
Acenaphthylene	0.015	J	0.039	0.0051	mg/Kg	☼	10/24/18 07:29	10/27/18 19:35	1
Anthracene	0.097	*	0.039	0.0065	mg/Kg	☼	10/24/18 07:29	10/27/18 19:35	1
Benzo[a]anthracene	0.44		0.039	0.0052	mg/Kg	☼	10/24/18 07:29	10/27/18 19:35	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B02 (0-5)

Lab Sample ID: 500-153334-20

Date Collected: 10/17/18 11:35

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.56		0.039	0.0075	mg/Kg	☼	10/24/18 07:29	10/27/18 19:35	1
Benzo[b]fluoranthene	1.1		0.039	0.0084	mg/Kg	☼	10/24/18 07:29	10/27/18 19:35	1
Benzo[g,h,i]perylene	0.34		0.039	0.013	mg/Kg	☼	10/24/18 07:29	10/27/18 19:35	1
Benzo[k]fluoranthene	0.35		0.039	0.011	mg/Kg	☼	10/24/18 07:29	10/27/18 19:35	1
Bis(2-chloroethoxy)methane	<0.040		0.20	0.040	mg/Kg	☼	10/24/18 07:29	10/27/18 19:35	1
Bis(2-chloroethyl)ether	<0.058		0.20	0.058	mg/Kg	☼	10/24/18 07:29	10/27/18 19:35	1
Bis(2-ethylhexyl) phthalate	0.15 J		0.20	0.071	mg/Kg	☼	10/24/18 07:29	10/27/18 19:35	1
4-Bromophenyl phenyl ether	<0.051		0.20	0.051	mg/Kg	☼	10/24/18 07:29	10/27/18 19:35	1
Butyl benzyl phthalate	<0.074		0.20	0.074	mg/Kg	☼	10/24/18 07:29	10/27/18 19:35	1
Carbazole	<0.097		0.20	0.097	mg/Kg	☼	10/24/18 07:29	10/27/18 19:35	1
4-Chloroaniline	<0.18		0.78	0.18	mg/Kg	☼	10/24/18 07:29	10/27/18 19:35	1
4-Chloro-3-methylphenol	<0.13		0.39	0.13	mg/Kg	☼	10/24/18 07:29	10/27/18 19:35	1
2-Chloronaphthalene	<0.043		0.20	0.043	mg/Kg	☼	10/24/18 07:29	10/27/18 19:35	1
2-Chlorophenol	<0.066		0.20	0.066	mg/Kg	☼	10/24/18 07:29	10/27/18 19:35	1
4-Chlorophenyl phenyl ether	<0.045		0.20	0.045	mg/Kg	☼	10/24/18 07:29	10/27/18 19:35	1
Chrysene	0.55		0.039	0.011	mg/Kg	☼	10/24/18 07:29	10/27/18 19:35	1
Dibenz(a,h)anthracene	0.066		0.039	0.0075	mg/Kg	☼	10/24/18 07:29	10/27/18 19:35	1
Dibenzofuran	<0.045		0.20	0.045	mg/Kg	☼	10/24/18 07:29	10/27/18 19:35	1
1,2-Dichlorobenzene	<0.046		0.20	0.046	mg/Kg	☼	10/24/18 07:29	10/27/18 19:35	1
1,3-Dichlorobenzene	<0.044		0.20	0.044	mg/Kg	☼	10/24/18 07:29	10/27/18 19:35	1
1,4-Dichlorobenzene	<0.050		0.20	0.050	mg/Kg	☼	10/24/18 07:29	10/27/18 19:35	1
3,3'-Dichlorobenzidine	<0.054		0.20	0.054	mg/Kg	☼	10/24/18 07:29	10/27/18 19:35	1
2,4-Dichlorophenol	<0.092		0.39	0.092	mg/Kg	☼	10/24/18 07:29	10/27/18 19:35	1
Diethyl phthalate	<0.066		0.20	0.066	mg/Kg	☼	10/24/18 07:29	10/27/18 19:35	1
2,4-Dimethylphenol	<0.15		0.39	0.15	mg/Kg	☼	10/24/18 07:29	10/27/18 19:35	1
Dimethyl phthalate	<0.051		0.20	0.051	mg/Kg	☼	10/24/18 07:29	10/27/18 19:35	1
Di-n-butyl phthalate	<0.059		0.20	0.059	mg/Kg	☼	10/24/18 07:29	10/27/18 19:35	1
4,6-Dinitro-2-methylphenol	<0.31		0.78	0.31	mg/Kg	☼	10/24/18 07:29	10/27/18 19:35	1
2,4-Dinitrophenol	<0.68		0.78	0.68	mg/Kg	☼	10/24/18 07:29	10/27/18 19:35	1
2,4-Dinitrotoluene	<0.062		0.20	0.062	mg/Kg	☼	10/24/18 07:29	10/27/18 19:35	1
2,6-Dinitrotoluene	<0.076		0.20	0.076	mg/Kg	☼	10/24/18 07:29	10/27/18 19:35	1
Di-n-octyl phthalate	<0.063		0.20	0.063	mg/Kg	☼	10/24/18 07:29	10/27/18 19:35	1
Fluoranthene	1.2 *		0.039	0.0072	mg/Kg	☼	10/24/18 07:29	10/27/18 19:35	1
Fluorene	0.026 J		0.039	0.0055	mg/Kg	☼	10/24/18 07:29	10/27/18 19:35	1
Hexachlorobenzene	<0.0090		0.078	0.0090	mg/Kg	☼	10/24/18 07:29	10/27/18 19:35	1
Hexachlorobutadiene	<0.061		0.20	0.061	mg/Kg	☼	10/24/18 07:29	10/27/18 19:35	1
Hexachlorocyclopentadiene	<0.22		0.78	0.22	mg/Kg	☼	10/24/18 07:29	10/27/18 19:35	1
Hexachloroethane	<0.059		0.20	0.059	mg/Kg	☼	10/24/18 07:29	10/27/18 19:35	1
Indeno[1,2,3-cd]pyrene	0.24		0.039	0.010	mg/Kg	☼	10/24/18 07:29	10/27/18 19:35	1
Isophorone	<0.044		0.20	0.044	mg/Kg	☼	10/24/18 07:29	10/27/18 19:35	1
2-Methylnaphthalene	0.011 J		0.078	0.0071	mg/Kg	☼	10/24/18 07:29	10/27/18 19:35	1
2-Methylphenol	<0.062		0.20	0.062	mg/Kg	☼	10/24/18 07:29	10/27/18 19:35	1
3 & 4 Methylphenol	<0.065		0.20	0.065	mg/Kg	☼	10/24/18 07:29	10/27/18 19:35	1
Naphthalene	0.012 J		0.039	0.0060	mg/Kg	☼	10/24/18 07:29	10/27/18 19:35	1
2-Nitroaniline	<0.052		0.20	0.052	mg/Kg	☼	10/24/18 07:29	10/27/18 19:35	1
3-Nitroaniline	<0.12		0.39	0.12	mg/Kg	☼	10/24/18 07:29	10/27/18 19:35	1
4-Nitroaniline	<0.16		0.39	0.16	mg/Kg	☼	10/24/18 07:29	10/27/18 19:35	1
Nitrobenzene	<0.0097		0.039	0.0097	mg/Kg	☼	10/24/18 07:29	10/27/18 19:35	1
2-Nitrophenol	<0.092		0.39	0.092	mg/Kg	☼	10/24/18 07:29	10/27/18 19:35	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B02 (0-5)

Lab Sample ID: 500-153334-20

Date Collected: 10/17/18 11:35

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.37		0.78	0.37	mg/Kg	☼	10/24/18 07:29	10/27/18 19:35	1
N-Nitrosodi-n-propylamine	<0.047		0.078	0.047	mg/Kg	☼	10/24/18 07:29	10/27/18 19:35	1
N-Nitrosodiphenylamine	<0.046		0.20	0.046	mg/Kg	☼	10/24/18 07:29	10/27/18 19:35	1
2,2'-oxybis[1-chloropropane]	<0.045		0.20	0.045	mg/Kg	☼	10/24/18 07:29	10/27/18 19:35	1
Pentachlorophenol	<0.62		0.78	0.62	mg/Kg	☼	10/24/18 07:29	10/27/18 19:35	1
Phenanthrene	0.52		0.039	0.0054	mg/Kg	☼	10/24/18 07:29	10/27/18 19:35	1
Phenol	<0.086		0.20	0.086	mg/Kg	☼	10/24/18 07:29	10/27/18 19:35	1
Pyrene	1.6		0.039	0.0077	mg/Kg	☼	10/24/18 07:29	10/27/18 19:35	1
1,2,4-Trichlorobenzene	<0.042		0.20	0.042	mg/Kg	☼	10/24/18 07:29	10/27/18 19:35	1
2,4,5-Trichlorophenol	<0.089 *		0.39	0.089	mg/Kg	☼	10/24/18 07:29	10/27/18 19:35	1
2,4,6-Trichlorophenol	<0.13		0.39	0.13	mg/Kg	☼	10/24/18 07:29	10/27/18 19:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	112		43 - 145	10/24/18 07:29	10/27/18 19:35	1
2-Fluorophenol	172	X	31 - 166	10/24/18 07:29	10/27/18 19:35	1
Nitrobenzene-d5	121		37 - 147	10/24/18 07:29	10/27/18 19:35	1
Phenol-d5	150		30 - 153	10/24/18 07:29	10/27/18 19:35	1
Terphenyl-d14	246	X	42 - 157	10/24/18 07:29	10/27/18 19:35	1
2,4,6-Tribromophenol	129		31 - 143	10/24/18 07:29	10/27/18 19:35	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.36	J B	1.2	0.23	mg/Kg	☼	10/24/18 08:16	10/24/18 21:07	1
Arsenic	6.1		0.59	0.20	mg/Kg	☼	10/24/18 08:16	10/24/18 21:07	1
Barium	120		0.59	0.067	mg/Kg	☼	10/24/18 08:16	10/24/18 21:07	1
Beryllium	0.60		0.23	0.055	mg/Kg	☼	10/24/18 08:16	10/24/18 21:07	1
Cadmium	0.27	B	0.12	0.021	mg/Kg	☼	10/24/18 08:16	10/24/18 21:07	1
Chromium	29		0.59	0.29	mg/Kg	☼	10/24/18 08:16	10/24/18 21:07	1
Cobalt	9.0		0.29	0.077	mg/Kg	☼	10/24/18 08:16	10/24/18 21:07	1
Copper	24	B	0.59	0.16	mg/Kg	☼	10/24/18 08:16	10/24/18 21:07	1
Iron	20000		12	6.1	mg/Kg	☼	10/24/18 08:16	10/24/18 21:07	1
Lead	45	B	0.29	0.14	mg/Kg	☼	10/24/18 08:16	10/24/18 21:07	1
Magnesium	37000		5.9	2.9	mg/Kg	☼	10/24/18 08:16	10/24/18 21:07	1
Calcium	76000	B	59	10	mg/Kg	☼	10/24/18 08:16	10/25/18 13:00	5
Manganese	610		0.59	0.085	mg/Kg	☼	10/24/18 08:16	10/24/18 21:07	1
Nickel	19		0.59	0.17	mg/Kg	☼	10/24/18 08:16	10/24/18 21:07	1
Selenium	<0.35		0.59	0.35	mg/Kg	☼	10/24/18 08:16	10/24/18 21:07	1
Silver	0.26	J	0.29	0.076	mg/Kg	☼	10/24/18 08:16	10/24/18 21:07	1
Thallium	<0.29		0.59	0.29	mg/Kg	☼	10/24/18 08:16	10/24/18 21:07	1
Vanadium	29		0.29	0.069	mg/Kg	☼	10/24/18 08:16	10/24/18 21:07	1
Zinc	100		1.2	0.52	mg/Kg	☼	10/24/18 08:16	10/24/18 21:07	1
Potassium	1300		29	10	mg/Kg	☼	10/24/18 08:16	10/24/18 21:07	1
Sodium	1000		59	8.7	mg/Kg	☼	10/24/18 08:16	10/24/18 21:07	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		10/25/18 09:50	10/26/18 00:38	1
Barium	0.78		0.50	0.050	mg/L		10/25/18 09:50	10/26/18 00:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/25/18 09:50	10/26/18 00:38	1
Cadmium	0.0038	J	0.0050	0.0020	mg/L		10/25/18 09:50	10/26/18 00:38	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B02 (0-5)

Lab Sample ID: 500-153334-20

Date Collected: 10/17/18 11:35

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	350		5.0	0.50	mg/L		10/25/18 09:50	10/26/18 00:38	1
Chromium	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/26/18 15:57	1
Cobalt	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/26/18 00:38	1
Copper	0.027		0.025	0.010	mg/L		10/25/18 09:50	10/26/18 00:38	1
Iron	<0.20		0.40	0.20	mg/L		10/25/18 09:50	10/26/18 00:38	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/25/18 09:50	10/26/18 00:38	1
Magnesium	110		2.5	0.50	mg/L		10/25/18 09:50	10/26/18 00:38	1
Manganese	1.6		0.025	0.010	mg/L		10/25/18 09:50	10/26/18 00:38	1
Nickel	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/26/18 00:38	1
Potassium	3.3		2.5	0.50	mg/L		10/25/18 09:50	10/26/18 00:38	1
Selenium	<0.020		0.050	0.020	mg/L		10/25/18 09:50	10/26/18 00:38	1
Silver	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/26/18 00:38	1
Vanadium	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/26/18 00:38	1
Zinc	0.19	J	0.50	0.020	mg/L		10/25/18 09:50	10/26/18 00:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.9		0.025	0.010	mg/L		10/25/18 15:13	10/26/18 18:02	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		10/25/18 09:50	10/25/18 19:43	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/25/18 09:50	10/25/18 19:43	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		10/25/18 12:40	10/26/18 09:11	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.036	B	0.019	0.0064	mg/Kg	☼	10/24/18 16:40	10/25/18 11:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.20		0.58	0.20	mg/Kg	☼	10/25/18 17:45	10/26/18 11:44	1
pH	8.4		0.2	0.2	SU			10/24/18 16:39	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B02 (0-5) Dup

Lab Sample ID: 500-153334-21

Date Collected: 10/17/18 11:40

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 86.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0095		0.022	0.0095	mg/Kg	☼	10/18/18 07:15	10/28/18 09:11	1
Benzene	<0.00056		0.0022	0.00056	mg/Kg	☼	10/18/18 07:15	10/28/18 09:11	1
Bromodichloromethane	<0.00044		0.0022	0.00044	mg/Kg	☼	10/18/18 07:15	10/28/18 09:11	1
Bromoform	<0.00064		0.0022	0.00064	mg/Kg	☼	10/18/18 07:15	10/28/18 09:11	1
Bromomethane	<0.0021		0.0055	0.0021	mg/Kg	☼	10/18/18 07:15	10/28/18 09:11	1
2-Butanone (MEK)	<0.0024		0.0055	0.0024	mg/Kg	☼	10/18/18 07:15	10/28/18 09:11	1
Carbon disulfide	<0.0011		0.0055	0.0011	mg/Kg	☼	10/18/18 07:15	10/28/18 09:11	1
Carbon tetrachloride	<0.00063		0.0022	0.00063	mg/Kg	☼	10/18/18 07:15	10/28/18 09:11	1
Chlorobenzene	<0.00081		0.0022	0.00081	mg/Kg	☼	10/18/18 07:15	10/28/18 09:11	1
Chloroethane	<0.0016	*	0.0055	0.0016	mg/Kg	☼	10/18/18 07:15	10/28/18 09:11	1
Chloroform	<0.00076		0.0022	0.00076	mg/Kg	☼	10/18/18 07:15	10/28/18 09:11	1
Chloromethane	<0.0022		0.0055	0.0022	mg/Kg	☼	10/18/18 07:15	10/28/18 09:11	1
cis-1,2-Dichloroethene	<0.00061		0.0022	0.00061	mg/Kg	☼	10/18/18 07:15	10/28/18 09:11	1
cis-1,3-Dichloropropene	<0.00066		0.0022	0.00066	mg/Kg	☼	10/18/18 07:15	10/28/18 09:11	1
Dibromochloromethane	<0.00071		0.0022	0.00071	mg/Kg	☼	10/18/18 07:15	10/28/18 09:11	1
1,1-Dichloroethane	<0.00075		0.0022	0.00075	mg/Kg	☼	10/18/18 07:15	10/28/18 09:11	1
1,2-Dichloroethane	<0.0017		0.0055	0.0017	mg/Kg	☼	10/18/18 07:15	10/28/18 09:11	1
1,1-Dichloroethene	<0.00075		0.0022	0.00075	mg/Kg	☼	10/18/18 07:15	10/28/18 09:11	1
1,2-Dichloropropane	<0.00056		0.0022	0.00056	mg/Kg	☼	10/18/18 07:15	10/28/18 09:11	1
1,3-Dichloropropane, Total	<0.00077		0.0022	0.00077	mg/Kg	☼	10/18/18 07:15	10/28/18 09:11	1
Ethylbenzene	<0.0010		0.0022	0.0010	mg/Kg	☼	10/18/18 07:15	10/28/18 09:11	1
2-Hexanone	<0.0017		0.0055	0.0017	mg/Kg	☼	10/18/18 07:15	10/28/18 09:11	1
Methylene Chloride	<0.0021		0.0055	0.0021	mg/Kg	☼	10/18/18 07:15	10/28/18 09:11	1
4-Methyl-2-pentanone (MIBK)	<0.0016		0.0055	0.0016	mg/Kg	☼	10/18/18 07:15	10/28/18 09:11	1
Methyl tert-butyl ether	<0.00064		0.0022	0.00064	mg/Kg	☼	10/18/18 07:15	10/28/18 09:11	1
Styrene	<0.00066		0.0022	0.00066	mg/Kg	☼	10/18/18 07:15	10/28/18 09:11	1
1,1,2,2-Tetrachloroethane	<0.00070		0.0022	0.00070	mg/Kg	☼	10/18/18 07:15	10/28/18 09:11	1
Tetrachloroethene	<0.00074		0.0022	0.00074	mg/Kg	☼	10/18/18 07:15	10/28/18 09:11	1
Toluene	<0.00055		0.0022	0.00055	mg/Kg	☼	10/18/18 07:15	10/28/18 09:11	1
trans-1,2-Dichloroethene	<0.00097		0.0022	0.00097	mg/Kg	☼	10/18/18 07:15	10/28/18 09:11	1
trans-1,3-Dichloropropene	<0.00077		0.0022	0.00077	mg/Kg	☼	10/18/18 07:15	10/28/18 09:11	1
1,1,1-Trichloroethane	<0.00073		0.0022	0.00073	mg/Kg	☼	10/18/18 07:15	10/28/18 09:11	1
1,1,2-Trichloroethane	<0.00094		0.0022	0.00094	mg/Kg	☼	10/18/18 07:15	10/28/18 09:11	1
Trichloroethene	<0.00074		0.0022	0.00074	mg/Kg	☼	10/18/18 07:15	10/28/18 09:11	1
Vinyl acetate	<0.0019		0.0055	0.0019	mg/Kg	☼	10/18/18 07:15	10/28/18 09:11	1
Vinyl chloride	<0.00097		0.0022	0.00097	mg/Kg	☼	10/18/18 07:15	10/28/18 09:11	1
Xylenes, Total	<0.00070		0.0044	0.00070	mg/Kg	☼	10/18/18 07:15	10/28/18 09:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		75 - 131	10/18/18 07:15	10/28/18 09:11	1
Dibromofluoromethane	104		75 - 126	10/18/18 07:15	10/28/18 09:11	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 134	10/18/18 07:15	10/28/18 09:11	1
Toluene-d8 (Surr)	96		75 - 124	10/18/18 07:15	10/28/18 09:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.028	J	0.037	0.0068	mg/Kg	☼	10/24/18 07:38	10/26/18 19:55	1
Acenaphthylene	0.018	J	0.037	0.0050	mg/Kg	☼	10/24/18 07:38	10/26/18 19:55	1
Anthracene	0.086		0.037	0.0063	mg/Kg	☼	10/24/18 07:38	10/26/18 19:55	1
Benzo[a]anthracene	0.50		0.037	0.0051	mg/Kg	☼	10/24/18 07:38	10/26/18 19:55	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B02 (0-5) Dup

Lab Sample ID: 500-153334-21

Date Collected: 10/17/18 11:40

Matrix: Solid

Date Received: 10/17/18 16:40

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	0.65		0.037	0.0073	mg/Kg	☼	10/24/18 07:38	10/26/18 19:55	1
Benzo[b]fluoranthene	1.1		0.037	0.0081	mg/Kg	☼	10/24/18 07:38	10/26/18 19:55	1
Benzo[g,h,i]perylene	0.29		0.037	0.012	mg/Kg	☼	10/24/18 07:38	10/26/18 19:55	1
Benzo[k]fluoranthene	0.46		0.037	0.011	mg/Kg	☼	10/24/18 07:38	10/26/18 19:55	1
Bis(2-chloroethoxy)methane	<0.038		0.19	0.038	mg/Kg	☼	10/24/18 07:38	10/26/18 19:55	1
Bis(2-chloroethyl)ether	<0.056		0.19	0.056	mg/Kg	☼	10/24/18 07:38	10/26/18 19:55	1
Bis(2-ethylhexyl) phthalate	0.11	J	0.19	0.069	mg/Kg	☼	10/24/18 07:38	10/26/18 19:55	1
4-Bromophenyl phenyl ether	<0.050		0.19	0.050	mg/Kg	☼	10/24/18 07:38	10/26/18 19:55	1
Butyl benzyl phthalate	0.074	J	0.19	0.072	mg/Kg	☼	10/24/18 07:38	10/26/18 19:55	1
Carbazole	<0.094		0.19	0.094	mg/Kg	☼	10/24/18 07:38	10/26/18 19:55	1
4-Chloroaniline	<0.18		0.76	0.18	mg/Kg	☼	10/24/18 07:38	10/26/18 19:55	1
4-Chloro-3-methylphenol	<0.13		0.37	0.13	mg/Kg	☼	10/24/18 07:38	10/26/18 19:55	1
2-Chloronaphthalene	<0.042		0.19	0.042	mg/Kg	☼	10/24/18 07:38	10/26/18 19:55	1
2-Chlorophenol	<0.064		0.19	0.064	mg/Kg	☼	10/24/18 07:38	10/26/18 19:55	1
4-Chlorophenyl phenyl ether	<0.044		0.19	0.044	mg/Kg	☼	10/24/18 07:38	10/26/18 19:55	1
Chrysene	0.62		0.037	0.010	mg/Kg	☼	10/24/18 07:38	10/26/18 19:55	1
Dibenz(a,h)anthracene	0.072		0.037	0.0073	mg/Kg	☼	10/24/18 07:38	10/26/18 19:55	1
Dibenzofuran	<0.044		0.19	0.044	mg/Kg	☼	10/24/18 07:38	10/26/18 19:55	1
1,2-Dichlorobenzene	<0.045		0.19	0.045	mg/Kg	☼	10/24/18 07:38	10/26/18 19:55	1
1,3-Dichlorobenzene	<0.042		0.19	0.042	mg/Kg	☼	10/24/18 07:38	10/26/18 19:55	1
1,4-Dichlorobenzene	<0.048		0.19	0.048	mg/Kg	☼	10/24/18 07:38	10/26/18 19:55	1
3,3'-Dichlorobenzidine	<0.053		0.19	0.053	mg/Kg	☼	10/24/18 07:38	10/26/18 19:55	1
2,4-Dichlorophenol	<0.089		0.37	0.089	mg/Kg	☼	10/24/18 07:38	10/26/18 19:55	1
Diethyl phthalate	<0.064		0.19	0.064	mg/Kg	☼	10/24/18 07:38	10/26/18 19:55	1
2,4-Dimethylphenol	<0.14		0.37	0.14	mg/Kg	☼	10/24/18 07:38	10/26/18 19:55	1
Dimethyl phthalate	<0.049		0.19	0.049	mg/Kg	☼	10/24/18 07:38	10/26/18 19:55	1
Di-n-butyl phthalate	<0.057		0.19	0.057	mg/Kg	☼	10/24/18 07:38	10/26/18 19:55	1
4,6-Dinitro-2-methylphenol	<0.30		0.76	0.30	mg/Kg	☼	10/24/18 07:38	10/26/18 19:55	1
2,4-Dinitrophenol	<0.66		0.76	0.66	mg/Kg	☼	10/24/18 07:38	10/26/18 19:55	1
2,4-Dinitrotoluene	<0.060		0.19	0.060	mg/Kg	☼	10/24/18 07:38	10/26/18 19:55	1
2,6-Dinitrotoluene	<0.074		0.19	0.074	mg/Kg	☼	10/24/18 07:38	10/26/18 19:55	1
Di-n-octyl phthalate	<0.061		0.19	0.061	mg/Kg	☼	10/24/18 07:38	10/26/18 19:55	1
Fluoranthene	1.2		0.037	0.0070	mg/Kg	☼	10/24/18 07:38	10/26/18 19:55	1
Fluorene	0.022	J	0.037	0.0053	mg/Kg	☼	10/24/18 07:38	10/26/18 19:55	1
Hexachlorobenzene	<0.0087		0.076	0.0087	mg/Kg	☼	10/24/18 07:38	10/26/18 19:55	1
Hexachlorobutadiene	<0.059		0.19	0.059	mg/Kg	☼	10/24/18 07:38	10/26/18 19:55	1
Hexachlorocyclopentadiene	<0.22		0.76	0.22	mg/Kg	☼	10/24/18 07:38	10/26/18 19:55	1
Hexachloroethane	<0.057		0.19	0.057	mg/Kg	☼	10/24/18 07:38	10/26/18 19:55	1
Indeno[1,2,3-cd]pyrene	0.25		0.037	0.0098	mg/Kg	☼	10/24/18 07:38	10/26/18 19:55	1
Isophorone	<0.042		0.19	0.042	mg/Kg	☼	10/24/18 07:38	10/26/18 19:55	1
2-Methylnaphthalene	0.015	J	0.076	0.0069	mg/Kg	☼	10/24/18 07:38	10/26/18 19:55	1
2-Methylphenol	<0.060		0.19	0.060	mg/Kg	☼	10/24/18 07:38	10/26/18 19:55	1
3 & 4 Methylphenol	<0.063		0.19	0.063	mg/Kg	☼	10/24/18 07:38	10/26/18 19:55	1
Naphthalene	0.013	J	0.037	0.0058	mg/Kg	☼	10/24/18 07:38	10/26/18 19:55	1
2-Nitroaniline	<0.051		0.19	0.051	mg/Kg	☼	10/24/18 07:38	10/26/18 19:55	1
3-Nitroaniline	<0.12		0.37	0.12	mg/Kg	☼	10/24/18 07:38	10/26/18 19:55	1
4-Nitroaniline	<0.16		0.37	0.16	mg/Kg	☼	10/24/18 07:38	10/26/18 19:55	1
Nitrobenzene	<0.0094		0.037	0.0094	mg/Kg	☼	10/24/18 07:38	10/26/18 19:55	1
2-Nitrophenol	<0.089		0.37	0.089	mg/Kg	☼	10/24/18 07:38	10/26/18 19:55	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B02 (0-5) Dup

Lab Sample ID: 500-153334-21

Date Collected: 10/17/18 11:40

Matrix: Solid

Date Received: 10/17/18 16:40

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		0.76	0.36	mg/Kg	☼	10/24/18 07:38	10/26/18 19:55	1
N-Nitrosodi-n-propylamine	<0.046		0.076	0.046	mg/Kg	☼	10/24/18 07:38	10/26/18 19:55	1
N-Nitrosodiphenylamine	<0.044		0.19	0.044	mg/Kg	☼	10/24/18 07:38	10/26/18 19:55	1
2,2'-oxybis[1-chloropropane]	<0.044		0.19	0.044	mg/Kg	☼	10/24/18 07:38	10/26/18 19:55	1
Pentachlorophenol	<0.60		0.76	0.60	mg/Kg	☼	10/24/18 07:38	10/26/18 19:55	1
Phenanthrene	0.46		0.037	0.0053	mg/Kg	☼	10/24/18 07:38	10/26/18 19:55	1
Phenol	<0.084		0.19	0.084	mg/Kg	☼	10/24/18 07:38	10/26/18 19:55	1
Pyrene	1.3		0.037	0.0075	mg/Kg	☼	10/24/18 07:38	10/26/18 19:55	1
1,2,4-Trichlorobenzene	<0.041		0.19	0.041	mg/Kg	☼	10/24/18 07:38	10/26/18 19:55	1
2,4,5-Trichlorophenol	<0.086		0.37	0.086	mg/Kg	☼	10/24/18 07:38	10/26/18 19:55	1
2,4,6-Trichlorophenol	<0.13		0.37	0.13	mg/Kg	☼	10/24/18 07:38	10/26/18 19:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	117		43 - 145	10/24/18 07:38	10/26/18 19:55	1
2-Fluorophenol	119		31 - 166	10/24/18 07:38	10/26/18 19:55	1
Nitrobenzene-d5	91		37 - 147	10/24/18 07:38	10/26/18 19:55	1
Phenol-d5	114		30 - 153	10/24/18 07:38	10/26/18 19:55	1
Terphenyl-d14	195	X	42 - 157	10/24/18 07:38	10/26/18 19:55	1
2,4,6-Tribromophenol	131		31 - 143	10/24/18 07:38	10/26/18 19:55	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.81	J B	1.1	0.22	mg/Kg	☼	10/24/18 08:37	10/25/18 01:07	1
Arsenic	5.7		0.57	0.20	mg/Kg	☼	10/24/18 08:37	10/25/18 01:07	1
Barium	110		0.57	0.065	mg/Kg	☼	10/24/18 08:37	10/25/18 01:07	1
Beryllium	0.54		0.23	0.054	mg/Kg	☼	10/24/18 08:37	10/25/18 01:07	1
Cadmium	0.36	B	0.11	0.021	mg/Kg	☼	10/24/18 08:37	10/25/18 01:07	1
Chromium	23	B	0.57	0.28	mg/Kg	☼	10/24/18 08:37	10/25/18 01:07	1
Cobalt	7.3		0.29	0.075	mg/Kg	☼	10/24/18 08:37	10/25/18 01:07	1
Copper	24	B	0.57	0.16	mg/Kg	☼	10/24/18 08:37	10/25/18 01:07	1
Iron	15000		11	6.0	mg/Kg	☼	10/24/18 08:37	10/25/18 01:07	1
Lead	63		0.29	0.13	mg/Kg	☼	10/24/18 08:37	10/25/18 01:07	1
Magnesium	32000		5.7	2.8	mg/Kg	☼	10/24/18 08:37	10/25/18 01:07	1
Calcium	69000	B	57	9.7	mg/Kg	☼	10/24/18 08:37	10/25/18 13:19	5
Manganese	560		0.57	0.083	mg/Kg	☼	10/24/18 08:37	10/25/18 01:07	1
Nickel	17		0.57	0.17	mg/Kg	☼	10/24/18 08:37	10/25/18 01:07	1
Selenium	<0.34		0.57	0.34	mg/Kg	☼	10/24/18 08:37	10/25/18 01:07	1
Silver	0.23	J	0.29	0.074	mg/Kg	☼	10/24/18 08:37	10/25/18 01:07	1
Thallium	<0.29		0.57	0.29	mg/Kg	☼	10/24/18 08:37	10/25/18 01:07	1
Vanadium	27		0.29	0.068	mg/Kg	☼	10/24/18 08:37	10/25/18 01:07	1
Zinc	110		1.1	0.50	mg/Kg	☼	10/24/18 08:37	10/25/18 01:07	1
Potassium	1300		29	10	mg/Kg	☼	10/24/18 08:37	10/25/18 01:07	1
Sodium	1100		57	8.5	mg/Kg	☼	10/24/18 08:37	10/25/18 01:07	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		10/25/18 15:16	10/26/18 11:57	1
Barium	0.77		0.50	0.050	mg/L		10/25/18 15:16	10/26/18 11:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/25/18 15:16	10/26/18 11:57	1
Cadmium	0.0027	J	0.0050	0.0020	mg/L		10/25/18 15:16	10/26/18 11:57	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B02 (0-5) Dup

Lab Sample ID: 500-153334-21

Date Collected: 10/17/18 11:40

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 86.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	360		5.0	0.50	mg/L		10/25/18 15:16	10/26/18 11:57	1
Chromium	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 11:57	1
Cobalt	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 11:57	1
Copper	0.023	J	0.025	0.010	mg/L		10/25/18 15:16	10/26/18 11:57	1
Iron	<0.20		0.40	0.20	mg/L		10/25/18 15:16	10/26/18 11:57	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/25/18 15:16	10/26/18 11:57	1
Magnesium	110		2.5	0.50	mg/L		10/25/18 15:16	10/26/18 11:57	1
Manganese	1.1		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 11:57	1
Nickel	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 11:57	1
Potassium	5.4		2.5	0.50	mg/L		10/25/18 15:16	10/26/18 11:57	1
Selenium	<0.020		0.050	0.020	mg/L		10/25/18 15:16	10/26/18 11:57	1
Silver	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 11:57	1
Vanadium	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 11:57	1
Zinc	0.11	J	0.50	0.020	mg/L		10/25/18 15:16	10/26/18 11:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.6		0.025	0.010	mg/L		10/29/18 08:53	10/29/18 18:40	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		10/25/18 15:16	10/26/18 12:41	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/25/18 15:16	10/26/18 12:41	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		10/25/18 12:40	10/26/18 09:24	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034		0.018	0.0059	mg/Kg	☼	10/24/18 16:40	10/25/18 08:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.18		0.52	0.18	mg/Kg	☼	10/26/18 11:10	10/26/18 15:22	1
pH	8.4		0.2	0.2	SU			10/24/18 16:39	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B01 (0-5)

Lab Sample ID: 500-153334-22

Date Collected: 10/17/18 12:00

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0094		0.022	0.0094	mg/Kg	☼	10/18/18 07:15	10/28/18 09:37	1
Benzene	<0.00055		0.0022	0.00055	mg/Kg	☼	10/18/18 07:15	10/28/18 09:37	1
Bromodichloromethane	<0.00044		0.0022	0.00044	mg/Kg	☼	10/18/18 07:15	10/28/18 09:37	1
Bromoform	<0.00063		0.0022	0.00063	mg/Kg	☼	10/18/18 07:15	10/28/18 09:37	1
Bromomethane	<0.0020		0.0054	0.0020	mg/Kg	☼	10/18/18 07:15	10/28/18 09:37	1
2-Butanone (MEK)	<0.0024		0.0054	0.0024	mg/Kg	☼	10/18/18 07:15	10/28/18 09:37	1
Carbon disulfide	<0.0011		0.0054	0.0011	mg/Kg	☼	10/18/18 07:15	10/28/18 09:37	1
Carbon tetrachloride	<0.00063		0.0022	0.00063	mg/Kg	☼	10/18/18 07:15	10/28/18 09:37	1
Chlorobenzene	<0.00080		0.0022	0.00080	mg/Kg	☼	10/18/18 07:15	10/28/18 09:37	1
Chloroethane	<0.0016	*	0.0054	0.0016	mg/Kg	☼	10/18/18 07:15	10/28/18 09:37	1
Chloroform	<0.00075		0.0022	0.00075	mg/Kg	☼	10/18/18 07:15	10/28/18 09:37	1
Chloromethane	<0.0022		0.0054	0.0022	mg/Kg	☼	10/18/18 07:15	10/28/18 09:37	1
cis-1,2-Dichloroethene	<0.00061		0.0022	0.00061	mg/Kg	☼	10/18/18 07:15	10/28/18 09:37	1
cis-1,3-Dichloropropene	<0.00065		0.0022	0.00065	mg/Kg	☼	10/18/18 07:15	10/28/18 09:37	1
Dibromochloromethane	<0.00071		0.0022	0.00071	mg/Kg	☼	10/18/18 07:15	10/28/18 09:37	1
1,1-Dichloroethane	<0.00074		0.0022	0.00074	mg/Kg	☼	10/18/18 07:15	10/28/18 09:37	1
1,2-Dichloroethane	<0.0017		0.0054	0.0017	mg/Kg	☼	10/18/18 07:15	10/28/18 09:37	1
1,1-Dichloroethene	<0.00074		0.0022	0.00074	mg/Kg	☼	10/18/18 07:15	10/28/18 09:37	1
1,2-Dichloropropane	<0.00056		0.0022	0.00056	mg/Kg	☼	10/18/18 07:15	10/28/18 09:37	1
1,3-Dichloropropane, Total	<0.00076		0.0022	0.00076	mg/Kg	☼	10/18/18 07:15	10/28/18 09:37	1
Ethylbenzene	<0.0010		0.0022	0.0010	mg/Kg	☼	10/18/18 07:15	10/28/18 09:37	1
2-Hexanone	<0.0017		0.0054	0.0017	mg/Kg	☼	10/18/18 07:15	10/28/18 09:37	1
Methylene Chloride	<0.0021		0.0054	0.0021	mg/Kg	☼	10/18/18 07:15	10/28/18 09:37	1
4-Methyl-2-pentanone (MIBK)	<0.0016		0.0054	0.0016	mg/Kg	☼	10/18/18 07:15	10/28/18 09:37	1
Methyl tert-butyl ether	<0.00064		0.0022	0.00064	mg/Kg	☼	10/18/18 07:15	10/28/18 09:37	1
Styrene	<0.00065		0.0022	0.00065	mg/Kg	☼	10/18/18 07:15	10/28/18 09:37	1
1,1,2,2-Tetrachloroethane	<0.00069		0.0022	0.00069	mg/Kg	☼	10/18/18 07:15	10/28/18 09:37	1
Tetrachloroethene	<0.00074		0.0022	0.00074	mg/Kg	☼	10/18/18 07:15	10/28/18 09:37	1
Toluene	<0.00055		0.0022	0.00055	mg/Kg	☼	10/18/18 07:15	10/28/18 09:37	1
trans-1,2-Dichloroethene	<0.00096		0.0022	0.00096	mg/Kg	☼	10/18/18 07:15	10/28/18 09:37	1
trans-1,3-Dichloropropene	<0.00076		0.0022	0.00076	mg/Kg	☼	10/18/18 07:15	10/28/18 09:37	1
1,1,1-Trichloroethane	<0.00073		0.0022	0.00073	mg/Kg	☼	10/18/18 07:15	10/28/18 09:37	1
1,1,2-Trichloroethane	<0.00093		0.0022	0.00093	mg/Kg	☼	10/18/18 07:15	10/28/18 09:37	1
Trichloroethene	<0.00073		0.0022	0.00073	mg/Kg	☼	10/18/18 07:15	10/28/18 09:37	1
Vinyl acetate	<0.0019		0.0054	0.0019	mg/Kg	☼	10/18/18 07:15	10/28/18 09:37	1
Vinyl chloride	<0.00096		0.0022	0.00096	mg/Kg	☼	10/18/18 07:15	10/28/18 09:37	1
Xylenes, Total	<0.00069		0.0043	0.00069	mg/Kg	☼	10/18/18 07:15	10/28/18 09:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		75 - 131	10/18/18 07:15	10/28/18 09:37	1
Dibromofluoromethane	102		75 - 126	10/18/18 07:15	10/28/18 09:37	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 134	10/18/18 07:15	10/28/18 09:37	1
Toluene-d8 (Surr)	96		75 - 124	10/18/18 07:15	10/28/18 09:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0070		0.038	0.0070	mg/Kg	☼	10/24/18 07:38	10/26/18 15:36	1
Acenaphthylene	<0.0051		0.038	0.0051	mg/Kg	☼	10/24/18 07:38	10/26/18 15:36	1
Anthracene	<0.0065		0.038	0.0065	mg/Kg	☼	10/24/18 07:38	10/26/18 15:36	1
Benzo[a]anthracene	<0.0052		0.038	0.0052	mg/Kg	☼	10/24/18 07:38	10/26/18 15:36	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B01 (0-5)

Lab Sample ID: 500-153334-22

Date Collected: 10/17/18 12:00

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.0095	J	0.038	0.0075	mg/Kg	☼	10/24/18 07:38	10/26/18 15:36	1
Benzo[b]fluoranthene	0.013	J	0.038	0.0083	mg/Kg	☼	10/24/18 07:38	10/26/18 15:36	1
Benzo[g,h,i]perylene	<0.012		0.038	0.012	mg/Kg	☼	10/24/18 07:38	10/26/18 15:36	1
Benzo[k]fluoranthene	<0.011		0.038	0.011	mg/Kg	☼	10/24/18 07:38	10/26/18 15:36	1
Bis(2-chloroethoxy)methane	<0.039		0.19	0.039	mg/Kg	☼	10/24/18 07:38	10/26/18 15:36	1
Bis(2-chloroethyl)ether	<0.058		0.19	0.058	mg/Kg	☼	10/24/18 07:38	10/26/18 15:36	1
Bis(2-ethylhexyl) phthalate	<0.071		0.19	0.071	mg/Kg	☼	10/24/18 07:38	10/26/18 15:36	1
4-Bromophenyl phenyl ether	<0.051		0.19	0.051	mg/Kg	☼	10/24/18 07:38	10/26/18 15:36	1
Butyl benzyl phthalate	<0.074		0.19	0.074	mg/Kg	☼	10/24/18 07:38	10/26/18 15:36	1
Carbazole	<0.097		0.19	0.097	mg/Kg	☼	10/24/18 07:38	10/26/18 15:36	1
4-Chloroaniline	<0.18		0.78	0.18	mg/Kg	☼	10/24/18 07:38	10/26/18 15:36	1
4-Chloro-3-methylphenol	<0.13		0.38	0.13	mg/Kg	☼	10/24/18 07:38	10/26/18 15:36	1
2-Chloronaphthalene	<0.043		0.19	0.043	mg/Kg	☼	10/24/18 07:38	10/26/18 15:36	1
2-Chlorophenol	<0.066		0.19	0.066	mg/Kg	☼	10/24/18 07:38	10/26/18 15:36	1
4-Chlorophenyl phenyl ether	<0.045		0.19	0.045	mg/Kg	☼	10/24/18 07:38	10/26/18 15:36	1
Chrysene	<0.011		0.038	0.011	mg/Kg	☼	10/24/18 07:38	10/26/18 15:36	1
Dibenz(a,h)anthracene	0.0089	J	0.038	0.0075	mg/Kg	☼	10/24/18 07:38	10/26/18 15:36	1
Dibenzofuran	<0.045		0.19	0.045	mg/Kg	☼	10/24/18 07:38	10/26/18 15:36	1
1,2-Dichlorobenzene	<0.046		0.19	0.046	mg/Kg	☼	10/24/18 07:38	10/26/18 15:36	1
1,3-Dichlorobenzene	<0.044		0.19	0.044	mg/Kg	☼	10/24/18 07:38	10/26/18 15:36	1
1,4-Dichlorobenzene	<0.050		0.19	0.050	mg/Kg	☼	10/24/18 07:38	10/26/18 15:36	1
3,3'-Dichlorobenzidine	<0.054		0.19	0.054	mg/Kg	☼	10/24/18 07:38	10/26/18 15:36	1
2,4-Dichlorophenol	<0.092		0.38	0.092	mg/Kg	☼	10/24/18 07:38	10/26/18 15:36	1
Diethyl phthalate	<0.066		0.19	0.066	mg/Kg	☼	10/24/18 07:38	10/26/18 15:36	1
2,4-Dimethylphenol	<0.15		0.38	0.15	mg/Kg	☼	10/24/18 07:38	10/26/18 15:36	1
Dimethyl phthalate	<0.051		0.19	0.051	mg/Kg	☼	10/24/18 07:38	10/26/18 15:36	1
Di-n-butyl phthalate	<0.059		0.19	0.059	mg/Kg	☼	10/24/18 07:38	10/26/18 15:36	1
4,6-Dinitro-2-methylphenol	<0.31		0.78	0.31	mg/Kg	☼	10/24/18 07:38	10/26/18 15:36	1
2,4-Dinitrophenol	<0.68		0.78	0.68	mg/Kg	☼	10/24/18 07:38	10/26/18 15:36	1
2,4-Dinitrotoluene	<0.061		0.19	0.061	mg/Kg	☼	10/24/18 07:38	10/26/18 15:36	1
2,6-Dinitrotoluene	<0.076		0.19	0.076	mg/Kg	☼	10/24/18 07:38	10/26/18 15:36	1
Di-n-octyl phthalate	<0.063		0.19	0.063	mg/Kg	☼	10/24/18 07:38	10/26/18 15:36	1
Fluoranthene	<0.0072		0.038	0.0072	mg/Kg	☼	10/24/18 07:38	10/26/18 15:36	1
Fluorene	<0.0054		0.038	0.0054	mg/Kg	☼	10/24/18 07:38	10/26/18 15:36	1
Hexachlorobenzene	<0.0090		0.078	0.0090	mg/Kg	☼	10/24/18 07:38	10/26/18 15:36	1
Hexachlorobutadiene	<0.061		0.19	0.061	mg/Kg	☼	10/24/18 07:38	10/26/18 15:36	1
Hexachlorocyclopentadiene	<0.22		0.78	0.22	mg/Kg	☼	10/24/18 07:38	10/26/18 15:36	1
Hexachloroethane	<0.059		0.19	0.059	mg/Kg	☼	10/24/18 07:38	10/26/18 15:36	1
Indeno[1,2,3-cd]pyrene	<0.010		0.038	0.010	mg/Kg	☼	10/24/18 07:38	10/26/18 15:36	1
Isophorone	<0.043		0.19	0.043	mg/Kg	☼	10/24/18 07:38	10/26/18 15:36	1
2-Methylnaphthalene	<0.0071		0.078	0.0071	mg/Kg	☼	10/24/18 07:38	10/26/18 15:36	1
2-Methylphenol	<0.062		0.19	0.062	mg/Kg	☼	10/24/18 07:38	10/26/18 15:36	1
3 & 4 Methylphenol	<0.065		0.19	0.065	mg/Kg	☼	10/24/18 07:38	10/26/18 15:36	1
Naphthalene	<0.0060		0.038	0.0060	mg/Kg	☼	10/24/18 07:38	10/26/18 15:36	1
2-Nitroaniline	<0.052		0.19	0.052	mg/Kg	☼	10/24/18 07:38	10/26/18 15:36	1
3-Nitroaniline	<0.12		0.38	0.12	mg/Kg	☼	10/24/18 07:38	10/26/18 15:36	1
4-Nitroaniline	<0.16		0.38	0.16	mg/Kg	☼	10/24/18 07:38	10/26/18 15:36	1
Nitrobenzene	<0.0097		0.038	0.0097	mg/Kg	☼	10/24/18 07:38	10/26/18 15:36	1
2-Nitrophenol	<0.091		0.38	0.091	mg/Kg	☼	10/24/18 07:38	10/26/18 15:36	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B01 (0-5)

Lab Sample ID: 500-153334-22

Date Collected: 10/17/18 12:00

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.37		0.78	0.37	mg/Kg	☼	10/24/18 07:38	10/26/18 15:36	1
N-Nitrosodi-n-propylamine	<0.047		0.078	0.047	mg/Kg	☼	10/24/18 07:38	10/26/18 15:36	1
N-Nitrosodiphenylamine	<0.046		0.19	0.046	mg/Kg	☼	10/24/18 07:38	10/26/18 15:36	1
2,2'-oxybis[1-chloropropane]	<0.045		0.19	0.045	mg/Kg	☼	10/24/18 07:38	10/26/18 15:36	1
Pentachlorophenol	<0.62		0.78	0.62	mg/Kg	☼	10/24/18 07:38	10/26/18 15:36	1
Phenanthrene	<0.0054		0.038	0.0054	mg/Kg	☼	10/24/18 07:38	10/26/18 15:36	1
Phenol	<0.086		0.19	0.086	mg/Kg	☼	10/24/18 07:38	10/26/18 15:36	1
Pyrene	<0.0077		0.038	0.0077	mg/Kg	☼	10/24/18 07:38	10/26/18 15:36	1
1,2,4-Trichlorobenzene	<0.042		0.19	0.042	mg/Kg	☼	10/24/18 07:38	10/26/18 15:36	1
2,4,5-Trichlorophenol	<0.088		0.38	0.088	mg/Kg	☼	10/24/18 07:38	10/26/18 15:36	1
2,4,6-Trichlorophenol	<0.13		0.38	0.13	mg/Kg	☼	10/24/18 07:38	10/26/18 15:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	104		43 - 145	10/24/18 07:38	10/26/18 15:36	1
2-Fluorophenol	114		31 - 166	10/24/18 07:38	10/26/18 15:36	1
Nitrobenzene-d5	94		37 - 147	10/24/18 07:38	10/26/18 15:36	1
Phenol-d5	101		30 - 153	10/24/18 07:38	10/26/18 15:36	1
Terphenyl-d14	119		42 - 157	10/24/18 07:38	10/26/18 15:36	1
2,4,6-Tribromophenol	97		31 - 143	10/24/18 07:38	10/26/18 15:36	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.49	J B	1.1	0.22	mg/Kg	☼	10/24/18 08:37	10/25/18 01:11	1
Arsenic	8.2		0.57	0.19	mg/Kg	☼	10/24/18 08:37	10/25/18 01:11	1
Barium	140		0.57	0.065	mg/Kg	☼	10/24/18 08:37	10/25/18 01:11	1
Beryllium	0.90		0.23	0.053	mg/Kg	☼	10/24/18 08:37	10/25/18 01:11	1
Cadmium	0.077	J B	0.11	0.020	mg/Kg	☼	10/24/18 08:37	10/25/18 01:11	1
Chromium	20	B	0.57	0.28	mg/Kg	☼	10/24/18 08:37	10/25/18 01:11	1
Cobalt	15		0.28	0.074	mg/Kg	☼	10/24/18 08:37	10/25/18 01:11	1
Copper	16	B	0.57	0.16	mg/Kg	☼	10/24/18 08:37	10/25/18 01:11	1
Iron	22000		11	5.9	mg/Kg	☼	10/24/18 08:37	10/25/18 01:11	1
Lead	18		0.28	0.13	mg/Kg	☼	10/24/18 08:37	10/25/18 01:11	1
Magnesium	3700		5.7	2.8	mg/Kg	☼	10/24/18 08:37	10/25/18 01:11	1
Calcium	2300	B	11	1.9	mg/Kg	☼	10/24/18 08:37	10/25/18 01:11	1
Manganese	680		0.57	0.082	mg/Kg	☼	10/24/18 08:37	10/25/18 01:11	1
Nickel	33		0.57	0.16	mg/Kg	☼	10/24/18 08:37	10/25/18 01:11	1
Selenium	0.87		0.57	0.33	mg/Kg	☼	10/24/18 08:37	10/25/18 01:11	1
Silver	0.41		0.28	0.073	mg/Kg	☼	10/24/18 08:37	10/25/18 01:11	1
Thallium	<0.28		0.57	0.28	mg/Kg	☼	10/24/18 08:37	10/25/18 01:11	1
Vanadium	36		0.28	0.067	mg/Kg	☼	10/24/18 08:37	10/25/18 01:11	1
Zinc	77		1.1	0.50	mg/Kg	☼	10/24/18 08:37	10/25/18 01:11	1
Potassium	1600		28	10	mg/Kg	☼	10/24/18 08:37	10/25/18 01:11	1
Sodium	1100		57	8.4	mg/Kg	☼	10/24/18 08:37	10/25/18 01:11	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		10/25/18 15:16	10/26/18 12:01	1
Barium	0.56		0.50	0.050	mg/L		10/25/18 15:16	10/26/18 12:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/25/18 15:16	10/26/18 12:01	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		10/25/18 15:16	10/26/18 12:01	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B01 (0-5)

Lab Sample ID: 500-153334-22

Date Collected: 10/17/18 12:00

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	48		5.0	0.50	mg/L		10/25/18 15:16	10/26/18 12:01	1
Chromium	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:01	1
Cobalt	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:01	1
Copper	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:01	1
Iron	<0.20		0.40	0.20	mg/L		10/25/18 15:16	10/26/18 12:01	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/25/18 15:16	10/26/18 12:01	1
Magnesium	15		2.5	0.50	mg/L		10/25/18 15:16	10/26/18 12:01	1
Manganese	0.026		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:01	1
Nickel	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:01	1
Potassium	1.3 J		2.5	0.50	mg/L		10/25/18 15:16	10/26/18 12:01	1
Selenium	<0.020		0.050	0.020	mg/L		10/25/18 15:16	10/26/18 12:01	1
Silver	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:01	1
Vanadium	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:01	1
Zinc	0.094 J		0.50	0.020	mg/L		10/25/18 15:16	10/26/18 12:01	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		10/25/18 15:16	10/26/18 12:42	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/25/18 15:16	10/26/18 12:42	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		10/25/18 12:40	10/26/18 09:26	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.041		0.019	0.0063	mg/Kg	☼	10/24/18 16:40	10/25/18 08:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.18		0.54	0.18	mg/Kg	☼	10/26/18 11:10	10/26/18 15:23	1
pH	7.7		0.2	0.2	SU			10/24/18 16:39	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B27 (0-5)

Lab Sample ID: 500-153334-23

Date Collected: 10/17/18 14:10

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 83.1

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	☼	10/18/18 07:15	10/28/18 10:03	1
Benzene	<0.00046		0.0018	0.00046	mg/Kg	☼	10/18/18 07:15	10/28/18 10:03	1
Bromodichloromethane	<0.00037		0.0018	0.00037	mg/Kg	☼	10/18/18 07:15	10/28/18 10:03	1
Bromoform	<0.00053		0.0018	0.00053	mg/Kg	☼	10/18/18 07:15	10/28/18 10:03	1
Bromomethane	<0.0017		0.0046	0.0017	mg/Kg	☼	10/18/18 07:15	10/28/18 10:03	1
2-Butanone (MEK)	<0.0020		0.0046	0.0020	mg/Kg	☼	10/18/18 07:15	10/28/18 10:03	1
Carbon disulfide	<0.00095		0.0046	0.00095	mg/Kg	☼	10/18/18 07:15	10/28/18 10:03	1
Carbon tetrachloride	<0.00053		0.0018	0.00053	mg/Kg	☼	10/18/18 07:15	10/28/18 10:03	1
Chlorobenzene	<0.00067		0.0018	0.00067	mg/Kg	☼	10/18/18 07:15	10/28/18 10:03	1
Chloroethane	<0.0013	*	0.0046	0.0013	mg/Kg	☼	10/18/18 07:15	10/28/18 10:03	1
Chloroform	<0.00063		0.0018	0.00063	mg/Kg	☼	10/18/18 07:15	10/28/18 10:03	1
Chloromethane	<0.0018		0.0046	0.0018	mg/Kg	☼	10/18/18 07:15	10/28/18 10:03	1
cis-1,2-Dichloroethene	<0.00051		0.0018	0.00051	mg/Kg	☼	10/18/18 07:15	10/28/18 10:03	1
cis-1,3-Dichloropropene	<0.00055		0.0018	0.00055	mg/Kg	☼	10/18/18 07:15	10/28/18 10:03	1
Dibromochloromethane	<0.00060		0.0018	0.00060	mg/Kg	☼	10/18/18 07:15	10/28/18 10:03	1
1,1-Dichloroethane	<0.00062		0.0018	0.00062	mg/Kg	☼	10/18/18 07:15	10/28/18 10:03	1
1,2-Dichloroethane	<0.0014		0.0046	0.0014	mg/Kg	☼	10/18/18 07:15	10/28/18 10:03	1
1,1-Dichloroethene	<0.00063		0.0018	0.00063	mg/Kg	☼	10/18/18 07:15	10/28/18 10:03	1
1,2-Dichloropropane	<0.00047		0.0018	0.00047	mg/Kg	☼	10/18/18 07:15	10/28/18 10:03	1
1,3-Dichloropropene, Total	<0.00064		0.0018	0.00064	mg/Kg	☼	10/18/18 07:15	10/28/18 10:03	1
Ethylbenzene	<0.00087		0.0018	0.00087	mg/Kg	☼	10/18/18 07:15	10/28/18 10:03	1
2-Hexanone	<0.0014		0.0046	0.0014	mg/Kg	☼	10/18/18 07:15	10/28/18 10:03	1
Methylene Chloride	<0.0018		0.0046	0.0018	mg/Kg	☼	10/18/18 07:15	10/28/18 10:03	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0046	0.0013	mg/Kg	☼	10/18/18 07:15	10/28/18 10:03	1
Methyl tert-butyl ether	<0.00054		0.0018	0.00054	mg/Kg	☼	10/18/18 07:15	10/28/18 10:03	1
Styrene	<0.00055		0.0018	0.00055	mg/Kg	☼	10/18/18 07:15	10/28/18 10:03	1
1,1,2,2-Tetrachloroethane	<0.00058		0.0018	0.00058	mg/Kg	☼	10/18/18 07:15	10/28/18 10:03	1
Tetrachloroethene	<0.00062		0.0018	0.00062	mg/Kg	☼	10/18/18 07:15	10/28/18 10:03	1
Toluene	<0.00046		0.0018	0.00046	mg/Kg	☼	10/18/18 07:15	10/28/18 10:03	1
trans-1,2-Dichloroethene	<0.00081		0.0018	0.00081	mg/Kg	☼	10/18/18 07:15	10/28/18 10:03	1
trans-1,3-Dichloropropene	<0.00064		0.0018	0.00064	mg/Kg	☼	10/18/18 07:15	10/28/18 10:03	1
1,1,1-Trichloroethane	<0.00061		0.0018	0.00061	mg/Kg	☼	10/18/18 07:15	10/28/18 10:03	1
1,1,2-Trichloroethane	<0.00078		0.0018	0.00078	mg/Kg	☼	10/18/18 07:15	10/28/18 10:03	1
Trichloroethene	<0.00062		0.0018	0.00062	mg/Kg	☼	10/18/18 07:15	10/28/18 10:03	1
Vinyl acetate	<0.0016		0.0046	0.0016	mg/Kg	☼	10/18/18 07:15	10/28/18 10:03	1
Vinyl chloride	<0.00081		0.0018	0.00081	mg/Kg	☼	10/18/18 07:15	10/28/18 10:03	1
Xylenes, Total	<0.00058		0.0036	0.00058	mg/Kg	☼	10/18/18 07:15	10/28/18 10:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		75 - 131	10/18/18 07:15	10/28/18 10:03	1
Dibromofluoromethane	104		75 - 126	10/18/18 07:15	10/28/18 10:03	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134	10/18/18 07:15	10/28/18 10:03	1
Toluene-d8 (Surr)	96		75 - 124	10/18/18 07:15	10/28/18 10:03	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	☼	10/24/18 07:38	10/26/18 16:02	1
Acenaphthylene	<0.0051		0.038	0.0051	mg/Kg	☼	10/24/18 07:38	10/26/18 16:02	1
Anthracene	<0.0065		0.038	0.0065	mg/Kg	☼	10/24/18 07:38	10/26/18 16:02	1
Benzo[a]anthracene	0.013	J	0.038	0.0052	mg/Kg	☼	10/24/18 07:38	10/26/18 16:02	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B27 (0-5)

Lab Sample ID: 500-153334-23

Date Collected: 10/17/18 14:10

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.023	J	0.038	0.0075	mg/Kg	☼	10/24/18 07:38	10/26/18 16:02	1
Benzo[b]fluoranthene	0.029	J	0.038	0.0083	mg/Kg	☼	10/24/18 07:38	10/26/18 16:02	1
Benzo[g,h,i]perylene	<0.012		0.038	0.012	mg/Kg	☼	10/24/18 07:38	10/26/18 16:02	1
Benzo[k]fluoranthene	<0.011		0.038	0.011	mg/Kg	☼	10/24/18 07:38	10/26/18 16:02	1
Bis(2-chloroethoxy)methane	<0.039		0.19	0.039	mg/Kg	☼	10/24/18 07:38	10/26/18 16:02	1
Bis(2-chloroethyl)ether	<0.058		0.19	0.058	mg/Kg	☼	10/24/18 07:38	10/26/18 16:02	1
Bis(2-ethylhexyl) phthalate	<0.071		0.19	0.071	mg/Kg	☼	10/24/18 07:38	10/26/18 16:02	1
4-Bromophenyl phenyl ether	<0.051		0.19	0.051	mg/Kg	☼	10/24/18 07:38	10/26/18 16:02	1
Butyl benzyl phthalate	<0.073		0.19	0.073	mg/Kg	☼	10/24/18 07:38	10/26/18 16:02	1
Carbazole	<0.097		0.19	0.097	mg/Kg	☼	10/24/18 07:38	10/26/18 16:02	1
4-Chloroaniline	<0.18		0.78	0.18	mg/Kg	☼	10/24/18 07:38	10/26/18 16:02	1
4-Chloro-3-methylphenol	<0.13		0.38	0.13	mg/Kg	☼	10/24/18 07:38	10/26/18 16:02	1
2-Chloronaphthalene	<0.043		0.19	0.043	mg/Kg	☼	10/24/18 07:38	10/26/18 16:02	1
2-Chlorophenol	<0.066		0.19	0.066	mg/Kg	☼	10/24/18 07:38	10/26/18 16:02	1
4-Chlorophenyl phenyl ether	<0.045		0.19	0.045	mg/Kg	☼	10/24/18 07:38	10/26/18 16:02	1
Chrysene	0.015	J	0.038	0.011	mg/Kg	☼	10/24/18 07:38	10/26/18 16:02	1
Dibenz(a,h)anthracene	0.010	J	0.038	0.0075	mg/Kg	☼	10/24/18 07:38	10/26/18 16:02	1
Dibenzofuran	<0.045		0.19	0.045	mg/Kg	☼	10/24/18 07:38	10/26/18 16:02	1
1,2-Dichlorobenzene	<0.046		0.19	0.046	mg/Kg	☼	10/24/18 07:38	10/26/18 16:02	1
1,3-Dichlorobenzene	<0.043		0.19	0.043	mg/Kg	☼	10/24/18 07:38	10/26/18 16:02	1
1,4-Dichlorobenzene	<0.050		0.19	0.050	mg/Kg	☼	10/24/18 07:38	10/26/18 16:02	1
3,3'-Dichlorobenzidine	<0.054		0.19	0.054	mg/Kg	☼	10/24/18 07:38	10/26/18 16:02	1
2,4-Dichlorophenol	<0.092		0.38	0.092	mg/Kg	☼	10/24/18 07:38	10/26/18 16:02	1
Diethyl phthalate	<0.065		0.19	0.065	mg/Kg	☼	10/24/18 07:38	10/26/18 16:02	1
2,4-Dimethylphenol	<0.15		0.38	0.15	mg/Kg	☼	10/24/18 07:38	10/26/18 16:02	1
Dimethyl phthalate	<0.050		0.19	0.050	mg/Kg	☼	10/24/18 07:38	10/26/18 16:02	1
Di-n-butyl phthalate	<0.059		0.19	0.059	mg/Kg	☼	10/24/18 07:38	10/26/18 16:02	1
4,6-Dinitro-2-methylphenol	<0.31		0.78	0.31	mg/Kg	☼	10/24/18 07:38	10/26/18 16:02	1
2,4-Dinitrophenol	<0.68		0.78	0.68	mg/Kg	☼	10/24/18 07:38	10/26/18 16:02	1
2,4-Dinitrotoluene	<0.061		0.19	0.061	mg/Kg	☼	10/24/18 07:38	10/26/18 16:02	1
2,6-Dinitrotoluene	<0.076		0.19	0.076	mg/Kg	☼	10/24/18 07:38	10/26/18 16:02	1
Di-n-octyl phthalate	<0.063		0.19	0.063	mg/Kg	☼	10/24/18 07:38	10/26/18 16:02	1
Fluoranthene	0.032	J	0.038	0.0072	mg/Kg	☼	10/24/18 07:38	10/26/18 16:02	1
Fluorene	<0.0054		0.038	0.0054	mg/Kg	☼	10/24/18 07:38	10/26/18 16:02	1
Hexachlorobenzene	<0.0090		0.078	0.0090	mg/Kg	☼	10/24/18 07:38	10/26/18 16:02	1
Hexachlorobutadiene	<0.061		0.19	0.061	mg/Kg	☼	10/24/18 07:38	10/26/18 16:02	1
Hexachlorocyclopentadiene	<0.22		0.78	0.22	mg/Kg	☼	10/24/18 07:38	10/26/18 16:02	1
Hexachloroethane	<0.059		0.19	0.059	mg/Kg	☼	10/24/18 07:38	10/26/18 16:02	1
Indeno[1,2,3-cd]pyrene	0.016	J	0.038	0.010	mg/Kg	☼	10/24/18 07:38	10/26/18 16:02	1
Isophorone	<0.043		0.19	0.043	mg/Kg	☼	10/24/18 07:38	10/26/18 16:02	1
2-Methylnaphthalene	<0.0071		0.078	0.0071	mg/Kg	☼	10/24/18 07:38	10/26/18 16:02	1
2-Methylphenol	<0.062		0.19	0.062	mg/Kg	☼	10/24/18 07:38	10/26/18 16:02	1
3 & 4 Methylphenol	<0.064		0.19	0.064	mg/Kg	☼	10/24/18 07:38	10/26/18 16:02	1
Naphthalene	<0.0059		0.038	0.0059	mg/Kg	☼	10/24/18 07:38	10/26/18 16:02	1
2-Nitroaniline	<0.052		0.19	0.052	mg/Kg	☼	10/24/18 07:38	10/26/18 16:02	1
3-Nitroaniline	<0.12		0.38	0.12	mg/Kg	☼	10/24/18 07:38	10/26/18 16:02	1
4-Nitroaniline	<0.16		0.38	0.16	mg/Kg	☼	10/24/18 07:38	10/26/18 16:02	1
Nitrobenzene	<0.0096		0.038	0.0096	mg/Kg	☼	10/24/18 07:38	10/26/18 16:02	1
2-Nitrophenol	<0.091		0.38	0.091	mg/Kg	☼	10/24/18 07:38	10/26/18 16:02	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B27 (0-5)

Lab Sample ID: 500-153334-23

Date Collected: 10/17/18 14:10

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.37		0.78	0.37	mg/Kg	☼	10/24/18 07:38	10/26/18 16:02	1
N-Nitrosodi-n-propylamine	<0.047		0.078	0.047	mg/Kg	☼	10/24/18 07:38	10/26/18 16:02	1
N-Nitrosodiphenylamine	<0.046		0.19	0.046	mg/Kg	☼	10/24/18 07:38	10/26/18 16:02	1
2,2'-oxybis[1-chloropropane]	<0.045		0.19	0.045	mg/Kg	☼	10/24/18 07:38	10/26/18 16:02	1
Pentachlorophenol	<0.62		0.78	0.62	mg/Kg	☼	10/24/18 07:38	10/26/18 16:02	1
Phenanthrene	0.015	J	0.038	0.0054	mg/Kg	☼	10/24/18 07:38	10/26/18 16:02	1
Phenol	<0.086		0.19	0.086	mg/Kg	☼	10/24/18 07:38	10/26/18 16:02	1
Pyrene	0.021	J	0.038	0.0077	mg/Kg	☼	10/24/18 07:38	10/26/18 16:02	1
1,2,4-Trichlorobenzene	<0.042		0.19	0.042	mg/Kg	☼	10/24/18 07:38	10/26/18 16:02	1
2,4,5-Trichlorophenol	<0.088		0.38	0.088	mg/Kg	☼	10/24/18 07:38	10/26/18 16:02	1
2,4,6-Trichlorophenol	<0.13		0.38	0.13	mg/Kg	☼	10/24/18 07:38	10/26/18 16:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	97		43 - 145				10/24/18 07:38	10/26/18 16:02	1
2-Fluorophenol	109		31 - 166				10/24/18 07:38	10/26/18 16:02	1
Nitrobenzene-d5	68		37 - 147				10/24/18 07:38	10/26/18 16:02	1
Phenol-d5	111		30 - 153				10/24/18 07:38	10/26/18 16:02	1
Terphenyl-d14	105		42 - 157				10/24/18 07:38	10/26/18 16:02	1
2,4,6-Tribromophenol	78		31 - 143				10/24/18 07:38	10/26/18 16:02	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.26	J B	1.2	0.23	mg/Kg	☼	10/24/18 08:37	10/25/18 01:15	1
Arsenic	11		0.59	0.20	mg/Kg	☼	10/24/18 08:37	10/25/18 01:15	1
Barium	93		0.59	0.067	mg/Kg	☼	10/24/18 08:37	10/25/18 01:15	1
Beryllium	0.77		0.23	0.055	mg/Kg	☼	10/24/18 08:37	10/25/18 01:15	1
Cadmium	0.17	B	0.12	0.021	mg/Kg	☼	10/24/18 08:37	10/25/18 01:15	1
Chromium	18	B	0.59	0.29	mg/Kg	☼	10/24/18 08:37	10/25/18 01:15	1
Cobalt	15		0.29	0.077	mg/Kg	☼	10/24/18 08:37	10/25/18 01:15	1
Copper	19	B	0.59	0.16	mg/Kg	☼	10/24/18 08:37	10/25/18 01:15	1
Iron	24000		12	6.1	mg/Kg	☼	10/24/18 08:37	10/25/18 01:15	1
Lead	25		0.29	0.14	mg/Kg	☼	10/24/18 08:37	10/25/18 01:15	1
Magnesium	4000		5.9	2.9	mg/Kg	☼	10/24/18 08:37	10/25/18 01:15	1
Calcium	3200	B	12	2.0	mg/Kg	☼	10/24/18 08:37	10/25/18 01:15	1
Manganese	640		0.59	0.085	mg/Kg	☼	10/24/18 08:37	10/25/18 01:15	1
Nickel	40		0.59	0.17	mg/Kg	☼	10/24/18 08:37	10/25/18 01:15	1
Selenium	<0.34		0.59	0.34	mg/Kg	☼	10/24/18 08:37	10/25/18 01:15	1
Silver	0.40		0.29	0.076	mg/Kg	☼	10/24/18 08:37	10/25/18 01:15	1
Thallium	<0.29		0.59	0.29	mg/Kg	☼	10/24/18 08:37	10/25/18 01:15	1
Vanadium	30		0.29	0.069	mg/Kg	☼	10/24/18 08:37	10/25/18 01:15	1
Zinc	93		1.2	0.51	mg/Kg	☼	10/24/18 08:37	10/25/18 01:15	1
Potassium	1900		29	10	mg/Kg	☼	10/24/18 08:37	10/25/18 01:15	1
Sodium	360		59	8.7	mg/Kg	☼	10/24/18 08:37	10/25/18 01:15	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		10/25/18 15:16	10/26/18 12:05	1
Barium	0.58		0.50	0.050	mg/L		10/25/18 15:16	10/26/18 12:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/25/18 15:16	10/26/18 12:05	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		10/25/18 15:16	10/26/18 12:05	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B27 (0-5)

Lab Sample ID: 500-153334-23

Date Collected: 10/17/18 14:10

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	100		5.0	0.50	mg/L		10/25/18 15:16	10/26/18 12:05	1
Chromium	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:05	1
Cobalt	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:05	1
Copper	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:05	1
Iron	<0.20		0.40	0.20	mg/L		10/25/18 15:16	10/26/18 12:05	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/25/18 15:16	10/26/18 12:05	1
Magnesium	42		2.5	0.50	mg/L		10/25/18 15:16	10/26/18 12:05	1
Manganese	0.12		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:05	1
Nickel	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:05	1
Potassium	1.7 J		2.5	0.50	mg/L		10/25/18 15:16	10/26/18 12:05	1
Selenium	<0.020		0.050	0.020	mg/L		10/25/18 15:16	10/26/18 12:05	1
Silver	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:05	1
Vanadium	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:05	1
Zinc	0.029 J		0.50	0.020	mg/L		10/25/18 15:16	10/26/18 12:05	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		10/25/18 15:16	10/26/18 12:43	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/25/18 15:16	10/26/18 12:43	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		10/25/18 12:40	10/26/18 09:28	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.036		0.019	0.0064	mg/Kg	☼	10/24/18 16:40	10/25/18 08:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.20		0.58	0.20	mg/Kg	☼	10/26/18 11:10	10/26/18 15:24	1
pH	7.6		0.2	0.2	SU			10/24/18 16:39	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B26 (0-5)

Lab Sample ID: 500-153334-24

Date Collected: 10/17/18 14:35

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 79.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0089		0.020	0.0089	mg/Kg	☼	10/18/18 07:15	10/28/18 10:29	1
Benzene	<0.00052		0.0020	0.00052	mg/Kg	☼	10/18/18 07:15	10/28/18 10:29	1
Bromodichloromethane	<0.00042		0.0020	0.00042	mg/Kg	☼	10/18/18 07:15	10/28/18 10:29	1
Bromoform	<0.00060		0.0020	0.00060	mg/Kg	☼	10/18/18 07:15	10/28/18 10:29	1
Bromomethane	<0.0019		0.0051	0.0019	mg/Kg	☼	10/18/18 07:15	10/28/18 10:29	1
2-Butanone (MEK)	<0.0023		0.0051	0.0023	mg/Kg	☼	10/18/18 07:15	10/28/18 10:29	1
Carbon disulfide	<0.0011		0.0051	0.0011	mg/Kg	☼	10/18/18 07:15	10/28/18 10:29	1
Carbon tetrachloride	<0.00059		0.0020	0.00059	mg/Kg	☼	10/18/18 07:15	10/28/18 10:29	1
Chlorobenzene	<0.00075		0.0020	0.00075	mg/Kg	☼	10/18/18 07:15	10/28/18 10:29	1
Chloroethane	<0.0015	*	0.0051	0.0015	mg/Kg	☼	10/18/18 07:15	10/28/18 10:29	1
Chloroform	<0.00071		0.0020	0.00071	mg/Kg	☼	10/18/18 07:15	10/28/18 10:29	1
Chloromethane	<0.0020		0.0051	0.0020	mg/Kg	☼	10/18/18 07:15	10/28/18 10:29	1
cis-1,2-Dichloroethene	<0.00057		0.0020	0.00057	mg/Kg	☼	10/18/18 07:15	10/28/18 10:29	1
cis-1,3-Dichloropropene	<0.00061		0.0020	0.00061	mg/Kg	☼	10/18/18 07:15	10/28/18 10:29	1
Dibromochloromethane	<0.00067		0.0020	0.00067	mg/Kg	☼	10/18/18 07:15	10/28/18 10:29	1
1,1-Dichloroethane	<0.00070		0.0020	0.00070	mg/Kg	☼	10/18/18 07:15	10/28/18 10:29	1
1,2-Dichloroethane	<0.0016		0.0051	0.0016	mg/Kg	☼	10/18/18 07:15	10/28/18 10:29	1
1,1-Dichloroethene	<0.00070		0.0020	0.00070	mg/Kg	☼	10/18/18 07:15	10/28/18 10:29	1
1,2-Dichloropropane	<0.00053		0.0020	0.00053	mg/Kg	☼	10/18/18 07:15	10/28/18 10:29	1
1,3-Dichloropropane, Total	<0.00072		0.0020	0.00072	mg/Kg	☼	10/18/18 07:15	10/28/18 10:29	1
Ethylbenzene	<0.00098		0.0020	0.00098	mg/Kg	☼	10/18/18 07:15	10/28/18 10:29	1
2-Hexanone	<0.0016		0.0051	0.0016	mg/Kg	☼	10/18/18 07:15	10/28/18 10:29	1
Methylene Chloride	<0.0020		0.0051	0.0020	mg/Kg	☼	10/18/18 07:15	10/28/18 10:29	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0051	0.0015	mg/Kg	☼	10/18/18 07:15	10/28/18 10:29	1
Methyl tert-butyl ether	<0.00060		0.0020	0.00060	mg/Kg	☼	10/18/18 07:15	10/28/18 10:29	1
Styrene	<0.00062		0.0020	0.00062	mg/Kg	☼	10/18/18 07:15	10/28/18 10:29	1
1,1,2,2-Tetrachloroethane	<0.00065		0.0020	0.00065	mg/Kg	☼	10/18/18 07:15	10/28/18 10:29	1
Tetrachloroethene	<0.00069		0.0020	0.00069	mg/Kg	☼	10/18/18 07:15	10/28/18 10:29	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg	☼	10/18/18 07:15	10/28/18 10:29	1
trans-1,2-Dichloroethene	<0.00090		0.0020	0.00090	mg/Kg	☼	10/18/18 07:15	10/28/18 10:29	1
trans-1,3-Dichloropropene	<0.00072		0.0020	0.00072	mg/Kg	☼	10/18/18 07:15	10/28/18 10:29	1
1,1,1-Trichloroethane	<0.00068		0.0020	0.00068	mg/Kg	☼	10/18/18 07:15	10/28/18 10:29	1
1,1,2-Trichloroethane	<0.00087		0.0020	0.00087	mg/Kg	☼	10/18/18 07:15	10/28/18 10:29	1
Trichloroethene	<0.00069		0.0020	0.00069	mg/Kg	☼	10/18/18 07:15	10/28/18 10:29	1
Vinyl acetate	<0.0018		0.0051	0.0018	mg/Kg	☼	10/18/18 07:15	10/28/18 10:29	1
Vinyl chloride	<0.00090		0.0020	0.00090	mg/Kg	☼	10/18/18 07:15	10/28/18 10:29	1
Xylenes, Total	<0.00065		0.0041	0.00065	mg/Kg	☼	10/18/18 07:15	10/28/18 10:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		75 - 131	10/18/18 07:15	10/28/18 10:29	1
Dibromofluoromethane	101		75 - 126	10/18/18 07:15	10/28/18 10:29	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134	10/18/18 07:15	10/28/18 10:29	1
Toluene-d8 (Surr)	97		75 - 124	10/18/18 07:15	10/28/18 10:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.10		0.042	0.0075	mg/Kg	☼	10/24/18 07:38	10/26/18 16:28	1
Acenaphthylene	0.094		0.042	0.0055	mg/Kg	☼	10/24/18 07:38	10/26/18 16:28	1
Anthracene	0.24		0.042	0.0070	mg/Kg	☼	10/24/18 07:38	10/26/18 16:28	1
Benzo[a]anthracene	0.48		0.042	0.0056	mg/Kg	☼	10/24/18 07:38	10/26/18 16:28	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B26 (0-5)

Lab Sample ID: 500-153334-24

Date Collected: 10/17/18 14:35

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 79.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.47		0.042	0.0081	mg/Kg	☼	10/24/18 07:38	10/26/18 16:28	1
Benzo[b]fluoranthene	0.57		0.042	0.0090	mg/Kg	☼	10/24/18 07:38	10/26/18 16:28	1
Benzo[g,h,i]perylene	0.16		0.042	0.013	mg/Kg	☼	10/24/18 07:38	10/26/18 16:28	1
Benzo[k]fluoranthene	0.25		0.042	0.012	mg/Kg	☼	10/24/18 07:38	10/26/18 16:28	1
Bis(2-chloroethoxy)methane	<0.043		0.21	0.043	mg/Kg	☼	10/24/18 07:38	10/26/18 16:28	1
Bis(2-chloroethyl)ether	<0.063		0.21	0.063	mg/Kg	☼	10/24/18 07:38	10/26/18 16:28	1
Bis(2-ethylhexyl) phthalate	<0.076		0.21	0.076	mg/Kg	☼	10/24/18 07:38	10/26/18 16:28	1
4-Bromophenyl phenyl ether	<0.055		0.21	0.055	mg/Kg	☼	10/24/18 07:38	10/26/18 16:28	1
Butyl benzyl phthalate	<0.080		0.21	0.080	mg/Kg	☼	10/24/18 07:38	10/26/18 16:28	1
Carbazole	<0.10		0.21	0.10	mg/Kg	☼	10/24/18 07:38	10/26/18 16:28	1
4-Chloroaniline	<0.20		0.84	0.20	mg/Kg	☼	10/24/18 07:38	10/26/18 16:28	1
4-Chloro-3-methylphenol	<0.14		0.42	0.14	mg/Kg	☼	10/24/18 07:38	10/26/18 16:28	1
2-Chloronaphthalene	<0.046		0.21	0.046	mg/Kg	☼	10/24/18 07:38	10/26/18 16:28	1
2-Chlorophenol	<0.071		0.21	0.071	mg/Kg	☼	10/24/18 07:38	10/26/18 16:28	1
4-Chlorophenyl phenyl ether	<0.049		0.21	0.049	mg/Kg	☼	10/24/18 07:38	10/26/18 16:28	1
Chrysene	0.47		0.042	0.011	mg/Kg	☼	10/24/18 07:38	10/26/18 16:28	1
Dibenz(a,h)anthracene	0.053		0.042	0.0081	mg/Kg	☼	10/24/18 07:38	10/26/18 16:28	1
Dibenzofuran	<0.049		0.21	0.049	mg/Kg	☼	10/24/18 07:38	10/26/18 16:28	1
1,2-Dichlorobenzene	<0.050		0.21	0.050	mg/Kg	☼	10/24/18 07:38	10/26/18 16:28	1
1,3-Dichlorobenzene	<0.047		0.21	0.047	mg/Kg	☼	10/24/18 07:38	10/26/18 16:28	1
1,4-Dichlorobenzene	<0.054		0.21	0.054	mg/Kg	☼	10/24/18 07:38	10/26/18 16:28	1
3,3'-Dichlorobenzidine	<0.059		0.21	0.059	mg/Kg	☼	10/24/18 07:38	10/26/18 16:28	1
2,4-Dichlorophenol	<0.099		0.42	0.099	mg/Kg	☼	10/24/18 07:38	10/26/18 16:28	1
Diethyl phthalate	<0.071		0.21	0.071	mg/Kg	☼	10/24/18 07:38	10/26/18 16:28	1
2,4-Dimethylphenol	<0.16		0.42	0.16	mg/Kg	☼	10/24/18 07:38	10/26/18 16:28	1
Dimethyl phthalate	<0.055		0.21	0.055	mg/Kg	☼	10/24/18 07:38	10/26/18 16:28	1
Di-n-butyl phthalate	<0.064		0.21	0.064	mg/Kg	☼	10/24/18 07:38	10/26/18 16:28	1
4,6-Dinitro-2-methylphenol	<0.34		0.84	0.34	mg/Kg	☼	10/24/18 07:38	10/26/18 16:28	1
2,4-Dinitrophenol	<0.74		0.84	0.74	mg/Kg	☼	10/24/18 07:38	10/26/18 16:28	1
2,4-Dinitrotoluene	<0.066		0.21	0.066	mg/Kg	☼	10/24/18 07:38	10/26/18 16:28	1
2,6-Dinitrotoluene	<0.082		0.21	0.082	mg/Kg	☼	10/24/18 07:38	10/26/18 16:28	1
Di-n-octyl phthalate	<0.068		0.21	0.068	mg/Kg	☼	10/24/18 07:38	10/26/18 16:28	1
Fluoranthene	1.1		0.042	0.0078	mg/Kg	☼	10/24/18 07:38	10/26/18 16:28	1
Fluorene	0.12		0.042	0.0059	mg/Kg	☼	10/24/18 07:38	10/26/18 16:28	1
Hexachlorobenzene	<0.0097		0.084	0.0097	mg/Kg	☼	10/24/18 07:38	10/26/18 16:28	1
Hexachlorobutadiene	<0.066		0.21	0.066	mg/Kg	☼	10/24/18 07:38	10/26/18 16:28	1
Hexachlorocyclopentadiene	<0.24		0.84	0.24	mg/Kg	☼	10/24/18 07:38	10/26/18 16:28	1
Hexachloroethane	<0.064		0.21	0.064	mg/Kg	☼	10/24/18 07:38	10/26/18 16:28	1
Indeno[1,2,3-cd]pyrene	0.17		0.042	0.011	mg/Kg	☼	10/24/18 07:38	10/26/18 16:28	1
Isophorone	<0.047		0.21	0.047	mg/Kg	☼	10/24/18 07:38	10/26/18 16:28	1
2-Methylnaphthalene	0.016 J		0.084	0.0077	mg/Kg	☼	10/24/18 07:38	10/26/18 16:28	1
2-Methylphenol	<0.067		0.21	0.067	mg/Kg	☼	10/24/18 07:38	10/26/18 16:28	1
3 & 4 Methylphenol	<0.070		0.21	0.070	mg/Kg	☼	10/24/18 07:38	10/26/18 16:28	1
Naphthalene	<0.0064		0.042	0.0064	mg/Kg	☼	10/24/18 07:38	10/26/18 16:28	1
2-Nitroaniline	<0.056		0.21	0.056	mg/Kg	☼	10/24/18 07:38	10/26/18 16:28	1
3-Nitroaniline	<0.13		0.42	0.13	mg/Kg	☼	10/24/18 07:38	10/26/18 16:28	1
4-Nitroaniline	<0.18		0.42	0.18	mg/Kg	☼	10/24/18 07:38	10/26/18 16:28	1
Nitrobenzene	<0.010		0.042	0.010	mg/Kg	☼	10/24/18 07:38	10/26/18 16:28	1
2-Nitrophenol	<0.099		0.42	0.099	mg/Kg	☼	10/24/18 07:38	10/26/18 16:28	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B26 (0-5)

Lab Sample ID: 500-153334-24

Date Collected: 10/17/18 14:35

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 79.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.40		0.84	0.40	mg/Kg	☼	10/24/18 07:38	10/26/18 16:28	1
N-Nitrosodi-n-propylamine	<0.051		0.084	0.051	mg/Kg	☼	10/24/18 07:38	10/26/18 16:28	1
N-Nitrosodiphenylamine	<0.049		0.21	0.049	mg/Kg	☼	10/24/18 07:38	10/26/18 16:28	1
2,2'-oxybis[1-chloropropane]	<0.048		0.21	0.048	mg/Kg	☼	10/24/18 07:38	10/26/18 16:28	1
Pentachlorophenol	<0.67		0.84	0.67	mg/Kg	☼	10/24/18 07:38	10/26/18 16:28	1
Phenanthrene	0.95		0.042	0.0058	mg/Kg	☼	10/24/18 07:38	10/26/18 16:28	1
Phenol	<0.093		0.21	0.093	mg/Kg	☼	10/24/18 07:38	10/26/18 16:28	1
Pyrene	0.97		0.042	0.0083	mg/Kg	☼	10/24/18 07:38	10/26/18 16:28	1
1,2,4-Trichlorobenzene	<0.045		0.21	0.045	mg/Kg	☼	10/24/18 07:38	10/26/18 16:28	1
2,4,5-Trichlorophenol	<0.095		0.42	0.095	mg/Kg	☼	10/24/18 07:38	10/26/18 16:28	1
2,4,6-Trichlorophenol	<0.14		0.42	0.14	mg/Kg	☼	10/24/18 07:38	10/26/18 16:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	107		43 - 145				10/24/18 07:38	10/26/18 16:28	1
2-Fluorophenol	120		31 - 166				10/24/18 07:38	10/26/18 16:28	1
Nitrobenzene-d5	97		37 - 147				10/24/18 07:38	10/26/18 16:28	1
Phenol-d5	121		30 - 153				10/24/18 07:38	10/26/18 16:28	1
Terphenyl-d14	132		42 - 157				10/24/18 07:38	10/26/18 16:28	1
2,4,6-Tribromophenol	68		31 - 143				10/24/18 07:38	10/26/18 16:28	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.23		1.2	0.23	mg/Kg	☼	10/24/18 08:37	10/25/18 01:19	1
Arsenic	12		0.60	0.20	mg/Kg	☼	10/24/18 08:37	10/25/18 01:19	1
Barium	130		0.60	0.068	mg/Kg	☼	10/24/18 08:37	10/25/18 01:19	1
Beryllium	0.81		0.24	0.056	mg/Kg	☼	10/24/18 08:37	10/25/18 01:19	1
Cadmium	0.24	B	0.12	0.021	mg/Kg	☼	10/24/18 08:37	10/25/18 01:19	1
Chromium	20	B	0.60	0.30	mg/Kg	☼	10/24/18 08:37	10/25/18 01:19	1
Cobalt	17		0.30	0.078	mg/Kg	☼	10/24/18 08:37	10/25/18 01:19	1
Copper	19	B	0.60	0.17	mg/Kg	☼	10/24/18 08:37	10/25/18 01:19	1
Iron	26000		12	6.2	mg/Kg	☼	10/24/18 08:37	10/25/18 01:19	1
Lead	21		0.30	0.14	mg/Kg	☼	10/24/18 08:37	10/25/18 01:19	1
Magnesium	3500		6.0	3.0	mg/Kg	☼	10/24/18 08:37	10/25/18 01:19	1
Calcium	2200	B	12	2.0	mg/Kg	☼	10/24/18 08:37	10/25/18 01:19	1
Manganese	1200		0.60	0.086	mg/Kg	☼	10/24/18 08:37	10/25/18 01:19	1
Nickel	36		0.60	0.17	mg/Kg	☼	10/24/18 08:37	10/25/18 01:19	1
Selenium	<0.35		0.60	0.35	mg/Kg	☼	10/24/18 08:37	10/25/18 01:19	1
Silver	0.45		0.30	0.077	mg/Kg	☼	10/24/18 08:37	10/25/18 01:19	1
Thallium	<0.30		0.60	0.30	mg/Kg	☼	10/24/18 08:37	10/25/18 01:19	1
Vanadium	33		0.30	0.070	mg/Kg	☼	10/24/18 08:37	10/25/18 01:19	1
Zinc	94		1.2	0.52	mg/Kg	☼	10/24/18 08:37	10/25/18 01:19	1
Potassium	2100		30	11	mg/Kg	☼	10/24/18 08:37	10/25/18 01:19	1
Sodium	750		60	8.8	mg/Kg	☼	10/24/18 08:37	10/25/18 01:19	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		10/25/18 15:16	10/26/18 12:09	1
Barium	0.46	J	0.50	0.050	mg/L		10/25/18 15:16	10/26/18 12:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/25/18 15:16	10/26/18 12:09	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		10/25/18 15:16	10/26/18 12:09	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B26 (0-5)

Lab Sample ID: 500-153334-24

Date Collected: 10/17/18 14:35

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 79.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	65		5.0	0.50	mg/L		10/25/18 15:16	10/26/18 12:09	1
Chromium	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:09	1
Cobalt	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:09	1
Copper	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:09	1
Iron	<0.20		0.40	0.20	mg/L		10/25/18 15:16	10/26/18 12:09	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/25/18 15:16	10/26/18 12:09	1
Magnesium	22		2.5	0.50	mg/L		10/25/18 15:16	10/26/18 12:09	1
Manganese	0.087		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:09	1
Nickel	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:09	1
Potassium	3.4		2.5	0.50	mg/L		10/25/18 15:16	10/26/18 12:09	1
Selenium	<0.020		0.050	0.020	mg/L		10/25/18 15:16	10/26/18 12:09	1
Silver	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:09	1
Vanadium	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:09	1
Zinc	0.18 J		0.50	0.020	mg/L		10/25/18 15:16	10/26/18 12:09	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		10/25/18 15:16	10/26/18 12:44	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/25/18 15:16	10/26/18 12:44	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		10/25/18 12:40	10/26/18 09:30	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.019	0.0064	mg/Kg	☼	10/24/18 16:40	10/25/18 08:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.20		0.57	0.20	mg/Kg	☼	10/26/18 11:10	10/26/18 15:25	1
pH	7.9		0.2	0.2	SU			10/24/18 16:39	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B25 (0-5)

Lab Sample ID: 500-153334-25

Date Collected: 10/17/18 15:00

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 81.3

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	☼	10/18/18 07:15	10/28/18 10:55	1
Benzene	<0.00046		0.0018	0.00046	mg/Kg	☼	10/18/18 07:15	10/28/18 10:55	1
Bromodichloromethane	<0.00037		0.0018	0.00037	mg/Kg	☼	10/18/18 07:15	10/28/18 10:55	1
Bromoform	<0.00053		0.0018	0.00053	mg/Kg	☼	10/18/18 07:15	10/28/18 10:55	1
Bromomethane	<0.0017		0.0045	0.0017	mg/Kg	☼	10/18/18 07:15	10/28/18 10:55	1
2-Butanone (MEK)	<0.0020		0.0045	0.0020	mg/Kg	☼	10/18/18 07:15	10/28/18 10:55	1
Carbon disulfide	<0.00094		0.0045	0.00094	mg/Kg	☼	10/18/18 07:15	10/28/18 10:55	1
Carbon tetrachloride	<0.00052		0.0018	0.00052	mg/Kg	☼	10/18/18 07:15	10/28/18 10:55	1
Chlorobenzene	<0.00067		0.0018	0.00067	mg/Kg	☼	10/18/18 07:15	10/28/18 10:55	1
Chloroethane	<0.0013	*	0.0045	0.0013	mg/Kg	☼	10/18/18 07:15	10/28/18 10:55	1
Chloroform	<0.00063		0.0018	0.00063	mg/Kg	☼	10/18/18 07:15	10/28/18 10:55	1
Chloromethane	<0.0018		0.0045	0.0018	mg/Kg	☼	10/18/18 07:15	10/28/18 10:55	1
cis-1,2-Dichloroethene	<0.00050		0.0018	0.00050	mg/Kg	☼	10/18/18 07:15	10/28/18 10:55	1
cis-1,3-Dichloropropene	<0.00054		0.0018	0.00054	mg/Kg	☼	10/18/18 07:15	10/28/18 10:55	1
Dibromochloromethane	<0.00059		0.0018	0.00059	mg/Kg	☼	10/18/18 07:15	10/28/18 10:55	1
1,1-Dichloroethane	<0.00062		0.0018	0.00062	mg/Kg	☼	10/18/18 07:15	10/28/18 10:55	1
1,2-Dichloroethane	<0.0014		0.0045	0.0014	mg/Kg	☼	10/18/18 07:15	10/28/18 10:55	1
1,1-Dichloroethene	<0.00062		0.0018	0.00062	mg/Kg	☼	10/18/18 07:15	10/28/18 10:55	1
1,2-Dichloropropane	<0.00047		0.0018	0.00047	mg/Kg	☼	10/18/18 07:15	10/28/18 10:55	1
1,3-Dichloropropene, Total	<0.00063		0.0018	0.00063	mg/Kg	☼	10/18/18 07:15	10/28/18 10:55	1
Ethylbenzene	<0.00086		0.0018	0.00086	mg/Kg	☼	10/18/18 07:15	10/28/18 10:55	1
2-Hexanone	<0.0014		0.0045	0.0014	mg/Kg	☼	10/18/18 07:15	10/28/18 10:55	1
Methylene Chloride	<0.0018		0.0045	0.0018	mg/Kg	☼	10/18/18 07:15	10/28/18 10:55	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0045	0.0013	mg/Kg	☼	10/18/18 07:15	10/28/18 10:55	1
Methyl tert-butyl ether	<0.00053		0.0018	0.00053	mg/Kg	☼	10/18/18 07:15	10/28/18 10:55	1
Styrene	<0.00055		0.0018	0.00055	mg/Kg	☼	10/18/18 07:15	10/28/18 10:55	1
1,1,2,2-Tetrachloroethane	<0.00058		0.0018	0.00058	mg/Kg	☼	10/18/18 07:15	10/28/18 10:55	1
Tetrachloroethene	<0.00062		0.0018	0.00062	mg/Kg	☼	10/18/18 07:15	10/28/18 10:55	1
Toluene	<0.00046		0.0018	0.00046	mg/Kg	☼	10/18/18 07:15	10/28/18 10:55	1
trans-1,2-Dichloroethene	<0.00080		0.0018	0.00080	mg/Kg	☼	10/18/18 07:15	10/28/18 10:55	1
trans-1,3-Dichloropropene	<0.00063		0.0018	0.00063	mg/Kg	☼	10/18/18 07:15	10/28/18 10:55	1
1,1,1-Trichloroethane	<0.00061		0.0018	0.00061	mg/Kg	☼	10/18/18 07:15	10/28/18 10:55	1
1,1,2-Trichloroethane	<0.00077		0.0018	0.00077	mg/Kg	☼	10/18/18 07:15	10/28/18 10:55	1
Trichloroethene	<0.00061		0.0018	0.00061	mg/Kg	☼	10/18/18 07:15	10/28/18 10:55	1
Vinyl acetate	<0.0016		0.0045	0.0016	mg/Kg	☼	10/18/18 07:15	10/28/18 10:55	1
Vinyl chloride	<0.00080		0.0018	0.00080	mg/Kg	☼	10/18/18 07:15	10/28/18 10:55	1
Xylenes, Total	<0.00058		0.0036	0.00058	mg/Kg	☼	10/18/18 07:15	10/28/18 10:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		75 - 131	10/18/18 07:15	10/28/18 10:55	1
Dibromofluoromethane	107		75 - 126	10/18/18 07:15	10/28/18 10:55	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134	10/18/18 07:15	10/28/18 10:55	1
Toluene-d8 (Surr)	95		75 - 124	10/18/18 07:15	10/28/18 10:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0073		0.041	0.0073	mg/Kg	☼	10/24/18 07:38	10/27/18 15:16	1
Acenaphthylene	<0.0054		0.041	0.0054	mg/Kg	☼	10/24/18 07:38	10/27/18 15:16	1
Anthracene	<0.0068		0.041	0.0068	mg/Kg	☼	10/24/18 07:38	10/27/18 15:16	1
Benzo[a]anthracene	0.012	J	0.041	0.0055	mg/Kg	☼	10/24/18 07:38	10/27/18 15:16	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B25 (0-5)

Lab Sample ID: 500-153334-25

Date Collected: 10/17/18 15:00

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 81.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.013	J	0.041	0.0079	mg/Kg	☼	10/24/18 07:38	10/27/18 15:16	1
Benzo[b]fluoranthene	0.020	J	0.041	0.0088	mg/Kg	☼	10/24/18 07:38	10/27/18 15:16	1
Benzo[g,h,i]perylene	0.014	J	0.041	0.013	mg/Kg	☼	10/24/18 07:38	10/27/18 15:16	1
Benzo[k]fluoranthene	<0.012		0.041	0.012	mg/Kg	☼	10/24/18 07:38	10/27/18 15:16	1
Bis(2-chloroethoxy)methane	<0.042		0.21	0.042	mg/Kg	☼	10/24/18 07:38	10/27/18 15:16	1
Bis(2-chloroethyl)ether	<0.061		0.21	0.061	mg/Kg	☼	10/24/18 07:38	10/27/18 15:16	1
Bis(2-ethylhexyl) phthalate	<0.075		0.21	0.075	mg/Kg	☼	10/24/18 07:38	10/27/18 15:16	1
4-Bromophenyl phenyl ether	<0.054		0.21	0.054	mg/Kg	☼	10/24/18 07:38	10/27/18 15:16	1
Butyl benzyl phthalate	<0.078		0.21	0.078	mg/Kg	☼	10/24/18 07:38	10/27/18 15:16	1
Carbazole	<0.10		0.21	0.10	mg/Kg	☼	10/24/18 07:38	10/27/18 15:16	1
4-Chloroaniline	<0.19		0.82	0.19	mg/Kg	☼	10/24/18 07:38	10/27/18 15:16	1
4-Chloro-3-methylphenol	<0.14		0.41	0.14	mg/Kg	☼	10/24/18 07:38	10/27/18 15:16	1
2-Chloronaphthalene	<0.045		0.21	0.045	mg/Kg	☼	10/24/18 07:38	10/27/18 15:16	1
2-Chlorophenol	<0.070		0.21	0.070	mg/Kg	☼	10/24/18 07:38	10/27/18 15:16	1
4-Chlorophenyl phenyl ether	<0.048		0.21	0.048	mg/Kg	☼	10/24/18 07:38	10/27/18 15:16	1
Chrysene	0.015	J	0.041	0.011	mg/Kg	☼	10/24/18 07:38	10/27/18 15:16	1
Dibenz(a,h)anthracene	<0.0079		0.041	0.0079	mg/Kg	☼	10/24/18 07:38	10/27/18 15:16	1
Dibenzofuran	<0.048		0.21	0.048	mg/Kg	☼	10/24/18 07:38	10/27/18 15:16	1
1,2-Dichlorobenzene	<0.049		0.21	0.049	mg/Kg	☼	10/24/18 07:38	10/27/18 15:16	1
1,3-Dichlorobenzene	<0.046		0.21	0.046	mg/Kg	☼	10/24/18 07:38	10/27/18 15:16	1
1,4-Dichlorobenzene	<0.052		0.21	0.052	mg/Kg	☼	10/24/18 07:38	10/27/18 15:16	1
3,3'-Dichlorobenzidine	<0.057		0.21	0.057	mg/Kg	☼	10/24/18 07:38	10/27/18 15:16	1
2,4-Dichlorophenol	<0.097		0.41	0.097	mg/Kg	☼	10/24/18 07:38	10/27/18 15:16	1
Diethyl phthalate	<0.069		0.21	0.069	mg/Kg	☼	10/24/18 07:38	10/27/18 15:16	1
2,4-Dimethylphenol	<0.15		0.41	0.15	mg/Kg	☼	10/24/18 07:38	10/27/18 15:16	1
Dimethyl phthalate	<0.053		0.21	0.053	mg/Kg	☼	10/24/18 07:38	10/27/18 15:16	1
Di-n-butyl phthalate	<0.062		0.21	0.062	mg/Kg	☼	10/24/18 07:38	10/27/18 15:16	1
4,6-Dinitro-2-methylphenol	<0.33		0.82	0.33	mg/Kg	☼	10/24/18 07:38	10/27/18 15:16	1
2,4-Dinitrophenol	<0.72		0.82	0.72	mg/Kg	☼	10/24/18 07:38	10/27/18 15:16	1
2,4-Dinitrotoluene	<0.065		0.21	0.065	mg/Kg	☼	10/24/18 07:38	10/27/18 15:16	1
2,6-Dinitrotoluene	<0.080		0.21	0.080	mg/Kg	☼	10/24/18 07:38	10/27/18 15:16	1
Di-n-octyl phthalate	<0.067		0.21	0.067	mg/Kg	☼	10/24/18 07:38	10/27/18 15:16	1
Fluoranthene	0.022	J	0.041	0.0076	mg/Kg	☼	10/24/18 07:38	10/27/18 15:16	1
Fluorene	<0.0057		0.041	0.0057	mg/Kg	☼	10/24/18 07:38	10/27/18 15:16	1
Hexachlorobenzene	<0.0095		0.082	0.0095	mg/Kg	☼	10/24/18 07:38	10/27/18 15:16	1
Hexachlorobutadiene	<0.064		0.21	0.064	mg/Kg	☼	10/24/18 07:38	10/27/18 15:16	1
Hexachlorocyclopentadiene	<0.23		0.82	0.23	mg/Kg	☼	10/24/18 07:38	10/27/18 15:16	1
Hexachloroethane	<0.062		0.21	0.062	mg/Kg	☼	10/24/18 07:38	10/27/18 15:16	1
Indeno[1,2,3-cd]pyrene	0.011	J	0.041	0.011	mg/Kg	☼	10/24/18 07:38	10/27/18 15:16	1
Isophorone	<0.046		0.21	0.046	mg/Kg	☼	10/24/18 07:38	10/27/18 15:16	1
2-Methylnaphthalene	<0.0075		0.082	0.0075	mg/Kg	☼	10/24/18 07:38	10/27/18 15:16	1
2-Methylphenol	<0.065		0.21	0.065	mg/Kg	☼	10/24/18 07:38	10/27/18 15:16	1
3 & 4 Methylphenol	<0.068		0.21	0.068	mg/Kg	☼	10/24/18 07:38	10/27/18 15:16	1
Naphthalene	<0.0063		0.041	0.0063	mg/Kg	☼	10/24/18 07:38	10/27/18 15:16	1
2-Nitroaniline	<0.055		0.21	0.055	mg/Kg	☼	10/24/18 07:38	10/27/18 15:16	1
3-Nitroaniline	<0.13		0.41	0.13	mg/Kg	☼	10/24/18 07:38	10/27/18 15:16	1
4-Nitroaniline	<0.17		0.41	0.17	mg/Kg	☼	10/24/18 07:38	10/27/18 15:16	1
Nitrobenzene	<0.010		0.041	0.010	mg/Kg	☼	10/24/18 07:38	10/27/18 15:16	1
2-Nitrophenol	<0.096		0.41	0.096	mg/Kg	☼	10/24/18 07:38	10/27/18 15:16	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B25 (0-5)

Lab Sample ID: 500-153334-25

Date Collected: 10/17/18 15:00

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 81.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.39		0.82	0.39	mg/Kg	☼	10/24/18 07:38	10/27/18 15:16	1
N-Nitrosodi-n-propylamine	<0.050		0.082	0.050	mg/Kg	☼	10/24/18 07:38	10/27/18 15:16	1
N-Nitrosodiphenylamine	<0.048		0.21	0.048	mg/Kg	☼	10/24/18 07:38	10/27/18 15:16	1
2,2'-oxybis[1-chloropropane]	<0.047		0.21	0.047	mg/Kg	☼	10/24/18 07:38	10/27/18 15:16	1
Pentachlorophenol	<0.65		0.82	0.65	mg/Kg	☼	10/24/18 07:38	10/27/18 15:16	1
Phenanthrene	0.011	J	0.041	0.0057	mg/Kg	☼	10/24/18 07:38	10/27/18 15:16	1
Phenol	<0.091		0.21	0.091	mg/Kg	☼	10/24/18 07:38	10/27/18 15:16	1
Pyrene	0.020	J	0.041	0.0081	mg/Kg	☼	10/24/18 07:38	10/27/18 15:16	1
1,2,4-Trichlorobenzene	<0.044		0.21	0.044	mg/Kg	☼	10/24/18 07:38	10/27/18 15:16	1
2,4,5-Trichlorophenol	<0.093		0.41	0.093	mg/Kg	☼	10/24/18 07:38	10/27/18 15:16	1
2,4,6-Trichlorophenol	<0.14		0.41	0.14	mg/Kg	☼	10/24/18 07:38	10/27/18 15:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	96		43 - 145				10/24/18 07:38	10/27/18 15:16	1
2-Fluorophenol	121		31 - 166				10/24/18 07:38	10/27/18 15:16	1
Nitrobenzene-d5	98		37 - 147				10/24/18 07:38	10/27/18 15:16	1
Phenol-d5	109		30 - 153				10/24/18 07:38	10/27/18 15:16	1
Terphenyl-d14	131		42 - 157				10/24/18 07:38	10/27/18 15:16	1
2,4,6-Tribromophenol	54		31 - 143				10/24/18 07:38	10/27/18 15:16	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.53	J B	1.2	0.24	mg/Kg	☼	10/24/18 08:37	10/25/18 01:23	1
Arsenic	8.9		0.60	0.21	mg/Kg	☼	10/24/18 08:37	10/25/18 01:23	1
Barium	91		0.60	0.069	mg/Kg	☼	10/24/18 08:37	10/25/18 01:23	1
Beryllium	0.67		0.24	0.056	mg/Kg	☼	10/24/18 08:37	10/25/18 01:23	1
Cadmium	0.13	B	0.12	0.022	mg/Kg	☼	10/24/18 08:37	10/25/18 01:23	1
Chromium	19	B	0.60	0.30	mg/Kg	☼	10/24/18 08:37	10/25/18 01:23	1
Cobalt	12		0.30	0.079	mg/Kg	☼	10/24/18 08:37	10/25/18 01:23	1
Copper	18	B	0.60	0.17	mg/Kg	☼	10/24/18 08:37	10/25/18 01:23	1
Iron	22000		12	6.3	mg/Kg	☼	10/24/18 08:37	10/25/18 01:23	1
Lead	32		0.30	0.14	mg/Kg	☼	10/24/18 08:37	10/25/18 01:23	1
Magnesium	4600		6.0	3.0	mg/Kg	☼	10/24/18 08:37	10/25/18 01:23	1
Calcium	4300	B	12	2.0	mg/Kg	☼	10/24/18 08:37	10/25/18 01:23	1
Manganese	530		0.60	0.088	mg/Kg	☼	10/24/18 08:37	10/25/18 01:23	1
Nickel	29		0.60	0.18	mg/Kg	☼	10/24/18 08:37	10/25/18 01:23	1
Selenium	0.53	J	0.60	0.36	mg/Kg	☼	10/24/18 08:37	10/25/18 01:23	1
Silver	0.32		0.30	0.078	mg/Kg	☼	10/24/18 08:37	10/25/18 01:23	1
Thallium	<0.30		0.60	0.30	mg/Kg	☼	10/24/18 08:37	10/25/18 01:23	1
Vanadium	29		0.30	0.071	mg/Kg	☼	10/24/18 08:37	10/25/18 01:23	1
Zinc	84		1.2	0.53	mg/Kg	☼	10/24/18 08:37	10/25/18 01:23	1
Potassium	1600		30	11	mg/Kg	☼	10/24/18 08:37	10/25/18 01:23	1
Sodium	310		60	8.9	mg/Kg	☼	10/24/18 08:37	10/25/18 01:23	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		10/25/18 15:16	10/26/18 12:13	1
Barium	0.48	J	0.50	0.050	mg/L		10/25/18 15:16	10/26/18 12:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/25/18 15:16	10/26/18 12:13	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		10/25/18 15:16	10/26/18 12:13	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B25 (0-5)

Lab Sample ID: 500-153334-25

Date Collected: 10/17/18 15:00

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 81.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	72		5.0	0.50	mg/L		10/25/18 15:16	10/26/18 12:13	1
Chromium	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:13	1
Cobalt	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:13	1
Copper	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:13	1
Iron	<0.20		0.40	0.20	mg/L		10/25/18 15:16	10/26/18 12:13	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/25/18 15:16	10/26/18 12:13	1
Magnesium	26		2.5	0.50	mg/L		10/25/18 15:16	10/26/18 12:13	1
Manganese	0.036		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:13	1
Nickel	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:13	1
Potassium	3.2		2.5	0.50	mg/L		10/25/18 15:16	10/26/18 12:13	1
Selenium	<0.020		0.050	0.020	mg/L		10/25/18 15:16	10/26/18 12:13	1
Silver	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:13	1
Vanadium	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:13	1
Zinc	0.027 J		0.50	0.020	mg/L		10/25/18 15:16	10/26/18 12:13	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		10/25/18 15:16	10/26/18 12:45	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/25/18 15:16	10/26/18 12:45	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		10/25/18 12:40	10/26/18 09:33	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.020	0.0066	mg/Kg	☼	10/24/18 16:40	10/25/18 08:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.18		0.51	0.18	mg/Kg	☼	10/26/18 11:10	10/26/18 15:25	1
pH	7.9		0.2	0.2	SU			10/24/18 16:39	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
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
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.
F3	Duplicate RPD exceeds the control limit
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.
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.
E	Result exceeded calibration range.

General Chemistry

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.

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)

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEQ	Toxicity Equivalent Quotient (Dioxin)

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeville - WO 054

TestAmerica Job ID: 500-153334-1

GC/MS VOA

Prep Batch: 455801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153334-1	2947V-17-B04 (0-5)	Total/NA	Solid	5035	
500-153334-2	2947V-17-B05 (0-5)	Total/NA	Solid	5035	
500-153334-3	2947V-17-B06 (0-5)	Total/NA	Solid	5035	
500-153334-4	2947V-17-B10 (0-5)	Total/NA	Solid	5035	
500-153334-5	2947V-17-B11 (0-5)	Total/NA	Solid	5035	
500-153334-6	2947V-17-B12 (0-5)	Total/NA	Solid	5035	
500-153334-7	2947V-17-B36 (0-5)	Total/NA	Solid	5035	
500-153334-8	2947V-17-B37 (0-5)	Total/NA	Solid	5035	
500-153334-9	2947V-17-B38 (0-5)	Total/NA	Solid	5035	
500-153334-10	2947V-17-B39 (0-2)	Total/NA	Solid	5035	
500-153334-11	2947V-17-B40 (0-4)	Total/NA	Solid	5035	
500-153334-12	2947V-17-B15 (0-5)	Total/NA	Solid	5035	
500-153334-13	2947V-17-B15 (0-5) Dup	Total/NA	Solid	5035	
500-153334-14	2947V-17-B14 (0-5)	Total/NA	Solid	5035	
500-153334-15	2947V-17-B13 (0-5)	Total/NA	Solid	5035	
500-153334-16	2947V-17-B09 (0-5)	Total/NA	Solid	5035	
500-153334-17	2947V-17-B08 (0-5)	Total/NA	Solid	5035	
500-153334-18	2947V-17-B07 (0-5)	Total/NA	Solid	5035	
500-153334-19	2947V-17-B03 (0-5)	Total/NA	Solid	5035	
500-153334-20	2947V-17-B02 (0-5)	Total/NA	Solid	5035	
500-153334-21	2947V-17-B02 (0-5) Dup	Total/NA	Solid	5035	
500-153334-22	2947V-17-B01 (0-5)	Total/NA	Solid	5035	
500-153334-23	2947V-17-B27 (0-5)	Total/NA	Solid	5035	
500-153334-24	2947V-17-B26 (0-5)	Total/NA	Solid	5035	
500-153334-25	2947V-17-B25 (0-5)	Total/NA	Solid	5035	

Analysis Batch: 456979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153334-1	2947V-17-B04 (0-5)	Total/NA	Solid	8260B	455801
500-153334-2	2947V-17-B05 (0-5)	Total/NA	Solid	8260B	455801
500-153334-3	2947V-17-B06 (0-5)	Total/NA	Solid	8260B	455801
500-153334-4	2947V-17-B10 (0-5)	Total/NA	Solid	8260B	455801
500-153334-5	2947V-17-B11 (0-5)	Total/NA	Solid	8260B	455801
500-153334-6	2947V-17-B12 (0-5)	Total/NA	Solid	8260B	455801
500-153334-7	2947V-17-B36 (0-5)	Total/NA	Solid	8260B	455801
500-153334-8	2947V-17-B37 (0-5)	Total/NA	Solid	8260B	455801
500-153334-9	2947V-17-B38 (0-5)	Total/NA	Solid	8260B	455801
500-153334-10	2947V-17-B39 (0-2)	Total/NA	Solid	8260B	455801
MB 500-456979/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-456979/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-456979/7	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 456981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153334-11	2947V-17-B40 (0-4)	Total/NA	Solid	8260B	455801
500-153334-12	2947V-17-B15 (0-5)	Total/NA	Solid	8260B	455801
MB 500-456981/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-456981/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-456981/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeville - WO 054

TestAmerica Job ID: 500-153334-1

GC/MS VOA (Continued)

Analysis Batch: 457169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153334-13	2947V-17-B15 (0-5) Dup	Total/NA	Solid	8260B	455801
500-153334-14	2947V-17-B14 (0-5)	Total/NA	Solid	8260B	455801
500-153334-15	2947V-17-B13 (0-5)	Total/NA	Solid	8260B	455801
500-153334-16	2947V-17-B09 (0-5)	Total/NA	Solid	8260B	455801
500-153334-17	2947V-17-B08 (0-5)	Total/NA	Solid	8260B	455801
500-153334-18	2947V-17-B07 (0-5)	Total/NA	Solid	8260B	455801
500-153334-19	2947V-17-B03 (0-5)	Total/NA	Solid	8260B	455801
500-153334-20	2947V-17-B02 (0-5)	Total/NA	Solid	8260B	455801
500-153334-21	2947V-17-B02 (0-5) Dup	Total/NA	Solid	8260B	455801
500-153334-22	2947V-17-B01 (0-5)	Total/NA	Solid	8260B	455801
500-153334-23	2947V-17-B27 (0-5)	Total/NA	Solid	8260B	455801
500-153334-24	2947V-17-B26 (0-5)	Total/NA	Solid	8260B	455801
500-153334-25	2947V-17-B25 (0-5)	Total/NA	Solid	8260B	455801
MB 500-457169/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-457169/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-457169/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 456471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153334-1	2947V-17-B04 (0-5)	Total/NA	Solid	3541	
500-153334-2	2947V-17-B05 (0-5)	Total/NA	Solid	3541	
500-153334-3	2947V-17-B06 (0-5)	Total/NA	Solid	3541	
500-153334-4	2947V-17-B10 (0-5)	Total/NA	Solid	3541	
500-153334-5	2947V-17-B11 (0-5)	Total/NA	Solid	3541	
500-153334-6	2947V-17-B12 (0-5)	Total/NA	Solid	3541	
500-153334-7	2947V-17-B36 (0-5)	Total/NA	Solid	3541	
500-153334-8	2947V-17-B37 (0-5)	Total/NA	Solid	3541	
500-153334-9	2947V-17-B38 (0-5)	Total/NA	Solid	3541	
500-153334-10	2947V-17-B39 (0-2)	Total/NA	Solid	3541	
500-153334-11	2947V-17-B40 (0-4)	Total/NA	Solid	3541	
500-153334-11 - DL	2947V-17-B40 (0-4)	Total/NA	Solid	3541	
500-153334-12	2947V-17-B15 (0-5)	Total/NA	Solid	3541	
500-153334-13	2947V-17-B15 (0-5) Dup	Total/NA	Solid	3541	
500-153334-14	2947V-17-B14 (0-5)	Total/NA	Solid	3541	
500-153334-15	2947V-17-B13 (0-5)	Total/NA	Solid	3541	
500-153334-16	2947V-17-B09 (0-5)	Total/NA	Solid	3541	
500-153334-17	2947V-17-B08 (0-5)	Total/NA	Solid	3541	
500-153334-18	2947V-17-B07 (0-5)	Total/NA	Solid	3541	
500-153334-19	2947V-17-B03 (0-5)	Total/NA	Solid	3541	
500-153334-20	2947V-17-B02 (0-5)	Total/NA	Solid	3541	
MB 500-456471/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-456471/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-153334-1 MS	2947V-17-B04 (0-5)	Total/NA	Solid	3541	
500-153334-1 MSD	2947V-17-B04 (0-5)	Total/NA	Solid	3541	

Prep Batch: 456475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153334-21	2947V-17-B02 (0-5) Dup	Total/NA	Solid	3541	

TestAmerica Chicago

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

GC/MS Semi VOA (Continued)

Prep Batch: 456475 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153334-22	2947V-17-B01 (0-5)	Total/NA	Solid	3541	
500-153334-23	2947V-17-B27 (0-5)	Total/NA	Solid	3541	
500-153334-24	2947V-17-B26 (0-5)	Total/NA	Solid	3541	
500-153334-25	2947V-17-B25 (0-5)	Total/NA	Solid	3541	
MB 500-456475/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-456475/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 456723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-456471/1-A	Method Blank	Total/NA	Solid	8270D	456471
MB 500-456475/1-A	Method Blank	Total/NA	Solid	8270D	456475
LCS 500-456471/2-A	Lab Control Sample	Total/NA	Solid	8270D	456471
LCS 500-456475/2-A	Lab Control Sample	Total/NA	Solid	8270D	456475

Analysis Batch: 456939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153334-21	2947V-17-B02 (0-5) Dup	Total/NA	Solid	8270D	456475
500-153334-22	2947V-17-B01 (0-5)	Total/NA	Solid	8270D	456475
500-153334-23	2947V-17-B27 (0-5)	Total/NA	Solid	8270D	456475
500-153334-24	2947V-17-B26 (0-5)	Total/NA	Solid	8270D	456475

Analysis Batch: 457115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153334-1	2947V-17-B04 (0-5)	Total/NA	Solid	8270D	456471
500-153334-2	2947V-17-B05 (0-5)	Total/NA	Solid	8270D	456471
500-153334-3	2947V-17-B06 (0-5)	Total/NA	Solid	8270D	456471
500-153334-4	2947V-17-B10 (0-5)	Total/NA	Solid	8270D	456471
500-153334-5	2947V-17-B11 (0-5)	Total/NA	Solid	8270D	456471
500-153334-6	2947V-17-B12 (0-5)	Total/NA	Solid	8270D	456471
500-153334-7	2947V-17-B36 (0-5)	Total/NA	Solid	8270D	456471
500-153334-8	2947V-17-B37 (0-5)	Total/NA	Solid	8270D	456471
500-153334-9	2947V-17-B38 (0-5)	Total/NA	Solid	8270D	456471
500-153334-10	2947V-17-B39 (0-2)	Total/NA	Solid	8270D	456471
500-153334-11	2947V-17-B40 (0-4)	Total/NA	Solid	8270D	456471
500-153334-12	2947V-17-B15 (0-5)	Total/NA	Solid	8270D	456471
500-153334-13	2947V-17-B15 (0-5) Dup	Total/NA	Solid	8270D	456471
500-153334-14	2947V-17-B14 (0-5)	Total/NA	Solid	8270D	456471
500-153334-15	2947V-17-B13 (0-5)	Total/NA	Solid	8270D	456471
500-153334-16	2947V-17-B09 (0-5)	Total/NA	Solid	8270D	456471
500-153334-17	2947V-17-B08 (0-5)	Total/NA	Solid	8270D	456471
500-153334-18	2947V-17-B07 (0-5)	Total/NA	Solid	8270D	456471
500-153334-19	2947V-17-B03 (0-5)	Total/NA	Solid	8270D	456471
500-153334-20	2947V-17-B02 (0-5)	Total/NA	Solid	8270D	456471

Analysis Batch: 457142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153334-25	2947V-17-B25 (0-5)	Total/NA	Solid	8270D	456475

Analysis Batch: 457294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153334-11 - DL	2947V-17-B40 (0-4)	Total/NA	Solid	8270D	456471

TestAmerica Chicago

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeville - WO 054

TestAmerica Job ID: 500-153334-1

GC/MS Semi VOA (Continued)

Analysis Batch: 457294 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153334-1 MS	2947V-17-B04 (0-5)	Total/NA	Solid	8270D	456471
500-153334-1 MSD	2947V-17-B04 (0-5)	Total/NA	Solid	8270D	456471

Metals

Prep Batch: 456364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153334-1	2947V-17-B04 (0-5)	Total/NA	Solid	7471B	
500-153334-2	2947V-17-B05 (0-5)	Total/NA	Solid	7471B	
500-153334-3	2947V-17-B06 (0-5)	Total/NA	Solid	7471B	
500-153334-4	2947V-17-B10 (0-5)	Total/NA	Solid	7471B	
500-153334-5	2947V-17-B11 (0-5)	Total/NA	Solid	7471B	
500-153334-6	2947V-17-B12 (0-5)	Total/NA	Solid	7471B	
500-153334-7	2947V-17-B36 (0-5)	Total/NA	Solid	7471B	
500-153334-8	2947V-17-B37 (0-5)	Total/NA	Solid	7471B	
500-153334-9	2947V-17-B38 (0-5)	Total/NA	Solid	7471B	
500-153334-10	2947V-17-B39 (0-2)	Total/NA	Solid	7471B	
500-153334-11	2947V-17-B40 (0-4)	Total/NA	Solid	7471B	
500-153334-12	2947V-17-B15 (0-5)	Total/NA	Solid	7471B	
500-153334-13	2947V-17-B15 (0-5) Dup	Total/NA	Solid	7471B	
500-153334-14	2947V-17-B14 (0-5)	Total/NA	Solid	7471B	
500-153334-15	2947V-17-B13 (0-5)	Total/NA	Solid	7471B	
500-153334-16	2947V-17-B09 (0-5)	Total/NA	Solid	7471B	
500-153334-17	2947V-17-B08 (0-5)	Total/NA	Solid	7471B	
500-153334-18	2947V-17-B07 (0-5)	Total/NA	Solid	7471B	
500-153334-19	2947V-17-B03 (0-5)	Total/NA	Solid	7471B	
MB 500-456364/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-456364/13-A	Lab Control Sample	Total/NA	Solid	7471B	
500-153334-11 MS	2947V-17-B40 (0-4)	Total/NA	Solid	7471B	
500-153334-11 MSD	2947V-17-B40 (0-4)	Total/NA	Solid	7471B	
500-153334-11 DU	2947V-17-B40 (0-4)	Total/NA	Solid	7471B	

Prep Batch: 456503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153334-1	2947V-17-B04 (0-5)	Total/NA	Solid	3050B	
500-153334-2	2947V-17-B05 (0-5)	Total/NA	Solid	3050B	
500-153334-3	2947V-17-B06 (0-5)	Total/NA	Solid	3050B	
500-153334-4	2947V-17-B10 (0-5)	Total/NA	Solid	3050B	
500-153334-5	2947V-17-B11 (0-5)	Total/NA	Solid	3050B	
500-153334-6	2947V-17-B12 (0-5)	Total/NA	Solid	3050B	
500-153334-7	2947V-17-B36 (0-5)	Total/NA	Solid	3050B	
500-153334-8	2947V-17-B37 (0-5)	Total/NA	Solid	3050B	
500-153334-9	2947V-17-B38 (0-5)	Total/NA	Solid	3050B	
500-153334-10	2947V-17-B39 (0-2)	Total/NA	Solid	3050B	
500-153334-11	2947V-17-B40 (0-4)	Total/NA	Solid	3050B	
500-153334-12	2947V-17-B15 (0-5)	Total/NA	Solid	3050B	
500-153334-13	2947V-17-B15 (0-5) Dup	Total/NA	Solid	3050B	
500-153334-14	2947V-17-B14 (0-5)	Total/NA	Solid	3050B	
500-153334-15	2947V-17-B13 (0-5)	Total/NA	Solid	3050B	
500-153334-16	2947V-17-B09 (0-5)	Total/NA	Solid	3050B	

TestAmerica Chicago

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Metals (Continued)

Prep Batch: 456503 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153334-17	2947V-17-B08 (0-5)	Total/NA	Solid	3050B	
500-153334-18	2947V-17-B07 (0-5)	Total/NA	Solid	3050B	
500-153334-19	2947V-17-B03 (0-5)	Total/NA	Solid	3050B	
500-153334-20	2947V-17-B02 (0-5)	Total/NA	Solid	3050B	
MB 500-456503/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-456503/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-153334-12 MS	2947V-17-B15 (0-5)	Total/NA	Solid	3050B	
500-153334-12 MSD	2947V-17-B15 (0-5)	Total/NA	Solid	3050B	
500-153334-12 DU	2947V-17-B15 (0-5)	Total/NA	Solid	3050B	

Prep Batch: 456512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153334-21	2947V-17-B02 (0-5) Dup	Total/NA	Solid	3050B	
500-153334-22	2947V-17-B01 (0-5)	Total/NA	Solid	3050B	
500-153334-23	2947V-17-B27 (0-5)	Total/NA	Solid	3050B	
500-153334-24	2947V-17-B26 (0-5)	Total/NA	Solid	3050B	
500-153334-25	2947V-17-B25 (0-5)	Total/NA	Solid	3050B	
MB 500-456512/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-456512/2-A ^2	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 456577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153334-1	2947V-17-B04 (0-5)	Total/NA	Solid	7471B	456364
500-153334-2	2947V-17-B05 (0-5)	Total/NA	Solid	7471B	456364
500-153334-3	2947V-17-B06 (0-5)	Total/NA	Solid	7471B	456364
500-153334-4	2947V-17-B10 (0-5)	Total/NA	Solid	7471B	456364
500-153334-5	2947V-17-B11 (0-5)	Total/NA	Solid	7471B	456364
500-153334-6	2947V-17-B12 (0-5)	Total/NA	Solid	7471B	456364
500-153334-7	2947V-17-B36 (0-5)	Total/NA	Solid	7471B	456364
500-153334-8	2947V-17-B37 (0-5)	Total/NA	Solid	7471B	456364
500-153334-9	2947V-17-B38 (0-5)	Total/NA	Solid	7471B	456364
500-153334-10	2947V-17-B39 (0-2)	Total/NA	Solid	7471B	456364
500-153334-11	2947V-17-B40 (0-4)	Total/NA	Solid	7471B	456364
500-153334-12	2947V-17-B15 (0-5)	Total/NA	Solid	7471B	456364
500-153334-13	2947V-17-B15 (0-5) Dup	Total/NA	Solid	7471B	456364
500-153334-14	2947V-17-B14 (0-5)	Total/NA	Solid	7471B	456364
500-153334-15	2947V-17-B13 (0-5)	Total/NA	Solid	7471B	456364
500-153334-16	2947V-17-B09 (0-5)	Total/NA	Solid	7471B	456364
500-153334-17	2947V-17-B08 (0-5)	Total/NA	Solid	7471B	456364
500-153334-18	2947V-17-B07 (0-5)	Total/NA	Solid	7471B	456364
500-153334-19	2947V-17-B03 (0-5)	Total/NA	Solid	7471B	456364
MB 500-456364/12-A	Method Blank	Total/NA	Solid	7471B	456364
LCS 500-456364/13-A	Lab Control Sample	Total/NA	Solid	7471B	456364
500-153334-11 MS	2947V-17-B40 (0-4)	Total/NA	Solid	7471B	456364
500-153334-11 MSD	2947V-17-B40 (0-4)	Total/NA	Solid	7471B	456364
500-153334-11 DU	2947V-17-B40 (0-4)	Total/NA	Solid	7471B	456364

Prep Batch: 456590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153334-20	2947V-17-B02 (0-5)	Total/NA	Solid	7471B	
MB 500-456590/12-A	Method Blank	Total/NA	Solid	7471B	

TestAmerica Chicago

QC Association Summary

Client: Terracon Consulting Eng & Scientists
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TestAmerica Job ID: 500-153334-1

Metals (Continued)

Prep Batch: 456590 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-456590/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Prep Batch: 456591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153334-21	2947V-17-B02 (0-5) Dup	Total/NA	Solid	7471B	
500-153334-22	2947V-17-B01 (0-5)	Total/NA	Solid	7471B	
500-153334-23	2947V-17-B27 (0-5)	Total/NA	Solid	7471B	
500-153334-24	2947V-17-B26 (0-5)	Total/NA	Solid	7471B	
500-153334-25	2947V-17-B25 (0-5)	Total/NA	Solid	7471B	
MB 500-456591/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-456591/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Leach Batch: 456605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153334-1	2947V-17-B04 (0-5)	SPLP East	Solid	1312	
500-153334-2	2947V-17-B05 (0-5)	SPLP East	Solid	1312	
500-153334-3	2947V-17-B06 (0-5)	SPLP East	Solid	1312	
500-153334-4	2947V-17-B10 (0-5)	SPLP East	Solid	1312	
500-153334-5	2947V-17-B11 (0-5)	SPLP East	Solid	1312	
500-153334-6	2947V-17-B12 (0-5)	SPLP East	Solid	1312	
500-153334-7	2947V-17-B36 (0-5)	SPLP East	Solid	1312	
500-153334-8	2947V-17-B37 (0-5)	SPLP East	Solid	1312	
500-153334-9	2947V-17-B38 (0-5)	SPLP East	Solid	1312	
500-153334-10	2947V-17-B39 (0-2)	SPLP East	Solid	1312	
500-153334-11	2947V-17-B40 (0-4)	SPLP East	Solid	1312	
500-153334-12	2947V-17-B15 (0-5)	SPLP East	Solid	1312	
500-153334-13	2947V-17-B15 (0-5) Dup	SPLP East	Solid	1312	
500-153334-14	2947V-17-B14 (0-5)	SPLP East	Solid	1312	
500-153334-17	2947V-17-B08 (0-5)	SPLP East	Solid	1312	
500-153334-19	2947V-17-B03 (0-5)	SPLP East	Solid	1312	
500-153334-20	2947V-17-B02 (0-5)	SPLP East	Solid	1312	
LB 500-456605/1-B	Method Blank	SPLP East	Solid	1312	
500-153334-20 MS	2947V-17-B02 (0-5)	SPLP East	Solid	1312	
500-153334-20 DU	2947V-17-B02 (0-5)	SPLP East	Solid	1312	

Leach Batch: 456606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153334-21	2947V-17-B02 (0-5) Dup	SPLP East	Solid	1312	
LB 500-456606/1-B	Method Blank	SPLP East	Solid	1312	

Leach Batch: 456607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153334-1	2947V-17-B04 (0-5)	TCLP	Solid	1311	
500-153334-2	2947V-17-B05 (0-5)	TCLP	Solid	1311	
500-153334-3	2947V-17-B06 (0-5)	TCLP	Solid	1311	
500-153334-4	2947V-17-B10 (0-5)	TCLP	Solid	1311	
500-153334-5	2947V-17-B11 (0-5)	TCLP	Solid	1311	
500-153334-6	2947V-17-B12 (0-5)	TCLP	Solid	1311	
500-153334-7	2947V-17-B36 (0-5)	TCLP	Solid	1311	
500-153334-8	2947V-17-B37 (0-5)	TCLP	Solid	1311	
500-153334-9	2947V-17-B38 (0-5)	TCLP	Solid	1311	

TestAmerica Chicago

QC Association Summary

Client: Terracon Consulting Eng & Scientists
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TestAmerica Job ID: 500-153334-1

Metals (Continued)

Leach Batch: 456607 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153334-10	2947V-17-B39 (0-2)	TCLP	Solid	1311	
500-153334-11	2947V-17-B40 (0-4)	TCLP	Solid	1311	
500-153334-12	2947V-17-B15 (0-5)	TCLP	Solid	1311	
500-153334-13	2947V-17-B15 (0-5) Dup	TCLP	Solid	1311	
500-153334-14	2947V-17-B14 (0-5)	TCLP	Solid	1311	
500-153334-15	2947V-17-B13 (0-5)	TCLP	Solid	1311	
500-153334-16	2947V-17-B09 (0-5)	TCLP	Solid	1311	
500-153334-17	2947V-17-B08 (0-5)	TCLP	Solid	1311	
500-153334-18	2947V-17-B07 (0-5)	TCLP	Solid	1311	
500-153334-19	2947V-17-B03 (0-5)	TCLP	Solid	1311	
500-153334-20	2947V-17-B02 (0-5)	TCLP	Solid	1311	
LB 500-456607/1-B	Method Blank	TCLP	Solid	1311	
LB 500-456607/1-C	Method Blank	TCLP	Solid	1311	
500-153334-11 MS	2947V-17-B40 (0-4)	TCLP	Solid	1311	
500-153334-20 MS	2947V-17-B02 (0-5)	TCLP	Solid	1311	
500-153334-11 DU	2947V-17-B40 (0-4)	TCLP	Solid	1311	
500-153334-20 DU	2947V-17-B02 (0-5)	TCLP	Solid	1311	

Leach Batch: 456609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153334-21	2947V-17-B02 (0-5) Dup	TCLP	Solid	1311	
500-153334-22	2947V-17-B01 (0-5)	TCLP	Solid	1311	
500-153334-23	2947V-17-B27 (0-5)	TCLP	Solid	1311	
500-153334-24	2947V-17-B26 (0-5)	TCLP	Solid	1311	
500-153334-25	2947V-17-B25 (0-5)	TCLP	Solid	1311	
LB 500-456609/1-B	Method Blank	TCLP	Solid	1311	
LB 500-456609/1-C	Method Blank	TCLP	Solid	1311	

Analysis Batch: 456707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153334-1	2947V-17-B04 (0-5)	Total/NA	Solid	6010B	456503
500-153334-2	2947V-17-B05 (0-5)	Total/NA	Solid	6010B	456503
500-153334-3	2947V-17-B06 (0-5)	Total/NA	Solid	6010B	456503
500-153334-4	2947V-17-B10 (0-5)	Total/NA	Solid	6010B	456503
500-153334-5	2947V-17-B11 (0-5)	Total/NA	Solid	6010B	456503
500-153334-6	2947V-17-B12 (0-5)	Total/NA	Solid	6010B	456503
500-153334-7	2947V-17-B36 (0-5)	Total/NA	Solid	6010B	456503
500-153334-8	2947V-17-B37 (0-5)	Total/NA	Solid	6010B	456503
500-153334-9	2947V-17-B38 (0-5)	Total/NA	Solid	6010B	456503
500-153334-10	2947V-17-B39 (0-2)	Total/NA	Solid	6010B	456503
500-153334-11	2947V-17-B40 (0-4)	Total/NA	Solid	6010B	456503
500-153334-12	2947V-17-B15 (0-5)	Total/NA	Solid	6010B	456503
500-153334-13	2947V-17-B15 (0-5) Dup	Total/NA	Solid	6010B	456503
500-153334-14	2947V-17-B14 (0-5)	Total/NA	Solid	6010B	456503
500-153334-15	2947V-17-B13 (0-5)	Total/NA	Solid	6010B	456503
500-153334-16	2947V-17-B09 (0-5)	Total/NA	Solid	6010B	456503
500-153334-17	2947V-17-B08 (0-5)	Total/NA	Solid	6010B	456503
500-153334-18	2947V-17-B07 (0-5)	Total/NA	Solid	6010B	456503
500-153334-19	2947V-17-B03 (0-5)	Total/NA	Solid	6010B	456503
500-153334-20	2947V-17-B02 (0-5)	Total/NA	Solid	6010B	456503
MB 500-456503/1-A	Method Blank	Total/NA	Solid	6010B	456503

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
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TestAmerica Job ID: 500-153334-1

Metals (Continued)

Analysis Batch: 456707 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-456503/2-A	Lab Control Sample	Total/NA	Solid	6010B	456503
500-153334-12 MS	2947V-17-B15 (0-5)	Total/NA	Solid	6010B	456503
500-153334-12 MSD	2947V-17-B15 (0-5)	Total/NA	Solid	6010B	456503
500-153334-12 DU	2947V-17-B15 (0-5)	Total/NA	Solid	6010B	456503

Analysis Batch: 456708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153334-21	2947V-17-B02 (0-5) Dup	Total/NA	Solid	6010B	456512
500-153334-22	2947V-17-B01 (0-5)	Total/NA	Solid	6010B	456512
500-153334-23	2947V-17-B27 (0-5)	Total/NA	Solid	6010B	456512
500-153334-24	2947V-17-B26 (0-5)	Total/NA	Solid	6010B	456512
500-153334-25	2947V-17-B25 (0-5)	Total/NA	Solid	6010B	456512
MB 500-456512/1-A	Method Blank	Total/NA	Solid	6010B	456512
LCS 500-456512/2-A ^2	Lab Control Sample	Total/NA	Solid	6010B	456512

Prep Batch: 456775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153334-1	2947V-17-B04 (0-5)	TCLP	Solid	3010A	456607
500-153334-2	2947V-17-B05 (0-5)	TCLP	Solid	3010A	456607
500-153334-3	2947V-17-B06 (0-5)	TCLP	Solid	3010A	456607
500-153334-4	2947V-17-B10 (0-5)	TCLP	Solid	3010A	456607
500-153334-5	2947V-17-B11 (0-5)	TCLP	Solid	3010A	456607
500-153334-6	2947V-17-B12 (0-5)	TCLP	Solid	3010A	456607
500-153334-7	2947V-17-B36 (0-5)	TCLP	Solid	3010A	456607
500-153334-8	2947V-17-B37 (0-5)	TCLP	Solid	3010A	456607
500-153334-9	2947V-17-B38 (0-5)	TCLP	Solid	3010A	456607
500-153334-10	2947V-17-B39 (0-2)	TCLP	Solid	3010A	456607
500-153334-11	2947V-17-B40 (0-4)	TCLP	Solid	3010A	456607
500-153334-12	2947V-17-B15 (0-5)	TCLP	Solid	3010A	456607
500-153334-13	2947V-17-B15 (0-5) Dup	TCLP	Solid	3010A	456607
500-153334-14	2947V-17-B14 (0-5)	TCLP	Solid	3010A	456607
500-153334-15	2947V-17-B13 (0-5)	TCLP	Solid	3010A	456607
500-153334-16	2947V-17-B09 (0-5)	TCLP	Solid	3010A	456607
500-153334-17	2947V-17-B08 (0-5)	TCLP	Solid	3010A	456607
500-153334-18	2947V-17-B07 (0-5)	TCLP	Solid	3010A	456607
500-153334-19	2947V-17-B03 (0-5)	TCLP	Solid	3010A	456607
500-153334-20	2947V-17-B02 (0-5)	TCLP	Solid	3010A	456607
LB 500-456607/1-B	Method Blank	TCLP	Solid	3010A	456607
LCS 500-456775/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-153334-20 MS	2947V-17-B02 (0-5)	TCLP	Solid	3010A	456607
500-153334-20 DU	2947V-17-B02 (0-5)	TCLP	Solid	3010A	456607

Prep Batch: 456787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153334-1	2947V-17-B04 (0-5)	TCLP	Solid	7470A	456607
500-153334-2	2947V-17-B05 (0-5)	TCLP	Solid	7470A	456607
500-153334-3	2947V-17-B06 (0-5)	TCLP	Solid	7470A	456607
500-153334-4	2947V-17-B10 (0-5)	TCLP	Solid	7470A	456607
500-153334-5	2947V-17-B11 (0-5)	TCLP	Solid	7470A	456607
500-153334-6	2947V-17-B12 (0-5)	TCLP	Solid	7470A	456607
500-153334-7	2947V-17-B36 (0-5)	TCLP	Solid	7470A	456607

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Client: Terracon Consulting Eng & Scientists
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TestAmerica Job ID: 500-153334-1

Metals (Continued)

Prep Batch: 456787 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153334-8	2947V-17-B37 (0-5)	TCLP	Solid	7470A	456607
500-153334-9	2947V-17-B38 (0-5)	TCLP	Solid	7470A	456607
500-153334-10	2947V-17-B39 (0-2)	TCLP	Solid	7470A	456607
500-153334-11	2947V-17-B40 (0-4)	TCLP	Solid	7470A	456607
500-153334-12	2947V-17-B15 (0-5)	TCLP	Solid	7470A	456607
500-153334-13	2947V-17-B15 (0-5) Dup	TCLP	Solid	7470A	456607
500-153334-14	2947V-17-B14 (0-5)	TCLP	Solid	7470A	456607
500-153334-15	2947V-17-B13 (0-5)	TCLP	Solid	7470A	456607
500-153334-16	2947V-17-B09 (0-5)	TCLP	Solid	7470A	456607
500-153334-17	2947V-17-B08 (0-5)	TCLP	Solid	7470A	456607
500-153334-18	2947V-17-B07 (0-5)	TCLP	Solid	7470A	456607
500-153334-19	2947V-17-B03 (0-5)	TCLP	Solid	7470A	456607
500-153334-20	2947V-17-B02 (0-5)	TCLP	Solid	7470A	456607
LB 500-456607/1-C	Method Blank	TCLP	Solid	7470A	456607
MB 500-456787/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-456787/13-A	Lab Control Sample	Total/NA	Solid	7470A	
500-153334-11 MS	2947V-17-B40 (0-4)	TCLP	Solid	7470A	456607
500-153334-11 DU	2947V-17-B40 (0-4)	TCLP	Solid	7470A	456607

Prep Batch: 456788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153334-21	2947V-17-B02 (0-5) Dup	TCLP	Solid	7470A	456609
500-153334-22	2947V-17-B01 (0-5)	TCLP	Solid	7470A	456609
500-153334-23	2947V-17-B27 (0-5)	TCLP	Solid	7470A	456609
500-153334-24	2947V-17-B26 (0-5)	TCLP	Solid	7470A	456609
500-153334-25	2947V-17-B25 (0-5)	TCLP	Solid	7470A	456609
LB 500-456609/1-B	Method Blank	TCLP	Solid	7470A	456609
MB 500-456788/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-456788/13-A	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 456825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153334-20	2947V-17-B02 (0-5)	Total/NA	Solid	7471B	456590
500-153334-21	2947V-17-B02 (0-5) Dup	Total/NA	Solid	7471B	456591
500-153334-22	2947V-17-B01 (0-5)	Total/NA	Solid	7471B	456591
500-153334-23	2947V-17-B27 (0-5)	Total/NA	Solid	7471B	456591
500-153334-24	2947V-17-B26 (0-5)	Total/NA	Solid	7471B	456591
500-153334-25	2947V-17-B25 (0-5)	Total/NA	Solid	7471B	456591
MB 500-456590/12-A	Method Blank	Total/NA	Solid	7471B	456590
MB 500-456591/12-A	Method Blank	Total/NA	Solid	7471B	456591
LCS 500-456590/13-A	Lab Control Sample	Total/NA	Solid	7471B	456590
LCS 500-456591/13-A	Lab Control Sample	Total/NA	Solid	7471B	456591

Analysis Batch: 456827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153334-3	2947V-17-B06 (0-5)	Total/NA	Solid	6010B	456503
500-153334-4	2947V-17-B10 (0-5)	Total/NA	Solid	6010B	456503
500-153334-5	2947V-17-B11 (0-5)	Total/NA	Solid	6010B	456503
500-153334-6	2947V-17-B12 (0-5)	Total/NA	Solid	6010B	456503
500-153334-8	2947V-17-B37 (0-5)	Total/NA	Solid	6010B	456503
500-153334-9	2947V-17-B38 (0-5)	Total/NA	Solid	6010B	456503

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Client: Terracon Consulting Eng & Scientists
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Metals (Continued)

Analysis Batch: 456827 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153334-11	2947V-17-B40 (0-4)	Total/NA	Solid	6010B	456503
500-153334-14	2947V-17-B14 (0-5)	Total/NA	Solid	6010B	456503
500-153334-15	2947V-17-B13 (0-5)	Total/NA	Solid	6010B	456503
500-153334-20	2947V-17-B02 (0-5)	Total/NA	Solid	6010B	456503
500-153334-21	2947V-17-B02 (0-5) Dup	Total/NA	Solid	6010B	456512

Prep Batch: 456851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153334-1	2947V-17-B04 (0-5)	SPLP East	Solid	3010A	456605
500-153334-2	2947V-17-B05 (0-5)	SPLP East	Solid	3010A	456605
500-153334-3	2947V-17-B06 (0-5)	SPLP East	Solid	3010A	456605
500-153334-4	2947V-17-B10 (0-5)	SPLP East	Solid	3010A	456605
500-153334-5	2947V-17-B11 (0-5)	SPLP East	Solid	3010A	456605
500-153334-6	2947V-17-B12 (0-5)	SPLP East	Solid	3010A	456605
500-153334-7	2947V-17-B36 (0-5)	SPLP East	Solid	3010A	456605
500-153334-8	2947V-17-B37 (0-5)	SPLP East	Solid	3010A	456605
500-153334-9	2947V-17-B38 (0-5)	SPLP East	Solid	3010A	456605
500-153334-10	2947V-17-B39 (0-2)	SPLP East	Solid	3010A	456605
500-153334-11	2947V-17-B40 (0-4)	SPLP East	Solid	3010A	456605
500-153334-12	2947V-17-B15 (0-5)	SPLP East	Solid	3010A	456605
500-153334-13	2947V-17-B15 (0-5) Dup	SPLP East	Solid	3010A	456605
500-153334-14	2947V-17-B14 (0-5)	SPLP East	Solid	3010A	456605
500-153334-17	2947V-17-B08 (0-5)	SPLP East	Solid	3010A	456605
500-153334-19	2947V-17-B03 (0-5)	SPLP East	Solid	3010A	456605
500-153334-20	2947V-17-B02 (0-5)	SPLP East	Solid	3010A	456605
LB 500-456605/1-B	Method Blank	SPLP East	Solid	3010A	456605
LCS 500-456851/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-153334-20 MS	2947V-17-B02 (0-5)	SPLP East	Solid	3010A	456605
500-153334-20 DU	2947V-17-B02 (0-5)	SPLP East	Solid	3010A	456605

Prep Batch: 456853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153334-21	2947V-17-B02 (0-5) Dup	TCLP	Solid	3010A	456609
500-153334-22	2947V-17-B01 (0-5)	TCLP	Solid	3010A	456609
500-153334-23	2947V-17-B27 (0-5)	TCLP	Solid	3010A	456609
500-153334-24	2947V-17-B26 (0-5)	TCLP	Solid	3010A	456609
500-153334-25	2947V-17-B25 (0-5)	TCLP	Solid	3010A	456609
LB 500-456609/1-C	Method Blank	TCLP	Solid	3010A	456609
LCS 500-456853/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 456909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153334-1	2947V-17-B04 (0-5)	TCLP	Solid	6010B	456775
500-153334-2	2947V-17-B05 (0-5)	TCLP	Solid	6010B	456775
500-153334-3	2947V-17-B06 (0-5)	TCLP	Solid	6010B	456775
500-153334-4	2947V-17-B10 (0-5)	TCLP	Solid	6010B	456775
500-153334-5	2947V-17-B11 (0-5)	TCLP	Solid	6010B	456775
500-153334-6	2947V-17-B12 (0-5)	TCLP	Solid	6010B	456775
500-153334-7	2947V-17-B36 (0-5)	TCLP	Solid	6010B	456775
500-153334-8	2947V-17-B37 (0-5)	TCLP	Solid	6010B	456775
500-153334-9	2947V-17-B38 (0-5)	TCLP	Solid	6010B	456775

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Client: Terracon Consulting Eng & Scientists
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TestAmerica Job ID: 500-153334-1

Metals (Continued)

Analysis Batch: 456909 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153334-10	2947V-17-B39 (0-2)	TCLP	Solid	6010B	456775
500-153334-11	2947V-17-B40 (0-4)	TCLP	Solid	6010B	456775
500-153334-12	2947V-17-B15 (0-5)	TCLP	Solid	6010B	456775
500-153334-13	2947V-17-B15 (0-5) Dup	TCLP	Solid	6010B	456775
500-153334-14	2947V-17-B14 (0-5)	TCLP	Solid	6010B	456775
500-153334-15	2947V-17-B13 (0-5)	TCLP	Solid	6010B	456775
500-153334-16	2947V-17-B09 (0-5)	TCLP	Solid	6010B	456775
500-153334-17	2947V-17-B08 (0-5)	TCLP	Solid	6010B	456775
500-153334-18	2947V-17-B07 (0-5)	TCLP	Solid	6010B	456775
500-153334-19	2947V-17-B03 (0-5)	TCLP	Solid	6010B	456775
500-153334-20	2947V-17-B02 (0-5)	TCLP	Solid	6010B	456775
LB 500-456607/1-B	Method Blank	TCLP	Solid	6010B	456775
LCS 500-456775/2-A	Lab Control Sample	Total/NA	Solid	6010B	456775
500-153334-20 MS	2947V-17-B02 (0-5)	TCLP	Solid	6010B	456775
500-153334-20 DU	2947V-17-B02 (0-5)	TCLP	Solid	6010B	456775

Analysis Batch: 456930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153334-1	2947V-17-B04 (0-5)	TCLP	Solid	6020A	456775
500-153334-2	2947V-17-B05 (0-5)	TCLP	Solid	6020A	456775
500-153334-3	2947V-17-B06 (0-5)	TCLP	Solid	6020A	456775
500-153334-4	2947V-17-B10 (0-5)	TCLP	Solid	6020A	456775
500-153334-5	2947V-17-B11 (0-5)	TCLP	Solid	6020A	456775
500-153334-6	2947V-17-B12 (0-5)	TCLP	Solid	6020A	456775
500-153334-7	2947V-17-B36 (0-5)	TCLP	Solid	6020A	456775
500-153334-8	2947V-17-B37 (0-5)	TCLP	Solid	6020A	456775
500-153334-9	2947V-17-B38 (0-5)	TCLP	Solid	6020A	456775
500-153334-10	2947V-17-B39 (0-2)	TCLP	Solid	6020A	456775
500-153334-11	2947V-17-B40 (0-4)	TCLP	Solid	6020A	456775
500-153334-12	2947V-17-B15 (0-5)	TCLP	Solid	6020A	456775
500-153334-13	2947V-17-B15 (0-5) Dup	TCLP	Solid	6020A	456775
500-153334-14	2947V-17-B14 (0-5)	TCLP	Solid	6020A	456775
500-153334-15	2947V-17-B13 (0-5)	TCLP	Solid	6020A	456775
500-153334-16	2947V-17-B09 (0-5)	TCLP	Solid	6020A	456775
500-153334-17	2947V-17-B08 (0-5)	TCLP	Solid	6020A	456775
500-153334-18	2947V-17-B07 (0-5)	TCLP	Solid	6020A	456775
500-153334-19	2947V-17-B03 (0-5)	TCLP	Solid	6020A	456775
500-153334-20	2947V-17-B02 (0-5)	TCLP	Solid	6020A	456775
LB 500-456607/1-B	Method Blank	TCLP	Solid	6020A	456775
LCS 500-456775/2-A	Lab Control Sample	Total/NA	Solid	6020A	456775
500-153334-20 MS	2947V-17-B02 (0-5)	TCLP	Solid	6020A	456775
500-153334-20 DU	2947V-17-B02 (0-5)	TCLP	Solid	6020A	456775

Analysis Batch: 457004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153334-1	2947V-17-B04 (0-5)	TCLP	Solid	7470A	456787
500-153334-2	2947V-17-B05 (0-5)	TCLP	Solid	7470A	456787
500-153334-3	2947V-17-B06 (0-5)	TCLP	Solid	7470A	456787
500-153334-4	2947V-17-B10 (0-5)	TCLP	Solid	7470A	456787
500-153334-5	2947V-17-B11 (0-5)	TCLP	Solid	7470A	456787
500-153334-6	2947V-17-B12 (0-5)	TCLP	Solid	7470A	456787

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TestAmerica Job ID: 500-153334-1

Metals (Continued)

Analysis Batch: 457004 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153334-7	2947V-17-B36 (0-5)	TCLP	Solid	7470A	456787
500-153334-8	2947V-17-B37 (0-5)	TCLP	Solid	7470A	456787
500-153334-9	2947V-17-B38 (0-5)	TCLP	Solid	7470A	456787
500-153334-10	2947V-17-B39 (0-2)	TCLP	Solid	7470A	456787
500-153334-11	2947V-17-B40 (0-4)	TCLP	Solid	7470A	456787
500-153334-12	2947V-17-B15 (0-5)	TCLP	Solid	7470A	456787
500-153334-13	2947V-17-B15 (0-5) Dup	TCLP	Solid	7470A	456787
500-153334-14	2947V-17-B14 (0-5)	TCLP	Solid	7470A	456787
500-153334-15	2947V-17-B13 (0-5)	TCLP	Solid	7470A	456787
500-153334-16	2947V-17-B09 (0-5)	TCLP	Solid	7470A	456787
500-153334-17	2947V-17-B08 (0-5)	TCLP	Solid	7470A	456787
500-153334-18	2947V-17-B07 (0-5)	TCLP	Solid	7470A	456787
500-153334-19	2947V-17-B03 (0-5)	TCLP	Solid	7470A	456787
500-153334-20	2947V-17-B02 (0-5)	TCLP	Solid	7470A	456787
500-153334-21	2947V-17-B02 (0-5) Dup	TCLP	Solid	7470A	456788
500-153334-22	2947V-17-B01 (0-5)	TCLP	Solid	7470A	456788
500-153334-23	2947V-17-B27 (0-5)	TCLP	Solid	7470A	456788
500-153334-24	2947V-17-B26 (0-5)	TCLP	Solid	7470A	456788
500-153334-25	2947V-17-B25 (0-5)	TCLP	Solid	7470A	456788
LB 500-456607/1-C	Method Blank	TCLP	Solid	7470A	456787
LB 500-456609/1-B	Method Blank	TCLP	Solid	7470A	456788
MB 500-456787/12-A	Method Blank	Total/NA	Solid	7470A	456787
MB 500-456788/12-A	Method Blank	Total/NA	Solid	7470A	456788
LCS 500-456787/13-A	Lab Control Sample	Total/NA	Solid	7470A	456787
LCS 500-456788/13-A	Lab Control Sample	Total/NA	Solid	7470A	456788
500-153334-11 MS	2947V-17-B40 (0-4)	TCLP	Solid	7470A	456787
500-153334-11 DU	2947V-17-B40 (0-4)	TCLP	Solid	7470A	456787

Analysis Batch: 457052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153334-21	2947V-17-B02 (0-5) Dup	TCLP	Solid	6010B	456853
500-153334-22	2947V-17-B01 (0-5)	TCLP	Solid	6010B	456853
500-153334-23	2947V-17-B27 (0-5)	TCLP	Solid	6010B	456853
500-153334-24	2947V-17-B26 (0-5)	TCLP	Solid	6010B	456853
500-153334-25	2947V-17-B25 (0-5)	TCLP	Solid	6010B	456853
LB 500-456609/1-C	Method Blank	TCLP	Solid	6010B	456853
LCS 500-456775/2-A	Lab Control Sample	Total/NA	Solid	6010B	456775
LCS 500-456853/2-A	Lab Control Sample	Total/NA	Solid	6010B	456853

Analysis Batch: 457068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153334-21	2947V-17-B02 (0-5) Dup	TCLP	Solid	6020A	456853
500-153334-22	2947V-17-B01 (0-5)	TCLP	Solid	6020A	456853
500-153334-23	2947V-17-B27 (0-5)	TCLP	Solid	6020A	456853
500-153334-24	2947V-17-B26 (0-5)	TCLP	Solid	6020A	456853
500-153334-25	2947V-17-B25 (0-5)	TCLP	Solid	6020A	456853
LB 500-456609/1-C	Method Blank	TCLP	Solid	6020A	456853
LCS 500-456853/2-A	Lab Control Sample	Total/NA	Solid	6020A	456853

TestAmerica Chicago

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Metals (Continued)

Analysis Batch: 457250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153334-1	2947V-17-B04 (0-5)	SPLP East	Solid	6010B	456851
500-153334-2	2947V-17-B05 (0-5)	SPLP East	Solid	6010B	456851
500-153334-3	2947V-17-B06 (0-5)	SPLP East	Solid	6010B	456851
500-153334-4	2947V-17-B10 (0-5)	SPLP East	Solid	6010B	456851
500-153334-5	2947V-17-B11 (0-5)	SPLP East	Solid	6010B	456851
500-153334-6	2947V-17-B12 (0-5)	SPLP East	Solid	6010B	456851
500-153334-7	2947V-17-B36 (0-5)	SPLP East	Solid	6010B	456851
500-153334-8	2947V-17-B37 (0-5)	SPLP East	Solid	6010B	456851
500-153334-9	2947V-17-B38 (0-5)	SPLP East	Solid	6010B	456851
500-153334-10	2947V-17-B39 (0-2)	SPLP East	Solid	6010B	456851
500-153334-11	2947V-17-B40 (0-4)	SPLP East	Solid	6010B	456851
500-153334-12	2947V-17-B15 (0-5)	SPLP East	Solid	6010B	456851
500-153334-13	2947V-17-B15 (0-5) Dup	SPLP East	Solid	6010B	456851
500-153334-14	2947V-17-B14 (0-5)	SPLP East	Solid	6010B	456851
500-153334-17	2947V-17-B08 (0-5)	SPLP East	Solid	6010B	456851
500-153334-19	2947V-17-B03 (0-5)	SPLP East	Solid	6010B	456851
500-153334-20	2947V-17-B02 (0-5)	SPLP East	Solid	6010B	456851
LB 500-456605/1-B	Method Blank	SPLP East	Solid	6010B	456851
LCS 500-456851/2-A	Lab Control Sample	Total/NA	Solid	6010B	456851
500-153334-20 MS	2947V-17-B02 (0-5)	SPLP East	Solid	6010B	456851
500-153334-20 DU	2947V-17-B02 (0-5)	SPLP East	Solid	6010B	456851

Analysis Batch: 457254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153334-9	2947V-17-B38 (0-5)	TCLP	Solid	6010B	456775
500-153334-10	2947V-17-B39 (0-2)	TCLP	Solid	6010B	456775
500-153334-11	2947V-17-B40 (0-4)	TCLP	Solid	6010B	456775
500-153334-12	2947V-17-B15 (0-5)	TCLP	Solid	6010B	456775
500-153334-13	2947V-17-B15 (0-5) Dup	TCLP	Solid	6010B	456775
500-153334-14	2947V-17-B14 (0-5)	TCLP	Solid	6010B	456775
500-153334-15	2947V-17-B13 (0-5)	TCLP	Solid	6010B	456775
500-153334-16	2947V-17-B09 (0-5)	TCLP	Solid	6010B	456775
500-153334-17	2947V-17-B08 (0-5)	TCLP	Solid	6010B	456775
500-153334-18	2947V-17-B07 (0-5)	TCLP	Solid	6010B	456775
500-153334-19	2947V-17-B03 (0-5)	TCLP	Solid	6010B	456775
500-153334-20	2947V-17-B02 (0-5)	TCLP	Solid	6010B	456775
500-153334-20 MS	2947V-17-B02 (0-5)	TCLP	Solid	6010B	456775
500-153334-20 DU	2947V-17-B02 (0-5)	TCLP	Solid	6010B	456775

Prep Batch: 457290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153334-21	2947V-17-B02 (0-5) Dup	SPLP East	Solid	3010A	456606
LB 500-456606/1-B	Method Blank	SPLP East	Solid	3010A	456606
LCS 500-457290/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 457445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153334-21	2947V-17-B02 (0-5) Dup	SPLP East	Solid	6010B	457290
LB 500-456606/1-B	Method Blank	SPLP East	Solid	6010B	457290
LCS 500-457290/2-A	Lab Control Sample	Total/NA	Solid	6010B	457290

TestAmerica Chicago

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Metals (Continued)

Analysis Batch: 457594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153334-3	2947V-17-B06 (0-5)	TCLP	Solid	6010B	456775

General Chemistry

Analysis Batch: 456134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153334-1	2947V-17-B04 (0-5)	Total/NA	Solid	Moisture	
500-153334-2	2947V-17-B05 (0-5)	Total/NA	Solid	Moisture	
500-153334-3	2947V-17-B06 (0-5)	Total/NA	Solid	Moisture	
500-153334-4	2947V-17-B10 (0-5)	Total/NA	Solid	Moisture	
500-153334-5	2947V-17-B11 (0-5)	Total/NA	Solid	Moisture	
500-153334-6	2947V-17-B12 (0-5)	Total/NA	Solid	Moisture	
500-153334-7	2947V-17-B36 (0-5)	Total/NA	Solid	Moisture	
500-153334-8	2947V-17-B37 (0-5)	Total/NA	Solid	Moisture	
500-153334-9	2947V-17-B38 (0-5)	Total/NA	Solid	Moisture	
500-153334-10	2947V-17-B39 (0-2)	Total/NA	Solid	Moisture	
500-153334-11	2947V-17-B40 (0-4)	Total/NA	Solid	Moisture	
500-153334-12	2947V-17-B15 (0-5)	Total/NA	Solid	Moisture	
500-153334-13	2947V-17-B15 (0-5) Dup	Total/NA	Solid	Moisture	
500-153334-14	2947V-17-B14 (0-5)	Total/NA	Solid	Moisture	
500-153334-15	2947V-17-B13 (0-5)	Total/NA	Solid	Moisture	
500-153334-16	2947V-17-B09 (0-5)	Total/NA	Solid	Moisture	
500-153334-17	2947V-17-B08 (0-5)	Total/NA	Solid	Moisture	
500-153334-18	2947V-17-B07 (0-5)	Total/NA	Solid	Moisture	
500-153334-19	2947V-17-B03 (0-5)	Total/NA	Solid	Moisture	
500-153334-20	2947V-17-B02 (0-5)	Total/NA	Solid	Moisture	
500-153334-13 DU	2947V-17-B15 (0-5) Dup	Total/NA	Solid	Moisture	

Analysis Batch: 456165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153334-21	2947V-17-B02 (0-5) Dup	Total/NA	Solid	Moisture	
500-153334-22	2947V-17-B01 (0-5)	Total/NA	Solid	Moisture	
500-153334-23	2947V-17-B27 (0-5)	Total/NA	Solid	Moisture	
500-153334-24	2947V-17-B26 (0-5)	Total/NA	Solid	Moisture	
500-153334-25	2947V-17-B25 (0-5)	Total/NA	Solid	Moisture	
500-153334-21 DU	2947V-17-B02 (0-5) Dup	Total/NA	Solid	Moisture	

Analysis Batch: 456636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153334-1	2947V-17-B04 (0-5)	Total/NA	Solid	9045D	
500-153334-2	2947V-17-B05 (0-5)	Total/NA	Solid	9045D	
500-153334-3	2947V-17-B06 (0-5)	Total/NA	Solid	9045D	
500-153334-4	2947V-17-B10 (0-5)	Total/NA	Solid	9045D	
500-153334-5	2947V-17-B11 (0-5)	Total/NA	Solid	9045D	
500-153334-6	2947V-17-B12 (0-5)	Total/NA	Solid	9045D	
500-153334-7	2947V-17-B36 (0-5)	Total/NA	Solid	9045D	
500-153334-8	2947V-17-B37 (0-5)	Total/NA	Solid	9045D	
500-153334-9	2947V-17-B38 (0-5)	Total/NA	Solid	9045D	
500-153334-10	2947V-17-B39 (0-2)	Total/NA	Solid	9045D	
500-153334-11	2947V-17-B40 (0-4)	Total/NA	Solid	9045D	

TestAmerica Chicago

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

General Chemistry (Continued)

Analysis Batch: 456636 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153334-12	2947V-17-B15 (0-5)	Total/NA	Solid	9045D	
500-153334-13	2947V-17-B15 (0-5) Dup	Total/NA	Solid	9045D	
500-153334-14	2947V-17-B14 (0-5)	Total/NA	Solid	9045D	
500-153334-15	2947V-17-B13 (0-5)	Total/NA	Solid	9045D	
500-153334-16	2947V-17-B09 (0-5)	Total/NA	Solid	9045D	
500-153334-17	2947V-17-B08 (0-5)	Total/NA	Solid	9045D	
500-153334-18	2947V-17-B07 (0-5)	Total/NA	Solid	9045D	
500-153334-19	2947V-17-B03 (0-5)	Total/NA	Solid	9045D	
500-153334-20	2947V-17-B02 (0-5)	Total/NA	Solid	9045D	
500-153334-21	2947V-17-B02 (0-5) Dup	Total/NA	Solid	9045D	
500-153334-22	2947V-17-B01 (0-5)	Total/NA	Solid	9045D	
500-153334-23	2947V-17-B27 (0-5)	Total/NA	Solid	9045D	
500-153334-24	2947V-17-B26 (0-5)	Total/NA	Solid	9045D	
500-153334-25	2947V-17-B25 (0-5)	Total/NA	Solid	9045D	
500-153334-8 DU	2947V-17-B37 (0-5)	Total/NA	Solid	9045D	
500-153334-21 DU	2947V-17-B02 (0-5) Dup	Total/NA	Solid	9045D	

Prep Batch: 456857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153334-11	2947V-17-B40 (0-4)	Total/NA	Solid	9010B	
500-153334-12	2947V-17-B15 (0-5)	Total/NA	Solid	9010B	
500-153334-13	2947V-17-B15 (0-5) Dup	Total/NA	Solid	9010B	
500-153334-14	2947V-17-B14 (0-5)	Total/NA	Solid	9010B	
500-153334-15	2947V-17-B13 (0-5)	Total/NA	Solid	9010B	
500-153334-16	2947V-17-B09 (0-5)	Total/NA	Solid	9010B	
500-153334-17	2947V-17-B08 (0-5)	Total/NA	Solid	9010B	
500-153334-18	2947V-17-B07 (0-5)	Total/NA	Solid	9010B	
500-153334-19	2947V-17-B03 (0-5)	Total/NA	Solid	9010B	
500-153334-20	2947V-17-B02 (0-5)	Total/NA	Solid	9010B	
MB 500-456857/1-A	Method Blank	Total/NA	Solid	9010B	
LCS 500-456857/2-A	Lab Control Sample	Total/NA	Solid	9010B	

Prep Batch: 456983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153334-1	2947V-17-B04 (0-5)	Total/NA	Solid	9010B	
500-153334-2	2947V-17-B05 (0-5)	Total/NA	Solid	9010B	
500-153334-3	2947V-17-B06 (0-5)	Total/NA	Solid	9010B	
500-153334-4	2947V-17-B10 (0-5)	Total/NA	Solid	9010B	
500-153334-5	2947V-17-B11 (0-5)	Total/NA	Solid	9010B	
500-153334-6	2947V-17-B12 (0-5)	Total/NA	Solid	9010B	
500-153334-7	2947V-17-B36 (0-5)	Total/NA	Solid	9010B	
500-153334-8	2947V-17-B37 (0-5)	Total/NA	Solid	9010B	
500-153334-9	2947V-17-B38 (0-5)	Total/NA	Solid	9010B	
500-153334-10	2947V-17-B39 (0-2)	Total/NA	Solid	9010B	
500-153334-21	2947V-17-B02 (0-5) Dup	Total/NA	Solid	9010B	
500-153334-22	2947V-17-B01 (0-5)	Total/NA	Solid	9010B	
500-153334-23	2947V-17-B27 (0-5)	Total/NA	Solid	9010B	
500-153334-24	2947V-17-B26 (0-5)	Total/NA	Solid	9010B	
500-153334-25	2947V-17-B25 (0-5)	Total/NA	Solid	9010B	
MB 500-456983/1-A	Method Blank	Total/NA	Solid	9010B	
LCS 500-456983/2-A	Lab Control Sample	Total/NA	Solid	9010B	

TestAmerica Chicago

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

General Chemistry (Continued)

Prep Batch: 456983 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153334-1 MS	2947V-17-B04 (0-5)	Total/NA	Solid	9010B	
500-153334-1 MSD	2947V-17-B04 (0-5)	Total/NA	Solid	9010B	

Analysis Batch: 457026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153334-11	2947V-17-B40 (0-4)	Total/NA	Solid	9014	456857
500-153334-12	2947V-17-B15 (0-5)	Total/NA	Solid	9014	456857
500-153334-13	2947V-17-B15 (0-5) Dup	Total/NA	Solid	9014	456857
500-153334-14	2947V-17-B14 (0-5)	Total/NA	Solid	9014	456857
500-153334-15	2947V-17-B13 (0-5)	Total/NA	Solid	9014	456857
500-153334-16	2947V-17-B09 (0-5)	Total/NA	Solid	9014	456857
500-153334-17	2947V-17-B08 (0-5)	Total/NA	Solid	9014	456857
500-153334-18	2947V-17-B07 (0-5)	Total/NA	Solid	9014	456857
500-153334-19	2947V-17-B03 (0-5)	Total/NA	Solid	9014	456857
500-153334-20	2947V-17-B02 (0-5)	Total/NA	Solid	9014	456857
MB 500-456857/1-A	Method Blank	Total/NA	Solid	9014	456857
LCS 500-456857/2-A	Lab Control Sample	Total/NA	Solid	9014	456857

Analysis Batch: 457378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153334-1	2947V-17-B04 (0-5)	Total/NA	Solid	9014	456983
500-153334-2	2947V-17-B05 (0-5)	Total/NA	Solid	9014	456983
500-153334-3	2947V-17-B06 (0-5)	Total/NA	Solid	9014	456983
500-153334-4	2947V-17-B10 (0-5)	Total/NA	Solid	9014	456983
500-153334-5	2947V-17-B11 (0-5)	Total/NA	Solid	9014	456983
500-153334-6	2947V-17-B12 (0-5)	Total/NA	Solid	9014	456983
500-153334-7	2947V-17-B36 (0-5)	Total/NA	Solid	9014	456983
500-153334-8	2947V-17-B37 (0-5)	Total/NA	Solid	9014	456983
500-153334-9	2947V-17-B38 (0-5)	Total/NA	Solid	9014	456983
500-153334-10	2947V-17-B39 (0-2)	Total/NA	Solid	9014	456983
500-153334-21	2947V-17-B02 (0-5) Dup	Total/NA	Solid	9014	456983
500-153334-22	2947V-17-B01 (0-5)	Total/NA	Solid	9014	456983
500-153334-23	2947V-17-B27 (0-5)	Total/NA	Solid	9014	456983
500-153334-24	2947V-17-B26 (0-5)	Total/NA	Solid	9014	456983
500-153334-25	2947V-17-B25 (0-5)	Total/NA	Solid	9014	456983
MB 500-456983/1-A	Method Blank	Total/NA	Solid	9014	456983
LCS 500-456983/2-A	Lab Control Sample	Total/NA	Solid	9014	456983
500-153334-1 MS	2947V-17-B04 (0-5)	Total/NA	Solid	9014	456983
500-153334-1 MSD	2947V-17-B04 (0-5)	Total/NA	Solid	9014	456983

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

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)
500-153334-1	2947V-17-B04 (0-5)	99	101	99	96
500-153334-2	2947V-17-B05 (0-5)	96	103	99	95
500-153334-3	2947V-17-B06 (0-5)	95	101	97	95
500-153334-4	2947V-17-B10 (0-5)	93	99	97	97
500-153334-5	2947V-17-B11 (0-5)	97	103	97	96
500-153334-6	2947V-17-B12 (0-5)	97	100	97	96
500-153334-7	2947V-17-B36 (0-5)	96	104	104	94
500-153334-8	2947V-17-B37 (0-5)	97	105	104	95
500-153334-9	2947V-17-B38 (0-5)	95	101	98	96
500-153334-10	2947V-17-B39 (0-2)	96	105	104	95
500-153334-11	2947V-17-B40 (0-4)	99	96	122	94
500-153334-12	2947V-17-B15 (0-5)	100	97	126	93
500-153334-13	2947V-17-B15 (0-5) Dup	101	102	108	98
500-153334-14	2947V-17-B14 (0-5)	101	101	108	98
500-153334-15	2947V-17-B13 (0-5)	100	103	108	96
500-153334-16	2947V-17-B09 (0-5)	98	102	108	96
500-153334-17	2947V-17-B08 (0-5)	97	103	113	97
500-153334-18	2947V-17-B07 (0-5)	97	107	107	95
500-153334-19	2947V-17-B03 (0-5)	100	104	108	97
500-153334-20	2947V-17-B02 (0-5)	99	104	107	97
500-153334-21	2947V-17-B02 (0-5) Dup	96	104	110	96
500-153334-22	2947V-17-B01 (0-5)	95	102	111	96
500-153334-23	2947V-17-B27 (0-5)	98	104	107	96
500-153334-24	2947V-17-B26 (0-5)	97	101	107	97
500-153334-25	2947V-17-B25 (0-5)	97	107	107	95
LCS 500-456979/4	Lab Control Sample	93	98	92	98
LCS 500-456981/4	Lab Control Sample	94	102	118	91
LCS 500-457169/4	Lab Control Sample	93	99	98	99
LCSD 500-456979/7	Lab Control Sample Dup	93	99	93	98
LCSD 500-456981/5	Lab Control Sample Dup	96	103	116	89
LCSD 500-457169/5	Lab Control Sample Dup	93	97	98	99
MB 500-456979/6	Method Blank	96	100	92	95
MB 500-456981/6	Method Blank	101	96	112	92
MB 500-457169/6	Method Blank	103	98	103	97

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)
500-153334-1	2947V-17-B04 (0-5)	81	134	107	132	113	83
500-153334-1 MS	2947V-17-B04 (0-5)	89	138	113	127	122	108

TestAmerica Chicago

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

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)
500-153334-1 MSD	2947V-17-B04 (0-5)	91	139	109	128	110	103
500-153334-2	2947V-17-B05 (0-5)	110	131	119	127	150	138
500-153334-3	2947V-17-B06 (0-5)	104	162	114	136	143	52
500-153334-4	2947V-17-B10 (0-5)	96	143	104	122	180 X	110
500-153334-5	2947V-17-B11 (0-5)	93	125	100	122	163 X	103
500-153334-6	2947V-17-B12 (0-5)	87	143	114	135	196 X	123
500-153334-7	2947V-17-B36 (0-5)	114	160	125	146	141	120
500-153334-8	2947V-17-B37 (0-5)	116	144	118	144	150	131
500-153334-9	2947V-17-B38 (0-5)	98	151	117	133	126	97
500-153334-10	2947V-17-B39 (0-2)	110	139	126	133	126	107
500-153334-11	2947V-17-B40 (0-4)	100	148	120	142	211 X	125
500-153334-11 - DL	2947V-17-B40 (0-4)	133	166	133	168 X	154	139
500-153334-12	2947V-17-B15 (0-5)	105	168 X	116	134	106	112
500-153334-13	2947V-17-B15 (0-5) Dup	111	137	112	129	114	116
500-153334-14	2947V-17-B14 (0-5)	108	153	121	149	144	119
500-153334-15	2947V-17-B13 (0-5)	92	140	98	122	168 X	107
500-153334-16	2947V-17-B09 (0-5)	96	127	107	124	107	95
500-153334-17	2947V-17-B08 (0-5)	105	139	114	134	168 X	112
500-153334-18	2947V-17-B07 (0-5)	113	153	105	147	124	119
500-153334-19	2947V-17-B03 (0-5)	109	146	123	145	131	100
500-153334-20	2947V-17-B02 (0-5)	112	172 X	121	150	246 X	129
500-153334-21	2947V-17-B02 (0-5) Dup	117	119	91	114	195 X	131
500-153334-22	2947V-17-B01 (0-5)	104	114	94	101	119	97
500-153334-23	2947V-17-B27 (0-5)	97	109	68	111	105	78
500-153334-24	2947V-17-B26 (0-5)	107	120	97	121	132	68
500-153334-25	2947V-17-B25 (0-5)	96	121	98	109	131	54
LCS 500-456471/2-A	Lab Control Sample	111	121	108	117	130	123
LCS 500-456475/2-A	Lab Control Sample	111	125	108	117	129	123
MB 500-456471/1-A	Method Blank	108	117	93	102	114	83
MB 500-456475/1-A	Method Blank	109	115	93	102	115	99

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 - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

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

Lab Sample ID: MB 500-456979/6

Matrix: Solid

Analysis Batch: 456979

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0087		0.020	0.0087	mg/Kg			10/27/18 08:51	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg			10/27/18 08:51	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg			10/27/18 08:51	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg			10/27/18 08:51	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg			10/27/18 08:51	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			10/27/18 08:51	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg			10/27/18 08:51	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg			10/27/18 08:51	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg			10/27/18 08:51	1
Chloroethane	<0.0015		0.0050	0.0015	mg/Kg			10/27/18 08:51	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg			10/27/18 08:51	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg			10/27/18 08:51	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg			10/27/18 08:51	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg			10/27/18 08:51	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg			10/27/18 08:51	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg			10/27/18 08:51	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg			10/27/18 08:51	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg			10/27/18 08:51	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			10/27/18 08:51	1
1,3-Dichloropropene, Total	<0.00070		0.0020	0.00070	mg/Kg			10/27/18 08:51	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg			10/27/18 08:51	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg			10/27/18 08:51	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg			10/27/18 08:51	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg			10/27/18 08:51	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg			10/27/18 08:51	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg			10/27/18 08:51	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg			10/27/18 08:51	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg			10/27/18 08:51	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg			10/27/18 08:51	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg			10/27/18 08:51	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg			10/27/18 08:51	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg			10/27/18 08:51	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg			10/27/18 08:51	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg			10/27/18 08:51	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg			10/27/18 08:51	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg			10/27/18 08:51	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg			10/27/18 08:51	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		75 - 131		10/27/18 08:51	1
Dibromofluoromethane	100		75 - 126		10/27/18 08:51	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134		10/27/18 08:51	1
Toluene-d8 (Surr)	95		75 - 124		10/27/18 08:51	1

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

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

Lab Sample ID: LCS 500-456979/4

Matrix: Solid

Analysis Batch: 456979

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	0.0497		mg/Kg		99	40 - 150
Benzene	0.0500	0.0514		mg/Kg		103	70 - 125
Bromodichloromethane	0.0500	0.0532		mg/Kg		106	67 - 129
Bromoform	0.0500	0.0557		mg/Kg		111	68 - 136
Bromomethane	0.0500	0.0680	*	mg/Kg		136	70 - 130
2-Butanone (MEK)	0.0500	0.0474		mg/Kg		95	47 - 138
Carbon disulfide	0.0500	0.0514		mg/Kg		103	70 - 129
Carbon tetrachloride	0.0500	0.0529		mg/Kg		106	75 - 125
Chlorobenzene	0.0500	0.0509		mg/Kg		102	50 - 150
Chloroethane	0.0500	0.0662	*	mg/Kg		132	75 - 125
Chloroform	0.0500	0.0504		mg/Kg		101	57 - 135
Chloromethane	0.0500	0.0454		mg/Kg		91	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0512		mg/Kg		102	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0515		mg/Kg		103	70 - 125
Dibromochloromethane	0.0500	0.0537		mg/Kg		107	69 - 125
1,1-Dichloroethane	0.0500	0.0513		mg/Kg		103	70 - 125
1,2-Dichloroethane	0.0500	0.0501		mg/Kg		100	70 - 130
1,1-Dichloroethene	0.0500	0.0511		mg/Kg		102	70 - 120
1,2-Dichloropropane	0.0500	0.0518		mg/Kg		104	70 - 125
Ethylbenzene	0.0500	0.0511		mg/Kg		102	61 - 136
2-Hexanone	0.0500	0.0479		mg/Kg		96	48 - 146
Methylene Chloride	0.0500	0.0488		mg/Kg		98	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0492		mg/Kg		98	50 - 148
Methyl tert-butyl ether	0.0500	0.0504		mg/Kg		101	50 - 140
Styrene	0.0500	0.0530		mg/Kg		106	70 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.0478		mg/Kg		96	70 - 122
Tetrachloroethene	0.0500	0.0539		mg/Kg		108	70 - 124
Toluene	0.0500	0.0499		mg/Kg		100	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0522		mg/Kg		104	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0509		mg/Kg		102	70 - 125
1,1,1-Trichloroethane	0.0500	0.0519		mg/Kg		104	70 - 128
1,1,2-Trichloroethane	0.0500	0.0507		mg/Kg		101	70 - 125
Trichloroethene	0.0500	0.0529		mg/Kg		106	70 - 125
Vinyl acetate	0.0500	0.0453		mg/Kg		91	40 - 153
Vinyl chloride	0.0500	0.0483		mg/Kg		97	70 - 125
Xylenes, Total	0.100	0.0999		mg/Kg		100	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	93		75 - 131
Dibromofluoromethane	98		75 - 126
1,2-Dichloroethane-d4 (Surr)	92		70 - 134
Toluene-d8 (Surr)	98		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

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

Lab Sample ID: LCSD 500-456979/7
Matrix: Solid
Analysis Batch: 456979

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	0.0528		mg/Kg		106	40 - 150	6	30
Benzene	0.0500	0.0504		mg/Kg		101	70 - 125	2	30
Bromodichloromethane	0.0500	0.0523		mg/Kg		105	67 - 129	2	30
Bromoform	0.0500	0.0545		mg/Kg		109	68 - 136	2	30
Bromomethane	0.0500	0.0696	*	mg/Kg		139	70 - 130	2	30
2-Butanone (MEK)	0.0500	0.0512		mg/Kg		102	47 - 138	8	30
Carbon disulfide	0.0500	0.0508		mg/Kg		102	70 - 129	1	30
Carbon tetrachloride	0.0500	0.0526		mg/Kg		105	75 - 125	1	30
Chlorobenzene	0.0500	0.0495		mg/Kg		99	50 - 150	3	30
Chloroethane	0.0500	0.0652	*	mg/Kg		130	75 - 125	2	30
Chloroform	0.0500	0.0509		mg/Kg		102	57 - 135	1	30
Chloromethane	0.0500	0.0456		mg/Kg		91	70 - 125	0	30
cis-1,2-Dichloroethene	0.0500	0.0509		mg/Kg		102	70 - 125	1	30
cis-1,3-Dichloropropene	0.0500	0.0493		mg/Kg		99	70 - 125	4	30
Dibromochloromethane	0.0500	0.0525		mg/Kg		105	69 - 125	2	30
1,1-Dichloroethane	0.0500	0.0511		mg/Kg		102	70 - 125	0	30
1,2-Dichloroethane	0.0500	0.0493		mg/Kg		99	70 - 130	2	30
1,1-Dichloroethene	0.0500	0.0506		mg/Kg		101	70 - 120	1	30
1,2-Dichloropropane	0.0500	0.0502		mg/Kg		100	70 - 125	3	30
Ethylbenzene	0.0500	0.0497		mg/Kg		99	61 - 136	3	30
2-Hexanone	0.0500	0.0482		mg/Kg		96	48 - 146	1	30
Methylene Chloride	0.0500	0.0488		mg/Kg		98	70 - 126	0	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0496		mg/Kg		99	50 - 148	1	30
Methyl tert-butyl ether	0.0500	0.0501		mg/Kg		100	50 - 140	1	30
Styrene	0.0500	0.0515		mg/Kg		103	70 - 125	3	30
1,1,1,2-Tetrachloroethane	0.0500	0.0484		mg/Kg		97	70 - 122	1	30
Tetrachloroethene	0.0500	0.0515		mg/Kg		103	70 - 124	5	30
Toluene	0.0500	0.0481		mg/Kg		96	70 - 125	4	30
trans-1,2-Dichloroethene	0.0500	0.0510		mg/Kg		102	70 - 125	2	30
trans-1,3-Dichloropropene	0.0500	0.0491		mg/Kg		98	70 - 125	3	30
1,1,1-Trichloroethane	0.0500	0.0510		mg/Kg		102	70 - 128	2	30
1,1,2-Trichloroethane	0.0500	0.0499		mg/Kg		100	70 - 125	2	30
Trichloroethene	0.0500	0.0523		mg/Kg		105	70 - 125	1	30
Vinyl acetate	0.0500	0.0469		mg/Kg		94	40 - 153	3	30
Vinyl chloride	0.0500	0.0480		mg/Kg		96	70 - 125	1	30
Xylenes, Total	0.100	0.0979		mg/Kg		98	53 - 147	2	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	93		75 - 131
Dibromofluoromethane	99		75 - 126
1,2-Dichloroethane-d4 (Surr)	93		70 - 134
Toluene-d8 (Surr)	98		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

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

Lab Sample ID: MB 500-456981/6

Matrix: Solid

Analysis Batch: 456981

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0087		0.020	0.0087	mg/Kg			10/27/18 09:42	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg			10/27/18 09:42	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg			10/27/18 09:42	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg			10/27/18 09:42	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg			10/27/18 09:42	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			10/27/18 09:42	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg			10/27/18 09:42	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg			10/27/18 09:42	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg			10/27/18 09:42	1
Chloroethane	<0.0015		0.0050	0.0015	mg/Kg			10/27/18 09:42	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg			10/27/18 09:42	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg			10/27/18 09:42	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg			10/27/18 09:42	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg			10/27/18 09:42	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg			10/27/18 09:42	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg			10/27/18 09:42	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg			10/27/18 09:42	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg			10/27/18 09:42	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			10/27/18 09:42	1
1,3-Dichloropropene, Total	<0.00070		0.0020	0.00070	mg/Kg			10/27/18 09:42	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg			10/27/18 09:42	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg			10/27/18 09:42	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg			10/27/18 09:42	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg			10/27/18 09:42	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg			10/27/18 09:42	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg			10/27/18 09:42	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg			10/27/18 09:42	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg			10/27/18 09:42	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg			10/27/18 09:42	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg			10/27/18 09:42	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg			10/27/18 09:42	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg			10/27/18 09:42	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg			10/27/18 09:42	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg			10/27/18 09:42	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg			10/27/18 09:42	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg			10/27/18 09:42	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg			10/27/18 09:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		75 - 131		10/27/18 09:42	1
Dibromofluoromethane	96		75 - 126		10/27/18 09:42	1
1,2-Dichloroethane-d4 (Surr)	112		70 - 134		10/27/18 09:42	1
Toluene-d8 (Surr)	92		75 - 124		10/27/18 09:42	1

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

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

Lab Sample ID: LCS 500-456981/4

Matrix: Solid

Analysis Batch: 456981

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	0.0595		mg/Kg		119	40 - 150
Benzene	0.0500	0.0480		mg/Kg		96	70 - 125
Bromodichloromethane	0.0500	0.0537		mg/Kg		107	67 - 129
Bromoform	0.0500	0.0612		mg/Kg		122	68 - 136
Bromomethane	0.0500	0.0628		mg/Kg		126	70 - 130
2-Butanone (MEK)	0.0500	0.0525		mg/Kg		105	47 - 138
Carbon disulfide	0.0500	0.0475		mg/Kg		95	70 - 129
Carbon tetrachloride	0.0500	0.0576		mg/Kg		115	75 - 125
Chlorobenzene	0.0500	0.0471		mg/Kg		94	50 - 150
Chloroethane	0.0500	0.0693	*	mg/Kg		139	75 - 125
Chloroform	0.0500	0.0572		mg/Kg		114	57 - 135
Chloromethane	0.0500	0.0428		mg/Kg		86	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0510		mg/Kg		102	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0470		mg/Kg		94	70 - 125
Dibromochloromethane	0.0500	0.0490		mg/Kg		98	69 - 125
1,1-Dichloroethane	0.0500	0.0522		mg/Kg		104	70 - 125
1,2-Dichloroethane	0.0500	0.0620		mg/Kg		124	70 - 130
1,1-Dichloroethene	0.0500	0.0484		mg/Kg		97	70 - 120
1,2-Dichloropropane	0.0500	0.0480		mg/Kg		96	70 - 125
Ethylbenzene	0.0500	0.0459		mg/Kg		92	61 - 136
2-Hexanone	0.0500	0.0491		mg/Kg		98	48 - 146
Methylene Chloride	0.0500	0.0478		mg/Kg		96	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0484		mg/Kg		97	50 - 148
Methyl tert-butyl ether	0.0500	0.0609		mg/Kg		122	50 - 140
Styrene	0.0500	0.0492		mg/Kg		98	70 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.0455		mg/Kg		91	70 - 122
Tetrachloroethene	0.0500	0.0530		mg/Kg		106	70 - 124
Toluene	0.0500	0.0444		mg/Kg		89	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0508		mg/Kg		102	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0498		mg/Kg		100	70 - 125
1,1,1-Trichloroethane	0.0500	0.0587		mg/Kg		117	70 - 128
1,1,2-Trichloroethane	0.0500	0.0459		mg/Kg		92	70 - 125
Trichloroethene	0.0500	0.0500		mg/Kg		100	70 - 125
Vinyl acetate	0.0500	0.0432		mg/Kg		86	40 - 153
Vinyl chloride	0.0500	0.0545		mg/Kg		109	70 - 125
Xylenes, Total	0.100	0.0976		mg/Kg		98	53 - 147

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		75 - 131
Dibromofluoromethane	102		75 - 126
1,2-Dichloroethane-d4 (Surr)	118		70 - 134
Toluene-d8 (Surr)	91		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

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

Lab Sample ID: LCSD 500-456981/5

Matrix: Solid

Analysis Batch: 456981

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	0.0494		mg/Kg		99	40 - 150	19	30
Benzene	0.0500	0.0437		mg/Kg		87	70 - 125	9	30
Bromodichloromethane	0.0500	0.0480		mg/Kg		96	67 - 129	11	30
Bromoform	0.0500	0.0531		mg/Kg		106	68 - 136	14	30
Bromomethane	0.0500	0.0567		mg/Kg		113	70 - 130	10	30
2-Butanone (MEK)	0.0500	0.0406		mg/Kg		81	47 - 138	26	30
Carbon disulfide	0.0500	0.0437		mg/Kg		87	70 - 129	8	30
Carbon tetrachloride	0.0500	0.0521		mg/Kg		104	75 - 125	10	30
Chlorobenzene	0.0500	0.0427		mg/Kg		85	50 - 150	10	30
Chloroethane	0.0500	0.0630	*	mg/Kg		126	75 - 125	10	30
Chloroform	0.0500	0.0538		mg/Kg		108	57 - 135	6	30
Chloromethane	0.0500	0.0406		mg/Kg		81	70 - 125	5	30
cis-1,2-Dichloroethene	0.0500	0.0491		mg/Kg		98	70 - 125	4	30
cis-1,3-Dichloropropene	0.0500	0.0404		mg/Kg		81	70 - 125	15	30
Dibromochloromethane	0.0500	0.0446		mg/Kg		89	69 - 125	9	30
1,1-Dichloroethane	0.0500	0.0496		mg/Kg		99	70 - 125	5	30
1,2-Dichloroethane	0.0500	0.0571		mg/Kg		114	70 - 130	8	30
1,1-Dichloroethene	0.0500	0.0462		mg/Kg		92	70 - 120	5	30
1,2-Dichloropropane	0.0500	0.0437		mg/Kg		87	70 - 125	9	30
Ethylbenzene	0.0500	0.0413		mg/Kg		83	61 - 136	10	30
2-Hexanone	0.0500	0.0400		mg/Kg		80	48 - 146	20	30
Methylene Chloride	0.0500	0.0450		mg/Kg		90	70 - 126	6	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0380		mg/Kg		76	50 - 148	24	30
Methyl tert-butyl ether	0.0500	0.0554		mg/Kg		111	50 - 140	9	30
Styrene	0.0500	0.0449		mg/Kg		90	70 - 125	9	30
1,1,1,2-Tetrachloroethane	0.0500	0.0411		mg/Kg		82	70 - 122	10	30
Tetrachloroethene	0.0500	0.0460		mg/Kg		92	70 - 124	14	30
Toluene	0.0500	0.0392		mg/Kg		78	70 - 125	12	30
trans-1,2-Dichloroethene	0.0500	0.0478		mg/Kg		96	70 - 125	6	30
trans-1,3-Dichloropropene	0.0500	0.0445		mg/Kg		89	70 - 125	11	30
1,1,1-Trichloroethane	0.0500	0.0537		mg/Kg		107	70 - 128	9	30
1,1,2-Trichloroethane	0.0500	0.0398		mg/Kg		80	70 - 125	14	30
Trichloroethene	0.0500	0.0445		mg/Kg		89	70 - 125	12	30
Vinyl acetate	0.0500	0.0384		mg/Kg		77	40 - 153	12	30
Vinyl chloride	0.0500	0.0498		mg/Kg		100	70 - 125	9	30
Xylenes, Total	0.100	0.0884		mg/Kg		88	53 - 147	10	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	96		75 - 131
Dibromofluoromethane	103		75 - 126
1,2-Dichloroethane-d4 (Surr)	116		70 - 134
Toluene-d8 (Surr)	89		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

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

Lab Sample ID: MB 500-457169/6

Matrix: Solid

Analysis Batch: 457169

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0087		0.020	0.0087	mg/Kg			10/28/18 03:10	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg			10/28/18 03:10	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg			10/28/18 03:10	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg			10/28/18 03:10	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg			10/28/18 03:10	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			10/28/18 03:10	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg			10/28/18 03:10	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg			10/28/18 03:10	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg			10/28/18 03:10	1
Chloroethane	<0.0015		0.0050	0.0015	mg/Kg			10/28/18 03:10	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg			10/28/18 03:10	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg			10/28/18 03:10	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg			10/28/18 03:10	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg			10/28/18 03:10	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg			10/28/18 03:10	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg			10/28/18 03:10	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg			10/28/18 03:10	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg			10/28/18 03:10	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			10/28/18 03:10	1
1,3-Dichloropropene, Total	<0.00070		0.0020	0.00070	mg/Kg			10/28/18 03:10	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg			10/28/18 03:10	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg			10/28/18 03:10	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg			10/28/18 03:10	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg			10/28/18 03:10	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg			10/28/18 03:10	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg			10/28/18 03:10	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg			10/28/18 03:10	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg			10/28/18 03:10	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg			10/28/18 03:10	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg			10/28/18 03:10	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg			10/28/18 03:10	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg			10/28/18 03:10	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg			10/28/18 03:10	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg			10/28/18 03:10	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg			10/28/18 03:10	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg			10/28/18 03:10	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg			10/28/18 03:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		75 - 131		10/28/18 03:10	1
Dibromofluoromethane	98		75 - 126		10/28/18 03:10	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134		10/28/18 03:10	1
Toluene-d8 (Surr)	97		75 - 124		10/28/18 03:10	1

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

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

Lab Sample ID: LCS 500-457169/4

Matrix: Solid

Analysis Batch: 457169

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	0.0456		mg/Kg		91	40 - 150
Benzene	0.0500	0.0419		mg/Kg		84	70 - 125
Bromodichloromethane	0.0500	0.0439		mg/Kg		88	67 - 129
Bromoform	0.0500	0.0440		mg/Kg		88	68 - 136
Bromomethane	0.0500	0.0451		mg/Kg		90	70 - 130
2-Butanone (MEK)	0.0500	0.0424		mg/Kg		85	47 - 138
Carbon disulfide	0.0500	0.0395		mg/Kg		79	70 - 129
Carbon tetrachloride	0.0500	0.0393		mg/Kg		79	75 - 125
Chlorobenzene	0.0500	0.0402		mg/Kg		80	50 - 150
Chloroethane	0.0500	0.0361	*	mg/Kg		72	75 - 125
Chloroform	0.0500	0.0423		mg/Kg		85	57 - 135
Chloromethane	0.0500	0.0423		mg/Kg		85	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0406		mg/Kg		81	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0412		mg/Kg		82	70 - 125
Dibromochloromethane	0.0500	0.0428		mg/Kg		86	69 - 125
1,1-Dichloroethane	0.0500	0.0413		mg/Kg		83	70 - 125
1,2-Dichloroethane	0.0500	0.0441		mg/Kg		88	70 - 130
1,1-Dichloroethene	0.0500	0.0386		mg/Kg		77	70 - 120
1,2-Dichloropropane	0.0500	0.0422		mg/Kg		84	70 - 125
Ethylbenzene	0.0500	0.0399		mg/Kg		80	61 - 136
2-Hexanone	0.0500	0.0445		mg/Kg		89	48 - 146
Methylene Chloride	0.0500	0.0418		mg/Kg		84	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0453		mg/Kg		91	50 - 148
Methyl tert-butyl ether	0.0500	0.0457		mg/Kg		91	50 - 140
Styrene	0.0500	0.0426		mg/Kg		85	70 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.0432		mg/Kg		86	70 - 122
Tetrachloroethene	0.0500	0.0379		mg/Kg		76	70 - 124
Toluene	0.0500	0.0399		mg/Kg		80	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0406		mg/Kg		81	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0433		mg/Kg		87	70 - 125
1,1,1-Trichloroethane	0.0500	0.0400		mg/Kg		80	70 - 128
1,1,2-Trichloroethane	0.0500	0.0433		mg/Kg		87	70 - 125
Trichloroethene	0.0500	0.0398		mg/Kg		80	70 - 125
Vinyl acetate	0.0500	0.0361		mg/Kg		72	40 - 153
Vinyl chloride	0.0500	0.0429		mg/Kg		86	70 - 125
Xylenes, Total	0.100	0.0804		mg/Kg		80	53 - 147

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		75 - 131
Dibromofluoromethane	99		75 - 126
1,2-Dichloroethane-d4 (Surr)	98		70 - 134
Toluene-d8 (Surr)	99		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

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

Lab Sample ID: LCSD 500-457169/5
Matrix: Solid
Analysis Batch: 457169

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	0.0441		mg/Kg		88	40 - 150	3	30
Benzene	0.0500	0.0417		mg/Kg		83	70 - 125	0	30
Bromodichloromethane	0.0500	0.0423		mg/Kg		85	67 - 129	4	30
Bromoform	0.0500	0.0418		mg/Kg		84	68 - 136	5	30
Bromomethane	0.0500	0.0453		mg/Kg		91	70 - 130	1	30
2-Butanone (MEK)	0.0500	0.0443		mg/Kg		89	47 - 138	4	30
Carbon disulfide	0.0500	0.0399		mg/Kg		80	70 - 129	1	30
Carbon tetrachloride	0.0500	0.0401		mg/Kg		80	75 - 125	2	30
Chlorobenzene	0.0500	0.0397		mg/Kg		79	50 - 150	1	30
Chloroethane	0.0500	0.0348	*	mg/Kg		70	75 - 125	4	30
Chloroform	0.0500	0.0415		mg/Kg		83	57 - 135	2	30
Chloromethane	0.0500	0.0416		mg/Kg		83	70 - 125	2	30
cis-1,2-Dichloroethene	0.0500	0.0412		mg/Kg		82	70 - 125	2	30
cis-1,3-Dichloropropene	0.0500	0.0410		mg/Kg		82	70 - 125	0	30
Dibromochloromethane	0.0500	0.0424		mg/Kg		85	69 - 125	1	30
1,1-Dichloroethane	0.0500	0.0413		mg/Kg		83	70 - 125	0	30
1,2-Dichloroethane	0.0500	0.0442		mg/Kg		88	70 - 130	0	30
1,1-Dichloroethene	0.0500	0.0386		mg/Kg		77	70 - 120	0	30
1,2-Dichloropropane	0.0500	0.0420		mg/Kg		84	70 - 125	1	30
Ethylbenzene	0.0500	0.0403		mg/Kg		81	61 - 136	1	30
2-Hexanone	0.0500	0.0431		mg/Kg		86	48 - 146	3	30
Methylene Chloride	0.0500	0.0393		mg/Kg		79	70 - 126	6	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0430		mg/Kg		86	50 - 148	5	30
Methyl tert-butyl ether	0.0500	0.0429		mg/Kg		86	50 - 140	6	30
Styrene	0.0500	0.0423		mg/Kg		85	70 - 125	1	30
1,1,1,2-Tetrachloroethane	0.0500	0.0414		mg/Kg		83	70 - 122	4	30
Tetrachloroethene	0.0500	0.0379		mg/Kg		76	70 - 124	0	30
Toluene	0.0500	0.0395		mg/Kg		79	70 - 125	1	30
trans-1,2-Dichloroethene	0.0500	0.0402		mg/Kg		80	70 - 125	1	30
trans-1,3-Dichloropropene	0.0500	0.0424		mg/Kg		85	70 - 125	2	30
1,1,1-Trichloroethane	0.0500	0.0412		mg/Kg		82	70 - 128	3	30
1,1,2-Trichloroethane	0.0500	0.0407		mg/Kg		81	70 - 125	6	30
Trichloroethene	0.0500	0.0390		mg/Kg		78	70 - 125	2	30
Vinyl acetate	0.0500	0.0363		mg/Kg		73	40 - 153	1	30
Vinyl chloride	0.0500	0.0410		mg/Kg		82	70 - 125	5	30
Xylenes, Total	0.100	0.0797		mg/Kg		80	53 - 147	1	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	93		75 - 131
Dibromofluoromethane	97		75 - 126
1,2-Dichloroethane-d4 (Surr)	98		70 - 134
Toluene-d8 (Surr)	99		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

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

Lab Sample ID: MB 500-456471/1-A

Matrix: Solid

Analysis Batch: 456723

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 456471

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0060		0.033	0.0060	mg/Kg		10/24/18 07:29	10/25/18 12:45	1
Acenaphthylene	<0.0044		0.033	0.0044	mg/Kg		10/24/18 07:29	10/25/18 12:45	1
Anthracene	<0.0056		0.033	0.0056	mg/Kg		10/24/18 07:29	10/25/18 12:45	1
Benzo[a]anthracene	<0.0045		0.033	0.0045	mg/Kg		10/24/18 07:29	10/25/18 12:45	1
Benzo[a]pyrene	<0.0064		0.033	0.0064	mg/Kg		10/24/18 07:29	10/25/18 12:45	1
Benzo[b]fluoranthene	<0.0072		0.033	0.0072	mg/Kg		10/24/18 07:29	10/25/18 12:45	1
Benzo[g,h,i]perylene	<0.011		0.033	0.011	mg/Kg		10/24/18 07:29	10/25/18 12:45	1
Benzo[k]fluoranthene	<0.0098		0.033	0.0098	mg/Kg		10/24/18 07:29	10/25/18 12:45	1
Bis(2-chloroethoxy)methane	<0.034		0.17	0.034	mg/Kg		10/24/18 07:29	10/25/18 12:45	1
Bis(2-chloroethyl)ether	<0.050		0.17	0.050	mg/Kg		10/24/18 07:29	10/25/18 12:45	1
Bis(2-ethylhexyl) phthalate	<0.061		0.17	0.061	mg/Kg		10/24/18 07:29	10/25/18 12:45	1
4-Bromophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		10/24/18 07:29	10/25/18 12:45	1
Butyl benzyl phthalate	<0.063		0.17	0.063	mg/Kg		10/24/18 07:29	10/25/18 12:45	1
Carbazole	<0.083		0.17	0.083	mg/Kg		10/24/18 07:29	10/25/18 12:45	1
4-Chloroaniline	<0.16		0.67	0.16	mg/Kg		10/24/18 07:29	10/25/18 12:45	1
4-Chloro-3-methylphenol	<0.11		0.33	0.11	mg/Kg		10/24/18 07:29	10/25/18 12:45	1
2-Chloronaphthalene	<0.037		0.17	0.037	mg/Kg		10/24/18 07:29	10/25/18 12:45	1
2-Chlorophenol	<0.057		0.17	0.057	mg/Kg		10/24/18 07:29	10/25/18 12:45	1
4-Chlorophenyl phenyl ether	<0.039		0.17	0.039	mg/Kg		10/24/18 07:29	10/25/18 12:45	1
Chrysene	<0.0091		0.033	0.0091	mg/Kg		10/24/18 07:29	10/25/18 12:45	1
Dibenz(a,h)anthracene	<0.0064		0.033	0.0064	mg/Kg		10/24/18 07:29	10/25/18 12:45	1
Dibenzofuran	<0.039		0.17	0.039	mg/Kg		10/24/18 07:29	10/25/18 12:45	1
1,2-Dichlorobenzene	<0.040		0.17	0.040	mg/Kg		10/24/18 07:29	10/25/18 12:45	1
1,3-Dichlorobenzene	<0.037		0.17	0.037	mg/Kg		10/24/18 07:29	10/25/18 12:45	1
1,4-Dichlorobenzene	<0.043		0.17	0.043	mg/Kg		10/24/18 07:29	10/25/18 12:45	1
3,3'-Dichlorobenzidine	<0.047		0.17	0.047	mg/Kg		10/24/18 07:29	10/25/18 12:45	1
2,4-Dichlorophenol	<0.079		0.33	0.079	mg/Kg		10/24/18 07:29	10/25/18 12:45	1
Diethyl phthalate	<0.056		0.17	0.056	mg/Kg		10/24/18 07:29	10/25/18 12:45	1
2,4-Dimethylphenol	<0.13		0.33	0.13	mg/Kg		10/24/18 07:29	10/25/18 12:45	1
Dimethyl phthalate	<0.043		0.17	0.043	mg/Kg		10/24/18 07:29	10/25/18 12:45	1
Di-n-butyl phthalate	<0.051		0.17	0.051	mg/Kg		10/24/18 07:29	10/25/18 12:45	1
4,6-Dinitro-2-methylphenol	<0.27		0.67	0.27	mg/Kg		10/24/18 07:29	10/25/18 12:45	1
2,4-Dinitrophenol	<0.59		0.67	0.59	mg/Kg		10/24/18 07:29	10/25/18 12:45	1
2,4-Dinitrotoluene	<0.053		0.17	0.053	mg/Kg		10/24/18 07:29	10/25/18 12:45	1
2,6-Dinitrotoluene	<0.065		0.17	0.065	mg/Kg		10/24/18 07:29	10/25/18 12:45	1
Di-n-octyl phthalate	<0.054		0.17	0.054	mg/Kg		10/24/18 07:29	10/25/18 12:45	1
Fluoranthene	<0.0062		0.033	0.0062	mg/Kg		10/24/18 07:29	10/25/18 12:45	1
Fluorene	<0.0047		0.033	0.0047	mg/Kg		10/24/18 07:29	10/25/18 12:45	1
Hexachlorobenzene	<0.0077		0.067	0.0077	mg/Kg		10/24/18 07:29	10/25/18 12:45	1
Hexachlorobutadiene	<0.052		0.17	0.052	mg/Kg		10/24/18 07:29	10/25/18 12:45	1
Hexachlorocyclopentadiene	<0.19		0.67	0.19	mg/Kg		10/24/18 07:29	10/25/18 12:45	1
Hexachloroethane	<0.051		0.17	0.051	mg/Kg		10/24/18 07:29	10/25/18 12:45	1
Indeno[1,2,3-cd]pyrene	<0.0086		0.033	0.0086	mg/Kg		10/24/18 07:29	10/25/18 12:45	1
Isophorone	<0.037		0.17	0.037	mg/Kg		10/24/18 07:29	10/25/18 12:45	1
2-Methylnaphthalene	<0.0061		0.067	0.0061	mg/Kg		10/24/18 07:29	10/25/18 12:45	1
2-Methylphenol	<0.053		0.17	0.053	mg/Kg		10/24/18 07:29	10/25/18 12:45	1
3 & 4 Methylphenol	<0.055		0.17	0.055	mg/Kg		10/24/18 07:29	10/25/18 12:45	1
Naphthalene	<0.0051		0.033	0.0051	mg/Kg		10/24/18 07:29	10/25/18 12:45	1

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

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

Lab Sample ID: MB 500-456471/1-A
Matrix: Solid
Analysis Batch: 456723

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 456471

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	<0.045		0.17	0.045	mg/Kg		10/24/18 07:29	10/25/18 12:45	1
3-Nitroaniline	<0.10		0.33	0.10	mg/Kg		10/24/18 07:29	10/25/18 12:45	1
4-Nitroaniline	<0.14		0.33	0.14	mg/Kg		10/24/18 07:29	10/25/18 12:45	1
Nitrobenzene	<0.0083		0.033	0.0083	mg/Kg		10/24/18 07:29	10/25/18 12:45	1
2-Nitrophenol	<0.079		0.33	0.079	mg/Kg		10/24/18 07:29	10/25/18 12:45	1
4-Nitrophenol	<0.32		0.67	0.32	mg/Kg		10/24/18 07:29	10/25/18 12:45	1
N-Nitrosodi-n-propylamine	<0.041		0.067	0.041	mg/Kg		10/24/18 07:29	10/25/18 12:45	1
N-Nitrosodiphenylamine	<0.039		0.17	0.039	mg/Kg		10/24/18 07:29	10/25/18 12:45	1
2,2'-oxybis[1-chloropropane]	<0.039		0.17	0.039	mg/Kg		10/24/18 07:29	10/25/18 12:45	1
Pentachlorophenol	<0.53		0.67	0.53	mg/Kg		10/24/18 07:29	10/25/18 12:45	1
Phenanthrene	<0.0046		0.033	0.0046	mg/Kg		10/24/18 07:29	10/25/18 12:45	1
Phenol	<0.074		0.17	0.074	mg/Kg		10/24/18 07:29	10/25/18 12:45	1
Pyrene	<0.0066		0.033	0.0066	mg/Kg		10/24/18 07:29	10/25/18 12:45	1
1,2,4-Trichlorobenzene	<0.036		0.17	0.036	mg/Kg		10/24/18 07:29	10/25/18 12:45	1
2,4,5-Trichlorophenol	<0.076		0.33	0.076	mg/Kg		10/24/18 07:29	10/25/18 12:45	1
2,4,6-Trichlorophenol	<0.11		0.33	0.11	mg/Kg		10/24/18 07:29	10/25/18 12:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	108		43 - 145	10/24/18 07:29	10/25/18 12:45	1
2-Fluorophenol	117		31 - 166	10/24/18 07:29	10/25/18 12:45	1
Nitrobenzene-d5	93		37 - 147	10/24/18 07:29	10/25/18 12:45	1
Phenol-d5	102		30 - 153	10/24/18 07:29	10/25/18 12:45	1
Terphenyl-d14	114		42 - 157	10/24/18 07:29	10/25/18 12:45	1
2,4,6-Tribromophenol	83		31 - 143	10/24/18 07:29	10/25/18 12:45	1

Lab Sample ID: LCS 500-456471/2-A
Matrix: Solid
Analysis Batch: 456723

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 456471

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1.33	1.58		mg/Kg		118	65 - 124
Acenaphthylene	1.33	1.51		mg/Kg		113	68 - 120
Anthracene	1.33	1.55	*	mg/Kg		116	70 - 114
Benzo[a]anthracene	1.33	1.56		mg/Kg		117	67 - 122
Benzo[a]pyrene	1.33	1.53		mg/Kg		115	65 - 133
Benzo[b]fluoranthene	1.33	1.48		mg/Kg		111	69 - 129
Benzo[g,h,i]perylene	1.33	1.66		mg/Kg		125	72 - 131
Benzo[k]fluoranthene	1.33	1.61		mg/Kg		121	68 - 127
Bis(2-chloroethoxy)methane	1.33	1.43		mg/Kg		107	60 - 112
Bis(2-chloroethyl)ether	1.33	1.38		mg/Kg		104	55 - 111
Bis(2-ethylhexyl) phthalate	1.33	1.70		mg/Kg		128	72 - 131
4-Bromophenyl phenyl ether	1.33	1.54		mg/Kg		115	68 - 118
Butyl benzyl phthalate	1.33	1.66		mg/Kg		125	71 - 129
Carbazole	1.33	1.56		mg/Kg		117	65 - 142
4-Chloroaniline	1.33	1.37		mg/Kg		103	30 - 150
4-Chloro-3-methylphenol	1.33	1.59		mg/Kg		119	65 - 122
2-Chloronaphthalene	1.33	1.43		mg/Kg		107	69 - 114
2-Chlorophenol	1.33	1.44		mg/Kg		108	64 - 110

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

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

Lab Sample ID: LCS 500-456471/2-A

Matrix: Solid

Analysis Batch: 456723

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 456471

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorophenyl phenyl ether	1.33	1.52		mg/Kg		114	62 - 119
Chrysene	1.33	1.51		mg/Kg		114	63 - 120
Dibenz(a,h)anthracene	1.33	1.50		mg/Kg		112	64 - 131
Dibenzofuran	1.33	1.49		mg/Kg		112	66 - 115
1,2-Dichlorobenzene	1.33	1.35		mg/Kg		101	62 - 110
1,3-Dichlorobenzene	1.33	1.36		mg/Kg		102	65 - 124
1,4-Dichlorobenzene	1.33	1.38		mg/Kg		104	61 - 110
3,3'-Dichlorobenzidine	1.33	1.38		mg/Kg		104	35 - 128
2,4-Dichlorophenol	1.33	1.54		mg/Kg		116	58 - 120
Diethyl phthalate	1.33	1.51		mg/Kg		114	58 - 120
2,4-Dimethylphenol	1.33	1.44		mg/Kg		108	60 - 110
Dimethyl phthalate	1.33	1.48		mg/Kg		111	69 - 116
Di-n-butyl phthalate	1.33	1.57		mg/Kg		118	65 - 120
4,6-Dinitro-2-methylphenol	2.67	1.55		mg/Kg		58	10 - 110
2,4-Dinitrophenol	2.67	0.913		mg/Kg		34	10 - 100
2,4-Dinitrotoluene	1.33	1.62		mg/Kg		122	69 - 124
2,6-Dinitrotoluene	1.33	1.62		mg/Kg		122	70 - 123
Di-n-octyl phthalate	1.33	1.74		mg/Kg		130	68 - 134
Fluoranthene	1.33	1.61	*	mg/Kg		121	62 - 120
Fluorene	1.33	1.47		mg/Kg		110	62 - 120
Hexachlorobenzene	1.33	1.49		mg/Kg		112	63 - 124
Hexachlorobutadiene	1.33	1.56		mg/Kg		117	56 - 120
Hexachlorocyclopentadiene	1.33	0.991		mg/Kg		74	10 - 133
Hexachloroethane	1.33	1.45		mg/Kg		109	60 - 114
Indeno[1,2,3-cd]pyrene	1.33	1.54		mg/Kg		116	68 - 130
Isophorone	1.33	1.37		mg/Kg		103	55 - 110
2-Methylnaphthalene	1.33	1.43		mg/Kg		107	69 - 112
2-Methylphenol	1.33	1.36		mg/Kg		102	60 - 120
3 & 4 Methylphenol	1.33	1.24		mg/Kg		93	57 - 120
Naphthalene	1.33	1.45		mg/Kg		108	63 - 110
2-Nitroaniline	1.33	1.56		mg/Kg		117	57 - 124
3-Nitroaniline	1.33	1.37		mg/Kg		103	40 - 122
4-Nitroaniline	1.33	1.41		mg/Kg		106	60 - 160
Nitrobenzene	1.33	1.46		mg/Kg		109	60 - 116
2-Nitrophenol	1.33	1.45		mg/Kg		109	60 - 120
4-Nitrophenol	2.67	2.91		mg/Kg		109	30 - 122
N-Nitrosodi-n-propylamine	1.33	1.21		mg/Kg		90	56 - 118
N-Nitrosodiphenylamine	1.33	1.49		mg/Kg		111	65 - 112
2,2'-oxybis[1-chloropropane]	1.33	1.19		mg/Kg		89	40 - 124
Pentachlorophenol	2.67	2.31		mg/Kg		86	13 - 112
Phenanthrene	1.33	1.47		mg/Kg		111	62 - 120
Phenol	1.33	1.40		mg/Kg		105	56 - 122
Pyrene	1.33	1.62		mg/Kg		121	61 - 128
1,2,4-Trichlorobenzene	1.33	1.50		mg/Kg		113	66 - 117
2,4,5-Trichlorophenol	1.33	1.62	*	mg/Kg		121	50 - 120
2,4,6-Trichlorophenol	1.33	1.47		mg/Kg		110	57 - 120

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

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

Lab Sample ID: LCS 500-456471/2-A
Matrix: Solid
Analysis Batch: 456723

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 456471

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	111		43 - 145
2-Fluorophenol	121		31 - 166
Nitrobenzene-d5	108		37 - 147
Phenol-d5	117		30 - 153
Terphenyl-d14	130		42 - 157
2,4,6-Tribromophenol	123		31 - 143

Lab Sample ID: 500-153334-1 MS
Matrix: Solid
Analysis Batch: 457294

Client Sample ID: 2947V-17-B04 (0-5)
Prep Type: Total/NA
Prep Batch: 456471

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	<0.0075		1.67	1.63		mg/Kg	☼	97	65 - 124
Acenaphthylene	<0.0055		1.67	1.63		mg/Kg	☼	97	68 - 120
Anthracene	0.014	J *	1.67	1.75		mg/Kg	☼	104	70 - 114
Benzo[a]anthracene	0.083		1.67	1.88		mg/Kg	☼	107	67 - 122
Benzo[a]pyrene	0.10		1.67	2.12		mg/Kg	☼	121	65 - 133
Benzo[b]fluoranthene	0.20	F1	1.67	2.17		mg/Kg	☼	118	69 - 129
Benzo[g,h,i]perylene	0.060		1.67	1.53		mg/Kg	☼	88	72 - 131
Benzo[k]fluoranthene	0.067	F1	1.67	1.90		mg/Kg	☼	109	68 - 127
Bis(2-chloroethoxy)methane	<0.042		1.67	1.80		mg/Kg	☼	108	60 - 112
Bis(2-chloroethyl)ether	<0.062	F1	1.67	1.87	F1	mg/Kg	☼	112	55 - 111
Bis(2-ethylhexyl) phthalate	<0.076		1.67	1.92		mg/Kg	☼	115	72 - 131
4-Bromophenyl phenyl ether	<0.055		1.67	1.86		mg/Kg	☼	111	68 - 118
Butyl benzyl phthalate	<0.079		1.67	2.04		mg/Kg	☼	122	71 - 129
Carbazole	<0.10		1.67	1.93		mg/Kg	☼	116	65 - 142
4-Chloroaniline	<0.20		1.67	1.13		mg/Kg	☼	67	30 - 150
4-Chloro-3-methylphenol	<0.14	F1	1.67	2.06	F1	mg/Kg	☼	123	65 - 122
2-Chloronaphthalene	<0.046		1.67	1.62		mg/Kg	☼	97	69 - 114
2-Chlorophenol	<0.071	F1	1.67	1.88	F1	mg/Kg	☼	113	64 - 110
4-Chlorophenyl phenyl ether	<0.049		1.67	1.73		mg/Kg	☼	103	62 - 119
Chrysene	0.11		1.67	2.01		mg/Kg	☼	113	63 - 120
Dibenz(a,h)anthracene	<0.0080		1.67	1.56		mg/Kg	☼	93	64 - 131
Dibenzofuran	<0.049		1.67	1.53		mg/Kg	☼	92	66 - 115
1,2-Dichlorobenzene	<0.050		1.67	1.72		mg/Kg	☼	102	62 - 110
1,3-Dichlorobenzene	<0.047		1.67	1.64		mg/Kg	☼	98	60 - 110
1,4-Dichlorobenzene	<0.053		1.67	1.71		mg/Kg	☼	102	61 - 110
3,3'-Dichlorobenzidine	<0.058		1.67	0.684		mg/Kg	☼	41	35 - 128
2,4-Dichlorophenol	<0.099		1.67	1.84		mg/Kg	☼	110	58 - 120
Diethyl phthalate	<0.071		1.67	1.70		mg/Kg	☼	102	58 - 120
2,4-Dimethylphenol	<0.16		1.67	1.78		mg/Kg	☼	106	60 - 110
Dimethyl phthalate	<0.054		1.67	1.68		mg/Kg	☼	100	69 - 116
Di-n-butyl phthalate	<0.063		1.67	1.76		mg/Kg	☼	105	65 - 120
4,6-Dinitro-2-methylphenol	<0.33		3.35	3.20		mg/Kg	☼	96	10 - 110
2,4-Dinitrophenol	<0.73		3.35	3.34		mg/Kg	☼	100	10 - 100
2,4-Dinitrotoluene	<0.066		1.67	1.64		mg/Kg	☼	98	69 - 124
2,6-Dinitrotoluene	<0.082		1.67	1.66		mg/Kg	☼	99	70 - 123
Di-n-octyl phthalate	<0.068		1.67	2.12		mg/Kg	☼	127	68 - 134

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

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

Lab Sample ID: 500-153334-1 MS

Matrix: Solid

Analysis Batch: 457294

Client Sample ID: 2947V-17-B04 (0-5)

Prep Type: Total/NA

Prep Batch: 456471

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier					
Fluoranthene	0.18	*	1.67	2.07		mg/Kg	☼	113		62 - 120
Fluorene	<0.0059		1.67	1.71		mg/Kg	☼	102		62 - 120
Hexachlorobenzene	<0.0096		1.67	1.72		mg/Kg	☼	103		63 - 124
Hexachlorobutadiene	<0.065		1.67	1.70		mg/Kg	☼	101		56 - 120
Hexachlorocyclopentadiene	<0.24	F1	1.67	<0.24	F1	mg/Kg	☼	0		10 - 133
Hexachloroethane	<0.063		1.67	1.81		mg/Kg	☼	108		60 - 114
Indeno[1,2,3-cd]pyrene	0.057		1.67	1.52		mg/Kg	☼	88		68 - 130
Isophorone	<0.047		1.67	1.80		mg/Kg	☼	107		55 - 110
2-Methylnaphthalene	<0.0077		1.67	1.64		mg/Kg	☼	98		69 - 112
2-Methylphenol	<0.067		1.67	1.63		mg/Kg	☼	97		60 - 120
3 & 4 Methylphenol	<0.069	F1	1.67	2.13	F1	mg/Kg	☼	127		57 - 120
Naphthalene	<0.0064		1.67	1.67		mg/Kg	☼	100		63 - 110
2-Nitroaniline	<0.056	F1	1.67	2.00		mg/Kg	☼	120		57 - 124
3-Nitroaniline	<0.13		1.67	1.37		mg/Kg	☼	82		40 - 122
4-Nitroaniline	<0.17		1.67	1.77		mg/Kg	☼	106		60 - 160
Nitrobenzene	<0.010		1.67	1.79		mg/Kg	☼	107		60 - 116
2-Nitrophenol	<0.098		1.67	1.77		mg/Kg	☼	106		60 - 120
4-Nitrophenol	<0.40		3.35	4.04		mg/Kg	☼	121		30 - 122
N-Nitrosodi-n-propylamine	<0.051		1.67	1.87		mg/Kg	☼	112		56 - 118
N-Nitrosodiphenylamine	<0.049		1.67	1.68		mg/Kg	☼	101		65 - 112
2,2'-oxybis[1-chloropropane]	<0.048		1.67	1.87		mg/Kg	☼	112		40 - 124
Pentachlorophenol	<0.67	F1	3.35	<0.67	F1	mg/Kg	☼	0		13 - 112
Phenanthrene	0.087		1.67	1.81		mg/Kg	☼	103		62 - 120
Phenol	<0.092	F1	1.67	2.02		mg/Kg	☼	121		56 - 122
Pyrene	0.16		1.67	1.92		mg/Kg	☼	105		61 - 128
1,2,4-Trichlorobenzene	<0.045		1.67	1.62		mg/Kg	☼	97		66 - 117
2,4,5-Trichlorophenol	<0.095	*	1.67	1.57		mg/Kg	☼	94		50 - 120
2,4,6-Trichlorophenol	<0.14		1.67	1.63		mg/Kg	☼	97		57 - 120

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	89		43 - 145
2-Fluorophenol	138		31 - 166
Nitrobenzene-d5	113		37 - 147
Phenol-d5	127		30 - 153
Terphenyl-d14	122		42 - 157
2,4,6-Tribromophenol	108		31 - 143

Lab Sample ID: 500-153334-1 MSD

Matrix: Solid

Analysis Batch: 457294

Client Sample ID: 2947V-17-B04 (0-5)

Prep Type: Total/NA

Prep Batch: 456471

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
Acenaphthene	<0.0075		1.67	1.72		mg/Kg	☼	103		65 - 124	5	30
Acenaphthylene	<0.0055		1.67	1.68		mg/Kg	☼	101		68 - 120	3	30
Anthracene	0.014	J*	1.67	1.80		mg/Kg	☼	107		70 - 114	3	30
Benzo[a]anthracene	0.083		1.67	1.86		mg/Kg	☼	107		67 - 122	1	30
Benzo[a]pyrene	0.10		1.67	2.18		mg/Kg	☼	124		65 - 133	3	30
Benzo[b]fluoranthene	0.20	F1	1.67	2.55	F1	mg/Kg	☼	141		69 - 129	16	30

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

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

Lab Sample ID: 500-153334-1 MSD

Matrix: Solid

Analysis Batch: 457294

Client Sample ID: 2947V-17-B04 (0-5)

Prep Type: Total/NA

Prep Batch: 456471

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Benzo[g,h,i]perylene	0.060		1.67	1.61		mg/Kg	☼	93	72 - 131	5	30
Benzo[k]fluoranthene	0.067	F1	1.67	2.28	F1	mg/Kg	☼	133	68 - 127	18	30
Bis(2-chloroethoxy)methane	<0.042		1.67	1.78		mg/Kg	☼	107	60 - 112	1	30
Bis(2-chloroethyl)ether	<0.062	F1	1.67	1.95	F1	mg/Kg	☼	117	55 - 111	4	30
Bis(2-ethylhexyl) phthalate	<0.076		1.67	1.85		mg/Kg	☼	110	72 - 131	4	30
4-Bromophenyl phenyl ether	<0.055		1.67	1.85		mg/Kg	☼	111	68 - 118	0	30
Butyl benzyl phthalate	<0.079		1.67	1.97		mg/Kg	☼	118	71 - 129	3	30
Carbazole	<0.10		1.67	2.02		mg/Kg	☼	121	65 - 142	4	30
4-Chloroaniline	<0.20		1.67	1.09		mg/Kg	☼	65	30 - 150	3	30
4-Chloro-3-methylphenol	<0.14	F1	1.67	2.09	F1	mg/Kg	☼	125	65 - 122	1	30
2-Chloronaphthalene	<0.046		1.67	1.67		mg/Kg	☼	100	69 - 114	3	30
2-Chlorophenol	<0.071	F1	1.67	1.88	F1	mg/Kg	☼	112	64 - 110	0	30
4-Chlorophenyl phenyl ether	<0.049		1.67	1.75		mg/Kg	☼	104	62 - 119	1	30
Chrysene	0.11		1.67	2.01		mg/Kg	☼	114	63 - 120	0	30
Dibenz(a,h)anthracene	<0.0080		1.67	1.61		mg/Kg	☼	96	64 - 131	3	30
Dibenzofuran	<0.049		1.67	1.59		mg/Kg	☼	95	66 - 115	4	30
1,2-Dichlorobenzene	<0.050		1.67	1.66		mg/Kg	☼	99	62 - 110	3	30
1,3-Dichlorobenzene	<0.047		1.67	1.61		mg/Kg	☼	96	60 - 110	2	30
1,4-Dichlorobenzene	<0.053		1.67	1.67		mg/Kg	☼	100	61 - 110	2	30
3,3'-Dichlorobenzidine	<0.058		1.67	0.846		mg/Kg	☼	51	35 - 128	21	30
2,4-Dichlorophenol	<0.099		1.67	1.84		mg/Kg	☼	110	58 - 120	0	30
Diethyl phthalate	<0.071		1.67	1.78		mg/Kg	☼	107	58 - 120	5	30
2,4-Dimethylphenol	<0.16		1.67	1.76		mg/Kg	☼	105	60 - 110	1	30
Dimethyl phthalate	<0.054		1.67	1.73		mg/Kg	☼	104	69 - 116	3	30
Di-n-butyl phthalate	<0.063		1.67	1.83		mg/Kg	☼	109	65 - 120	4	30
4,6-Dinitro-2-methylphenol	<0.33		3.35	2.91		mg/Kg	☼	87	10 - 110	10	30
2,4-Dinitrophenol	<0.73		3.35	2.65		mg/Kg	☼	79	10 - 100	23	30
2,4-Dinitrotoluene	<0.066		1.67	1.62		mg/Kg	☼	97	69 - 124	1	30
2,6-Dinitrotoluene	<0.082		1.67	1.75		mg/Kg	☼	105	70 - 123	5	30
Di-n-octyl phthalate	<0.068		1.67	2.23		mg/Kg	☼	133	68 - 134	5	30
Fluoranthene	0.18	*	1.67	2.19		mg/Kg	☼	120	62 - 120	5	30
Fluorene	<0.0059		1.67	1.75		mg/Kg	☼	104	62 - 120	2	30
Hexachlorobenzene	<0.0096		1.67	1.84		mg/Kg	☼	110	63 - 124	7	30
Hexachlorobutadiene	<0.065		1.67	1.61		mg/Kg	☼	96	56 - 120	5	30
Hexachlorocyclopentadiene	<0.24	F1	1.67	<0.24	F1	mg/Kg	☼	0	10 - 133	NC	30
Hexachloroethane	<0.063		1.67	1.73		mg/Kg	☼	103	60 - 114	5	30
Indeno[1,2,3-cd]pyrene	0.057		1.67	1.59		mg/Kg	☼	92	68 - 130	4	30
Isophorone	<0.047		1.67	1.76		mg/Kg	☼	105	55 - 110	2	30
2-Methylnaphthalene	<0.0077		1.67	1.62		mg/Kg	☼	97	69 - 112	1	30
2-Methylphenol	<0.067		1.67	1.67		mg/Kg	☼	100	60 - 120	3	30
3 & 4 Methylphenol	<0.069	F1	1.67	2.22	F1	mg/Kg	☼	132	57 - 120	4	30
Naphthalene	<0.0064		1.67	1.63		mg/Kg	☼	98	63 - 110	2	30
2-Nitroaniline	<0.056	F1	1.67	2.13	F1	mg/Kg	☼	127	57 - 124	6	30
3-Nitroaniline	<0.13		1.67	1.48		mg/Kg	☼	88	40 - 122	8	30
4-Nitroaniline	<0.17		1.67	1.93		mg/Kg	☼	115	60 - 160	9	30
Nitrobenzene	<0.010		1.67	1.72		mg/Kg	☼	103	60 - 116	4	30
2-Nitrophenol	<0.098		1.67	1.76		mg/Kg	☼	105	60 - 120	1	30
4-Nitrophenol	<0.40		3.35	3.89		mg/Kg	☼	116	30 - 122	4	30

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

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

Lab Sample ID: 500-153334-1 MSD

Matrix: Solid

Analysis Batch: 457294

Client Sample ID: 2947V-17-B04 (0-5)

Prep Type: Total/NA

Prep Batch: 456471

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
N-Nitrosodi-n-propylamine	<0.051		1.67	1.97		mg/Kg	☼	118	56 - 118	5	30	
N-Nitrosodiphenylamine	<0.049		1.67	1.69		mg/Kg	☼	101	65 - 112	0	30	
2,2'-oxybis[1-chloropropane]	<0.048		1.67	1.98		mg/Kg	☼	119	40 - 124	6	30	
Pentachlorophenol	<0.67	F1	3.35	<0.67	F1	mg/Kg	☼	0	13 - 112	NC	30	
Phenanthrene	0.087		1.67	1.84		mg/Kg	☼	105	62 - 120	2	30	
Phenol	<0.092	F1	1.67	2.07	F1	mg/Kg	☼	123	56 - 122	2	30	
Pyrene	0.16		1.67	1.92		mg/Kg	☼	105	61 - 128	0	30	
1,2,4-Trichlorobenzene	<0.045		1.67	1.57		mg/Kg	☼	94	66 - 117	3	30	
2,4,5-Trichlorophenol	<0.095	*	1.67	1.59		mg/Kg	☼	95	50 - 120	1	30	
2,4,6-Trichlorophenol	<0.14		1.67	1.53		mg/Kg	☼	91	57 - 120	6	30	

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
2-Fluorobiphenyl	91		43 - 145
2-Fluorophenol	139		31 - 166
Nitrobenzene-d5	109		37 - 147
Phenol-d5	128		30 - 153
Terphenyl-d14	110		42 - 157
2,4,6-Tribromophenol	103		31 - 143

Lab Sample ID: MB 500-456475/1-A

Matrix: Solid

Analysis Batch: 456723

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 456475

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	<0.0060		0.033	0.0060	mg/Kg		10/24/18 07:38	10/25/18 13:36	1
Acenaphthylene	<0.0044		0.033	0.0044	mg/Kg		10/24/18 07:38	10/25/18 13:36	1
Anthracene	<0.0056		0.033	0.0056	mg/Kg		10/24/18 07:38	10/25/18 13:36	1
Benzo[a]anthracene	<0.0045		0.033	0.0045	mg/Kg		10/24/18 07:38	10/25/18 13:36	1
Benzo[a]pyrene	<0.0064		0.033	0.0064	mg/Kg		10/24/18 07:38	10/25/18 13:36	1
Benzo[b]fluoranthene	<0.0072		0.033	0.0072	mg/Kg		10/24/18 07:38	10/25/18 13:36	1
Benzo[g,h,i]perylene	<0.011		0.033	0.011	mg/Kg		10/24/18 07:38	10/25/18 13:36	1
Benzo[k]fluoranthene	<0.0098		0.033	0.0098	mg/Kg		10/24/18 07:38	10/25/18 13:36	1
Bis(2-chloroethoxy)methane	<0.034		0.17	0.034	mg/Kg		10/24/18 07:38	10/25/18 13:36	1
Bis(2-chloroethyl)ether	<0.050		0.17	0.050	mg/Kg		10/24/18 07:38	10/25/18 13:36	1
Bis(2-ethylhexyl) phthalate	<0.061		0.17	0.061	mg/Kg		10/24/18 07:38	10/25/18 13:36	1
4-Bromophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		10/24/18 07:38	10/25/18 13:36	1
Butyl benzyl phthalate	<0.063		0.17	0.063	mg/Kg		10/24/18 07:38	10/25/18 13:36	1
Carbazole	<0.083		0.17	0.083	mg/Kg		10/24/18 07:38	10/25/18 13:36	1
4-Chloroaniline	<0.16		0.67	0.16	mg/Kg		10/24/18 07:38	10/25/18 13:36	1
4-Chloro-3-methylphenol	<0.11		0.33	0.11	mg/Kg		10/24/18 07:38	10/25/18 13:36	1
2-Chloronaphthalene	<0.037		0.17	0.037	mg/Kg		10/24/18 07:38	10/25/18 13:36	1
2-Chlorophenol	<0.057		0.17	0.057	mg/Kg		10/24/18 07:38	10/25/18 13:36	1
4-Chlorophenyl phenyl ether	<0.039		0.17	0.039	mg/Kg		10/24/18 07:38	10/25/18 13:36	1
Chrysene	<0.0091		0.033	0.0091	mg/Kg		10/24/18 07:38	10/25/18 13:36	1
Dibenz(a,h)anthracene	<0.0064		0.033	0.0064	mg/Kg		10/24/18 07:38	10/25/18 13:36	1
Dibenzofuran	<0.039		0.17	0.039	mg/Kg		10/24/18 07:38	10/25/18 13:36	1
1,2-Dichlorobenzene	<0.040		0.17	0.040	mg/Kg		10/24/18 07:38	10/25/18 13:36	1
1,3-Dichlorobenzene	<0.037		0.17	0.037	mg/Kg		10/24/18 07:38	10/25/18 13:36	1

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

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

Lab Sample ID: MB 500-456475/1-A
Matrix: Solid
Analysis Batch: 456723

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 456475

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,4-Dichlorobenzene	<0.043		0.17	0.043	mg/Kg		10/24/18 07:38	10/25/18 13:36	1
3,3'-Dichlorobenzidine	<0.047		0.17	0.047	mg/Kg		10/24/18 07:38	10/25/18 13:36	1
2,4-Dichlorophenol	<0.079		0.33	0.079	mg/Kg		10/24/18 07:38	10/25/18 13:36	1
Diethyl phthalate	<0.056		0.17	0.056	mg/Kg		10/24/18 07:38	10/25/18 13:36	1
2,4-Dimethylphenol	<0.13		0.33	0.13	mg/Kg		10/24/18 07:38	10/25/18 13:36	1
Dimethyl phthalate	<0.043		0.17	0.043	mg/Kg		10/24/18 07:38	10/25/18 13:36	1
Di-n-butyl phthalate	<0.051		0.17	0.051	mg/Kg		10/24/18 07:38	10/25/18 13:36	1
4,6-Dinitro-2-methylphenol	<0.27		0.67	0.27	mg/Kg		10/24/18 07:38	10/25/18 13:36	1
2,4-Dinitrophenol	<0.59		0.67	0.59	mg/Kg		10/24/18 07:38	10/25/18 13:36	1
2,4-Dinitrotoluene	<0.053		0.17	0.053	mg/Kg		10/24/18 07:38	10/25/18 13:36	1
2,6-Dinitrotoluene	<0.065		0.17	0.065	mg/Kg		10/24/18 07:38	10/25/18 13:36	1
Di-n-octyl phthalate	<0.054		0.17	0.054	mg/Kg		10/24/18 07:38	10/25/18 13:36	1
Fluoranthene	<0.0062		0.033	0.0062	mg/Kg		10/24/18 07:38	10/25/18 13:36	1
Fluorene	<0.0047		0.033	0.0047	mg/Kg		10/24/18 07:38	10/25/18 13:36	1
Hexachlorobenzene	<0.0077		0.067	0.0077	mg/Kg		10/24/18 07:38	10/25/18 13:36	1
Hexachlorobutadiene	<0.052		0.17	0.052	mg/Kg		10/24/18 07:38	10/25/18 13:36	1
Hexachlorocyclopentadiene	<0.19		0.67	0.19	mg/Kg		10/24/18 07:38	10/25/18 13:36	1
Hexachloroethane	<0.051		0.17	0.051	mg/Kg		10/24/18 07:38	10/25/18 13:36	1
Indeno[1,2,3-cd]pyrene	<0.0086		0.033	0.0086	mg/Kg		10/24/18 07:38	10/25/18 13:36	1
Isophorone	<0.037		0.17	0.037	mg/Kg		10/24/18 07:38	10/25/18 13:36	1
2-Methylnaphthalene	<0.0061		0.067	0.0061	mg/Kg		10/24/18 07:38	10/25/18 13:36	1
2-Methylphenol	<0.053		0.17	0.053	mg/Kg		10/24/18 07:38	10/25/18 13:36	1
3 & 4 Methylphenol	<0.055		0.17	0.055	mg/Kg		10/24/18 07:38	10/25/18 13:36	1
Naphthalene	<0.0051		0.033	0.0051	mg/Kg		10/24/18 07:38	10/25/18 13:36	1
2-Nitroaniline	<0.045		0.17	0.045	mg/Kg		10/24/18 07:38	10/25/18 13:36	1
3-Nitroaniline	<0.10		0.33	0.10	mg/Kg		10/24/18 07:38	10/25/18 13:36	1
4-Nitroaniline	<0.14		0.33	0.14	mg/Kg		10/24/18 07:38	10/25/18 13:36	1
Nitrobenzene	<0.0083		0.033	0.0083	mg/Kg		10/24/18 07:38	10/25/18 13:36	1
2-Nitrophenol	<0.079		0.33	0.079	mg/Kg		10/24/18 07:38	10/25/18 13:36	1
4-Nitrophenol	<0.32		0.67	0.32	mg/Kg		10/24/18 07:38	10/25/18 13:36	1
N-Nitrosodi-n-propylamine	<0.041		0.067	0.041	mg/Kg		10/24/18 07:38	10/25/18 13:36	1
N-Nitrosodiphenylamine	<0.039		0.17	0.039	mg/Kg		10/24/18 07:38	10/25/18 13:36	1
2,2'-oxybis[1-chloropropane]	<0.039		0.17	0.039	mg/Kg		10/24/18 07:38	10/25/18 13:36	1
Pentachlorophenol	<0.53		0.67	0.53	mg/Kg		10/24/18 07:38	10/25/18 13:36	1
Phenanthrene	<0.0046		0.033	0.0046	mg/Kg		10/24/18 07:38	10/25/18 13:36	1
Phenol	<0.074		0.17	0.074	mg/Kg		10/24/18 07:38	10/25/18 13:36	1
Pyrene	<0.0066		0.033	0.0066	mg/Kg		10/24/18 07:38	10/25/18 13:36	1
1,2,4-Trichlorobenzene	<0.036		0.17	0.036	mg/Kg		10/24/18 07:38	10/25/18 13:36	1
2,4,5-Trichlorophenol	<0.076		0.33	0.076	mg/Kg		10/24/18 07:38	10/25/18 13:36	1
2,4,6-Trichlorophenol	<0.11		0.33	0.11	mg/Kg		10/24/18 07:38	10/25/18 13:36	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorobiphenyl	109		43 - 145	10/24/18 07:38	10/25/18 13:36	1
2-Fluorophenol	115		31 - 166	10/24/18 07:38	10/25/18 13:36	1
Nitrobenzene-d5	93		37 - 147	10/24/18 07:38	10/25/18 13:36	1
Phenol-d5	102		30 - 153	10/24/18 07:38	10/25/18 13:36	1
Terphenyl-d14	115		42 - 157	10/24/18 07:38	10/25/18 13:36	1
2,4,6-Tribromophenol	99		31 - 143	10/24/18 07:38	10/25/18 13:36	1

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Lab Sample ID: LCS 500-456475/2-A
Matrix: Solid
Analysis Batch: 456723

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 456475
%Rec. Limits

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1.33	1.52		mg/Kg		114	65 - 124
Acenaphthylene	1.33	1.47		mg/Kg		111	68 - 120
Anthracene	1.33	1.52		mg/Kg		114	70 - 114
Benzo[a]anthracene	1.33	1.55		mg/Kg		116	67 - 122
Benzo[a]pyrene	1.33	1.53		mg/Kg		115	65 - 133
Benzo[b]fluoranthene	1.33	1.46		mg/Kg		109	69 - 129
Benzo[g,h,i]perylene	1.33	1.66		mg/Kg		125	72 - 131
Benzo[k]fluoranthene	1.33	1.61		mg/Kg		120	68 - 127
Bis(2-chloroethoxy)methane	1.33	1.42		mg/Kg		106	60 - 112
Bis(2-chloroethyl)ether	1.33	1.41		mg/Kg		106	55 - 111
Bis(2-ethylhexyl) phthalate	1.33	1.68		mg/Kg		126	72 - 131
4-Bromophenyl phenyl ether	1.33	1.52		mg/Kg		114	68 - 118
Butyl benzyl phthalate	1.33	1.64		mg/Kg		123	71 - 129
Carbazole	1.33	1.54		mg/Kg		116	65 - 142
4-Chloroaniline	1.33	1.35		mg/Kg		101	30 - 150
4-Chloro-3-methylphenol	1.33	1.58		mg/Kg		119	65 - 122
2-Chloronaphthalene	1.33	1.43		mg/Kg		107	69 - 114
2-Chlorophenol	1.33	1.44		mg/Kg		108	64 - 110
4-Chlorophenyl phenyl ether	1.33	1.47		mg/Kg		110	62 - 119
Chrysene	1.33	1.49		mg/Kg		112	63 - 120
Dibenz(a,h)anthracene	1.33	1.49		mg/Kg		112	64 - 131
Dibenzofuran	1.33	1.48		mg/Kg		111	66 - 115
1,2-Dichlorobenzene	1.33	1.40		mg/Kg		105	62 - 110
1,3-Dichlorobenzene	1.33	1.36		mg/Kg		102	65 - 124
1,4-Dichlorobenzene	1.33	1.39		mg/Kg		105	61 - 110
3,3'-Dichlorobenzidine	1.33	1.37		mg/Kg		103	35 - 128
2,4-Dichlorophenol	1.33	1.53		mg/Kg		115	58 - 120
Diethyl phthalate	1.33	1.50		mg/Kg		112	58 - 120
2,4-Dimethylphenol	1.33	1.44		mg/Kg		108	60 - 110
Dimethyl phthalate	1.33	1.45		mg/Kg		109	69 - 116
Di-n-butyl phthalate	1.33	1.49		mg/Kg		112	65 - 120
4,6-Dinitro-2-methylphenol	2.67	1.30		mg/Kg		49	10 - 110
2,4-Dinitrophenol	2.67	0.676		mg/Kg		25	10 - 100
2,4-Dinitrotoluene	1.33	1.59		mg/Kg		119	69 - 124
2,6-Dinitrotoluene	1.33	1.59		mg/Kg		120	70 - 123
Di-n-octyl phthalate	1.33	1.70		mg/Kg		127	68 - 134
Fluoranthene	1.33	1.60		mg/Kg		120	62 - 120
Fluorene	1.33	1.44		mg/Kg		108	62 - 120
Hexachlorobenzene	1.33	1.49		mg/Kg		112	63 - 124
Hexachlorobutadiene	1.33	1.54		mg/Kg		116	56 - 120
Hexachlorocyclopentadiene	1.33	0.992		mg/Kg		74	10 - 133
Hexachloroethane	1.33	1.45		mg/Kg		109	60 - 114
Indeno[1,2,3-cd]pyrene	1.33	1.54		mg/Kg		115	68 - 130
Isophorone	1.33	1.38		mg/Kg		104	55 - 110
2-Methylnaphthalene	1.33	1.42		mg/Kg		106	69 - 112
2-Methylphenol	1.33	1.43		mg/Kg		107	60 - 120
3 & 4 Methylphenol	1.33	1.30		mg/Kg		97	57 - 120
Naphthalene	1.33	1.45		mg/Kg		108	63 - 110
2-Nitroaniline	1.33	1.51		mg/Kg		114	57 - 124
3-Nitroaniline	1.33	1.30		mg/Kg		98	40 - 122

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

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

Lab Sample ID: LCS 500-456475/2-A
Matrix: Solid
Analysis Batch: 456723

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 456475

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Nitroaniline	1.33	1.37		mg/Kg		103	60 - 160
Nitrobenzene	1.33	1.42		mg/Kg		106	60 - 116
2-Nitrophenol	1.33	1.45		mg/Kg		109	60 - 120
4-Nitrophenol	2.67	2.84		mg/Kg		106	30 - 122
N-Nitrosodi-n-propylamine	1.33	1.22		mg/Kg		91	56 - 118
N-Nitrosodiphenylamine	1.33	1.45		mg/Kg		109	65 - 112
2,2'-oxybis[1-chloropropane]	1.33	1.15		mg/Kg		87	40 - 124
Pentachlorophenol	2.67	2.06		mg/Kg		77	13 - 112
Phenanthrene	1.33	1.47		mg/Kg		110	62 - 120
Phenol	1.33	1.42		mg/Kg		106	56 - 122
Pyrene	1.33	1.58		mg/Kg		119	61 - 128
1,2,4-Trichlorobenzene	1.33	1.49		mg/Kg		111	66 - 117
2,4,5-Trichlorophenol	1.33	1.50		mg/Kg		113	50 - 120
2,4,6-Trichlorophenol	1.33	1.44		mg/Kg		108	57 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	111		43 - 145
2-Fluorophenol	125		31 - 166
Nitrobenzene-d5	108		37 - 147
Phenol-d5	117		30 - 153
Terphenyl-d14	129		42 - 157
2,4,6-Tribromophenol	123		31 - 143

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-456503/1-A
Matrix: Solid
Analysis Batch: 456707

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 456503

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.568	J	2.0	0.39	mg/Kg		10/24/18 08:16	10/24/18 19:07	1
Arsenic	<0.34		1.0	0.34	mg/Kg		10/24/18 08:16	10/24/18 19:07	1
Barium	<0.11		1.0	0.11	mg/Kg		10/24/18 08:16	10/24/18 19:07	1
Beryllium	<0.093		0.40	0.093	mg/Kg		10/24/18 08:16	10/24/18 19:07	1
Cadmium	0.0586	J	0.20	0.036	mg/Kg		10/24/18 08:16	10/24/18 19:07	1
Chromium	<0.50		1.0	0.50	mg/Kg		10/24/18 08:16	10/24/18 19:07	1
Cobalt	<0.13		0.50	0.13	mg/Kg		10/24/18 08:16	10/24/18 19:07	1
Copper	1.11		1.0	0.28	mg/Kg		10/24/18 08:16	10/24/18 19:07	1
Iron	<10		20	10	mg/Kg		10/24/18 08:16	10/24/18 19:07	1
Lead	0.321	J	0.50	0.23	mg/Kg		10/24/18 08:16	10/24/18 19:07	1
Magnesium	<5.0		10	5.0	mg/Kg		10/24/18 08:16	10/24/18 19:07	1
Calcium	6.41	J	20	3.4	mg/Kg		10/24/18 08:16	10/24/18 19:07	1
Manganese	<0.15		1.0	0.15	mg/Kg		10/24/18 08:16	10/24/18 19:07	1
Nickel	<0.29		1.0	0.29	mg/Kg		10/24/18 08:16	10/24/18 19:07	1
Selenium	<0.59		1.0	0.59	mg/Kg		10/24/18 08:16	10/24/18 19:07	1
Silver	<0.13		0.50	0.13	mg/Kg		10/24/18 08:16	10/24/18 19:07	1
Thallium	<0.50		1.0	0.50	mg/Kg		10/24/18 08:16	10/24/18 19:07	1
Vanadium	<0.12		0.50	0.12	mg/Kg		10/24/18 08:16	10/24/18 19:07	1

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

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

Lab Sample ID: MB 500-456503/1-A
Matrix: Solid
Analysis Batch: 456707

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 456503

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	<0.88		2.0	0.88	mg/Kg		10/24/18 08:16	10/24/18 19:07	1
Potassium	<18		50	18	mg/Kg		10/24/18 08:16	10/24/18 19:07	1
Sodium	<15		100	15	mg/Kg		10/24/18 08:16	10/24/18 19:07	1

Lab Sample ID: LCS 500-456503/2-A
Matrix: Solid
Analysis Batch: 456707

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 456503

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	50.0	45.4		mg/Kg		91	80 - 120
Arsenic	10.0	9.26		mg/Kg		93	80 - 120
Barium	200	192		mg/Kg		96	80 - 120
Beryllium	5.00	4.51		mg/Kg		90	80 - 120
Cadmium	5.00	4.57		mg/Kg		91	80 - 120
Chromium	20.0	19.2		mg/Kg		96	80 - 120
Cobalt	50.0	47.7		mg/Kg		95	80 - 120
Copper	25.0	27.8		mg/Kg		111	80 - 120
Iron	100	113		mg/Kg		113	80 - 120
Lead	10.0	9.17		mg/Kg		92	80 - 120
Magnesium	1000	926		mg/Kg		93	80 - 120
Calcium	1000	966		mg/Kg		97	80 - 120
Manganese	50.0	46.4		mg/Kg		93	80 - 120
Nickel	50.0	47.3		mg/Kg		95	80 - 120
Selenium	10.0	9.25		mg/Kg		93	80 - 120
Silver	5.00	4.57		mg/Kg		91	80 - 120
Thallium	10.0	8.00		mg/Kg		80	80 - 120
Vanadium	50.0	47.5		mg/Kg		95	80 - 120
Zinc	50.0	46.4		mg/Kg		93	80 - 120
Potassium	1000	954		mg/Kg		95	80 - 120
Sodium	1000	946		mg/Kg		95	80 - 120

Lab Sample ID: 500-153334-12 MS
Matrix: Solid
Analysis Batch: 456707

Client Sample ID: 2947V-17-B15 (0-5)
Prep Type: Total/NA
Prep Batch: 456503

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	0.38	J B F1	27.1	4.75	F1	mg/Kg	☼	16	75 - 125
Arsenic	6.3		5.43	10.6		mg/Kg	☼	80	75 - 125
Barium	130	F1 F2	109	222		mg/Kg	☼	83	75 - 125
Beryllium	0.65	F1	2.71	2.61	F1	mg/Kg	☼	72	75 - 125
Cadmium	0.17	B F1	2.71	2.11	F1	mg/Kg	☼	71	75 - 125
Chromium	17		10.9	27.1		mg/Kg	☼	97	75 - 125
Cobalt	10	F1 F2	27.1	37.2		mg/Kg	☼	99	75 - 125
Copper	14	B	13.6	24.0		mg/Kg	☼	77	75 - 125
Iron	16000		54.3	17200	4	mg/Kg	☼	1215	75 - 125
Lead	26	B	5.43	33.8	4	mg/Kg	☼	138	75 - 125
Magnesium	4000		543	5140	4	mg/Kg	☼	211	75 - 125
Calcium	5000	B F2	543	6400	4	mg/Kg	☼	251	75 - 125
Manganese	660	F2	27.1	690	4	mg/Kg	☼	106	75 - 125

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

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

Lab Sample ID: 500-153334-12 MS

Matrix: Solid

Analysis Batch: 456707

Client Sample ID: 2947V-17-B15 (0-5)

Prep Type: Total/NA

Prep Batch: 456503

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
Nickel	18	F1 F2	27.1	45.2		mg/Kg	☼	100	75 - 125
Selenium	0.56	F1	5.43	4.17	F1	mg/Kg	☼	66	75 - 125
Silver	0.30	F1	2.71	2.28	F1	mg/Kg	☼	73	75 - 125
Thallium	<0.27	F1	5.43	3.93	F1	mg/Kg	☼	72	75 - 125
Vanadium	29		27.1	52.8		mg/Kg	☼	88	75 - 125
Zinc	70		27.1	100		mg/Kg	☼	113	75 - 125
Potassium	1800	F1	543	2740	F1	mg/Kg	☼	182	75 - 125
Sodium	510		543	921		mg/Kg	☼	76	75 - 125

Lab Sample ID: 500-153334-12 MSD

Matrix: Solid

Analysis Batch: 456707

Client Sample ID: 2947V-17-B15 (0-5)

Prep Type: Total/NA

Prep Batch: 456503

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Antimony	0.38	J B F1	28.5	5.13	F1	mg/Kg	☼	17	75 - 125	8	20
Arsenic	6.3		5.70	12.1		mg/Kg	☼	102	75 - 125	13	20
Barium	130	F1 F2	114	303	F1 F2	mg/Kg	☼	150	75 - 125	31	20
Beryllium	0.65	F1	2.85	2.77	F1	mg/Kg	☼	74	75 - 125	6	20
Cadmium	0.17	B F1	2.85	2.46		mg/Kg	☼	80	75 - 125	15	20
Chromium	17		11.4	27.1		mg/Kg	☼	93	75 - 125	0	20
Cobalt	10	F1 F2	28.5	55.1	F1 F2	mg/Kg	☼	157	75 - 125	39	20
Copper	14	B	14.2	24.7		mg/Kg	☼	78	75 - 125	3	20
Iron	16000		57.0	19200	4	mg/Kg	☼	4709	75 - 125	11	20
Lead	26	B	5.70	36.4	4	mg/Kg	☼	177	75 - 125	7	20
Magnesium	4000		570	4520	4	mg/Kg	☼	93	75 - 125	13	20
Calcium	5000	B F2	570	5200	4 F2	mg/Kg	☼	29	75 - 125	21	20
Manganese	660	F2	28.5	1670	E 4 F2	mg/Kg	☼	3533	75 - 125	83	20
Nickel	18	F1 F2	28.5	56.3	F1 F2	mg/Kg	☼	135	75 - 125	22	20
Selenium	0.56	F1	5.70	3.98	F1	mg/Kg	☼	60	75 - 125	5	20
Silver	0.30	F1	2.85	2.60		mg/Kg	☼	81	75 - 125	13	20
Thallium	<0.27	F1	5.70	4.34		mg/Kg	☼	76	75 - 125	10	20
Vanadium	29		28.5	57.4		mg/Kg	☼	100	75 - 125	8	20
Zinc	70		28.5	102		mg/Kg	☼	113	75 - 125	2	20
Potassium	1800	F1	570	2770	F1	mg/Kg	☼	177	75 - 125	1	20
Sodium	510		570	940		mg/Kg	☼	76	75 - 125	2	20

Lab Sample ID: 500-153334-12 DU

Matrix: Solid

Analysis Batch: 456707

Client Sample ID: 2947V-17-B15 (0-5)

Prep Type: Total/NA

Prep Batch: 456503

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Antimony	0.38	J B F1	0.446	J	mg/Kg	☼	17	20
Arsenic	6.3		6.38		mg/Kg	☼	2	20
Barium	130	F1 F2	129		mg/Kg	☼	2	20
Beryllium	0.65	F1	0.654		mg/Kg	☼	0.8	20
Cadmium	0.17	B F1	0.171		mg/Kg	☼	2	20
Chromium	17		16.5		mg/Kg	☼	0.7	20
Cobalt	10	F1 F2	10.3		mg/Kg	☼	0.8	20
Copper	14	B	13.3		mg/Kg	☼	2	20

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

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

Lab Sample ID: 500-153334-12 DU
Matrix: Solid
Analysis Batch: 456707

Client Sample ID: 2947V-17-B15 (0-5)
Prep Type: Total/NA
Prep Batch: 456503

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Iron	16000		16100		mg/Kg	☼	2	20
Lead	26	B	27.1		mg/Kg	☼	3	20
Magnesium	4000		4610		mg/Kg	☼	14	20
Calcium	5000	B F2	6120		mg/Kg	☼	19	20
Manganese	660	F2	670		mg/Kg	☼	1	20
Nickel	18	F1 F2	17.8		mg/Kg	☼	0.9	20
Selenium	0.56	F1	0.942	F5	mg/Kg	☼	50	20
Silver	0.30	F1	0.287		mg/Kg	☼	6	20
Thallium	<0.27	F1	<0.28		mg/Kg	☼	NC	20
Vanadium	29		28.9		mg/Kg	☼	0.2	20
Zinc	70		69.0		mg/Kg	☼	0.8	20
Potassium	1800	F1	1770		mg/Kg	☼	0.8	20
Sodium	510		501		mg/Kg	☼	1	20

Lab Sample ID: MB 500-456512/1-A
Matrix: Solid
Analysis Batch: 456708

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 456512

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	0.402	J	2.0	0.39	mg/Kg		10/24/18 08:37	10/25/18 00:47	1
Arsenic	<0.34		1.0	0.34	mg/Kg		10/24/18 08:37	10/25/18 00:47	1
Barium	<0.11		1.0	0.11	mg/Kg		10/24/18 08:37	10/25/18 00:47	1
Beryllium	<0.093		0.40	0.093	mg/Kg		10/24/18 08:37	10/25/18 00:47	1
Cadmium	0.0565	J	0.20	0.036	mg/Kg		10/24/18 08:37	10/25/18 00:47	1
Chromium	0.708	J	1.0	0.50	mg/Kg		10/24/18 08:37	10/25/18 00:47	1
Cobalt	<0.13		0.50	0.13	mg/Kg		10/24/18 08:37	10/25/18 00:47	1
Copper	2.24		1.0	0.28	mg/Kg		10/24/18 08:37	10/25/18 00:47	1
Iron	<10		20	10	mg/Kg		10/24/18 08:37	10/25/18 00:47	1
Lead	<0.23		0.50	0.23	mg/Kg		10/24/18 08:37	10/25/18 00:47	1
Magnesium	<5.0		10	5.0	mg/Kg		10/24/18 08:37	10/25/18 00:47	1
Calcium	5.62	J	20	3.4	mg/Kg		10/24/18 08:37	10/25/18 00:47	1
Manganese	<0.15		1.0	0.15	mg/Kg		10/24/18 08:37	10/25/18 00:47	1
Nickel	<0.29		1.0	0.29	mg/Kg		10/24/18 08:37	10/25/18 00:47	1
Selenium	<0.59		1.0	0.59	mg/Kg		10/24/18 08:37	10/25/18 00:47	1
Silver	<0.13		0.50	0.13	mg/Kg		10/24/18 08:37	10/25/18 00:47	1
Thallium	<0.50		1.0	0.50	mg/Kg		10/24/18 08:37	10/25/18 00:47	1
Vanadium	<0.12		0.50	0.12	mg/Kg		10/24/18 08:37	10/25/18 00:47	1
Zinc	<0.88		2.0	0.88	mg/Kg		10/24/18 08:37	10/25/18 00:47	1
Potassium	<18		50	18	mg/Kg		10/24/18 08:37	10/25/18 00:47	1
Sodium	<15		100	15	mg/Kg		10/24/18 08:37	10/25/18 00:47	1

Lab Sample ID: LCS 500-456512/2-A ^2
Matrix: Solid
Analysis Batch: 456708

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 456512
%Rec.

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	Limits
		Result	Qualifier				
Antimony	50.0	47.3		mg/Kg		95	80 - 120
Arsenic	10.0	9.40		mg/Kg		94	80 - 120
Barium	200	194		mg/Kg		97	80 - 120

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

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

Lab Sample ID: LCS 500-456512/2-A ^2
 Matrix: Solid
 Analysis Batch: 456708

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 456512

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Beryllium	5.00	4.71		mg/Kg		94	80 - 120
Cadmium	5.00	4.72		mg/Kg		94	80 - 120
Chromium	20.0	19.9		mg/Kg		100	80 - 120
Cobalt	50.0	48.4		mg/Kg		97	80 - 120
Copper	25.0	25.1		mg/Kg		100	80 - 120
Iron	100	110		mg/Kg		110	80 - 120
Lead	10.0	9.55		mg/Kg		96	80 - 120
Magnesium	1000	962		mg/Kg		96	80 - 120
Calcium	1000	994		mg/Kg		99	80 - 120
Manganese	50.0	48.8		mg/Kg		98	80 - 120
Nickel	50.0	48.3		mg/Kg		97	80 - 120
Selenium	10.0	8.42		mg/Kg		84	80 - 120
Silver	5.00	4.70		mg/Kg		94	80 - 120
Thallium	10.0	8.92		mg/Kg		89	80 - 120
Vanadium	50.0	48.6		mg/Kg		97	80 - 120
Zinc	50.0	48.7		mg/Kg		97	80 - 120
Potassium	1000	978		mg/Kg		98	80 - 120
Sodium	1000	1000		mg/Kg		100	80 - 120

Lab Sample ID: LCS 500-456775/2-A
 Matrix: Solid
 Analysis Batch: 456909

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 456775

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.100	0.102		mg/L		102	80 - 120
Barium	0.500	0.529		mg/L		106	80 - 120
Beryllium	0.0500	0.0501		mg/L		100	80 - 120
Cadmium	0.0500	0.0495		mg/L		99	80 - 120
Chromium	0.200	0.203		mg/L		102	80 - 120
Cobalt	0.500	0.518		mg/L		104	80 - 120
Copper	0.250	0.269		mg/L		108	80 - 120
Iron	1.00	1.09		mg/L		109	80 - 120
Lead	0.100	0.0934		mg/L		93	80 - 120
Magnesium	10.0	9.98		mg/L		100	80 - 120
Calcium	10.0	9.79		mg/L		98	80 - 120
Manganese	0.500	0.521		mg/L		104	80 - 120
Nickel	0.500	0.513		mg/L		103	80 - 120
Selenium	0.100	0.0913		mg/L		91	80 - 120
Vanadium	0.500	0.530		mg/L		106	80 - 120
Zinc	0.500	0.502		mg/L		100	80 - 120
Potassium	10.0	10.6		mg/L		106	80 - 120

Lab Sample ID: LCS 500-456775/2-A
 Matrix: Solid
 Analysis Batch: 457052

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 456775

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Silver	0.0500	0.0409		mg/L		82	80 - 120

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

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

Lab Sample ID: LCS 500-456851/2-A
Matrix: Solid
Analysis Batch: 457250

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 456851

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cadmium	0.0500	0.0479		mg/L		96	80 - 120
Lead	0.100	0.0913		mg/L		91	80 - 120
Manganese	0.500	0.504		mg/L		101	80 - 120

Lab Sample ID: LCS 500-456853/2-A
Matrix: Solid
Analysis Batch: 457052

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 456853

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.100	0.0981		mg/L		98	80 - 120
Barium	0.500	0.503		mg/L		101	80 - 120
Beryllium	0.0500	0.0496		mg/L		99	80 - 120
Cadmium	0.0500	0.0497		mg/L		99	80 - 120
Chromium	0.200	0.207		mg/L		104	80 - 120
Cobalt	0.500	0.495		mg/L		99	80 - 120
Copper	0.250	0.259		mg/L		103	80 - 120
Iron	1.00	1.05		mg/L		105	80 - 120
Lead	0.100	0.0961		mg/L		96	80 - 120
Magnesium	10.0	9.61		mg/L		96	80 - 120
Calcium	10.0	10.1		mg/L		101	80 - 120
Manganese	0.500	0.516		mg/L		103	80 - 120
Nickel	0.500	0.494		mg/L		99	80 - 120
Selenium	0.100	0.0853		mg/L		85	80 - 120
Silver	0.0500	0.0470		mg/L		94	80 - 120
Vanadium	0.500	0.505		mg/L		101	80 - 120
Zinc	0.500	0.475	J	mg/L		95	80 - 120
Potassium	10.0	9.70		mg/L		97	80 - 120

Lab Sample ID: LCS 500-457290/2-A
Matrix: Solid
Analysis Batch: 457445

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 457290

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Manganese	0.500	0.499		mg/L		100	80 - 120

Lab Sample ID: LB 500-456607/1-B
Matrix: Solid
Analysis Batch: 456909

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 456775

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		10/25/18 09:50	10/25/18 22:56	1
Barium	<0.050		0.50	0.050	mg/L		10/25/18 09:50	10/25/18 22:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/25/18 09:50	10/25/18 22:56	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		10/25/18 09:50	10/25/18 22:56	1
Chromium	0.0625	J	0.070	0.010	mg/L		10/25/18 09:50	10/25/18 22:56	1
Cobalt	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/25/18 22:56	1
Copper	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/25/18 22:56	1
Iron	<0.20		0.40	0.20	mg/L		10/25/18 09:50	10/25/18 22:56	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/25/18 09:50	10/25/18 22:56	1

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

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

Lab Sample ID: LB 500-456607/1-B
Matrix: Solid
Analysis Batch: 456909

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 456775

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Magnesium	<0.50		2.5	0.50	mg/L		10/25/18 09:50	10/25/18 22:56	1
Calcium	<0.50		5.0	0.50	mg/L		10/25/18 09:50	10/25/18 22:56	1
Manganese	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/25/18 22:56	1
Nickel	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/25/18 22:56	1
Selenium	<0.020		0.050	0.020	mg/L		10/25/18 09:50	10/25/18 22:56	1
Silver	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/25/18 22:56	1
Vanadium	<0.010		0.025	0.010	mg/L		10/25/18 09:50	10/25/18 22:56	1
Zinc	<0.020		0.50	0.020	mg/L		10/25/18 09:50	10/25/18 22:56	1
Potassium	<0.50		2.5	0.50	mg/L		10/25/18 09:50	10/25/18 22:56	1

Lab Sample ID: 500-153334-20 MS
Matrix: Solid
Analysis Batch: 456909

Client Sample ID: 2947V-17-B02 (0-5)
Prep Type: TCLP
Prep Batch: 456775

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
Arsenic	<0.010		0.100	0.113		mg/L		113	75 - 125
Barium	0.78		0.500	1.21		mg/L		86	75 - 125
Beryllium	<0.0040		0.0500	0.0501		mg/L		100	75 - 125
Cadmium	0.0038	J	0.0500	0.0595		mg/L		111	75 - 125
Cobalt	<0.010		0.500	0.523		mg/L		105	75 - 125
Copper	0.027		0.250	0.303		mg/L		111	75 - 125
Iron	<0.20		1.00	1.00		mg/L		100	75 - 125
Lead	<0.0075		0.100	0.0889		mg/L		89	75 - 125
Magnesium	110		10.0	122	4	mg/L		75	75 - 125
Calcium	350		10.0	347	4	mg/L		19	75 - 125
Manganese	1.6		0.500	2.05		mg/L		88	75 - 125
Nickel	<0.010		0.500	0.513		mg/L		103	75 - 125
Selenium	<0.020		0.100	0.111		mg/L		111	75 - 125
Silver	<0.010		0.0500	0.0480		mg/L		96	75 - 125
Vanadium	<0.010		0.500	0.489		mg/L		98	75 - 125
Zinc	0.19	J	0.500	0.725		mg/L		108	75 - 125
Potassium	3.3		10.0	13.2		mg/L		99	75 - 125

Lab Sample ID: 500-153334-20 MS
Matrix: Solid
Analysis Batch: 457254

Client Sample ID: 2947V-17-B02 (0-5)
Prep Type: TCLP
Prep Batch: 456775

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
Chromium	<0.010		0.200	0.195		mg/L		97	75 - 125

Lab Sample ID: 500-153334-20 DU
Matrix: Solid
Analysis Batch: 456909

Client Sample ID: 2947V-17-B02 (0-5)
Prep Type: TCLP
Prep Batch: 456775

Analyte	Sample Result	Sample Qualifier	DU DU		Unit	D	RPD	Limit
			Result	Qualifier				
Arsenic	<0.010		<0.010		mg/L		NC	20
Barium	0.78		0.844		mg/L		8	20
Beryllium	<0.0040		<0.0040		mg/L		NC	20
Cadmium	0.0038	J	0.00381	J	mg/L		0.7	20

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

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

Lab Sample ID: 500-153334-20 DU
Matrix: Solid
Analysis Batch: 456909

Client Sample ID: 2947V-17-B02 (0-5)
Prep Type: TCLP
Prep Batch: 456775

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Cobalt	<0.010		<0.010		mg/L		NC	20
Copper	0.027		0.0284		mg/L		5	20
Iron	<0.20		<0.20		mg/L		NC	20
Lead	<0.0075		<0.0075		mg/L		NC	20
Magnesium	110		123		mg/L		7	20
Calcium	350		367		mg/L		6	20
Manganese	1.6		1.71		mg/L		7	20
Nickel	<0.010		<0.010		mg/L		NC	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	0.19	J	0.211	J	mg/L		12	20
Potassium	3.3		3.63		mg/L		8	20

Lab Sample ID: 500-153334-20 DU
Matrix: Solid
Analysis Batch: 457254

Client Sample ID: 2947V-17-B02 (0-5)
Prep Type: TCLP
Prep Batch: 456775

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Chromium	<0.010		<0.010		mg/L		NC	20

Lab Sample ID: LB 500-456609/1-C
Matrix: Solid
Analysis Batch: 457052

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 456853

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.010		0.050	0.010	mg/L		10/25/18 15:16	10/26/18 11:49	1
Barium	<0.050		0.50	0.050	mg/L		10/25/18 15:16	10/26/18 11:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/25/18 15:16	10/26/18 11:49	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		10/25/18 15:16	10/26/18 11:49	1
Chromium	0.0132	J	0.025	0.010	mg/L		10/25/18 15:16	10/26/18 11:49	1
Cobalt	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 11:49	1
Copper	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 11:49	1
Iron	<0.20		0.40	0.20	mg/L		10/25/18 15:16	10/26/18 11:49	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/25/18 15:16	10/26/18 11:49	1
Magnesium	<0.50		2.5	0.50	mg/L		10/25/18 15:16	10/26/18 11:49	1
Calcium	<0.50		5.0	0.50	mg/L		10/25/18 15:16	10/26/18 11:49	1
Manganese	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 11:49	1
Nickel	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 11:49	1
Selenium	<0.020		0.050	0.020	mg/L		10/25/18 15:16	10/26/18 11:49	1
Silver	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 11:49	1
Vanadium	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 11:49	1
Zinc	<0.020		0.50	0.020	mg/L		10/25/18 15:16	10/26/18 11:49	1
Potassium	<0.50		2.5	0.50	mg/L		10/25/18 15:16	10/26/18 11:49	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

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

Lab Sample ID: LB 500-456605/1-B
Matrix: Solid
Analysis Batch: 457250

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 456851

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0020		0.0050	0.0020	mg/L		10/25/18 15:13	10/26/18 16:24	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/25/18 15:13	10/26/18 16:24	1
Manganese	<0.010		0.025	0.010	mg/L		10/25/18 15:13	10/26/18 16:24	1

Lab Sample ID: 500-153334-20 MS
Matrix: Solid
Analysis Batch: 457250

Client Sample ID: 2947V-17-B02 (0-5)
Prep Type: SPLP East
Prep Batch: 456851

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Cadmium	<0.0020	F1	0.0500	0.0364	F1	mg/L		73	75 - 125
Lead	0.11		0.100	0.190		mg/L		77	75 - 125
Manganese	1.9		0.500	2.24		mg/L		75	75 - 125

Lab Sample ID: 500-153334-20 DU
Matrix: Solid
Analysis Batch: 457250

Client Sample ID: 2947V-17-B02 (0-5)
Prep Type: SPLP East
Prep Batch: 456851

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Cadmium	<0.0020	F1	<0.0020		mg/L		NC	20
Lead	0.11		0.117		mg/L		3	20
Manganese	1.9		1.94		mg/L		4	20

Lab Sample ID: LB 500-456606/1-B
Matrix: Solid
Analysis Batch: 457445

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 457290

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.010		0.025	0.010	mg/L		10/29/18 08:53	10/29/18 18:32	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-456775/2-A
Matrix: Solid
Analysis Batch: 456930

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 456775

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.512		mg/L		102	80 - 120
Thallium	0.100	0.113		mg/L		113	80 - 120

Lab Sample ID: LCS 500-456853/2-A
Matrix: Solid
Analysis Batch: 457068

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 456853

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.453		mg/L		91	80 - 120
Thallium	0.100	0.107		mg/L		107	80 - 120

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

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

Lab Sample ID: LB 500-456607/1-B
Matrix: Solid
Analysis Batch: 456930

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 456775

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		10/25/18 09:50	10/25/18 19:17	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/25/18 09:50	10/25/18 19:17	1

Lab Sample ID: 500-153334-20 MS
Matrix: Solid
Analysis Batch: 456930

Client Sample ID: 2947V-17-B02 (0-5)
Prep Type: TCLP
Prep Batch: 456775

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	<0.0060		0.500	0.484		mg/L		97	75 - 125
Thallium	<0.0020		0.100	0.117		mg/L		117	75 - 125

Lab Sample ID: 500-153334-20 DU
Matrix: Solid
Analysis Batch: 456930

Client Sample ID: 2947V-17-B02 (0-5)
Prep Type: TCLP
Prep Batch: 456775

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

Lab Sample ID: LB 500-456609/1-C
Matrix: Solid
Analysis Batch: 457068

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 456853

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		10/25/18 15:16	10/26/18 12:39	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/25/18 15:16	10/26/18 12:39	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-456787/12-A
Matrix: Solid
Analysis Batch: 457004

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 456787

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		10/25/18 12:40	10/26/18 08:12	1

Lab Sample ID: LCS 500-456787/13-A
Matrix: Solid
Analysis Batch: 457004

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 456787

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00175		mg/L		87	80 - 120

Lab Sample ID: MB 500-456788/12-A
Matrix: Solid
Analysis Batch: 457004

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 456788

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		10/25/18 12:40	10/26/18 09:13	1

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Method: 7470A - TCLP Mercury (Continued)

Lab Sample ID: LCS 500-456788/13-A
Matrix: Solid
Analysis Batch: 457004

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 456788

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00173		mg/L		86	80 - 120

Lab Sample ID: LB 500-456607/1-C
Matrix: Solid
Analysis Batch: 457004

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 456787

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		10/25/18 12:40	10/26/18 08:16	1

Lab Sample ID: 500-153334-11 MS
Matrix: Solid
Analysis Batch: 457004

Client Sample ID: 2947V-17-B40 (0-4)
Prep Type: TCLP
Prep Batch: 456787

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00020		0.00100	0.000936		mg/L		94	75 - 125

Lab Sample ID: 500-153334-11 DU
Matrix: Solid
Analysis Batch: 457004

Client Sample ID: 2947V-17-B40 (0-4)
Prep Type: TCLP
Prep Batch: 456787

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	<0.00020		<0.00020		mg/L		NC	20

Lab Sample ID: LB 500-456609/1-B
Matrix: Solid
Analysis Batch: 457004

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 456788

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		10/25/18 12:40	10/26/18 09:18	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-456364/12-A
Matrix: Solid
Analysis Batch: 456577

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 456364

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		10/23/18 15:50	10/24/18 09:42	1

Lab Sample ID: LCS 500-456364/13-A
Matrix: Solid
Analysis Batch: 456577

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 456364

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.152		mg/Kg		91	80 - 120

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: 500-153334-11 MS

Matrix: Solid
Analysis Batch: 456577

Client Sample ID: 2947V-17-B40 (0-4)

Prep Type: Total/NA
Prep Batch: 456364

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	0.031		0.0958	0.126		mg/Kg	☼	99	75 - 125

Lab Sample ID: 500-153334-11 MSD

Matrix: Solid
Analysis Batch: 456577

Client Sample ID: 2947V-17-B40 (0-4)

Prep Type: Total/NA
Prep Batch: 456364

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.031		0.0957	0.133		mg/Kg	☼	106	75 - 125	5	20

Lab Sample ID: 500-153334-11 DU

Matrix: Solid
Analysis Batch: 456577

Client Sample ID: 2947V-17-B40 (0-4)

Prep Type: Total/NA
Prep Batch: 456364

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	0.031		0.0580	F3	mg/Kg	☼	59	20

Lab Sample ID: MB 500-456590/12-A

Matrix: Solid
Analysis Batch: 456825

Client Sample ID: Method Blank

Prep Type: Total/NA
Prep Batch: 456590

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00607	J	0.017	0.0056	mg/Kg		10/24/18 16:40	10/25/18 10:34	1

Lab Sample ID: LCS 500-456590/13-A

Matrix: Solid
Analysis Batch: 456825

Client Sample ID: Lab Control Sample

Prep Type: Total/NA
Prep Batch: 456590

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.164		mg/Kg		98	80 - 120

Lab Sample ID: MB 500-456591/12-A

Matrix: Solid
Analysis Batch: 456825

Client Sample ID: Method Blank

Prep Type: Total/NA
Prep Batch: 456591

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		10/24/18 16:40	10/25/18 08:41	1

Lab Sample ID: LCS 500-456591/13-A

Matrix: Solid
Analysis Batch: 456825

Client Sample ID: Lab Control Sample

Prep Type: Total/NA
Prep Batch: 456591

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.150		mg/Kg		90	80 - 120

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Method: 9014 - Cyanide

Lab Sample ID: MB 500-456857/1-A
Matrix: Solid
Analysis Batch: 457026

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 456857

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.17		0.50	0.17	mg/Kg		10/25/18 17:45	10/26/18 11:31	1

Lab Sample ID: LCS 500-456857/2-A
Matrix: Solid
Analysis Batch: 457026

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 456857

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	5.00	5.51		mg/Kg		110	85 - 115

Lab Sample ID: MB 500-456983/1-A
Matrix: Solid
Analysis Batch: 457378

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 456983

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.17		0.50	0.17	mg/Kg		10/26/18 11:10	10/26/18 15:11	1

Lab Sample ID: LCS 500-456983/2-A
Matrix: Solid
Analysis Batch: 457378

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 456983

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	5.00	5.12		mg/Kg		102	85 - 115

Lab Sample ID: 500-153334-1 MS
Matrix: Solid
Analysis Batch: 457378

Client Sample ID: 2947V-17-B04 (0-5)
Prep Type: Total/NA
Prep Batch: 456983

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	<0.21		2.33	2.45		mg/Kg	☼	105	75 - 125

Lab Sample ID: 500-153334-1 MSD
Matrix: Solid
Analysis Batch: 457378

Client Sample ID: 2947V-17-B04 (0-5)
Prep Type: Total/NA
Prep Batch: 456983

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Cyanide, Total	<0.21		2.32	2.44		mg/Kg	☼	105	75 - 125	0	20

Method: 9045D - pH

Lab Sample ID: 500-153334-8 DU
Matrix: Solid
Analysis Batch: 456636

Client Sample ID: 2947V-17-B37 (0-5)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
pH	7.9		7.8		SU			0.3

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Method: 9045D - pH (Continued)

Lab Sample ID: 500-153334-21 DU

Matrix: Solid

Analysis Batch: 456636

Client Sample ID: 2947V-17-B02 (0-5) Dup

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	8.4		8.4		SU		0	

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B04 (0-5)

Lab Sample ID: 500-153334-1

Date Collected: 10/17/18 10:25

Matrix: Solid

Date Received: 10/17/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			456605	10/24/18 11:40	JJB	TAL CHI
SPLP East	Prep	3010A			456851	10/25/18 15:13	BDE	TAL CHI
SPLP East	Analysis	6010B		1	457250	10/26/18 16:32	JEF	TAL CHI
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456775	10/25/18 09:50	SAH	TAL CHI
TCLP	Analysis	6010B		1	456909	10/25/18 23:04	EEN	TAL CHI
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456775	10/25/18 09:50	SAH	TAL CHI
TCLP	Analysis	6020A		1	456930	10/25/18 19:19	FXG	TAL CHI
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	7470A			456787	10/25/18 12:40	MJG	TAL CHI
TCLP	Analysis	7470A		1	457004	10/26/18 08:18	MJG	TAL CHI
Total/NA	Analysis	9045D		1	456636		SMO	TAL CHI
					(Start)	10/24/18 14:38		
					(End)	10/24/18 14:40		
Total/NA	Analysis	Moisture		1	456134	10/22/18 12:56	LWN	TAL CHI

Client Sample ID: 2947V-17-B04 (0-5)

Lab Sample ID: 500-153334-1

Date Collected: 10/17/18 10:25

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 79.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			455801	10/18/18 07:15	WRE	TAL CHI
Total/NA	Analysis	8260B		1	456979	10/27/18 09:43	EMA	TAL CHI
Total/NA	Prep	3541			456471	10/24/18 07:29	DX	TAL CHI
Total/NA	Analysis	8270D		1	457115	10/27/18 13:50	AJD	TAL CHI
Total/NA	Prep	3050B			456503	10/24/18 08:16	SAH	TAL CHI
Total/NA	Analysis	6010B		1	456707	10/24/18 19:19	JEF	TAL CHI
Total/NA	Prep	7471B			456364	10/23/18 15:50	MJG	TAL CHI
Total/NA	Analysis	7471B		1	456577	10/24/18 09:48	MJG	TAL CHI
Total/NA	Prep	9010B			456983	10/26/18 11:10	MAN	TAL CHI
Total/NA	Analysis	9014		1	457378		MS	TAL CHI
					(Start)	10/26/18 15:12		
					(End)	10/26/18 15:13		

Client Sample ID: 2947V-17-B05 (0-5)

Lab Sample ID: 500-153334-2

Date Collected: 10/17/18 10:00

Matrix: Solid

Date Received: 10/17/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			456605	10/24/18 11:40	JJB	TAL CHI
SPLP East	Prep	3010A			456851	10/25/18 15:13	BDE	TAL CHI
SPLP East	Analysis	6010B		1	457250	10/26/18 16:36	JEF	TAL CHI
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B05 (0-5)

Lab Sample ID: 500-153334-2

Date Collected: 10/17/18 10:00

Matrix: Solid

Date Received: 10/17/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Prep	3010A			456775	10/25/18 09:50	SAH	TAL CHI
TCLP	Analysis	6010B		1	456909	10/25/18 23:08	EEN	TAL CHI
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456775	10/25/18 09:50	SAH	TAL CHI
TCLP	Analysis	6020A		1	456930	10/25/18 19:20	FXG	TAL CHI
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	7470A			456787	10/25/18 12:40	MJG	TAL CHI
TCLP	Analysis	7470A		1	457004	10/26/18 08:20	MJG	TAL CHI
Total/NA	Analysis	9045D		1	456636		SMO	TAL CHI
					(Start)	10/24/18 14:40		
					(End)	10/24/18 14:43		
Total/NA	Analysis	Moisture		1	456134	10/22/18 12:56	LWN	TAL CHI

Client Sample ID: 2947V-17-B05 (0-5)

Lab Sample ID: 500-153334-2

Date Collected: 10/17/18 10:00

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 86.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			455801	10/18/18 07:15	WRE	TAL CHI
Total/NA	Analysis	8260B		1	456979	10/27/18 10:09	EMA	TAL CHI
Total/NA	Prep	3541			456471	10/24/18 07:29	DX	TAL CHI
Total/NA	Analysis	8270D		1	457115	10/27/18 16:42	AJD	TAL CHI
Total/NA	Prep	3050B			456503	10/24/18 08:16	SAH	TAL CHI
Total/NA	Analysis	6010B		1	456707	10/24/18 19:23	JEF	TAL CHI
Total/NA	Prep	7471B			456364	10/23/18 15:50	MJG	TAL CHI
Total/NA	Analysis	7471B		1	456577	10/24/18 09:55	MJG	TAL CHI
Total/NA	Prep	9010B			456983	10/26/18 11:10	MAN	TAL CHI
Total/NA	Analysis	9014		1	457378		MS	TAL CHI
					(Start)	10/26/18 15:15		
					(End)	10/26/18 15:15		

Client Sample ID: 2947V-17-B06 (0-5)

Lab Sample ID: 500-153334-3

Date Collected: 10/17/18 09:50

Matrix: Solid

Date Received: 10/17/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			456605	10/24/18 11:40	JJB	TAL CHI
SPLP East	Prep	3010A			456851	10/25/18 15:13	BDE	TAL CHI
SPLP East	Analysis	6010B		1	457250	10/26/18 16:40	JEF	TAL CHI
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456775	10/25/18 09:50	SAH	TAL CHI
TCLP	Analysis	6010B		1	456909	10/25/18 23:12	EEN	TAL CHI
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456775	10/25/18 09:50	SAH	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B06 (0-5)

Lab Sample ID: 500-153334-3

Date Collected: 10/17/18 09:50

Matrix: Solid

Date Received: 10/17/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Analysis	6010B		5	457594	10/30/18 11:59	JEF	TAL CHI
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456775	10/25/18 09:50	SAH	TAL CHI
TCLP	Analysis	6020A		1	456930	10/25/18 19:21	FXG	TAL CHI
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	7470A			456787	10/25/18 12:40	MJG	TAL CHI
TCLP	Analysis	7470A		1	457004	10/26/18 08:22	MJG	TAL CHI
Total/NA	Analysis	9045D		1	456636		SMO	TAL CHI
					(Start)	10/24/18 14:43		
					(End)	10/24/18 14:46		
Total/NA	Analysis	Moisture		1	456134	10/22/18 12:56	LWN	TAL CHI

Client Sample ID: 2947V-17-B06 (0-5)

Lab Sample ID: 500-153334-3

Date Collected: 10/17/18 09:50

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 85.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			455801	10/18/18 07:15	WRE	TAL CHI
Total/NA	Analysis	8260B		1	456979	10/27/18 10:35	EMA	TAL CHI
Total/NA	Prep	3541			456471	10/24/18 07:29	DX	TAL CHI
Total/NA	Analysis	8270D		1	457115	10/27/18 12:53	AJD	TAL CHI
Total/NA	Prep	3050B			456503	10/24/18 08:16	SAH	TAL CHI
Total/NA	Analysis	6010B		1	456707	10/24/18 19:27	JEF	TAL CHI
Total/NA	Prep	3050B			456503	10/24/18 08:16	SAH	TAL CHI
Total/NA	Analysis	6010B		5	456827	10/25/18 12:16	EEN	TAL CHI
Total/NA	Prep	7471B			456364	10/23/18 15:50	MJG	TAL CHI
Total/NA	Analysis	7471B		1	456577	10/24/18 09:56	MJG	TAL CHI
Total/NA	Prep	9010B			456983	10/26/18 11:10	MAN	TAL CHI
Total/NA	Analysis	9014		1	457378		MS	TAL CHI
					(Start)	10/26/18 15:15		
					(End)	10/26/18 15:16		

Client Sample ID: 2947V-17-B10 (0-5)

Lab Sample ID: 500-153334-4

Date Collected: 10/17/18 09:35

Matrix: Solid

Date Received: 10/17/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			456605	10/24/18 11:40	JJB	TAL CHI
SPLP East	Prep	3010A			456851	10/25/18 15:13	BDE	TAL CHI
SPLP East	Analysis	6010B		1	457250	10/26/18 16:44	JEF	TAL CHI
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456775	10/25/18 09:50	SAH	TAL CHI
TCLP	Analysis	6010B		1	456909	10/25/18 23:16	EEN	TAL CHI
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B10 (0-5)

Lab Sample ID: 500-153334-4

Date Collected: 10/17/18 09:35

Matrix: Solid

Date Received: 10/17/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Prep	3010A			456775	10/25/18 09:50	SAH	TAL CHI
TCLP	Analysis	6020A		1	456930	10/25/18 19:22	FXG	TAL CHI
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	7470A			456787	10/25/18 12:40	MJG	TAL CHI
TCLP	Analysis	7470A		1	457004	10/26/18 08:24	MJG	TAL CHI
Total/NA	Analysis	9045D		1	456636	(Start) 10/24/18 14:46 (End) 10/24/18 14:48	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	456134	10/22/18 12:56	LWN	TAL CHI

Client Sample ID: 2947V-17-B10 (0-5)

Lab Sample ID: 500-153334-4

Date Collected: 10/17/18 09:35

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 84.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			455801	10/18/18 07:15	WRE	TAL CHI
Total/NA	Analysis	8260B		1	456979	10/27/18 11:00	EMA	TAL CHI
Total/NA	Prep	3541			456471	10/24/18 07:29	DX	TAL CHI
Total/NA	Analysis	8270D		1	457115	10/27/18 17:11	AJD	TAL CHI
Total/NA	Prep	3050B			456503	10/24/18 08:16	SAH	TAL CHI
Total/NA	Analysis	6010B		1	456707	10/24/18 19:31	JEF	TAL CHI
Total/NA	Prep	3050B			456503	10/24/18 08:16	SAH	TAL CHI
Total/NA	Analysis	6010B		5	456827	10/25/18 12:20	EEN	TAL CHI
Total/NA	Prep	7471B			456364	10/23/18 15:50	MJG	TAL CHI
Total/NA	Analysis	7471B		1	456577	10/24/18 09:58	MJG	TAL CHI
Total/NA	Prep	9010B			456983	10/26/18 11:10	MAN	TAL CHI
Total/NA	Analysis	9014		1	457378	(Start) 10/26/18 15:16 (End) 10/26/18 15:17	MS	TAL CHI

Client Sample ID: 2947V-17-B11 (0-5)

Lab Sample ID: 500-153334-5

Date Collected: 10/17/18 09:25

Matrix: Solid

Date Received: 10/17/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			456605	10/24/18 11:40	JJB	TAL CHI
SPLP East	Prep	3010A			456851	10/25/18 15:13	BDE	TAL CHI
SPLP East	Analysis	6010B		1	457250	10/26/18 16:48	JEF	TAL CHI
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456775	10/25/18 09:50	SAH	TAL CHI
TCLP	Analysis	6010B		1	456909	10/25/18 23:20	EEN	TAL CHI
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456775	10/25/18 09:50	SAH	TAL CHI
TCLP	Analysis	6020A		1	456930	10/25/18 19:23	FXG	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B11 (0-5)

Lab Sample ID: 500-153334-5

Date Collected: 10/17/18 09:25

Matrix: Solid

Date Received: 10/17/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	7470A			456787	10/25/18 12:40	MJG	TAL CHI
TCLP	Analysis	7470A		1	457004	10/26/18 08:27	MJG	TAL CHI
Total/NA	Analysis	9045D		1	456636		SMO	TAL CHI
					(Start)	10/24/18 14:48		
					(End)	10/24/18 14:51		
Total/NA	Analysis	Moisture		1	456134	10/22/18 12:56	LWN	TAL CHI

Client Sample ID: 2947V-17-B11 (0-5)

Lab Sample ID: 500-153334-5

Date Collected: 10/17/18 09:25

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 79.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			455801	10/18/18 07:15	WRE	TAL CHI
Total/NA	Analysis	8260B		1	456979	10/27/18 11:27	EMA	TAL CHI
Total/NA	Prep	3541			456471	10/24/18 07:29	DX	TAL CHI
Total/NA	Analysis	8270D		1	457115	10/27/18 17:40	AJD	TAL CHI
Total/NA	Prep	3050B			456503	10/24/18 08:16	SAH	TAL CHI
Total/NA	Analysis	6010B		1	456707	10/24/18 19:43	JEF	TAL CHI
Total/NA	Prep	3050B			456503	10/24/18 08:16	SAH	TAL CHI
Total/NA	Analysis	6010B		5	456827	10/25/18 12:24	EEN	TAL CHI
Total/NA	Prep	7471B			456364	10/23/18 15:50	MJG	TAL CHI
Total/NA	Analysis	7471B		1	456577	10/24/18 10:00	MJG	TAL CHI
Total/NA	Prep	9010B			456983	10/26/18 11:10	MAN	TAL CHI
Total/NA	Analysis	9014		1	457378		MS	TAL CHI
					(Start)	10/26/18 15:17		
					(End)	10/26/18 15:17		

Client Sample ID: 2947V-17-B12 (0-5)

Lab Sample ID: 500-153334-6

Date Collected: 10/17/18 09:10

Matrix: Solid

Date Received: 10/17/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			456605	10/24/18 11:40	JJB	TAL CHI
SPLP East	Prep	3010A			456851	10/25/18 15:13	BDE	TAL CHI
SPLP East	Analysis	6010B		1	457250	10/26/18 16:52	JEF	TAL CHI
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456775	10/25/18 09:50	SAH	TAL CHI
TCLP	Analysis	6010B		1	456909	10/25/18 23:24	EEN	TAL CHI
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456775	10/25/18 09:50	SAH	TAL CHI
TCLP	Analysis	6020A		1	456930	10/25/18 19:24	FXG	TAL CHI
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	7470A			456787	10/25/18 12:40	MJG	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B12 (0-5)

Lab Sample ID: 500-153334-6

Date Collected: 10/17/18 09:10

Matrix: Solid

Date Received: 10/17/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Analysis	7470A		1	457004	10/26/18 08:33	MJG	TAL CHI
Total/NA	Analysis	9045D		1	456636	10/24/18 14:51 (Start) 10/24/18 14:54 (End)	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	456134	10/22/18 12:56	LWN	TAL CHI

Client Sample ID: 2947V-17-B12 (0-5)

Lab Sample ID: 500-153334-6

Date Collected: 10/17/18 09:10

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 79.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			455801	10/18/18 07:15	WRE	TAL CHI
Total/NA	Analysis	8260B		1	456979	10/27/18 11:53	EMA	TAL CHI
Total/NA	Prep	3541			456471	10/24/18 07:29	DX	TAL CHI
Total/NA	Analysis	8270D		1	457115	10/27/18 18:08	AJD	TAL CHI
Total/NA	Prep	3050B			456503	10/24/18 08:16	SAH	TAL CHI
Total/NA	Analysis	6010B		1	456707	10/24/18 19:47	JEF	TAL CHI
Total/NA	Prep	3050B			456503	10/24/18 08:16	SAH	TAL CHI
Total/NA	Analysis	6010B		5	456827	10/25/18 12:28	EEN	TAL CHI
Total/NA	Prep	7471B			456364	10/23/18 15:50	MJG	TAL CHI
Total/NA	Analysis	7471B		1	456577	10/24/18 10:02	MJG	TAL CHI
Total/NA	Prep	9010B			456983	10/26/18 11:10	MAN	TAL CHI
Total/NA	Analysis	9014		1	457378	10/26/18 15:17 (Start) 10/26/18 15:18 (End)	MS	TAL CHI

Client Sample ID: 2947V-17-B36 (0-5)

Lab Sample ID: 500-153334-7

Date Collected: 10/17/18 14:45

Matrix: Solid

Date Received: 10/17/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			456605	10/24/18 11:40	JJB	TAL CHI
SPLP East	Prep	3010A			456851	10/25/18 15:13	BDE	TAL CHI
SPLP East	Analysis	6010B		1	457250	10/26/18 16:56	JEF	TAL CHI
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456775	10/25/18 09:50	SAH	TAL CHI
TCLP	Analysis	6010B		1	456909	10/25/18 23:29	EEN	TAL CHI
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456775	10/25/18 09:50	SAH	TAL CHI
TCLP	Analysis	6020A		1	456930	10/25/18 19:25	FXG	TAL CHI
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	7470A			456787	10/25/18 12:40	MJG	TAL CHI
TCLP	Analysis	7470A		1	457004	10/26/18 08:35	MJG	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B36 (0-5)

Lab Sample ID: 500-153334-7

Date Collected: 10/17/18 14:45

Matrix: Solid

Date Received: 10/17/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	456636	10/24/18 14:54 (Start) 10/24/18 14:56 (End)	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	456134	10/22/18 12:56	LWN	TAL CHI

Client Sample ID: 2947V-17-B36 (0-5)

Lab Sample ID: 500-153334-7

Date Collected: 10/17/18 14:45

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 84.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			455801	10/18/18 07:15	WRE	TAL CHI
Total/NA	Analysis	8260B		1	456979	10/27/18 12:19	EMA	TAL CHI
Total/NA	Prep	3541			456471	10/24/18 07:29	DX	TAL CHI
Total/NA	Analysis	8270D		1	457115	10/27/18 13:22	AJD	TAL CHI
Total/NA	Prep	3050B			456503	10/24/18 08:16	SAH	TAL CHI
Total/NA	Analysis	6010B		1	456707	10/24/18 19:51	JEF	TAL CHI
Total/NA	Prep	7471B			456364	10/23/18 15:50	MJG	TAL CHI
Total/NA	Analysis	7471B		1	456577	10/24/18 10:04	MJG	TAL CHI
Total/NA	Prep	9010B			456983	10/26/18 11:10	MAN	TAL CHI
Total/NA	Analysis	9014		1	457378		MS	TAL CHI
						(Start) 10/26/18 15:20 (End) 10/26/18 15:20		

Client Sample ID: 2947V-17-B37 (0-5)

Lab Sample ID: 500-153334-8

Date Collected: 10/17/18 14:30

Matrix: Solid

Date Received: 10/17/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			456605	10/24/18 11:40	JJB	TAL CHI
SPLP East	Prep	3010A			456851	10/25/18 15:13	BDE	TAL CHI
SPLP East	Analysis	6010B		1	457250	10/26/18 17:00	JEF	TAL CHI
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456775	10/25/18 09:50	SAH	TAL CHI
TCLP	Analysis	6010B		1	456909	10/25/18 23:33	EEN	TAL CHI
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456775	10/25/18 09:50	SAH	TAL CHI
TCLP	Analysis	6020A		1	456930	10/25/18 19:26	FXG	TAL CHI
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	7470A			456787	10/25/18 12:40	MJG	TAL CHI
TCLP	Analysis	7470A		1	457004	10/26/18 08:37	MJG	TAL CHI
Total/NA	Analysis	9045D		1	456636	10/24/18 14:56 (Start) 10/24/18 14:59 (End)	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	456134	10/22/18 12:56	LWN	TAL CHI

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Lab Chronicle

Client: Terracon Consulting Eng & Scientists
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TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B37 (0-5)

Lab Sample ID: 500-153334-8

Date Collected: 10/17/18 14:30

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 84.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			455801	10/18/18 07:15	WRE	TAL CHI
Total/NA	Analysis	8260B		1	456979	10/27/18 12:45	EMA	TAL CHI
Total/NA	Prep	3541			456471	10/24/18 07:29	DX	TAL CHI
Total/NA	Analysis	8270D		1	457115	10/27/18 15:16	AJD	TAL CHI
Total/NA	Prep	3050B			456503	10/24/18 08:16	SAH	TAL CHI
Total/NA	Analysis	6010B		1	456707	10/24/18 19:55	JEF	TAL CHI
Total/NA	Prep	3050B			456503	10/24/18 08:16	SAH	TAL CHI
Total/NA	Analysis	6010B		5	456827	10/25/18 12:32	EEN	TAL CHI
Total/NA	Prep	7471B			456364	10/23/18 15:50	MJG	TAL CHI
Total/NA	Analysis	7471B		1	456577	10/24/18 10:06	MJG	TAL CHI
Total/NA	Prep	9010B			456983	10/26/18 11:10	MAN	TAL CHI
Total/NA	Analysis	9014		1	457378		MS	TAL CHI
					(Start)	10/26/18 15:20		
					(End)	10/26/18 15:21		

Client Sample ID: 2947V-17-B38 (0-5)

Lab Sample ID: 500-153334-9

Date Collected: 10/17/18 14:15

Matrix: Solid

Date Received: 10/17/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			456605	10/24/18 11:40	JJB	TAL CHI
SPLP East	Prep	3010A			456851	10/25/18 15:13	BDE	TAL CHI
SPLP East	Analysis	6010B		1	457250	10/26/18 17:11	JEF	TAL CHI
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456775	10/25/18 09:50	SAH	TAL CHI
TCLP	Analysis	6010B		1	456909	10/25/18 23:45	EEN	TAL CHI
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456775	10/25/18 09:50	SAH	TAL CHI
TCLP	Analysis	6010B		1	457254	10/26/18 15:04	JEF	TAL CHI
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456775	10/25/18 09:50	SAH	TAL CHI
TCLP	Analysis	6020A		1	456930	10/25/18 19:30	FXG	TAL CHI
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	7470A			456787	10/25/18 12:40	MJG	TAL CHI
TCLP	Analysis	7470A		1	457004	10/26/18 08:39	MJG	TAL CHI
Total/NA	Analysis	9045D		1	456636		SMO	TAL CHI
					(Start)	10/24/18 15:44		
					(End)	10/24/18 15:47		
Total/NA	Analysis	Moisture		1	456134	10/22/18 12:56	LWN	TAL CHI

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Lab Chronicle

Client: Terracon Consulting Eng & Scientists
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TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B38 (0-5)

Lab Sample ID: 500-153334-9

Date Collected: 10/17/18 14:15

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 81.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			455801	10/18/18 07:15	WRE	TAL CHI
Total/NA	Analysis	8260B		1	456979	10/27/18 13:11	EMA	TAL CHI
Total/NA	Prep	3541			456471	10/24/18 07:29	DX	TAL CHI
Total/NA	Analysis	8270D		1	457115	10/27/18 15:45	AJD	TAL CHI
Total/NA	Prep	3050B			456503	10/24/18 08:16	SAH	TAL CHI
Total/NA	Analysis	6010B		1	456707	10/24/18 19:59	JEF	TAL CHI
Total/NA	Prep	3050B			456503	10/24/18 08:16	SAH	TAL CHI
Total/NA	Analysis	6010B		5	456827	10/25/18 12:36	EEN	TAL CHI
Total/NA	Prep	7471B			456364	10/23/18 15:50	MJG	TAL CHI
Total/NA	Analysis	7471B		1	456577	10/24/18 10:08	MJG	TAL CHI
Total/NA	Prep	9010B			456983	10/26/18 11:10	MAN	TAL CHI
Total/NA	Analysis	9014		1	457378		MS	TAL CHI
					(Start)	10/26/18 15:21		
					(End)	10/26/18 15:22		

Client Sample ID: 2947V-17-B39 (0-2)

Lab Sample ID: 500-153334-10

Date Collected: 10/17/18 14:00

Matrix: Solid

Date Received: 10/17/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			456605	10/24/18 11:40	JJB	TAL CHI
SPLP East	Prep	3010A			456851	10/25/18 15:13	BDE	TAL CHI
SPLP East	Analysis	6010B		1	457250	10/26/18 17:15	JEF	TAL CHI
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456775	10/25/18 09:50	SAH	TAL CHI
TCLP	Analysis	6010B		1	456909	10/25/18 23:49	EEN	TAL CHI
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456775	10/25/18 09:50	SAH	TAL CHI
TCLP	Analysis	6010B		1	457254	10/26/18 15:08	JEF	TAL CHI
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456775	10/25/18 09:50	SAH	TAL CHI
TCLP	Analysis	6020A		1	456930	10/25/18 19:31	FXG	TAL CHI
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	7470A			456787	10/25/18 12:40	MJG	TAL CHI
TCLP	Analysis	7470A		1	457004	10/26/18 08:42	MJG	TAL CHI
Total/NA	Analysis	9045D		1	456636		SMO	TAL CHI
					(Start)	10/24/18 15:47		
					(End)	10/24/18 15:50		
Total/NA	Analysis	Moisture		1	456134	10/22/18 12:56	LWN	TAL CHI

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Lab Chronicle

Client: Terracon Consulting Eng & Scientists
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TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B39 (0-2)

Lab Sample ID: 500-153334-10

Date Collected: 10/17/18 14:00

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 85.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			455801	10/18/18 07:15	WRE	TAL CHI
Total/NA	Analysis	8260B		1	456979	10/27/18 17:57	EMA	TAL CHI
Total/NA	Prep	3541			456471	10/24/18 07:29	DX	TAL CHI
Total/NA	Analysis	8270D		1	457115	10/27/18 16:14	AJD	TAL CHI
Total/NA	Prep	3050B			456503	10/24/18 08:16	SAH	TAL CHI
Total/NA	Analysis	6010B		1	456707	10/24/18 20:03	JEF	TAL CHI
Total/NA	Prep	7471B			456364	10/23/18 15:50	MJG	TAL CHI
Total/NA	Analysis	7471B		1	456577	10/24/18 10:10	MJG	TAL CHI
Total/NA	Prep	9010B			456983	10/26/18 11:10	MAN	TAL CHI
Total/NA	Analysis	9014		1	457378		MS	TAL CHI
					(Start)	10/26/18 15:22		
					(End)	10/26/18 15:22		

Client Sample ID: 2947V-17-B40 (0-4)

Lab Sample ID: 500-153334-11

Date Collected: 10/17/18 13:40

Matrix: Solid

Date Received: 10/17/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			456605	10/24/18 11:40	JJB	TAL CHI
SPLP East	Prep	3010A			456851	10/25/18 15:13	BDE	TAL CHI
SPLP East	Analysis	6010B		1	457250	10/26/18 17:19	JEF	TAL CHI
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456775	10/25/18 09:50	SAH	TAL CHI
TCLP	Analysis	6010B		1	456909	10/25/18 23:53	EEN	TAL CHI
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456775	10/25/18 09:50	SAH	TAL CHI
TCLP	Analysis	6010B		1	457254	10/26/18 15:12	JEF	TAL CHI
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456775	10/25/18 09:50	SAH	TAL CHI
TCLP	Analysis	6020A		1	456930	10/25/18 19:32	FXG	TAL CHI
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	7470A			456787	10/25/18 12:40	MJG	TAL CHI
TCLP	Analysis	7470A		1	457004	10/26/18 08:44	MJG	TAL CHI
Total/NA	Analysis	9045D		1	456636		SMO	TAL CHI
					(Start)	10/24/18 16:39		
					(End)	10/24/18 15:50		
Total/NA	Analysis	Moisture		1	456134	10/22/18 12:56	LWN	TAL CHI

Client Sample ID: 2947V-17-B40 (0-4)

Lab Sample ID: 500-153334-11

Date Collected: 10/17/18 13:40

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 84.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			455801	10/18/18 07:15	WRE	TAL CHI

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Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B40 (0-4)

Lab Sample ID: 500-153334-11

Date Collected: 10/17/18 13:40

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 84.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	456981	10/27/18 17:43	EMA	TAL CHI
Total/NA	Prep	3541			456471	10/24/18 07:29	DX	TAL CHI
Total/NA	Analysis	8270D		1	457115	10/27/18 20:03	AJD	TAL CHI
Total/NA	Prep	3541	DL		456471	10/24/18 07:29	DX	TAL CHI
Total/NA	Analysis	8270D	DL	5	457294	10/29/18 12:12	GES	TAL CHI
Total/NA	Prep	3050B			456503	10/24/18 08:16	SAH	TAL CHI
Total/NA	Analysis	6010B		1	456707	10/24/18 20:07	JEF	TAL CHI
Total/NA	Prep	3050B			456503	10/24/18 08:16	SAH	TAL CHI
Total/NA	Analysis	6010B		5	456827	10/25/18 12:48	EEN	TAL CHI
Total/NA	Prep	7471B			456364	10/23/18 15:50	MJG	TAL CHI
Total/NA	Analysis	7471B		1	456577	10/24/18 10:12	MJG	TAL CHI
Total/NA	Prep	9010B			456857	10/25/18 17:45	MS	TAL CHI
Total/NA	Analysis	9014		1	457026		MAN	TAL CHI
						(Start) 10/26/18 11:39		
						(End) 10/26/18 11:39		

Client Sample ID: 2947V-17-B15 (0-5)

Lab Sample ID: 500-153334-12

Date Collected: 10/17/18 09:20

Matrix: Solid

Date Received: 10/17/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			456605	10/24/18 11:40	JJB	TAL CHI
SPLP East	Prep	3010A			456851	10/25/18 15:13	BDE	TAL CHI
SPLP East	Analysis	6010B		1	457250	10/26/18 17:23	JEF	TAL CHI
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456775	10/25/18 09:50	SAH	TAL CHI
TCLP	Analysis	6010B		1	456909	10/25/18 23:57	EEN	TAL CHI
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456775	10/25/18 09:50	SAH	TAL CHI
TCLP	Analysis	6010B		1	457254	10/26/18 15:16	JEF	TAL CHI
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456775	10/25/18 09:50	SAH	TAL CHI
TCLP	Analysis	6020A		1	456930	10/25/18 19:33	FXG	TAL CHI
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	7470A			456787	10/25/18 12:40	MJG	TAL CHI
TCLP	Analysis	7470A		1	457004	10/26/18 08:50	MJG	TAL CHI
Total/NA	Analysis	9045D		1	456636		SMO	TAL CHI
						(Start) 10/24/18 16:39		
						(End) 10/24/18 15:50		
Total/NA	Analysis	Moisture		1	456134	10/22/18 12:56	LWN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B15 (0-5)

Lab Sample ID: 500-153334-12

Date Collected: 10/17/18 09:20

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 86.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			455801	10/18/18 07:15	WRE	TAL CHI
Total/NA	Analysis	8260B		1	456981	10/27/18 18:09	EMA	TAL CHI
Total/NA	Prep	3541			456471	10/24/18 07:29	DX	TAL CHI
Total/NA	Analysis	8270D		1	457115	10/27/18 12:24	AJD	TAL CHI
Total/NA	Prep	3050B			456503	10/24/18 08:16	SAH	TAL CHI
Total/NA	Analysis	6010B		1	456707	10/24/18 20:11	JEF	TAL CHI
Total/NA	Prep	7471B			456364	10/23/18 15:50	MJG	TAL CHI
Total/NA	Analysis	7471B		1	456577	10/24/18 10:26	MJG	TAL CHI
Total/NA	Prep	9010B			456857	10/25/18 17:45	MS	TAL CHI
Total/NA	Analysis	9014		1	457026		MAN	TAL CHI
					(Start)	10/26/18 11:39		
					(End)	10/26/18 11:40		

Client Sample ID: 2947V-17-B15 (0-5) Dup

Lab Sample ID: 500-153334-13

Date Collected: 10/17/18 09:25

Matrix: Solid

Date Received: 10/17/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			456605	10/24/18 11:40	JJB	TAL CHI
SPLP East	Prep	3010A			456851	10/25/18 15:13	BDE	TAL CHI
SPLP East	Analysis	6010B		1	457250	10/26/18 17:27	JEF	TAL CHI
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456775	10/25/18 09:50	SAH	TAL CHI
TCLP	Analysis	6010B		1	456909	10/26/18 00:01	EEN	TAL CHI
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456775	10/25/18 09:50	SAH	TAL CHI
TCLP	Analysis	6010B		1	457254	10/26/18 15:20	JEF	TAL CHI
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456775	10/25/18 09:50	SAH	TAL CHI
TCLP	Analysis	6020A		1	456930	10/25/18 19:34	FXG	TAL CHI
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	7470A			456787	10/25/18 12:40	MJG	TAL CHI
TCLP	Analysis	7470A		1	457004	10/26/18 08:52	MJG	TAL CHI
Total/NA	Analysis	9045D		1	456636		SMO	TAL CHI
					(Start)	10/24/18 16:39		
					(End)	10/24/18 15:50		
Total/NA	Analysis	Moisture		1	456134	10/22/18 12:56	LWN	TAL CHI

Client Sample ID: 2947V-17-B15 (0-5) Dup

Lab Sample ID: 500-153334-13

Date Collected: 10/17/18 09:25

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 84.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			455801	10/18/18 07:15	WRE	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B15 (0-5) Dup

Lab Sample ID: 500-153334-13

Date Collected: 10/17/18 09:25

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 84.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	457169	10/28/18 05:45	EMA	TAL CHI
Total/NA	Prep	3541			456471	10/24/18 07:29	DX	TAL CHI
Total/NA	Analysis	8270D		1	457115	10/27/18 14:19	AJD	TAL CHI
Total/NA	Prep	3050B			456503	10/24/18 08:16	SAH	TAL CHI
Total/NA	Analysis	6010B		1	456707	10/24/18 20:39	JEF	TAL CHI
Total/NA	Prep	7471B			456364	10/23/18 15:50	MJG	TAL CHI
Total/NA	Analysis	7471B		1	456577	10/24/18 10:28	MJG	TAL CHI
Total/NA	Prep	9010B			456857	10/25/18 17:45	MS	TAL CHI
Total/NA	Analysis	9014		1	457026		MAN	TAL CHI
					(Start)	10/26/18 11:40		
					(End)	10/26/18 11:40		

Client Sample ID: 2947V-17-B14 (0-5)

Lab Sample ID: 500-153334-14

Date Collected: 10/17/18 09:45

Matrix: Solid

Date Received: 10/17/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			456605	10/24/18 11:40	JJB	TAL CHI
SPLP East	Prep	3010A			456851	10/25/18 15:13	BDE	TAL CHI
SPLP East	Analysis	6010B		1	457250	10/26/18 17:31	JEF	TAL CHI
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456775	10/25/18 09:50	SAH	TAL CHI
TCLP	Analysis	6010B		1	456909	10/26/18 00:05	EEN	TAL CHI
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456775	10/25/18 09:50	SAH	TAL CHI
TCLP	Analysis	6010B		1	457254	10/26/18 15:24	JEF	TAL CHI
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456775	10/25/18 09:50	SAH	TAL CHI
TCLP	Analysis	6020A		1	456930	10/25/18 19:35	FXG	TAL CHI
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	7470A			456787	10/25/18 12:40	MJG	TAL CHI
TCLP	Analysis	7470A		1	457004	10/26/18 08:59	MJG	TAL CHI
Total/NA	Analysis	9045D		1	456636		SMO	TAL CHI
					(Start)	10/24/18 16:39		
					(End)	10/24/18 15:50		
Total/NA	Analysis	Moisture		1	456134	10/22/18 12:56	LWN	TAL CHI

Client Sample ID: 2947V-17-B14 (0-5)

Lab Sample ID: 500-153334-14

Date Collected: 10/17/18 09:45

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 83.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			455801	10/18/18 07:15	WRE	TAL CHI
Total/NA	Analysis	8260B		1	457169	10/28/18 06:10	EMA	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B14 (0-5)

Lab Sample ID: 500-153334-14

Date Collected: 10/17/18 09:45

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 83.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			456471	10/24/18 07:29	DX	TAL CHI
Total/NA	Analysis	8270D		1	457115	10/27/18 14:47	AJD	TAL CHI
Total/NA	Prep	3050B			456503	10/24/18 08:16	SAH	TAL CHI
Total/NA	Analysis	6010B		1	456707	10/24/18 20:43	JEF	TAL CHI
Total/NA	Prep	3050B			456503	10/24/18 08:16	SAH	TAL CHI
Total/NA	Analysis	6010B		5	456827	10/25/18 12:52	EEN	TAL CHI
Total/NA	Prep	7471B			456364	10/23/18 15:50	MJG	TAL CHI
Total/NA	Analysis	7471B		1	456577	10/24/18 10:29	MJG	TAL CHI
Total/NA	Prep	9010B			456857	10/25/18 17:45	MS	TAL CHI
Total/NA	Analysis	9014		1	457026		MAN	TAL CHI
					(Start)	10/26/18 11:40		
					(End)	10/26/18 11:41		

Client Sample ID: 2947V-17-B13 (0-5)

Lab Sample ID: 500-153334-15

Date Collected: 10/17/18 10:00

Matrix: Solid

Date Received: 10/17/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456775	10/25/18 09:50	SAH	TAL CHI
TCLP	Analysis	6010B		1	456909	10/26/18 00:09	EEN	TAL CHI
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456775	10/25/18 09:50	SAH	TAL CHI
TCLP	Analysis	6010B		1	457254	10/26/18 15:28	JEF	TAL CHI
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456775	10/25/18 09:50	SAH	TAL CHI
TCLP	Analysis	6020A		1	456930	10/25/18 19:36	FXG	TAL CHI
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	7470A			456787	10/25/18 12:40	MJG	TAL CHI
TCLP	Analysis	7470A		1	457004	10/26/18 09:01	MJG	TAL CHI
Total/NA	Analysis	9045D		1	456636		SMO	TAL CHI
					(Start)	10/24/18 16:39		
					(End)	10/24/18 15:50		
Total/NA	Analysis	Moisture		1	456134	10/22/18 12:56	LWN	TAL CHI

Client Sample ID: 2947V-17-B13 (0-5)

Lab Sample ID: 500-153334-15

Date Collected: 10/17/18 10:00

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 81.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			455801	10/18/18 07:15	WRE	TAL CHI
Total/NA	Analysis	8260B		1	457169	10/28/18 06:36	EMA	TAL CHI
Total/NA	Prep	3541			456471	10/24/18 07:29	DX	TAL CHI
Total/NA	Analysis	8270D		1	457115	10/27/18 18:37	AJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B13 (0-5)

Lab Sample ID: 500-153334-15

Date Collected: 10/17/18 10:00

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 81.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			456503	10/24/18 08:16	SAH	TAL CHI
Total/NA	Analysis	6010B		1	456707	10/24/18 20:47	JEF	TAL CHI
Total/NA	Prep	3050B			456503	10/24/18 08:16	SAH	TAL CHI
Total/NA	Analysis	6010B		5	456827	10/25/18 12:56	EEN	TAL CHI
Total/NA	Prep	7471B			456364	10/23/18 15:50	MJG	TAL CHI
Total/NA	Analysis	7471B		1	456577	10/24/18 10:31	MJG	TAL CHI
Total/NA	Prep	9010B			456857	10/25/18 17:45	MS	TAL CHI
Total/NA	Analysis	9014		1	457026		MAN	TAL CHI
					(Start)	10/26/18 11:41		
					(End)	10/26/18 11:41		

Client Sample ID: 2947V-17-B09 (0-5)

Lab Sample ID: 500-153334-16

Date Collected: 10/17/18 10:20

Matrix: Solid

Date Received: 10/17/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456775	10/25/18 09:50	SAH	TAL CHI
TCLP	Analysis	6010B		1	456909	10/26/18 00:14	EEN	TAL CHI
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456775	10/25/18 09:50	SAH	TAL CHI
TCLP	Analysis	6010B		1	457254	10/26/18 15:32	JEF	TAL CHI
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456775	10/25/18 09:50	SAH	TAL CHI
TCLP	Analysis	6020A		1	456930	10/25/18 19:37	FXG	TAL CHI
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	7470A			456787	10/25/18 12:40	MJG	TAL CHI
TCLP	Analysis	7470A		1	457004	10/26/18 09:03	MJG	TAL CHI
Total/NA	Analysis	9045D		1	456636		SMO	TAL CHI
					(Start)	10/24/18 16:39		
					(End)	10/24/18 15:50		
Total/NA	Analysis	Moisture		1	456134	10/22/18 12:56	LWN	TAL CHI

Client Sample ID: 2947V-17-B09 (0-5)

Lab Sample ID: 500-153334-16

Date Collected: 10/17/18 10:20

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 83.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			455801	10/18/18 07:15	WRE	TAL CHI
Total/NA	Analysis	8260B		1	457169	10/28/18 07:02	EMA	TAL CHI
Total/NA	Prep	3541			456471	10/24/18 07:29	DX	TAL CHI
Total/NA	Analysis	8270D		1	457115	10/27/18 10:58	AJD	TAL CHI
Total/NA	Prep	3050B			456503	10/24/18 08:16	SAH	TAL CHI
Total/NA	Analysis	6010B		1	456707	10/24/18 20:51	JEF	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B09 (0-5)

Lab Sample ID: 500-153334-16

Date Collected: 10/17/18 10:20

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 83.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			456364	10/23/18 15:50	MJG	TAL CHI
Total/NA	Analysis	7471B		1	456577	10/24/18 10:33	MJG	TAL CHI
Total/NA	Prep	9010B			456857	10/25/18 17:45	MS	TAL CHI
Total/NA	Analysis	9014		1	457026		MAN	TAL CHI
					(Start)	10/26/18 11:41		
					(End)	10/26/18 11:42		

Client Sample ID: 2947V-17-B08 (0-5)

Lab Sample ID: 500-153334-17

Date Collected: 10/17/18 10:40

Matrix: Solid

Date Received: 10/17/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			456605	10/24/18 11:40	JJB	TAL CHI
SPLP East	Prep	3010A			456851	10/25/18 15:13	BDE	TAL CHI
SPLP East	Analysis	6010B		1	457250	10/26/18 17:43	JEF	TAL CHI
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456775	10/25/18 09:50	SAH	TAL CHI
TCLP	Analysis	6010B		1	456909	10/26/18 00:18	EEN	TAL CHI
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456775	10/25/18 09:50	SAH	TAL CHI
TCLP	Analysis	6010B		1	457254	10/26/18 15:36	JEF	TAL CHI
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456775	10/25/18 09:50	SAH	TAL CHI
TCLP	Analysis	6020A		1	456930	10/25/18 19:38	FXG	TAL CHI
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	7470A			456787	10/25/18 12:40	MJG	TAL CHI
TCLP	Analysis	7470A		1	457004	10/26/18 09:05	MJG	TAL CHI
Total/NA	Analysis	9045D		1	456636		SMO	TAL CHI
					(Start)	10/24/18 16:39		
					(End)	10/24/18 15:50		
Total/NA	Analysis	Moisture		1	456134	10/22/18 12:56	LWN	TAL CHI

Client Sample ID: 2947V-17-B08 (0-5)

Lab Sample ID: 500-153334-17

Date Collected: 10/17/18 10:40

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 81.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			455801	10/18/18 07:15	WRE	TAL CHI
Total/NA	Analysis	8260B		1	457169	10/28/18 07:28	EMA	TAL CHI
Total/NA	Prep	3541			456471	10/24/18 07:29	DX	TAL CHI
Total/NA	Analysis	8270D		1	457115	10/27/18 19:06	AJD	TAL CHI
Total/NA	Prep	3050B			456503	10/24/18 08:16	SAH	TAL CHI
Total/NA	Analysis	6010B		1	456707	10/24/18 20:55	JEF	TAL CHI
Total/NA	Prep	7471B			456364	10/23/18 15:50	MJG	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B08 (0-5)

Lab Sample ID: 500-153334-17

Date Collected: 10/17/18 10:40

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 81.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7471B		1	456577	10/24/18 10:35	MJG	TAL CHI
Total/NA	Prep	9010B			456857	10/25/18 17:45	MS	TAL CHI
Total/NA	Analysis	9014		1	457026	10/26/18 11:43	MAN	TAL CHI
					(Start)	10/26/18 11:43		
					(End)	10/26/18 11:43		

Client Sample ID: 2947V-17-B07 (0-5)

Lab Sample ID: 500-153334-18

Date Collected: 10/17/18 10:55

Matrix: Solid

Date Received: 10/17/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456775	10/25/18 09:50	SAH	TAL CHI
TCLP	Analysis	6010B		1	456909	10/26/18 00:22	EEN	TAL CHI
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456775	10/25/18 09:50	SAH	TAL CHI
TCLP	Analysis	6010B		1	457254	10/26/18 15:41	JEF	TAL CHI
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456775	10/25/18 09:50	SAH	TAL CHI
TCLP	Analysis	6020A		1	456930	10/25/18 19:39	FXG	TAL CHI
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	7470A			456787	10/25/18 12:40	MJG	TAL CHI
TCLP	Analysis	7470A		1	457004	10/26/18 09:07	MJG	TAL CHI
Total/NA	Analysis	9045D		1	456636		SMO	TAL CHI
					(Start)	10/24/18 16:39		
					(End)	10/24/18 15:50		
Total/NA	Analysis	Moisture		1	456134	10/22/18 12:56	LWN	TAL CHI

Client Sample ID: 2947V-17-B07 (0-5)

Lab Sample ID: 500-153334-18

Date Collected: 10/17/18 10:55

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 84.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			455801	10/18/18 07:15	WRE	TAL CHI
Total/NA	Analysis	8260B		1	457169	10/28/18 07:54	EMA	TAL CHI
Total/NA	Prep	3541			456471	10/24/18 07:29	DX	TAL CHI
Total/NA	Analysis	8270D		1	457115	10/27/18 11:26	AJD	TAL CHI
Total/NA	Prep	3050B			456503	10/24/18 08:16	SAH	TAL CHI
Total/NA	Analysis	6010B		1	456707	10/24/18 20:59	JEF	TAL CHI
Total/NA	Prep	7471B			456364	10/23/18 15:50	MJG	TAL CHI
Total/NA	Analysis	7471B		1	456577	10/24/18 10:37	MJG	TAL CHI
Total/NA	Prep	9010B			456857	10/25/18 17:45	MS	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B07 (0-5)

Lab Sample ID: 500-153334-18

Date Collected: 10/17/18 10:55

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 84.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9014		1	457026	10/26/18 11:43 10/26/18 11:44	MAN	TAL CHI

Client Sample ID: 2947V-17-B03 (0-5)

Lab Sample ID: 500-153334-19

Date Collected: 10/17/18 11:15

Matrix: Solid

Date Received: 10/17/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			456605	10/24/18 11:40	JJB	TAL CHI
SPLP East	Prep	3010A			456851	10/25/18 15:13	BDE	TAL CHI
SPLP East	Analysis	6010B		1	457250	10/26/18 17:59	JEF	TAL CHI
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456775	10/25/18 09:50	SAH	TAL CHI
TCLP	Analysis	6010B		1	456909	10/26/18 00:34	EEN	TAL CHI
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456775	10/25/18 09:50	SAH	TAL CHI
TCLP	Analysis	6010B		1	457254	10/26/18 15:53	JEF	TAL CHI
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456775	10/25/18 09:50	SAH	TAL CHI
TCLP	Analysis	6020A		1	456930	10/25/18 19:42	FXG	TAL CHI
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	7470A			456787	10/25/18 12:40	MJG	TAL CHI
TCLP	Analysis	7470A		1	457004	10/26/18 09:09	MJG	TAL CHI
Total/NA	Analysis	9045D		1	456636	10/24/18 16:39 10/24/18 15:50	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	456134	10/22/18 12:56	LWN	TAL CHI

Client Sample ID: 2947V-17-B03 (0-5)

Lab Sample ID: 500-153334-19

Date Collected: 10/17/18 11:15

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 83.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			455801	10/18/18 07:15	WRE	TAL CHI
Total/NA	Analysis	8260B		1	457169	10/28/18 08:20	EMA	TAL CHI
Total/NA	Prep	3541			456471	10/24/18 07:29	DX	TAL CHI
Total/NA	Analysis	8270D		1	457115	10/27/18 11:55	AJD	TAL CHI
Total/NA	Prep	3050B			456503	10/24/18 08:16	SAH	TAL CHI
Total/NA	Analysis	6010B		1	456707	10/24/18 21:03	JEF	TAL CHI
Total/NA	Prep	7471B			456364	10/23/18 15:50	MJG	TAL CHI
Total/NA	Analysis	7471B		1	456577	10/24/18 10:43	MJG	TAL CHI
Total/NA	Prep	9010B			456857	10/25/18 17:45	MS	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B03 (0-5)

Lab Sample ID: 500-153334-19

Date Collected: 10/17/18 11:15

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 83.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9014		1	457026	10/26/18 11:44 (Start) 10/26/18 11:44 (End)	MAN	TAL CHI

Client Sample ID: 2947V-17-B02 (0-5)

Lab Sample ID: 500-153334-20

Date Collected: 10/17/18 11:35

Matrix: Solid

Date Received: 10/17/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			456605	10/24/18 11:40	JJB	TAL CHI
SPLP East	Prep	3010A			456851	10/25/18 15:13	BDE	TAL CHI
SPLP East	Analysis	6010B		1	457250	10/26/18 18:02	JEF	TAL CHI
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456775	10/25/18 09:50	SAH	TAL CHI
TCLP	Analysis	6010B		1	456909	10/26/18 00:38	EEN	TAL CHI
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456775	10/25/18 09:50	SAH	TAL CHI
TCLP	Analysis	6010B		1	457254	10/26/18 15:57	JEF	TAL CHI
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456775	10/25/18 09:50	SAH	TAL CHI
TCLP	Analysis	6020A		1	456930	10/25/18 19:43	FXG	TAL CHI
TCLP	Leach	1311			456607	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	7470A			456787	10/25/18 12:40	MJG	TAL CHI
TCLP	Analysis	7470A		1	457004	10/26/18 09:11	MJG	TAL CHI
Total/NA	Analysis	9045D		1	456636	10/24/18 16:39 (Start) 10/24/18 15:50 (End)	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	456134	10/22/18 12:56	LWN	TAL CHI

Client Sample ID: 2947V-17-B02 (0-5)

Lab Sample ID: 500-153334-20

Date Collected: 10/17/18 11:35

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			455801	10/18/18 07:15	WRE	TAL CHI
Total/NA	Analysis	8260B		1	457169	10/28/18 08:45	EMA	TAL CHI
Total/NA	Prep	3541			456471	10/24/18 07:29	DX	TAL CHI
Total/NA	Analysis	8270D		1	457115	10/27/18 19:35	AJD	TAL CHI
Total/NA	Prep	3050B			456503	10/24/18 08:16	SAH	TAL CHI
Total/NA	Analysis	6010B		1	456707	10/24/18 21:07	JEF	TAL CHI
Total/NA	Prep	3050B			456503	10/24/18 08:16	SAH	TAL CHI
Total/NA	Analysis	6010B		5	456827	10/25/18 13:00	EEN	TAL CHI
Total/NA	Prep	7471B			456590	10/24/18 16:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	456825	10/25/18 11:32	MJG	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B02 (0-5)

Lab Sample ID: 500-153334-20

Date Collected: 10/17/18 11:35

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	9010B			456857	10/25/18 17:45	MS	TAL CHI
Total/NA	Analysis	9014		1	457026	(Start) 10/26/18 11:44 (End) 10/26/18 11:45	MAN	TAL CHI

Client Sample ID: 2947V-17-B02 (0-5) Dup

Lab Sample ID: 500-153334-21

Date Collected: 10/17/18 11:40

Matrix: Solid

Date Received: 10/17/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			456606	10/24/18 11:40	JJB	TAL CHI
SPLP East	Prep	3010A			457290	10/29/18 08:53	SAH	TAL CHI
SPLP East	Analysis	6010B		1	457445	10/29/18 18:40	EEN	TAL CHI
TCLP	Leach	1311			456609	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456853	10/25/18 15:16	BDE	TAL CHI
TCLP	Analysis	6010B		1	457052	10/26/18 11:57	JEF	TAL CHI
TCLP	Leach	1311			456609	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456853	10/25/18 15:16	BDE	TAL CHI
TCLP	Analysis	6020A		1	457068	10/26/18 12:41	FXG	TAL CHI
TCLP	Leach	1311			456609	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	7470A			456788	10/25/18 12:40	MJG	TAL CHI
TCLP	Analysis	7470A		1	457004	10/26/18 09:24	MJG	TAL CHI
Total/NA	Analysis	9045D		1	456636	(Start) 10/24/18 16:39 (End) 10/24/18 15:50	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	456165	10/22/18 14:46	LWN	TAL CHI

Client Sample ID: 2947V-17-B02 (0-5) Dup

Lab Sample ID: 500-153334-21

Date Collected: 10/17/18 11:40

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 86.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			455801	10/18/18 07:15	WRE	TAL CHI
Total/NA	Analysis	8260B		1	457169	10/28/18 09:11	EMA	TAL CHI
Total/NA	Prep	3541			456475	10/24/18 07:38	DX	TAL CHI
Total/NA	Analysis	8270D		1	456939	10/26/18 19:55	AJD	TAL CHI
Total/NA	Prep	3050B			456512	10/24/18 08:37	SAH	TAL CHI
Total/NA	Analysis	6010B		1	456708	10/25/18 01:07	JEF	TAL CHI
Total/NA	Prep	3050B			456512	10/24/18 08:37	SAH	TAL CHI
Total/NA	Analysis	6010B		5	456827	10/25/18 13:19	EEN	TAL CHI
Total/NA	Prep	7471B			456591	10/24/18 16:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	456825	10/25/18 08:44	MJG	TAL CHI
Total/NA	Prep	9010B			456983	10/26/18 11:10	MAN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B02 (0-5) Dup

Lab Sample ID: 500-153334-21

Date Collected: 10/17/18 11:40

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 86.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9014		1	457378	10/26/18 15:22	MS	TAL CHI
					(Start)	10/26/18 15:22		
					(End)	10/26/18 15:23		

Client Sample ID: 2947V-17-B01 (0-5)

Lab Sample ID: 500-153334-22

Date Collected: 10/17/18 12:00

Matrix: Solid

Date Received: 10/17/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			456609	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456853	10/25/18 15:16	BDE	TAL CHI
TCLP	Analysis	6010B		1	457052	10/26/18 12:01	JEF	TAL CHI
TCLP	Leach	1311			456609	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456853	10/25/18 15:16	BDE	TAL CHI
TCLP	Analysis	6020A		1	457068	10/26/18 12:42	FXG	TAL CHI
TCLP	Leach	1311			456609	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	7470A			456788	10/25/18 12:40	MJG	TAL CHI
TCLP	Analysis	7470A		1	457004	10/26/18 09:26	MJG	TAL CHI
Total/NA	Analysis	9045D		1	456636	10/24/18 16:39	SMO	TAL CHI
					(Start)	10/24/18 16:39		
					(End)	10/24/18 15:50		
Total/NA	Analysis	Moisture		1	456165	10/22/18 14:46	LWN	TAL CHI

Client Sample ID: 2947V-17-B01 (0-5)

Lab Sample ID: 500-153334-22

Date Collected: 10/17/18 12:00

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 85.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			455801	10/18/18 07:15	WRE	TAL CHI
Total/NA	Analysis	8260B		1	457169	10/28/18 09:37	EMA	TAL CHI
Total/NA	Prep	3541			456475	10/24/18 07:38	DX	TAL CHI
Total/NA	Analysis	8270D		1	456939	10/26/18 15:36	AJD	TAL CHI
Total/NA	Prep	3050B			456512	10/24/18 08:37	SAH	TAL CHI
Total/NA	Analysis	6010B		1	456708	10/25/18 01:11	JEF	TAL CHI
Total/NA	Prep	7471B			456591	10/24/18 16:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	456825	10/25/18 08:46	MJG	TAL CHI
Total/NA	Prep	9010B			456983	10/26/18 11:10	MAN	TAL CHI
Total/NA	Analysis	9014		1	457378	10/26/18 15:23	MS	TAL CHI
					(Start)	10/26/18 15:23		
					(End)	10/26/18 15:24		

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B27 (0-5)

Lab Sample ID: 500-153334-23

Date Collected: 10/17/18 14:10

Matrix: Solid

Date Received: 10/17/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			456609	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456853	10/25/18 15:16	BDE	TAL CHI
TCLP	Analysis	6010B		1	457052	10/26/18 12:05	JEF	TAL CHI
TCLP	Leach	1311			456609	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456853	10/25/18 15:16	BDE	TAL CHI
TCLP	Analysis	6020A		1	457068	10/26/18 12:43	FXG	TAL CHI
TCLP	Leach	1311			456609	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	7470A			456788	10/25/18 12:40	MJG	TAL CHI
TCLP	Analysis	7470A		1	457004	10/26/18 09:28	MJG	TAL CHI
Total/NA	Analysis	9045D		1	456636	(Start) 10/24/18 16:39 (End) 10/24/18 15:50	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	456165	10/22/18 14:46	LWN	TAL CHI

Client Sample ID: 2947V-17-B27 (0-5)

Lab Sample ID: 500-153334-23

Date Collected: 10/17/18 14:10

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 83.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			455801	10/18/18 07:15	WRE	TAL CHI
Total/NA	Analysis	8260B		1	457169	10/28/18 10:03	EMA	TAL CHI
Total/NA	Prep	3541			456475	10/24/18 07:38	DX	TAL CHI
Total/NA	Analysis	8270D		1	456939	10/26/18 16:02	AJD	TAL CHI
Total/NA	Prep	3050B			456512	10/24/18 08:37	SAH	TAL CHI
Total/NA	Analysis	6010B		1	456708	10/25/18 01:15	JEF	TAL CHI
Total/NA	Prep	7471B			456591	10/24/18 16:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	456825	10/25/18 08:48	MJG	TAL CHI
Total/NA	Prep	9010B			456983	10/26/18 11:10	MAN	TAL CHI
Total/NA	Analysis	9014		1	457378	(Start) 10/26/18 15:24 (End) 10/26/18 15:25	MS	TAL CHI

Client Sample ID: 2947V-17-B26 (0-5)

Lab Sample ID: 500-153334-24

Date Collected: 10/17/18 14:35

Matrix: Solid

Date Received: 10/17/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			456609	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456853	10/25/18 15:16	BDE	TAL CHI
TCLP	Analysis	6010B		1	457052	10/26/18 12:09	JEF	TAL CHI
TCLP	Leach	1311			456609	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456853	10/25/18 15:16	BDE	TAL CHI
TCLP	Analysis	6020A		1	457068	10/26/18 12:44	FXG	TAL CHI
TCLP	Leach	1311			456609	10/24/18 13:55	JJB	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B26 (0-5)

Lab Sample ID: 500-153334-24

Date Collected: 10/17/18 14:35

Matrix: Solid

Date Received: 10/17/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Prep	7470A			456788	10/25/18 12:40	MJG	TAL CHI
TCLP	Analysis	7470A		1	457004	10/26/18 09:30	MJG	TAL CHI
Total/NA	Analysis	9045D		1	456636	10/24/18 16:39 (Start) 10/24/18 15:50 (End)	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	456165	10/22/18 14:46	LWN	TAL CHI

Client Sample ID: 2947V-17-B26 (0-5)

Lab Sample ID: 500-153334-24

Date Collected: 10/17/18 14:35

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 79.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			455801	10/18/18 07:15	WRE	TAL CHI
Total/NA	Analysis	8260B		1	457169	10/28/18 10:29	EMA	TAL CHI
Total/NA	Prep	3541			456475	10/24/18 07:38	DX	TAL CHI
Total/NA	Analysis	8270D		1	456939	10/26/18 16:28	AJD	TAL CHI
Total/NA	Prep	3050B			456512	10/24/18 08:37	SAH	TAL CHI
Total/NA	Analysis	6010B		1	456708	10/25/18 01:19	JEF	TAL CHI
Total/NA	Prep	7471B			456591	10/24/18 16:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	456825	10/25/18 08:50	MJG	TAL CHI
Total/NA	Prep	9010B			456983	10/26/18 11:10	MAN	TAL CHI
Total/NA	Analysis	9014		1	457378	10/26/18 15:25 (Start) 10/26/18 15:25 (End)	MS	TAL CHI

Client Sample ID: 2947V-17-B25 (0-5)

Lab Sample ID: 500-153334-25

Date Collected: 10/17/18 15:00

Matrix: Solid

Date Received: 10/17/18 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			456609	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456853	10/25/18 15:16	BDE	TAL CHI
TCLP	Analysis	6010B		1	457052	10/26/18 12:13	JEF	TAL CHI
TCLP	Leach	1311			456609	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456853	10/25/18 15:16	BDE	TAL CHI
TCLP	Analysis	6020A		1	457068	10/26/18 12:45	FXG	TAL CHI
TCLP	Leach	1311			456609	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	7470A			456788	10/25/18 12:40	MJG	TAL CHI
TCLP	Analysis	7470A		1	457004	10/26/18 09:33	MJG	TAL CHI
Total/NA	Analysis	9045D		1	456636	10/24/18 16:39 (Start) 10/24/18 15:50 (End)	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	456165	10/22/18 14:46	LWN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Client Sample ID: 2947V-17-B25 (0-5)

Lab Sample ID: 500-153334-25

Date Collected: 10/17/18 15:00

Matrix: Solid

Date Received: 10/17/18 16:40

Percent Solids: 81.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			455801	10/18/18 07:15	WRE	TAL CHI
Total/NA	Analysis	8260B		1	457169	10/28/18 10:55	EMA	TAL CHI
Total/NA	Prep	3541			456475	10/24/18 07:38	DX	TAL CHI
Total/NA	Analysis	8270D		1	457142	10/27/18 15:16	AJD	TAL CHI
Total/NA	Prep	3050B			456512	10/24/18 08:37	SAH	TAL CHI
Total/NA	Analysis	6010B		1	456708	10/25/18 01:23	JEF	TAL CHI
Total/NA	Prep	7471B			456591	10/24/18 16:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	456825	10/25/18 08:52	MJG	TAL CHI
Total/NA	Prep	9010B			456983	10/26/18 11:10	MAN	TAL CHI
Total/NA	Analysis	9014		1	457378		MS	TAL CHI
					(Start)	10/26/18 15:25		
					(End)	10/26/18 15:26		

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153334-1

Laboratory: 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	04-30-19

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 61
Phone: 708.534.5200 Fax: 708.534.5200



500-153334 COC

Report To (optional) MATT WEISS Bill To (optional) _____
 Contact: MATT WEISS Contact: _____
 Company: TERRACON Company: _____
 Address: 192 EXCHANGE BLVD Address: _____
 Address: GLENDALE HEIGHTS, IL Address: _____
 Phone: 630-445-0160 Phone: _____
 Fax: _____ Fax: _____
 E-Mail: MATT.WEISS@TERRACON.COM PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-153334

Chain of Custody Number: _____

Page _____ of _____

Temperature °C of Cooler: 46.28, 46.43

Client		Client Project #		Preservative		Parameter		Matrix		Comments	
<u>TERRACON</u>		<u>1182007</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		Lab Project #		# of Containers		Matrix		Matrix		Comments	
<u>WORK ORDER # 54</u>											
Project Location/State		Lab Project #		Date		Time		Inorganic/PH		Inorganic	
<u>ROMEONVILLE IL</u>								<u>TOTAL TAL</u>		<u>SPLP TAL</u>	
Sampler		Lab PM		Date		Time		Inorganic/PH		Inorganic	
<u>Ryan J. Peterson</u>								<u>TAL P TAL</u>		<u>SPLP TAL</u>	
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix					
1		<u>2947V-17-B04(0-5)</u>	<u>10/17</u>	<u>1025</u>	<u>5</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
2		<u>2947V-17-B05(0-5)</u>		<u>1000</u>							
3		<u>2947V-17-B06(0-5)</u>		<u>950</u>							
4		<u>2947V-17-B10(0-5)</u>		<u>935</u>							
5		<u>2974V-17-B11(0-5)</u>		<u>925</u>							
6		<u>2974V-17-B12(0-5)</u>		<u>910</u>							
7		<u>2974V-17-B36(0-5)</u>		<u>1445</u>							
8		<u>2974V-17-B37(0-5)</u>		<u>1430</u>							
9		<u>2974V-17-B38(0-5)</u>		<u>1415</u>							
10		<u>2974V-17-B39(0-2)</u>		<u>1400</u>							

Turnaround Time Required (Business Days)

1 Day 2 Days 5 Days 7 Days 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)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
<u>[Signature]</u>	<u>TERRACON</u>	<u>10/17/18</u>	<u>1545</u>	<u>[Signature]</u>	<u>TA</u>	<u>10/17/18</u>	<u>1545</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
<u>[Signature]</u>	<u>TA</u>	<u>10/17/18</u>	<u>1648</u>	<u>[Signature]</u>	<u>TA-CAL</u>	<u>10/17/18</u>	<u>1640</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

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: HOLD SPLP
* No Al in TAL Analyses

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)
 Contact: MATT WEISS
 Company: TERRACON
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

Bill To (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 PO#/Reference#: _____

Chain of Custody Record

Lab Job #: 500-153334
 Chain of Custody Number: _____
 Page _____ of _____
 Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter												Preservative Key							
<u>TERRACON</u>		<u>11187002V</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				Project Location/State				Lab Project #				Lab PM													
<u>WORK ORDER #154</u>				<u>ROMEDEVILLE</u>																					
Sampler																									
<u>RYAN J PETERSON</u>																									
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOCs	SUDCS	TOTAL TAL Inorganic/S/P	TCCP TAL Inorganic	SPLP TAL Inorganic	Comments													
			Date	Time																					
<u>11</u>		<u>2947V-17-B40(04)</u>	<u>10/17</u>	<u>1340</u>	<u>5</u>	<u>S</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 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)

Relinquished By <u>[Signature]</u>	Company <u>TERRACON</u>	Date <u>10/17/18</u>	Time <u>1545</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>10/17/18</u>	Time <u>1545</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>10/17/18</u>	Time <u>1646</u>	Received By <u>[Signature]</u>	Company <u>TERRACON</u>	Date <u>10/17/18</u>	Time <u>1640</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
Hold SPLP
No AL in TAL Analyses

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: Matt Weiss Contact: _____
 Company: Terracon Company: _____
 Address: 192 Exchange Blvd Address: _____
 Address: Glendale Heights, IL Address: _____
 Phone: 630-445-8166 Phone: _____
 Fax: _____ Fax: _____
 E-Mail: matt.weiss@terracon.com PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-153334
 Chain of Custody Number: _____
 Page 1 of 2
 Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter		Matrix		Comments			
<u>IOST</u>		<u>11187007U</u>											
Project Name		Lab Project #		Date		Time		# of Containers		Matrix			
<u>11187007U</u>													
Project Location/State		Lab PM		Date		Time		# of Containers		Matrix			
<u>Konevick, 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	Uex'S	Sux'S	Total 23 Inorganics	PH	TECP 23 Inorganics	SPL 23 Inorganics	Comments
12		2947U-17-B15 (0.5)	10/17/18	0920	5	S	X	X	X	X	X		0920
13		2947U-17-B15 Dup (0.5)	10/17/18	0925	5	S	X	X	X	X	X		0925
14		2947U-17-B14 (0.5)	10/17/18	0945	5	S	X	X	X	X	X		
15		2947U-17-B13 (0.5)	10/17/18	1000	5	S	X	X	X	X	X		
16		2947U-17-B09 (0.5)	10/17/18	1020	5	S	X	X	X	X	X		
17		2947U-17-B08 (0.5)	10/17/18	1040	5	S	X	X	X	X	X		
18		2947U-17-B07 (0.5)	10/17/18	1055	5	S	X	X	X	X	X		
19		2947U-17-B03 (0.5)	10/17/18	1115	5	S	X	X	X	X	X		
20		2947U-17-B02 (0.5)	10/17/18	1135	5	S	X	X	X	X	X		
21		2947U-17-B02 Dup (0.5)	10/17/18	1140	5	S	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>[Signature]</u> Company: <u>Terracon</u> Date: <u>10/17/18</u> Time: <u>1545</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>10/17/18</u> Time: <u>1545</u>	Lab Courier: <u>TA</u>
Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>10/17/18</u> Time: <u>1640</u>	Received By: <u>[Signature]</u> Company: <u>TA-CST</u> Date: <u>10/17/18</u> Time: <u>1640</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:
*NO Aluminum
*Hold SPL 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)
 Contact: Matt Weiss
 Company: Terracon
 Address: 1924 Chase Blvd
Glendale Heights, IL
 Phone: 630-445-0166
 Fax:
 E-Mail: Matt.Weiss@Terracon.com

Bill To (optional)
 Contact:
 Company:
 Address:
 Address:
 Phone:
 Fax:
 PO#/Reference#

Chain of Custody Record

Lab Job #: 500-153334

Chain of Custody Number: _____

Page 2 of 2

Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter		Matrix		Comments						
<u>#007</u>		<u>1118 7007U</u>														
Project Name				Project Location/State				Lab Project #								
<u>1118 7007U</u>																
Sampler				Lab PM												
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOC'S	SUC'S	Total 23	Inorganics	PH	TCP 23	Inorganic	SP 23	Inorganic	Preservative Key
			Date	Time												
<u>22</u>		<u>2947U-17-B01(0.5)</u>	<u>10/17/18</u>	<u>1200</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>23</u>		<u>2947U-17-B27(0.5)</u>	<u>10/17/18</u>	<u>1410</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>10/17/18 1410</u>
<u>24</u>		<u>2947U-17-B26(0.5)</u>	<u>10/17/18</u>	<u>1435</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>25</u>		<u>2947U-17-B25(0.5)</u>	<u>10/17/18</u>	<u>1500</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>	

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>10/17/18</u>	Time <u>1545</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>10/17/18</u>	Time <u>1545</u>	Lab Courier <u>TA</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>10/17/18</u>	Time <u>1640</u>	Received By <u>[Signature]</u>	Company <u>TA Corp</u>	Date <u>10/17/18</u>	Time <u>1640</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
* NO Aluminium
* Hold SP 23 Inorganics
per Terracon Instructions

Lab Comments:

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-153334-1

Login Number: 153334

List Source: 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	
Cooler Temperature is recorded.	True	4.6,2.8,0.6,4.3
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	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-153500-1
Client Project/Site: IDOT - Romeoville - WO 054

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

Attn: Mr. Matthew Weiss



Authorized for release by:
10/31/2018 3:36:55 PM

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

LINKS

Review your project
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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14



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Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153500-1

Job ID: 500-153500-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-153500-1

Receipt

The samples were received on 10/19/2018 11:55 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.6° C.

GC/MS VOA

The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for 457169 recovered outside control limits for the following analytes: Chloroethane. This analyte was biased low in the LCS/ 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

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

Metals

Method(s) 6010B: The following sample was diluted due to the abundance of non-target analytes: 2947V-17-B16 (0-5) (500-153500-5). Elevated reporting limits (RLs) are provided.

Method(s) 6020A: The CCB at line 83, contained Thallium above the reporting limit (RL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

No additional analytical or quality issues were noted, other than those described above or 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 - Romeoville - WO 054

TestAmerica Job ID: 500-153500-1

Client Sample ID: 2947V-17-B20 (0-5)

Lab Sample ID: 500-153500-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.032	J	0.042	0.0055	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.015	J	0.042	0.0070	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.066		0.042	0.0056	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.096		0.042	0.0081	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.12		0.042	0.0090	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.069		0.042	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.045		0.042	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.076		0.042	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.035	J	0.042	0.0081	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.098		0.042	0.0078	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.070		0.042	0.011	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.034	J	0.042	0.0058	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.088		0.042	0.0083	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.35	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.1		0.62	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	88		0.62	0.071	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.68		0.25	0.058	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.20	B	0.12	0.022	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.62	0.31	mg/Kg	1	☼	6010B	Total/NA
Cobalt	10		0.31	0.081	mg/Kg	1	☼	6010B	Total/NA
Copper	14		0.62	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	17000		12	6.5	mg/Kg	1	☼	6010B	Total/NA
Lead	25		0.31	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	21000		6.2	3.1	mg/Kg	1	☼	6010B	Total/NA
Calcium	32000	B	12	2.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	570		0.62	0.090	mg/Kg	1	☼	6010B	Total/NA
Nickel	26		0.62	0.18	mg/Kg	1	☼	6010B	Total/NA
Silver	0.26	J	0.31	0.080	mg/Kg	1	☼	6010B	Total/NA
Vanadium	26		0.31	0.073	mg/Kg	1	☼	6010B	Total/NA
Zinc	68	B	1.2	0.55	mg/Kg	1	☼	6010B	Total/NA
Potassium	1700		31	11	mg/Kg	1	☼	6010B	Total/NA
Sodium	500		62	9.2	mg/Kg	1	☼	6010B	Total/NA
Barium	0.71		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0034	J	0.0050	0.0020	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	2.4		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.019	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.1	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.024	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	2.2		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.034		0.020	0.0067	mg/Kg	1	☼	7471B	Total/NA
pH	8.0		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2947V-17-B19 (0-5)

Lab Sample ID: 500-153500-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.0082	J	0.042	0.0055	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.0072	J	0.042	0.0070	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.026	J	0.042	0.0056	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153500-1

Client Sample ID: 2947V-17-B19 (0-5) (Continued)

Lab Sample ID: 500-153500-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	0.040	J	0.042	0.0081	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.036	J	0.042	0.0091	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.031	J	0.042	0.014	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.018	J	0.042	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.033	J	0.042	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.044		0.042	0.0078	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.033	J	0.042	0.011	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.025	J	0.042	0.0058	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.041	J	0.042	0.0083	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.34	J	1.2	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.8		0.58	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	92		0.58	0.067	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.79		0.23	0.055	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.15	B	0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Chromium	20		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.29	0.077	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	23000		12	6.1	mg/Kg	1	☼	6010B	Total/NA
Lead	33		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	9500		5.8	2.9	mg/Kg	1	☼	6010B	Total/NA
Calcium	14000	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	560		0.58	0.085	mg/Kg	1	☼	6010B	Total/NA
Nickel	29		0.58	0.17	mg/Kg	1	☼	6010B	Total/NA
Silver	0.23	J	0.29	0.075	mg/Kg	1	☼	6010B	Total/NA
Vanadium	34		0.29	0.069	mg/Kg	1	☼	6010B	Total/NA
Zinc	71	B	1.2	0.51	mg/Kg	1	☼	6010B	Total/NA
Potassium	1700		29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	580		58	8.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.65		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0032	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	290		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	130		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.69		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.1	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.47	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.7		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.035		0.020	0.0068	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.92		0.58	0.20	mg/Kg	1	☼	9014	Total/NA
pH	8.1		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2947V-17-B18 (0-5)

Lab Sample ID: 500-153500-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.011	J	0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.022	J	0.040	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.013	J	0.040	0.0087	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.014	J	0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.023	J	0.040	0.0075	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.022	J	0.040	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.014	J	0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153500-1

Client Sample ID: 2947V-17-B18 (0-5) (Continued)

Lab Sample ID: 500-153500-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	0.019	J	0.040	0.0080	mg/Kg	1	☼	8270D	Total/NA
Arsenic	8.4		0.60	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	150		0.60	0.068	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.72		0.24	0.056	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.29	B	0.12	0.022	mg/Kg	1	☼	6010B	Total/NA
Chromium	19		0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Cobalt	15		0.30	0.078	mg/Kg	1	☼	6010B	Total/NA
Copper	16		0.60	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	21000		12	6.2	mg/Kg	1	☼	6010B	Total/NA
Lead	20		0.30	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	3300		6.0	3.0	mg/Kg	1	☼	6010B	Total/NA
Calcium	3600	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	980		0.60	0.087	mg/Kg	1	☼	6010B	Total/NA
Nickel	27		0.60	0.17	mg/Kg	1	☼	6010B	Total/NA
Silver	0.34		0.30	0.077	mg/Kg	1	☼	6010B	Total/NA
Vanadium	31		0.30	0.071	mg/Kg	1	☼	6010B	Total/NA
Zinc	81	B	1.2	0.53	mg/Kg	1	☼	6010B	Total/NA
Potassium	2300		30	11	mg/Kg	1	☼	6010B	Total/NA
Sodium	720		60	8.9	mg/Kg	1	☼	6010B	Total/NA
Barium	0.24	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	58		5.0	0.50	mg/L	1		6010B	TCLP
Iron	0.20	J	0.40	0.20	mg/L	1		6010B	TCLP
Magnesium	20		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.020	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.78	J	2.5	0.50	mg/L	1		6010B	TCLP
Mercury	0.015	J	0.020	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	7.1		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2947V-17-B17 (0-5)

Lab Sample ID: 500-153500-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0071	J	0.041	0.0056	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.019	J	0.041	0.0081	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.012	J	0.041	0.0077	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0062	J	0.041	0.0058	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.010	J	0.041	0.0083	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.34	J	1.2	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.4		0.60	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	110		0.60	0.069	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.73		0.24	0.056	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.084	J B	0.12	0.022	mg/Kg	1	☼	6010B	Total/NA
Chromium	19		0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.30	0.079	mg/Kg	1	☼	6010B	Total/NA
Copper	15		0.60	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	20000		12	6.3	mg/Kg	1	☼	6010B	Total/NA
Lead	19		0.30	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	3500		6.0	3.0	mg/Kg	1	☼	6010B	Total/NA
Calcium	2300	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	620		0.60	0.087	mg/Kg	1	☼	6010B	Total/NA
Nickel	32		0.60	0.18	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153500-1

Client Sample ID: 2947V-17-B17 (0-5) (Continued)

Lab Sample ID: 500-153500-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Selenium	0.37	J	0.60	0.35	mg/Kg	1	☼	6010B	Total/NA
Silver	0.37		0.30	0.078	mg/Kg	1	☼	6010B	Total/NA
Vanadium	33		0.30	0.071	mg/Kg	1	☼	6010B	Total/NA
Zinc	75	B	1.2	0.53	mg/Kg	1	☼	6010B	Total/NA
Potassium	1500		30	11	mg/Kg	1	☼	6010B	Total/NA
Sodium	930		60	8.9	mg/Kg	1	☼	6010B	Total/NA
Barium	0.53		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	77		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	34		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.088		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.0	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.12	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.040		0.019	0.0064	mg/Kg	1	☼	7471B	Total/NA
pH	7.5		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2947V-17-B16 (0-5)

Lab Sample ID: 500-153500-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	0.019	J	0.041	0.0079	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.020	J	0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0058	J	0.041	0.0057	mg/Kg	1	☼	8270D	Total/NA
Arsenic	8.2		0.57	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	130		2.8	0.32	mg/Kg	5	☼	6010B	Total/NA
Beryllium	1.3		1.1	0.27	mg/Kg	5	☼	6010B	Total/NA
Cadmium	0.14	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	14		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.28	0.075	mg/Kg	1	☼	6010B	Total/NA
Copper	15		0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	30000		57	30	mg/Kg	5	☼	6010B	Total/NA
Lead	18		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	18000		28	14	mg/Kg	5	☼	6010B	Total/NA
Calcium	26000	B	57	9.6	mg/Kg	5	☼	6010B	Total/NA
Manganese	940		2.8	0.41	mg/Kg	5	☼	6010B	Total/NA
Nickel	33		0.57	0.17	mg/Kg	1	☼	6010B	Total/NA
Silver	0.35		0.28	0.073	mg/Kg	1	☼	6010B	Total/NA
Vanadium	24		0.28	0.067	mg/Kg	1	☼	6010B	Total/NA
Zinc	67	B	1.1	0.50	mg/Kg	1	☼	6010B	Total/NA
Potassium	2100		140	50	mg/Kg	5	☼	6010B	Total/NA
Sodium	850		280	42	mg/Kg	5	☼	6010B	Total/NA
Barium	0.75		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0027	J	0.0050	0.0020	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	0.42		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.010	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.4	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.9		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.040		0.020	0.0068	mg/Kg	1	☼	7471B	Total/NA
pH	7.5		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153500-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-153500-1	2947V-17-B20 (0-5)	Solid	10/19/18 08:55	10/19/18 11:55
500-153500-2	2947V-17-B19 (0-5)	Solid	10/19/18 09:15	10/19/18 11:55
500-153500-3	2947V-17-B18 (0-5)	Solid	10/19/18 09:35	10/19/18 11:55
500-153500-4	2947V-17-B17 (0-5)	Solid	10/19/18 10:00	10/19/18 11:55
500-153500-5	2947V-17-B16 (0-5)	Solid	10/19/18 10:20	10/19/18 11:55

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153500-1

Client Sample ID: 2947V-17-B20 (0-5)

Lab Sample ID: 500-153500-1

Date Collected: 10/19/18 08:55

Matrix: Solid

Date Received: 10/19/18 11:55

Percent Solids: 78.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0099		0.023	0.0099	mg/Kg	☼	10/19/18 17:43	10/28/18 03:36	1
Benzene	<0.00058		0.0023	0.00058	mg/Kg	☼	10/19/18 17:43	10/28/18 03:36	1
Bromodichloromethane	<0.00046		0.0023	0.00046	mg/Kg	☼	10/19/18 17:43	10/28/18 03:36	1
Bromoform	<0.00067		0.0023	0.00067	mg/Kg	☼	10/19/18 17:43	10/28/18 03:36	1
Bromomethane	<0.0022		0.0057	0.0022	mg/Kg	☼	10/19/18 17:43	10/28/18 03:36	1
2-Butanone (MEK)	<0.0025		0.0057	0.0025	mg/Kg	☼	10/19/18 17:43	10/28/18 03:36	1
Carbon disulfide	<0.0012		0.0057	0.0012	mg/Kg	☼	10/19/18 17:43	10/28/18 03:36	1
Carbon tetrachloride	<0.00066		0.0023	0.00066	mg/Kg	☼	10/19/18 17:43	10/28/18 03:36	1
Chlorobenzene	<0.00084		0.0023	0.00084	mg/Kg	☼	10/19/18 17:43	10/28/18 03:36	1
Chloroethane	<0.0017	*	0.0057	0.0017	mg/Kg	☼	10/19/18 17:43	10/28/18 03:36	1
Chloroform	<0.00079		0.0023	0.00079	mg/Kg	☼	10/19/18 17:43	10/28/18 03:36	1
Chloromethane	<0.0023		0.0057	0.0023	mg/Kg	☼	10/19/18 17:43	10/28/18 03:36	1
cis-1,2-Dichloroethene	<0.00064		0.0023	0.00064	mg/Kg	☼	10/19/18 17:43	10/28/18 03:36	1
cis-1,3-Dichloropropene	<0.00069		0.0023	0.00069	mg/Kg	☼	10/19/18 17:43	10/28/18 03:36	1
Dibromochloromethane	<0.00074		0.0023	0.00074	mg/Kg	☼	10/19/18 17:43	10/28/18 03:36	1
1,1-Dichloroethane	<0.00078		0.0023	0.00078	mg/Kg	☼	10/19/18 17:43	10/28/18 03:36	1
1,2-Dichloroethane	<0.0018		0.0057	0.0018	mg/Kg	☼	10/19/18 17:43	10/28/18 03:36	1
1,1-Dichloroethene	<0.00078		0.0023	0.00078	mg/Kg	☼	10/19/18 17:43	10/28/18 03:36	1
1,2-Dichloropropane	<0.00059		0.0023	0.00059	mg/Kg	☼	10/19/18 17:43	10/28/18 03:36	1
1,3-Dichloropropane, Total	<0.00080		0.0023	0.00080	mg/Kg	☼	10/19/18 17:43	10/28/18 03:36	1
Ethylbenzene	<0.0011		0.0023	0.0011	mg/Kg	☼	10/19/18 17:43	10/28/18 03:36	1
2-Hexanone	<0.0018		0.0057	0.0018	mg/Kg	☼	10/19/18 17:43	10/28/18 03:36	1
Methylene Chloride	<0.0022		0.0057	0.0022	mg/Kg	☼	10/19/18 17:43	10/28/18 03:36	1
4-Methyl-2-pentanone (MIBK)	<0.0017		0.0057	0.0017	mg/Kg	☼	10/19/18 17:43	10/28/18 03:36	1
Methyl tert-butyl ether	<0.00067		0.0023	0.00067	mg/Kg	☼	10/19/18 17:43	10/28/18 03:36	1
Styrene	<0.00069		0.0023	0.00069	mg/Kg	☼	10/19/18 17:43	10/28/18 03:36	1
1,1,2,2-Tetrachloroethane	<0.00073		0.0023	0.00073	mg/Kg	☼	10/19/18 17:43	10/28/18 03:36	1
Tetrachloroethene	<0.00078		0.0023	0.00078	mg/Kg	☼	10/19/18 17:43	10/28/18 03:36	1
Toluene	<0.00058		0.0023	0.00058	mg/Kg	☼	10/19/18 17:43	10/28/18 03:36	1
trans-1,2-Dichloroethene	<0.0010		0.0023	0.0010	mg/Kg	☼	10/19/18 17:43	10/28/18 03:36	1
trans-1,3-Dichloropropene	<0.00080		0.0023	0.00080	mg/Kg	☼	10/19/18 17:43	10/28/18 03:36	1
1,1,1-Trichloroethane	<0.00076		0.0023	0.00076	mg/Kg	☼	10/19/18 17:43	10/28/18 03:36	1
1,1,2-Trichloroethane	<0.00098		0.0023	0.00098	mg/Kg	☼	10/19/18 17:43	10/28/18 03:36	1
Trichloroethene	<0.00077		0.0023	0.00077	mg/Kg	☼	10/19/18 17:43	10/28/18 03:36	1
Vinyl acetate	<0.0020		0.0057	0.0020	mg/Kg	☼	10/19/18 17:43	10/28/18 03:36	1
Vinyl chloride	<0.0010		0.0023	0.0010	mg/Kg	☼	10/19/18 17:43	10/28/18 03:36	1
Xylenes, Total	<0.00073		0.0046	0.00073	mg/Kg	☼	10/19/18 17:43	10/28/18 03:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		75 - 131	10/19/18 17:43	10/28/18 03:36	1
Dibromofluoromethane	101		75 - 126	10/19/18 17:43	10/28/18 03:36	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 134	10/19/18 17:43	10/28/18 03:36	1
Toluene-d8 (Surr)	96		75 - 124	10/19/18 17:43	10/28/18 03:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0075		0.042	0.0075	mg/Kg	☼	10/26/18 07:03	10/28/18 20:35	1
Acenaphthylene	0.032	J	0.042	0.0055	mg/Kg	☼	10/26/18 07:03	10/28/18 20:35	1
Anthracene	0.015	J	0.042	0.0070	mg/Kg	☼	10/26/18 07:03	10/28/18 20:35	1
Benzo[a]anthracene	0.066		0.042	0.0056	mg/Kg	☼	10/26/18 07:03	10/28/18 20:35	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153500-1

Client Sample ID: 2947V-17-B20 (0-5)

Lab Sample ID: 500-153500-1

Date Collected: 10/19/18 08:55

Matrix: Solid

Date Received: 10/19/18 11:55

Percent Solids: 78.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.096		0.042	0.0081	mg/Kg	☼	10/26/18 07:03	10/28/18 20:35	1
Benzo[b]fluoranthene	0.12		0.042	0.0090	mg/Kg	☼	10/26/18 07:03	10/28/18 20:35	1
Benzo[g,h,i]perylene	0.069		0.042	0.013	mg/Kg	☼	10/26/18 07:03	10/28/18 20:35	1
Benzo[k]fluoranthene	0.045		0.042	0.012	mg/Kg	☼	10/26/18 07:03	10/28/18 20:35	1
Bis(2-chloroethoxy)methane	<0.043		0.21	0.043	mg/Kg	☼	10/26/18 07:03	10/28/18 20:35	1
Bis(2-chloroethyl)ether	<0.063		0.21	0.063	mg/Kg	☼	10/26/18 07:03	10/28/18 20:35	1
Bis(2-ethylhexyl) phthalate	<0.077		0.21	0.077	mg/Kg	☼	10/26/18 07:03	10/28/18 20:35	1
4-Bromophenyl phenyl ether	<0.055		0.21	0.055	mg/Kg	☼	10/26/18 07:03	10/28/18 20:35	1
Butyl benzyl phthalate	<0.080		0.21	0.080	mg/Kg	☼	10/26/18 07:03	10/28/18 20:35	1
Carbazole	<0.10		0.21	0.10	mg/Kg	☼	10/26/18 07:03	10/28/18 20:35	1
4-Chloroaniline	<0.20		0.85	0.20	mg/Kg	☼	10/26/18 07:03	10/28/18 20:35	1
4-Chloro-3-methylphenol	<0.14		0.42	0.14	mg/Kg	☼	10/26/18 07:03	10/28/18 20:35	1
2-Chloronaphthalene	<0.046		0.21	0.046	mg/Kg	☼	10/26/18 07:03	10/28/18 20:35	1
2-Chlorophenol	<0.072		0.21	0.072	mg/Kg	☼	10/26/18 07:03	10/28/18 20:35	1
4-Chlorophenyl phenyl ether	<0.049		0.21	0.049	mg/Kg	☼	10/26/18 07:03	10/28/18 20:35	1
Chrysene	0.076		0.042	0.011	mg/Kg	☼	10/26/18 07:03	10/28/18 20:35	1
Dibenz(a,h)anthracene	0.035 J		0.042	0.0081	mg/Kg	☼	10/26/18 07:03	10/28/18 20:35	1
Dibenzofuran	<0.049		0.21	0.049	mg/Kg	☼	10/26/18 07:03	10/28/18 20:35	1
1,2-Dichlorobenzene	<0.050		0.21	0.050	mg/Kg	☼	10/26/18 07:03	10/28/18 20:35	1
1,3-Dichlorobenzene	<0.047		0.21	0.047	mg/Kg	☼	10/26/18 07:03	10/28/18 20:35	1
1,4-Dichlorobenzene	<0.054		0.21	0.054	mg/Kg	☼	10/26/18 07:03	10/28/18 20:35	1
3,3'-Dichlorobenzidine	<0.059		0.21	0.059	mg/Kg	☼	10/26/18 07:03	10/28/18 20:35	1
2,4-Dichlorophenol	<0.10		0.42	0.10	mg/Kg	☼	10/26/18 07:03	10/28/18 20:35	1
Diethyl phthalate	<0.071		0.21	0.071	mg/Kg	☼	10/26/18 07:03	10/28/18 20:35	1
2,4-Dimethylphenol	<0.16		0.42	0.16	mg/Kg	☼	10/26/18 07:03	10/28/18 20:35	1
Dimethyl phthalate	<0.055		0.21	0.055	mg/Kg	☼	10/26/18 07:03	10/28/18 20:35	1
Di-n-butyl phthalate	<0.064		0.21	0.064	mg/Kg	☼	10/26/18 07:03	10/28/18 20:35	1
4,6-Dinitro-2-methylphenol	<0.34		0.85	0.34	mg/Kg	☼	10/26/18 07:03	10/28/18 20:35	1
2,4-Dinitrophenol	<0.74		0.85	0.74	mg/Kg	☼	10/26/18 07:03	10/28/18 20:35	1
2,4-Dinitrotoluene	<0.067		0.21	0.067	mg/Kg	☼	10/26/18 07:03	10/28/18 20:35	1
2,6-Dinitrotoluene	<0.082		0.21	0.082	mg/Kg	☼	10/26/18 07:03	10/28/18 20:35	1
Di-n-octyl phthalate	<0.068		0.21	0.068	mg/Kg	☼	10/26/18 07:03	10/28/18 20:35	1
Fluoranthene	0.098		0.042	0.0078	mg/Kg	☼	10/26/18 07:03	10/28/18 20:35	1
Fluorene	<0.0059		0.042	0.0059	mg/Kg	☼	10/26/18 07:03	10/28/18 20:35	1
Hexachlorobenzene	<0.0097		0.085	0.0097	mg/Kg	☼	10/26/18 07:03	10/28/18 20:35	1
Hexachlorobutadiene	<0.066		0.21	0.066	mg/Kg	☼	10/26/18 07:03	10/28/18 20:35	1
Hexachlorocyclopentadiene	<0.24		0.85	0.24	mg/Kg	☼	10/26/18 07:03	10/28/18 20:35	1
Hexachloroethane	<0.064		0.21	0.064	mg/Kg	☼	10/26/18 07:03	10/28/18 20:35	1
Indeno[1,2,3-cd]pyrene	0.070		0.042	0.011	mg/Kg	☼	10/26/18 07:03	10/28/18 20:35	1
Isophorone	<0.047		0.21	0.047	mg/Kg	☼	10/26/18 07:03	10/28/18 20:35	1
2-Methylnaphthalene	<0.0077		0.085	0.0077	mg/Kg	☼	10/26/18 07:03	10/28/18 20:35	1
2-Methylphenol	<0.067		0.21	0.067	mg/Kg	☼	10/26/18 07:03	10/28/18 20:35	1
3 & 4 Methylphenol	<0.070		0.21	0.070	mg/Kg	☼	10/26/18 07:03	10/28/18 20:35	1
Naphthalene	<0.0064		0.042	0.0064	mg/Kg	☼	10/26/18 07:03	10/28/18 20:35	1
2-Nitroaniline	<0.056		0.21	0.056	mg/Kg	☼	10/26/18 07:03	10/28/18 20:35	1
3-Nitroaniline	<0.13		0.42	0.13	mg/Kg	☼	10/26/18 07:03	10/28/18 20:35	1
4-Nitroaniline	<0.18		0.42	0.18	mg/Kg	☼	10/26/18 07:03	10/28/18 20:35	1
Nitrobenzene	<0.010		0.042	0.010	mg/Kg	☼	10/26/18 07:03	10/28/18 20:35	1
2-Nitrophenol	<0.099		0.42	0.099	mg/Kg	☼	10/26/18 07:03	10/28/18 20:35	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153500-1

Client Sample ID: 2947V-17-B20 (0-5)

Lab Sample ID: 500-153500-1

Date Collected: 10/19/18 08:55

Matrix: Solid

Date Received: 10/19/18 11:55

Percent Solids: 78.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.40		0.85	0.40	mg/Kg	☼	10/26/18 07:03	10/28/18 20:35	1
N-Nitrosodi-n-propylamine	<0.051		0.085	0.051	mg/Kg	☼	10/26/18 07:03	10/28/18 20:35	1
N-Nitrosodiphenylamine	<0.049		0.21	0.049	mg/Kg	☼	10/26/18 07:03	10/28/18 20:35	1
2,2'-oxybis[1-chloropropane]	<0.049		0.21	0.049	mg/Kg	☼	10/26/18 07:03	10/28/18 20:35	1
Pentachlorophenol	<0.67		0.85	0.67	mg/Kg	☼	10/26/18 07:03	10/28/18 20:35	1
Phenanthrene	0.034	J	0.042	0.0058	mg/Kg	☼	10/26/18 07:03	10/28/18 20:35	1
Phenol	<0.093		0.21	0.093	mg/Kg	☼	10/26/18 07:03	10/28/18 20:35	1
Pyrene	0.088		0.042	0.0083	mg/Kg	☼	10/26/18 07:03	10/28/18 20:35	1
1,2,4-Trichlorobenzene	<0.045		0.21	0.045	mg/Kg	☼	10/26/18 07:03	10/28/18 20:35	1
2,4,5-Trichlorophenol	<0.096		0.42	0.096	mg/Kg	☼	10/26/18 07:03	10/28/18 20:35	1
2,4,6-Trichlorophenol	<0.14		0.42	0.14	mg/Kg	☼	10/26/18 07:03	10/28/18 20:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	87		43 - 145	10/26/18 07:03	10/28/18 20:35	1
2-Fluorophenol	116		31 - 166	10/26/18 07:03	10/28/18 20:35	1
Nitrobenzene-d5	81		37 - 147	10/26/18 07:03	10/28/18 20:35	1
Phenol-d5	106		30 - 153	10/26/18 07:03	10/28/18 20:35	1
Terphenyl-d14	94		42 - 157	10/26/18 07:03	10/28/18 20:35	1
2,4,6-Tribromophenol	55		31 - 143	10/26/18 07:03	10/28/18 20:35	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.35	J	1.2	0.24	mg/Kg	☼	10/25/18 17:55	10/26/18 23:56	1
Arsenic	7.1		0.62	0.21	mg/Kg	☼	10/25/18 17:55	10/26/18 23:56	1
Barium	88		0.62	0.071	mg/Kg	☼	10/25/18 17:55	10/26/18 23:56	1
Beryllium	0.68		0.25	0.058	mg/Kg	☼	10/25/18 17:55	10/26/18 23:56	1
Cadmium	0.20	B	0.12	0.022	mg/Kg	☼	10/25/18 17:55	10/26/18 23:56	1
Chromium	15		0.62	0.31	mg/Kg	☼	10/25/18 17:55	10/26/18 23:56	1
Cobalt	10		0.31	0.081	mg/Kg	☼	10/25/18 17:55	10/26/18 23:56	1
Copper	14		0.62	0.17	mg/Kg	☼	10/25/18 17:55	10/26/18 23:56	1
Iron	17000		12	6.5	mg/Kg	☼	10/25/18 17:55	10/26/18 23:56	1
Lead	25		0.31	0.14	mg/Kg	☼	10/25/18 17:55	10/26/18 23:56	1
Magnesium	21000		6.2	3.1	mg/Kg	☼	10/25/18 17:55	10/26/18 23:56	1
Calcium	32000	B	12	2.1	mg/Kg	☼	10/25/18 17:55	10/26/18 23:56	1
Manganese	570		0.62	0.090	mg/Kg	☼	10/25/18 17:55	10/26/18 23:56	1
Nickel	26		0.62	0.18	mg/Kg	☼	10/25/18 17:55	10/26/18 23:56	1
Selenium	<0.37		0.62	0.37	mg/Kg	☼	10/25/18 17:55	10/26/18 23:56	1
Silver	0.26	J	0.31	0.080	mg/Kg	☼	10/25/18 17:55	10/26/18 23:56	1
Thallium	<0.31		0.62	0.31	mg/Kg	☼	10/25/18 17:55	10/26/18 23:56	1
Vanadium	26		0.31	0.073	mg/Kg	☼	10/25/18 17:55	10/26/18 23:56	1
Zinc	68	B	1.2	0.55	mg/Kg	☼	10/25/18 17:55	10/26/18 23:56	1
Potassium	1700		31	11	mg/Kg	☼	10/25/18 17:55	10/26/18 23:56	1
Sodium	500		62	9.2	mg/Kg	☼	10/25/18 17:55	10/26/18 23:56	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		10/29/18 08:56	10/29/18 16:02	1
Barium	0.71		0.50	0.050	mg/L		10/29/18 08:56	10/29/18 16:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/29/18 08:56	10/29/18 16:02	1
Cadmium	0.0034	J	0.0050	0.0020	mg/L		10/29/18 08:56	10/29/18 16:02	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153500-1

Client Sample ID: 2947V-17-B20 (0-5)

Lab Sample ID: 500-153500-1

Date Collected: 10/19/18 08:55

Matrix: Solid

Date Received: 10/19/18 11:55

Percent Solids: 78.7

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		10/29/18 08:56	10/29/18 16:02	1
Chromium	<0.010		0.025	0.010	mg/L		10/29/18 08:56	10/29/18 16:02	1
Cobalt	<0.010		0.025	0.010	mg/L		10/29/18 08:56	10/29/18 16:02	1
Copper	<0.010		0.025	0.010	mg/L		10/29/18 08:56	10/29/18 16:02	1
Iron	<0.20		0.40	0.20	mg/L		10/29/18 08:56	10/29/18 16:02	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/29/18 08:56	10/29/18 16:02	1
Magnesium	160		2.5	0.50	mg/L		10/29/18 08:56	10/29/18 16:02	1
Manganese	2.4		0.025	0.010	mg/L		10/29/18 08:56	10/29/18 16:02	1
Nickel	0.019	J	0.025	0.010	mg/L		10/29/18 08:56	10/29/18 16:02	1
Potassium	1.1	J	2.5	0.50	mg/L		10/29/18 08:56	10/29/18 16:02	1
Selenium	<0.020		0.050	0.020	mg/L		10/29/18 08:56	10/29/18 16:02	1
Silver	<0.010		0.025	0.010	mg/L		10/29/18 08:56	10/29/18 16:02	1
Vanadium	<0.010		0.025	0.010	mg/L		10/29/18 08:56	10/29/18 16:02	1
Zinc	0.024	J	0.50	0.020	mg/L		10/29/18 08:56	10/29/18 16:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	2.2		0.025	0.010	mg/L		10/29/18 08:53	10/29/18 19:01	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		10/29/18 08:56	10/29/18 16:05	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/29/18 08:56	10/29/18 16:05	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		10/26/18 11:15	10/29/18 09:32	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034		0.020	0.0067	mg/Kg	☼	10/25/18 17:20	10/26/18 10:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.21		0.62	0.21	mg/Kg	☼	10/30/18 18:00	10/31/18 12:08	1
pH	8.0		0.2	0.2	SU			10/26/18 14:57	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153500-1

Client Sample ID: 2947V-17-B19 (0-5)

Lab Sample ID: 500-153500-2

Date Collected: 10/19/18 09:15

Matrix: Solid

Date Received: 10/19/18 11:55

Percent Solids: 78.7

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	☼	10/19/18 17:43	10/28/18 04:02	1
Benzene	<0.00050		0.0020	0.00050	mg/Kg	☼	10/19/18 17:43	10/28/18 04:02	1
Bromodichloromethane	<0.00040		0.0020	0.00040	mg/Kg	☼	10/19/18 17:43	10/28/18 04:02	1
Bromoform	<0.00057		0.0020	0.00057	mg/Kg	☼	10/19/18 17:43	10/28/18 04:02	1
Bromomethane	<0.0018		0.0049	0.0018	mg/Kg	☼	10/19/18 17:43	10/28/18 04:02	1
2-Butanone (MEK)	<0.0022		0.0049	0.0022	mg/Kg	☼	10/19/18 17:43	10/28/18 04:02	1
Carbon disulfide	<0.0010		0.0049	0.0010	mg/Kg	☼	10/19/18 17:43	10/28/18 04:02	1
Carbon tetrachloride	<0.00057		0.0020	0.00057	mg/Kg	☼	10/19/18 17:43	10/28/18 04:02	1
Chlorobenzene	<0.00072		0.0020	0.00072	mg/Kg	☼	10/19/18 17:43	10/28/18 04:02	1
Chloroethane	<0.0014 *		0.0049	0.0014	mg/Kg	☼	10/19/18 17:43	10/28/18 04:02	1
Chloroform	<0.00068		0.0020	0.00068	mg/Kg	☼	10/19/18 17:43	10/28/18 04:02	1
Chloromethane	<0.0020		0.0049	0.0020	mg/Kg	☼	10/19/18 17:43	10/28/18 04:02	1
cis-1,2-Dichloroethene	<0.00055		0.0020	0.00055	mg/Kg	☼	10/19/18 17:43	10/28/18 04:02	1
cis-1,3-Dichloropropene	<0.00059		0.0020	0.00059	mg/Kg	☼	10/19/18 17:43	10/28/18 04:02	1
Dibromochloromethane	<0.00064		0.0020	0.00064	mg/Kg	☼	10/19/18 17:43	10/28/18 04:02	1
1,1-Dichloroethane	<0.00067		0.0020	0.00067	mg/Kg	☼	10/19/18 17:43	10/28/18 04:02	1
1,2-Dichloroethane	<0.0015		0.0049	0.0015	mg/Kg	☼	10/19/18 17:43	10/28/18 04:02	1
1,1-Dichloroethene	<0.00067		0.0020	0.00067	mg/Kg	☼	10/19/18 17:43	10/28/18 04:02	1
1,2-Dichloropropane	<0.00051		0.0020	0.00051	mg/Kg	☼	10/19/18 17:43	10/28/18 04:02	1
1,3-Dichloropropene, Total	<0.00069		0.0020	0.00069	mg/Kg	☼	10/19/18 17:43	10/28/18 04:02	1
Ethylbenzene	<0.00094		0.0020	0.00094	mg/Kg	☼	10/19/18 17:43	10/28/18 04:02	1
2-Hexanone	<0.0015		0.0049	0.0015	mg/Kg	☼	10/19/18 17:43	10/28/18 04:02	1
Methylene Chloride	<0.0019		0.0049	0.0019	mg/Kg	☼	10/19/18 17:43	10/28/18 04:02	1
4-Methyl-2-pentanone (MIBK)	<0.0014		0.0049	0.0014	mg/Kg	☼	10/19/18 17:43	10/28/18 04:02	1
Methyl tert-butyl ether	<0.00057		0.0020	0.00057	mg/Kg	☼	10/19/18 17:43	10/28/18 04:02	1
Styrene	<0.00059		0.0020	0.00059	mg/Kg	☼	10/19/18 17:43	10/28/18 04:02	1
1,1,2,2-Tetrachloroethane	<0.00063		0.0020	0.00063	mg/Kg	☼	10/19/18 17:43	10/28/18 04:02	1
Tetrachloroethene	<0.00067		0.0020	0.00067	mg/Kg	☼	10/19/18 17:43	10/28/18 04:02	1
Toluene	<0.00049		0.0020	0.00049	mg/Kg	☼	10/19/18 17:43	10/28/18 04:02	1
trans-1,2-Dichloroethene	<0.00087		0.0020	0.00087	mg/Kg	☼	10/19/18 17:43	10/28/18 04:02	1
trans-1,3-Dichloropropene	<0.00069		0.0020	0.00069	mg/Kg	☼	10/19/18 17:43	10/28/18 04:02	1
1,1,1-Trichloroethane	<0.00066		0.0020	0.00066	mg/Kg	☼	10/19/18 17:43	10/28/18 04:02	1
1,1,2-Trichloroethane	<0.00084		0.0020	0.00084	mg/Kg	☼	10/19/18 17:43	10/28/18 04:02	1
Trichloroethene	<0.00066		0.0020	0.00066	mg/Kg	☼	10/19/18 17:43	10/28/18 04:02	1
Vinyl acetate	<0.0017		0.0049	0.0017	mg/Kg	☼	10/19/18 17:43	10/28/18 04:02	1
Vinyl chloride	<0.00087		0.0020	0.00087	mg/Kg	☼	10/19/18 17:43	10/28/18 04:02	1
Xylenes, Total	<0.00063		0.0039	0.00063	mg/Kg	☼	10/19/18 17:43	10/28/18 04:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		75 - 131	10/19/18 17:43	10/28/18 04:02	1
Dibromofluoromethane	100		75 - 126	10/19/18 17:43	10/28/18 04:02	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	10/19/18 17:43	10/28/18 04:02	1
Toluene-d8 (Surr)	97		75 - 124	10/19/18 17:43	10/28/18 04:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0075		0.042	0.0075	mg/Kg	☼	10/26/18 07:03	10/28/18 21:02	1
Acenaphthylene	0.0082	J	0.042	0.0055	mg/Kg	☼	10/26/18 07:03	10/28/18 21:02	1
Anthracene	0.0072	J	0.042	0.0070	mg/Kg	☼	10/26/18 07:03	10/28/18 21:02	1
Benzo[a]anthracene	0.026	J	0.042	0.0056	mg/Kg	☼	10/26/18 07:03	10/28/18 21:02	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153500-1

Client Sample ID: 2947V-17-B19 (0-5)

Lab Sample ID: 500-153500-2

Date Collected: 10/19/18 09:15

Matrix: Solid

Date Received: 10/19/18 11:55

Percent Solids: 78.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.040	J	0.042	0.0081	mg/Kg	☼	10/26/18 07:03	10/28/18 21:02	1
Benzo[b]fluoranthene	0.036	J	0.042	0.0091	mg/Kg	☼	10/26/18 07:03	10/28/18 21:02	1
Benzo[g,h,i]perylene	0.031	J	0.042	0.014	mg/Kg	☼	10/26/18 07:03	10/28/18 21:02	1
Benzo[k]fluoranthene	0.018	J	0.042	0.012	mg/Kg	☼	10/26/18 07:03	10/28/18 21:02	1
Bis(2-chloroethoxy)methane	<0.043		0.21	0.043	mg/Kg	☼	10/26/18 07:03	10/28/18 21:02	1
Bis(2-chloroethyl)ether	<0.063		0.21	0.063	mg/Kg	☼	10/26/18 07:03	10/28/18 21:02	1
Bis(2-ethylhexyl) phthalate	<0.077		0.21	0.077	mg/Kg	☼	10/26/18 07:03	10/28/18 21:02	1
4-Bromophenyl phenyl ether	<0.055		0.21	0.055	mg/Kg	☼	10/26/18 07:03	10/28/18 21:02	1
Butyl benzyl phthalate	<0.080		0.21	0.080	mg/Kg	☼	10/26/18 07:03	10/28/18 21:02	1
Carbazole	<0.10		0.21	0.10	mg/Kg	☼	10/26/18 07:03	10/28/18 21:02	1
4-Chloroaniline	<0.20		0.85	0.20	mg/Kg	☼	10/26/18 07:03	10/28/18 21:02	1
4-Chloro-3-methylphenol	<0.14		0.42	0.14	mg/Kg	☼	10/26/18 07:03	10/28/18 21:02	1
2-Chloronaphthalene	<0.046		0.21	0.046	mg/Kg	☼	10/26/18 07:03	10/28/18 21:02	1
2-Chlorophenol	<0.072		0.21	0.072	mg/Kg	☼	10/26/18 07:03	10/28/18 21:02	1
4-Chlorophenyl phenyl ether	<0.049		0.21	0.049	mg/Kg	☼	10/26/18 07:03	10/28/18 21:02	1
Chrysene	0.033	J	0.042	0.011	mg/Kg	☼	10/26/18 07:03	10/28/18 21:02	1
Dibenz(a,h)anthracene	<0.0081		0.042	0.0081	mg/Kg	☼	10/26/18 07:03	10/28/18 21:02	1
Dibenzofuran	<0.049		0.21	0.049	mg/Kg	☼	10/26/18 07:03	10/28/18 21:02	1
1,2-Dichlorobenzene	<0.050		0.21	0.050	mg/Kg	☼	10/26/18 07:03	10/28/18 21:02	1
1,3-Dichlorobenzene	<0.047		0.21	0.047	mg/Kg	☼	10/26/18 07:03	10/28/18 21:02	1
1,4-Dichlorobenzene	<0.054		0.21	0.054	mg/Kg	☼	10/26/18 07:03	10/28/18 21:02	1
3,3'-Dichlorobenzidine	<0.059		0.21	0.059	mg/Kg	☼	10/26/18 07:03	10/28/18 21:02	1
2,4-Dichlorophenol	<0.10		0.42	0.10	mg/Kg	☼	10/26/18 07:03	10/28/18 21:02	1
Diethyl phthalate	<0.071		0.21	0.071	mg/Kg	☼	10/26/18 07:03	10/28/18 21:02	1
2,4-Dimethylphenol	<0.16		0.42	0.16	mg/Kg	☼	10/26/18 07:03	10/28/18 21:02	1
Dimethyl phthalate	<0.055		0.21	0.055	mg/Kg	☼	10/26/18 07:03	10/28/18 21:02	1
Di-n-butyl phthalate	<0.064		0.21	0.064	mg/Kg	☼	10/26/18 07:03	10/28/18 21:02	1
4,6-Dinitro-2-methylphenol	<0.34		0.85	0.34	mg/Kg	☼	10/26/18 07:03	10/28/18 21:02	1
2,4-Dinitrophenol	<0.74		0.85	0.74	mg/Kg	☼	10/26/18 07:03	10/28/18 21:02	1
2,4-Dinitrotoluene	<0.067		0.21	0.067	mg/Kg	☼	10/26/18 07:03	10/28/18 21:02	1
2,6-Dinitrotoluene	<0.082		0.21	0.082	mg/Kg	☼	10/26/18 07:03	10/28/18 21:02	1
Di-n-octyl phthalate	<0.068		0.21	0.068	mg/Kg	☼	10/26/18 07:03	10/28/18 21:02	1
Fluoranthene	0.044		0.042	0.0078	mg/Kg	☼	10/26/18 07:03	10/28/18 21:02	1
Fluorene	<0.0059		0.042	0.0059	mg/Kg	☼	10/26/18 07:03	10/28/18 21:02	1
Hexachlorobenzene	<0.0097		0.085	0.0097	mg/Kg	☼	10/26/18 07:03	10/28/18 21:02	1
Hexachlorobutadiene	<0.066		0.21	0.066	mg/Kg	☼	10/26/18 07:03	10/28/18 21:02	1
Hexachlorocyclopentadiene	<0.24		0.85	0.24	mg/Kg	☼	10/26/18 07:03	10/28/18 21:02	1
Hexachloroethane	<0.064		0.21	0.064	mg/Kg	☼	10/26/18 07:03	10/28/18 21:02	1
Indeno[1,2,3-cd]pyrene	0.033	J	0.042	0.011	mg/Kg	☼	10/26/18 07:03	10/28/18 21:02	1
Isophorone	<0.047		0.21	0.047	mg/Kg	☼	10/26/18 07:03	10/28/18 21:02	1
2-Methylnaphthalene	<0.0077		0.085	0.0077	mg/Kg	☼	10/26/18 07:03	10/28/18 21:02	1
2-Methylphenol	<0.067		0.21	0.067	mg/Kg	☼	10/26/18 07:03	10/28/18 21:02	1
3 & 4 Methylphenol	<0.070		0.21	0.070	mg/Kg	☼	10/26/18 07:03	10/28/18 21:02	1
Naphthalene	<0.0065		0.042	0.0065	mg/Kg	☼	10/26/18 07:03	10/28/18 21:02	1
2-Nitroaniline	<0.056		0.21	0.056	mg/Kg	☼	10/26/18 07:03	10/28/18 21:02	1
3-Nitroaniline	<0.13		0.42	0.13	mg/Kg	☼	10/26/18 07:03	10/28/18 21:02	1
4-Nitroaniline	<0.18		0.42	0.18	mg/Kg	☼	10/26/18 07:03	10/28/18 21:02	1
Nitrobenzene	<0.010		0.042	0.010	mg/Kg	☼	10/26/18 07:03	10/28/18 21:02	1
2-Nitrophenol	<0.099		0.42	0.099	mg/Kg	☼	10/26/18 07:03	10/28/18 21:02	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153500-1

Client Sample ID: 2947V-17-B19 (0-5)

Lab Sample ID: 500-153500-2

Date Collected: 10/19/18 09:15

Matrix: Solid

Date Received: 10/19/18 11:55

Percent Solids: 78.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.40		0.85	0.40	mg/Kg	☼	10/26/18 07:03	10/28/18 21:02	1
N-Nitrosodi-n-propylamine	<0.051		0.085	0.051	mg/Kg	☼	10/26/18 07:03	10/28/18 21:02	1
N-Nitrosodiphenylamine	<0.050		0.21	0.050	mg/Kg	☼	10/26/18 07:03	10/28/18 21:02	1
2,2'-oxybis[1-chloropropane]	<0.049		0.21	0.049	mg/Kg	☼	10/26/18 07:03	10/28/18 21:02	1
Pentachlorophenol	<0.67		0.85	0.67	mg/Kg	☼	10/26/18 07:03	10/28/18 21:02	1
Phenanthrene	0.025	J	0.042	0.0058	mg/Kg	☼	10/26/18 07:03	10/28/18 21:02	1
Phenol	<0.093		0.21	0.093	mg/Kg	☼	10/26/18 07:03	10/28/18 21:02	1
Pyrene	0.041	J	0.042	0.0083	mg/Kg	☼	10/26/18 07:03	10/28/18 21:02	1
1,2,4-Trichlorobenzene	<0.045		0.21	0.045	mg/Kg	☼	10/26/18 07:03	10/28/18 21:02	1
2,4,5-Trichlorophenol	<0.096		0.42	0.096	mg/Kg	☼	10/26/18 07:03	10/28/18 21:02	1
2,4,6-Trichlorophenol	<0.14		0.42	0.14	mg/Kg	☼	10/26/18 07:03	10/28/18 21:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	104		43 - 145	10/26/18 07:03	10/28/18 21:02	1
2-Fluorophenol	143		31 - 166	10/26/18 07:03	10/28/18 21:02	1
Nitrobenzene-d5	99		37 - 147	10/26/18 07:03	10/28/18 21:02	1
Phenol-d5	133		30 - 153	10/26/18 07:03	10/28/18 21:02	1
Terphenyl-d14	113		42 - 157	10/26/18 07:03	10/28/18 21:02	1
2,4,6-Tribromophenol	65		31 - 143	10/26/18 07:03	10/28/18 21:02	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.34	J	1.2	0.23	mg/Kg	☼	10/25/18 17:55	10/27/18 00:00	1
Arsenic	9.8		0.58	0.20	mg/Kg	☼	10/25/18 17:55	10/27/18 00:00	1
Barium	92		0.58	0.067	mg/Kg	☼	10/25/18 17:55	10/27/18 00:00	1
Beryllium	0.79		0.23	0.055	mg/Kg	☼	10/25/18 17:55	10/27/18 00:00	1
Cadmium	0.15	B	0.12	0.021	mg/Kg	☼	10/25/18 17:55	10/27/18 00:00	1
Chromium	20		0.58	0.29	mg/Kg	☼	10/25/18 17:55	10/27/18 00:00	1
Cobalt	12		0.29	0.077	mg/Kg	☼	10/25/18 17:55	10/27/18 00:00	1
Copper	22		0.58	0.16	mg/Kg	☼	10/25/18 17:55	10/27/18 00:00	1
Iron	23000		12	6.1	mg/Kg	☼	10/25/18 17:55	10/27/18 00:00	1
Lead	33		0.29	0.14	mg/Kg	☼	10/25/18 17:55	10/27/18 00:00	1
Magnesium	9500		5.8	2.9	mg/Kg	☼	10/25/18 17:55	10/27/18 00:00	1
Calcium	14000	B	12	2.0	mg/Kg	☼	10/25/18 17:55	10/27/18 00:00	1
Manganese	560		0.58	0.085	mg/Kg	☼	10/25/18 17:55	10/27/18 00:00	1
Nickel	29		0.58	0.17	mg/Kg	☼	10/25/18 17:55	10/27/18 00:00	1
Selenium	<0.34		0.58	0.34	mg/Kg	☼	10/25/18 17:55	10/27/18 00:00	1
Silver	0.23	J	0.29	0.075	mg/Kg	☼	10/25/18 17:55	10/27/18 00:00	1
Thallium	<0.29		0.58	0.29	mg/Kg	☼	10/25/18 17:55	10/27/18 00:00	1
Vanadium	34		0.29	0.069	mg/Kg	☼	10/25/18 17:55	10/27/18 00:00	1
Zinc	71	B	1.2	0.51	mg/Kg	☼	10/25/18 17:55	10/27/18 00:00	1
Potassium	1700		29	10	mg/Kg	☼	10/25/18 17:55	10/27/18 00:00	1
Sodium	580		58	8.7	mg/Kg	☼	10/25/18 17:55	10/27/18 00:00	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		10/29/18 08:56	10/29/18 16:07	1
Barium	0.65		0.50	0.050	mg/L		10/29/18 08:56	10/29/18 16:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/29/18 08:56	10/29/18 16:07	1
Cadmium	0.0032	J	0.0050	0.0020	mg/L		10/29/18 08:56	10/29/18 16:07	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153500-1

Client Sample ID: 2947V-17-B19 (0-5)

Lab Sample ID: 500-153500-2

Date Collected: 10/19/18 09:15

Matrix: Solid

Date Received: 10/19/18 11:55

Percent Solids: 78.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	290		5.0	0.50	mg/L		10/29/18 08:56	10/29/18 16:07	1
Chromium	<0.010		0.025	0.010	mg/L		10/29/18 08:56	10/29/18 16:07	1
Cobalt	<0.010		0.025	0.010	mg/L		10/29/18 08:56	10/29/18 16:07	1
Copper	<0.010		0.025	0.010	mg/L		10/29/18 08:56	10/29/18 16:07	1
Iron	<0.20		0.40	0.20	mg/L		10/29/18 08:56	10/29/18 16:07	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/29/18 08:56	10/29/18 16:07	1
Magnesium	130		2.5	0.50	mg/L		10/29/18 08:56	10/29/18 16:07	1
Manganese	0.69		0.025	0.010	mg/L		10/29/18 08:56	10/29/18 16:07	1
Nickel	<0.010		0.025	0.010	mg/L		10/29/18 08:56	10/29/18 16:07	1
Potassium	1.1 J		2.5	0.50	mg/L		10/29/18 08:56	10/29/18 16:07	1
Selenium	<0.020		0.050	0.020	mg/L		10/29/18 08:56	10/29/18 16:07	1
Silver	<0.010		0.025	0.010	mg/L		10/29/18 08:56	10/29/18 16:07	1
Vanadium	<0.010		0.025	0.010	mg/L		10/29/18 08:56	10/29/18 16:07	1
Zinc	0.47 J		0.50	0.020	mg/L		10/29/18 08:56	10/29/18 16:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.7		0.025	0.010	mg/L		10/29/18 08:53	10/29/18 19:17	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		10/29/18 08:56	10/29/18 16:06	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/29/18 08:56	10/29/18 16:06	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		10/26/18 11:15	10/29/18 09:34	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.020	0.0068	mg/Kg	☼	10/25/18 17:20	10/26/18 10:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.92		0.58	0.20	mg/Kg	☼	10/30/18 18:00	10/31/18 12:08	1
pH	8.1		0.2	0.2	SU			10/26/18 15:00	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153500-1

Client Sample ID: 2947V-17-B18 (0-5)

Lab Sample ID: 500-153500-3

Date Collected: 10/19/18 09:35

Matrix: Solid

Date Received: 10/19/18 11:55

Percent Solids: 82.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0098		0.023	0.0098	mg/Kg	☼	10/19/18 17:43	10/28/18 04:27	1
Benzene	<0.00057		0.0023	0.00057	mg/Kg	☼	10/19/18 17:43	10/28/18 04:27	1
Bromodichloromethane	<0.00046		0.0023	0.00046	mg/Kg	☼	10/19/18 17:43	10/28/18 04:27	1
Bromoform	<0.00066		0.0023	0.00066	mg/Kg	☼	10/19/18 17:43	10/28/18 04:27	1
Bromomethane	<0.0021		0.0056	0.0021	mg/Kg	☼	10/19/18 17:43	10/28/18 04:27	1
2-Butanone (MEK)	<0.0025		0.0056	0.0025	mg/Kg	☼	10/19/18 17:43	10/28/18 04:27	1
Carbon disulfide	<0.0012		0.0056	0.0012	mg/Kg	☼	10/19/18 17:43	10/28/18 04:27	1
Carbon tetrachloride	<0.00065		0.0023	0.00065	mg/Kg	☼	10/19/18 17:43	10/28/18 04:27	1
Chlorobenzene	<0.00083		0.0023	0.00083	mg/Kg	☼	10/19/18 17:43	10/28/18 04:27	1
Chloroethane	<0.0017	*	0.0056	0.0017	mg/Kg	☼	10/19/18 17:43	10/28/18 04:27	1
Chloroform	<0.00078		0.0023	0.00078	mg/Kg	☼	10/19/18 17:43	10/28/18 04:27	1
Chloromethane	<0.0023		0.0056	0.0023	mg/Kg	☼	10/19/18 17:43	10/28/18 04:27	1
cis-1,2-Dichloroethene	<0.00063		0.0023	0.00063	mg/Kg	☼	10/19/18 17:43	10/28/18 04:27	1
cis-1,3-Dichloropropene	<0.00068		0.0023	0.00068	mg/Kg	☼	10/19/18 17:43	10/28/18 04:27	1
Dibromochloromethane	<0.00074		0.0023	0.00074	mg/Kg	☼	10/19/18 17:43	10/28/18 04:27	1
1,1-Dichloroethane	<0.00077		0.0023	0.00077	mg/Kg	☼	10/19/18 17:43	10/28/18 04:27	1
1,2-Dichloroethane	<0.0018		0.0056	0.0018	mg/Kg	☼	10/19/18 17:43	10/28/18 04:27	1
1,1-Dichloroethene	<0.00078		0.0023	0.00078	mg/Kg	☼	10/19/18 17:43	10/28/18 04:27	1
1,2-Dichloropropane	<0.00058		0.0023	0.00058	mg/Kg	☼	10/19/18 17:43	10/28/18 04:27	1
1,3-Dichloropropene, Total	<0.00079		0.0023	0.00079	mg/Kg	☼	10/19/18 17:43	10/28/18 04:27	1
Ethylbenzene	<0.0011		0.0023	0.0011	mg/Kg	☼	10/19/18 17:43	10/28/18 04:27	1
2-Hexanone	<0.0018		0.0056	0.0018	mg/Kg	☼	10/19/18 17:43	10/28/18 04:27	1
Methylene Chloride	<0.0022		0.0056	0.0022	mg/Kg	☼	10/19/18 17:43	10/28/18 04:27	1
4-Methyl-2-pentanone (MIBK)	<0.0017		0.0056	0.0017	mg/Kg	☼	10/19/18 17:43	10/28/18 04:27	1
Methyl tert-butyl ether	<0.00066		0.0023	0.00066	mg/Kg	☼	10/19/18 17:43	10/28/18 04:27	1
Styrene	<0.00068		0.0023	0.00068	mg/Kg	☼	10/19/18 17:43	10/28/18 04:27	1
1,1,2,2-Tetrachloroethane	<0.00072		0.0023	0.00072	mg/Kg	☼	10/19/18 17:43	10/28/18 04:27	1
Tetrachloroethene	<0.00077		0.0023	0.00077	mg/Kg	☼	10/19/18 17:43	10/28/18 04:27	1
Toluene	<0.00057		0.0023	0.00057	mg/Kg	☼	10/19/18 17:43	10/28/18 04:27	1
trans-1,2-Dichloroethene	<0.0010		0.0023	0.0010	mg/Kg	☼	10/19/18 17:43	10/28/18 04:27	1
trans-1,3-Dichloropropene	<0.00079		0.0023	0.00079	mg/Kg	☼	10/19/18 17:43	10/28/18 04:27	1
1,1,1-Trichloroethane	<0.00076		0.0023	0.00076	mg/Kg	☼	10/19/18 17:43	10/28/18 04:27	1
1,1,2-Trichloroethane	<0.00097		0.0023	0.00097	mg/Kg	☼	10/19/18 17:43	10/28/18 04:27	1
Trichloroethene	<0.00076		0.0023	0.00076	mg/Kg	☼	10/19/18 17:43	10/28/18 04:27	1
Vinyl acetate	<0.0020		0.0056	0.0020	mg/Kg	☼	10/19/18 17:43	10/28/18 04:27	1
Vinyl chloride	<0.0010		0.0023	0.0010	mg/Kg	☼	10/19/18 17:43	10/28/18 04:27	1
Xylenes, Total	<0.00072		0.0045	0.00072	mg/Kg	☼	10/19/18 17:43	10/28/18 04:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		75 - 131	10/19/18 17:43	10/28/18 04:27	1
Dibromofluoromethane	101		75 - 126	10/19/18 17:43	10/28/18 04:27	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 134	10/19/18 17:43	10/28/18 04:27	1
Toluene-d8 (Surr)	99		75 - 124	10/19/18 17:43	10/28/18 04:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0072		0.040	0.0072	mg/Kg	☼	10/26/18 07:03	10/28/18 17:28	1
Acenaphthylene	<0.0053		0.040	0.0053	mg/Kg	☼	10/26/18 07:03	10/28/18 17:28	1
Anthracene	<0.0067		0.040	0.0067	mg/Kg	☼	10/26/18 07:03	10/28/18 17:28	1
Benzo[a]anthracene	0.011	J	0.040	0.0054	mg/Kg	☼	10/26/18 07:03	10/28/18 17:28	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153500-1

Client Sample ID: 2947V-17-B18 (0-5)

Lab Sample ID: 500-153500-3

Date Collected: 10/19/18 09:35

Matrix: Solid

Date Received: 10/19/18 11:55

Percent Solids: 82.3

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	0.040	0.0078	mg/Kg	☼	10/26/18 07:03	10/28/18 17:28	1
Benzo[b]fluoranthene	0.013	J	0.040	0.0087	mg/Kg	☼	10/26/18 07:03	10/28/18 17:28	1
Benzo[g,h,i]perylene	<0.013		0.040	0.013	mg/Kg	☼	10/26/18 07:03	10/28/18 17:28	1
Benzo[k]fluoranthene	<0.012		0.040	0.012	mg/Kg	☼	10/26/18 07:03	10/28/18 17:28	1
Bis(2-chloroethoxy)methane	<0.041		0.20	0.041	mg/Kg	☼	10/26/18 07:03	10/28/18 17:28	1
Bis(2-chloroethyl)ether	<0.060		0.20	0.060	mg/Kg	☼	10/26/18 07:03	10/28/18 17:28	1
Bis(2-ethylhexyl) phthalate	<0.074		0.20	0.074	mg/Kg	☼	10/26/18 07:03	10/28/18 17:28	1
4-Bromophenyl phenyl ether	<0.053		0.20	0.053	mg/Kg	☼	10/26/18 07:03	10/28/18 17:28	1
Butyl benzyl phthalate	<0.077		0.20	0.077	mg/Kg	☼	10/26/18 07:03	10/28/18 17:28	1
Carbazole	<0.10		0.20	0.10	mg/Kg	☼	10/26/18 07:03	10/28/18 17:28	1
4-Chloroaniline	<0.19		0.81	0.19	mg/Kg	☼	10/26/18 07:03	10/28/18 17:28	1
4-Chloro-3-methylphenol	<0.14		0.40	0.14	mg/Kg	☼	10/26/18 07:03	10/28/18 17:28	1
2-Chloronaphthalene	<0.045		0.20	0.045	mg/Kg	☼	10/26/18 07:03	10/28/18 17:28	1
2-Chlorophenol	<0.069		0.20	0.069	mg/Kg	☼	10/26/18 07:03	10/28/18 17:28	1
4-Chlorophenyl phenyl ether	<0.047		0.20	0.047	mg/Kg	☼	10/26/18 07:03	10/28/18 17:28	1
Chrysene	0.014	J	0.040	0.011	mg/Kg	☼	10/26/18 07:03	10/28/18 17:28	1
Dibenz(a,h)anthracene	<0.0078		0.040	0.0078	mg/Kg	☼	10/26/18 07:03	10/28/18 17:28	1
Dibenzofuran	<0.047		0.20	0.047	mg/Kg	☼	10/26/18 07:03	10/28/18 17:28	1
1,2-Dichlorobenzene	<0.048		0.20	0.048	mg/Kg	☼	10/26/18 07:03	10/28/18 17:28	1
1,3-Dichlorobenzene	<0.045		0.20	0.045	mg/Kg	☼	10/26/18 07:03	10/28/18 17:28	1
1,4-Dichlorobenzene	<0.052		0.20	0.052	mg/Kg	☼	10/26/18 07:03	10/28/18 17:28	1
3,3'-Dichlorobenzidine	<0.056		0.20	0.056	mg/Kg	☼	10/26/18 07:03	10/28/18 17:28	1
2,4-Dichlorophenol	<0.096		0.40	0.096	mg/Kg	☼	10/26/18 07:03	10/28/18 17:28	1
Diethyl phthalate	<0.068		0.20	0.068	mg/Kg	☼	10/26/18 07:03	10/28/18 17:28	1
2,4-Dimethylphenol	<0.15		0.40	0.15	mg/Kg	☼	10/26/18 07:03	10/28/18 17:28	1
Dimethyl phthalate	<0.053		0.20	0.053	mg/Kg	☼	10/26/18 07:03	10/28/18 17:28	1
Di-n-butyl phthalate	<0.061		0.20	0.061	mg/Kg	☼	10/26/18 07:03	10/28/18 17:28	1
4,6-Dinitro-2-methylphenol	<0.32		0.81	0.32	mg/Kg	☼	10/26/18 07:03	10/28/18 17:28	1
2,4-Dinitrophenol	<0.71		0.81	0.71	mg/Kg	☼	10/26/18 07:03	10/28/18 17:28	1
2,4-Dinitrotoluene	<0.064		0.20	0.064	mg/Kg	☼	10/26/18 07:03	10/28/18 17:28	1
2,6-Dinitrotoluene	<0.079		0.20	0.079	mg/Kg	☼	10/26/18 07:03	10/28/18 17:28	1
Di-n-octyl phthalate	<0.066		0.20	0.066	mg/Kg	☼	10/26/18 07:03	10/28/18 17:28	1
Fluoranthene	0.023	J	0.040	0.0075	mg/Kg	☼	10/26/18 07:03	10/28/18 17:28	1
Fluorene	<0.0057		0.040	0.0057	mg/Kg	☼	10/26/18 07:03	10/28/18 17:28	1
Hexachlorobenzene	<0.0093		0.081	0.0093	mg/Kg	☼	10/26/18 07:03	10/28/18 17:28	1
Hexachlorobutadiene	<0.063		0.20	0.063	mg/Kg	☼	10/26/18 07:03	10/28/18 17:28	1
Hexachlorocyclopentadiene	<0.23		0.81	0.23	mg/Kg	☼	10/26/18 07:03	10/28/18 17:28	1
Hexachloroethane	<0.061		0.20	0.061	mg/Kg	☼	10/26/18 07:03	10/28/18 17:28	1
Indeno[1,2,3-cd]pyrene	0.022	J	0.040	0.010	mg/Kg	☼	10/26/18 07:03	10/28/18 17:28	1
Isophorone	<0.045		0.20	0.045	mg/Kg	☼	10/26/18 07:03	10/28/18 17:28	1
2-Methylnaphthalene	<0.0074		0.081	0.0074	mg/Kg	☼	10/26/18 07:03	10/28/18 17:28	1
2-Methylphenol	<0.065		0.20	0.065	mg/Kg	☼	10/26/18 07:03	10/28/18 17:28	1
3 & 4 Methylphenol	<0.067		0.20	0.067	mg/Kg	☼	10/26/18 07:03	10/28/18 17:28	1
Naphthalene	<0.0062		0.040	0.0062	mg/Kg	☼	10/26/18 07:03	10/28/18 17:28	1
2-Nitroaniline	<0.054		0.20	0.054	mg/Kg	☼	10/26/18 07:03	10/28/18 17:28	1
3-Nitroaniline	<0.13		0.40	0.13	mg/Kg	☼	10/26/18 07:03	10/28/18 17:28	1
4-Nitroaniline	<0.17		0.40	0.17	mg/Kg	☼	10/26/18 07:03	10/28/18 17:28	1
Nitrobenzene	<0.010		0.040	0.010	mg/Kg	☼	10/26/18 07:03	10/28/18 17:28	1
2-Nitrophenol	<0.095		0.40	0.095	mg/Kg	☼	10/26/18 07:03	10/28/18 17:28	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153500-1

Client Sample ID: 2947V-17-B18 (0-5)

Lab Sample ID: 500-153500-3

Date Collected: 10/19/18 09:35

Matrix: Solid

Date Received: 10/19/18 11:55

Percent Solids: 82.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.38		0.81	0.38	mg/Kg	☼	10/26/18 07:03	10/28/18 17:28	1
N-Nitrosodi-n-propylamine	<0.049		0.081	0.049	mg/Kg	☼	10/26/18 07:03	10/28/18 17:28	1
N-Nitrosodiphenylamine	<0.048		0.20	0.048	mg/Kg	☼	10/26/18 07:03	10/28/18 17:28	1
2,2'-oxybis[1-chloropropane]	<0.047		0.20	0.047	mg/Kg	☼	10/26/18 07:03	10/28/18 17:28	1
Pentachlorophenol	<0.65		0.81	0.65	mg/Kg	☼	10/26/18 07:03	10/28/18 17:28	1
Phenanthrene	0.014	J	0.040	0.0056	mg/Kg	☼	10/26/18 07:03	10/28/18 17:28	1
Phenol	<0.090		0.20	0.090	mg/Kg	☼	10/26/18 07:03	10/28/18 17:28	1
Pyrene	0.019	J	0.040	0.0080	mg/Kg	☼	10/26/18 07:03	10/28/18 17:28	1
1,2,4-Trichlorobenzene	<0.043		0.20	0.043	mg/Kg	☼	10/26/18 07:03	10/28/18 17:28	1
2,4,5-Trichlorophenol	<0.092		0.40	0.092	mg/Kg	☼	10/26/18 07:03	10/28/18 17:28	1
2,4,6-Trichlorophenol	<0.14		0.40	0.14	mg/Kg	☼	10/26/18 07:03	10/28/18 17:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	93		43 - 145				10/26/18 07:03	10/28/18 17:28	1
2-Fluorophenol	134		31 - 166				10/26/18 07:03	10/28/18 17:28	1
Nitrobenzene-d5	92		37 - 147				10/26/18 07:03	10/28/18 17:28	1
Phenol-d5	123		30 - 153				10/26/18 07:03	10/28/18 17:28	1
Terphenyl-d14	106		42 - 157				10/26/18 07:03	10/28/18 17:28	1
2,4,6-Tribromophenol	88		31 - 143				10/26/18 07:03	10/28/18 17:28	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.23		1.2	0.23	mg/Kg	☼	10/25/18 17:55	10/27/18 00:04	1
Arsenic	8.4		0.60	0.20	mg/Kg	☼	10/25/18 17:55	10/27/18 00:04	1
Barium	150		0.60	0.068	mg/Kg	☼	10/25/18 17:55	10/27/18 00:04	1
Beryllium	0.72		0.24	0.056	mg/Kg	☼	10/25/18 17:55	10/27/18 00:04	1
Cadmium	0.29	B	0.12	0.022	mg/Kg	☼	10/25/18 17:55	10/27/18 00:04	1
Chromium	19		0.60	0.30	mg/Kg	☼	10/25/18 17:55	10/27/18 00:04	1
Cobalt	15		0.30	0.078	mg/Kg	☼	10/25/18 17:55	10/27/18 00:04	1
Copper	16		0.60	0.17	mg/Kg	☼	10/25/18 17:55	10/27/18 00:04	1
Iron	21000		12	6.2	mg/Kg	☼	10/25/18 17:55	10/27/18 00:04	1
Lead	20		0.30	0.14	mg/Kg	☼	10/25/18 17:55	10/27/18 00:04	1
Magnesium	3300		6.0	3.0	mg/Kg	☼	10/25/18 17:55	10/27/18 00:04	1
Calcium	3600	B	12	2.0	mg/Kg	☼	10/25/18 17:55	10/27/18 00:04	1
Manganese	980		0.60	0.087	mg/Kg	☼	10/25/18 17:55	10/27/18 00:04	1
Nickel	27		0.60	0.17	mg/Kg	☼	10/25/18 17:55	10/27/18 00:04	1
Selenium	<0.35		0.60	0.35	mg/Kg	☼	10/25/18 17:55	10/27/18 00:04	1
Silver	0.34		0.30	0.077	mg/Kg	☼	10/25/18 17:55	10/27/18 00:04	1
Thallium	<0.30		0.60	0.30	mg/Kg	☼	10/25/18 17:55	10/27/18 00:04	1
Vanadium	31		0.30	0.071	mg/Kg	☼	10/25/18 17:55	10/27/18 00:04	1
Zinc	81	B	1.2	0.53	mg/Kg	☼	10/25/18 17:55	10/27/18 00:04	1
Potassium	2300		30	11	mg/Kg	☼	10/25/18 17:55	10/27/18 00:04	1
Sodium	720		60	8.9	mg/Kg	☼	10/25/18 17:55	10/27/18 00:04	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		10/29/18 08:56	10/29/18 16:11	1
Barium	0.24	J	0.50	0.050	mg/L		10/29/18 08:56	10/29/18 16:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/29/18 08:56	10/29/18 16:11	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		10/29/18 08:56	10/29/18 16:11	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153500-1

Client Sample ID: 2947V-17-B18 (0-5)

Lab Sample ID: 500-153500-3

Date Collected: 10/19/18 09:35

Matrix: Solid

Date Received: 10/19/18 11:55

Percent Solids: 82.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	58		5.0	0.50	mg/L		10/29/18 08:56	10/29/18 16:11	1
Chromium	<0.010		0.025	0.010	mg/L		10/29/18 08:56	10/29/18 16:11	1
Cobalt	<0.010		0.025	0.010	mg/L		10/29/18 08:56	10/29/18 16:11	1
Copper	<0.010		0.025	0.010	mg/L		10/29/18 08:56	10/29/18 16:11	1
Iron	0.20	J	0.40	0.20	mg/L		10/29/18 08:56	10/29/18 16:11	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/29/18 08:56	10/29/18 16:11	1
Magnesium	20		2.5	0.50	mg/L		10/29/18 08:56	10/29/18 16:11	1
Manganese	0.020	J	0.025	0.010	mg/L		10/29/18 08:56	10/29/18 16:11	1
Nickel	<0.010		0.025	0.010	mg/L		10/29/18 08:56	10/29/18 16:11	1
Potassium	0.78	J	2.5	0.50	mg/L		10/29/18 08:56	10/29/18 16:11	1
Selenium	<0.020		0.050	0.020	mg/L		10/29/18 08:56	10/29/18 16:11	1
Silver	<0.010		0.025	0.010	mg/L		10/29/18 08:56	10/29/18 16:11	1
Vanadium	<0.010		0.025	0.010	mg/L		10/29/18 08:56	10/29/18 16:11	1
Zinc	<0.020		0.50	0.020	mg/L		10/29/18 08:56	10/29/18 16:11	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		10/29/18 08:56	10/29/18 16:07	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/29/18 08:56	10/29/18 16:07	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		10/26/18 11:15	10/29/18 09:36	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.015	J	0.020	0.0065	mg/Kg	☼	10/25/18 17:20	10/26/18 10:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.19		0.57	0.19	mg/Kg	☼	10/30/18 18:00	10/31/18 12:09	1
pH	7.1		0.2	0.2	SU			10/26/18 15:02	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153500-1

Client Sample ID: 2947V-17-B17 (0-5)

Lab Sample ID: 500-153500-4

Date Collected: 10/19/18 10:00

Matrix: Solid

Date Received: 10/19/18 11:55

Percent Solids: 77.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0091		0.021	0.0091	mg/Kg	☼	10/19/18 17:43	10/28/18 04:53	1
Benzene	<0.00053		0.0021	0.00053	mg/Kg	☼	10/19/18 17:43	10/28/18 04:53	1
Bromodichloromethane	<0.00042		0.0021	0.00042	mg/Kg	☼	10/19/18 17:43	10/28/18 04:53	1
Bromoform	<0.00061		0.0021	0.00061	mg/Kg	☼	10/19/18 17:43	10/28/18 04:53	1
Bromomethane	<0.0020		0.0052	0.0020	mg/Kg	☼	10/19/18 17:43	10/28/18 04:53	1
2-Butanone (MEK)	<0.0023		0.0052	0.0023	mg/Kg	☼	10/19/18 17:43	10/28/18 04:53	1
Carbon disulfide	<0.0011		0.0052	0.0011	mg/Kg	☼	10/19/18 17:43	10/28/18 04:53	1
Carbon tetrachloride	<0.00060		0.0021	0.00060	mg/Kg	☼	10/19/18 17:43	10/28/18 04:53	1
Chlorobenzene	<0.00077		0.0021	0.00077	mg/Kg	☼	10/19/18 17:43	10/28/18 04:53	1
Chloroethane	<0.0015	*	0.0052	0.0015	mg/Kg	☼	10/19/18 17:43	10/28/18 04:53	1
Chloroform	<0.00072		0.0021	0.00072	mg/Kg	☼	10/19/18 17:43	10/28/18 04:53	1
Chloromethane	<0.0021		0.0052	0.0021	mg/Kg	☼	10/19/18 17:43	10/28/18 04:53	1
cis-1,2-Dichloroethene	<0.00058		0.0021	0.00058	mg/Kg	☼	10/19/18 17:43	10/28/18 04:53	1
cis-1,3-Dichloropropene	<0.00063		0.0021	0.00063	mg/Kg	☼	10/19/18 17:43	10/28/18 04:53	1
Dibromochloromethane	<0.00068		0.0021	0.00068	mg/Kg	☼	10/19/18 17:43	10/28/18 04:53	1
1,1-Dichloroethane	<0.00071		0.0021	0.00071	mg/Kg	☼	10/19/18 17:43	10/28/18 04:53	1
1,2-Dichloroethane	<0.0016		0.0052	0.0016	mg/Kg	☼	10/19/18 17:43	10/28/18 04:53	1
1,1-Dichloroethene	<0.00072		0.0021	0.00072	mg/Kg	☼	10/19/18 17:43	10/28/18 04:53	1
1,2-Dichloropropane	<0.00054		0.0021	0.00054	mg/Kg	☼	10/19/18 17:43	10/28/18 04:53	1
1,3-Dichloropropene, Total	<0.00073		0.0021	0.00073	mg/Kg	☼	10/19/18 17:43	10/28/18 04:53	1
Ethylbenzene	<0.0010		0.0021	0.0010	mg/Kg	☼	10/19/18 17:43	10/28/18 04:53	1
2-Hexanone	<0.0016		0.0052	0.0016	mg/Kg	☼	10/19/18 17:43	10/28/18 04:53	1
Methylene Chloride	<0.0021		0.0052	0.0021	mg/Kg	☼	10/19/18 17:43	10/28/18 04:53	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0052	0.0015	mg/Kg	☼	10/19/18 17:43	10/28/18 04:53	1
Methyl tert-butyl ether	<0.00061		0.0021	0.00061	mg/Kg	☼	10/19/18 17:43	10/28/18 04:53	1
Styrene	<0.00063		0.0021	0.00063	mg/Kg	☼	10/19/18 17:43	10/28/18 04:53	1
1,1,2,2-Tetrachloroethane	<0.00067		0.0021	0.00067	mg/Kg	☼	10/19/18 17:43	10/28/18 04:53	1
Tetrachloroethene	<0.00071		0.0021	0.00071	mg/Kg	☼	10/19/18 17:43	10/28/18 04:53	1
Toluene	<0.00053		0.0021	0.00053	mg/Kg	☼	10/19/18 17:43	10/28/18 04:53	1
trans-1,2-Dichloroethene	<0.00092		0.0021	0.00092	mg/Kg	☼	10/19/18 17:43	10/28/18 04:53	1
trans-1,3-Dichloropropene	<0.00073		0.0021	0.00073	mg/Kg	☼	10/19/18 17:43	10/28/18 04:53	1
1,1,1-Trichloroethane	<0.00070		0.0021	0.00070	mg/Kg	☼	10/19/18 17:43	10/28/18 04:53	1
1,1,2-Trichloroethane	<0.00089		0.0021	0.00089	mg/Kg	☼	10/19/18 17:43	10/28/18 04:53	1
Trichloroethene	<0.00070		0.0021	0.00070	mg/Kg	☼	10/19/18 17:43	10/28/18 04:53	1
Vinyl acetate	<0.0018		0.0052	0.0018	mg/Kg	☼	10/19/18 17:43	10/28/18 04:53	1
Vinyl chloride	<0.00092		0.0021	0.00092	mg/Kg	☼	10/19/18 17:43	10/28/18 04:53	1
Xylenes, Total	<0.00067		0.0042	0.00067	mg/Kg	☼	10/19/18 17:43	10/28/18 04:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		75 - 131	10/19/18 17:43	10/28/18 04:53	1
Dibromofluoromethane	102		75 - 126	10/19/18 17:43	10/28/18 04:53	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134	10/19/18 17:43	10/28/18 04:53	1
Toluene-d8 (Surr)	97		75 - 124	10/19/18 17:43	10/28/18 04:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0075		0.041	0.0075	mg/Kg	☼	10/26/18 07:03	10/28/18 17:55	1
Acenaphthylene	<0.0055		0.041	0.0055	mg/Kg	☼	10/26/18 07:03	10/28/18 17:55	1
Anthracene	<0.0070		0.041	0.0070	mg/Kg	☼	10/26/18 07:03	10/28/18 17:55	1
Benzo[a]anthracene	0.0071	J	0.041	0.0056	mg/Kg	☼	10/26/18 07:03	10/28/18 17:55	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153500-1

Client Sample ID: 2947V-17-B17 (0-5)

Lab Sample ID: 500-153500-4

Date Collected: 10/19/18 10:00

Matrix: Solid

Date Received: 10/19/18 11:55

Percent Solids: 77.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.019	J	0.041	0.0081	mg/Kg	☼	10/26/18 07:03	10/28/18 17:55	1
Benzo[b]fluoranthene	<0.0090		0.041	0.0090	mg/Kg	☼	10/26/18 07:03	10/28/18 17:55	1
Benzo[g,h,i]perylene	<0.013		0.041	0.013	mg/Kg	☼	10/26/18 07:03	10/28/18 17:55	1
Benzo[k]fluoranthene	<0.012		0.041	0.012	mg/Kg	☼	10/26/18 07:03	10/28/18 17:55	1
Bis(2-chloroethoxy)methane	<0.043		0.21	0.043	mg/Kg	☼	10/26/18 07:03	10/28/18 17:55	1
Bis(2-chloroethyl)ether	<0.062		0.21	0.062	mg/Kg	☼	10/26/18 07:03	10/28/18 17:55	1
Bis(2-ethylhexyl) phthalate	<0.076		0.21	0.076	mg/Kg	☼	10/26/18 07:03	10/28/18 17:55	1
4-Bromophenyl phenyl ether	<0.055		0.21	0.055	mg/Kg	☼	10/26/18 07:03	10/28/18 17:55	1
Butyl benzyl phthalate	<0.079		0.21	0.079	mg/Kg	☼	10/26/18 07:03	10/28/18 17:55	1
Carbazole	<0.10		0.21	0.10	mg/Kg	☼	10/26/18 07:03	10/28/18 17:55	1
4-Chloroaniline	<0.20		0.84	0.20	mg/Kg	☼	10/26/18 07:03	10/28/18 17:55	1
4-Chloro-3-methylphenol	<0.14		0.41	0.14	mg/Kg	☼	10/26/18 07:03	10/28/18 17:55	1
2-Chloronaphthalene	<0.046		0.21	0.046	mg/Kg	☼	10/26/18 07:03	10/28/18 17:55	1
2-Chlorophenol	<0.071		0.21	0.071	mg/Kg	☼	10/26/18 07:03	10/28/18 17:55	1
4-Chlorophenyl phenyl ether	<0.049		0.21	0.049	mg/Kg	☼	10/26/18 07:03	10/28/18 17:55	1
Chrysene	<0.011		0.041	0.011	mg/Kg	☼	10/26/18 07:03	10/28/18 17:55	1
Dibenz(a,h)anthracene	<0.0081		0.041	0.0081	mg/Kg	☼	10/26/18 07:03	10/28/18 17:55	1
Dibenzofuran	<0.049		0.21	0.049	mg/Kg	☼	10/26/18 07:03	10/28/18 17:55	1
1,2-Dichlorobenzene	<0.050		0.21	0.050	mg/Kg	☼	10/26/18 07:03	10/28/18 17:55	1
1,3-Dichlorobenzene	<0.047		0.21	0.047	mg/Kg	☼	10/26/18 07:03	10/28/18 17:55	1
1,4-Dichlorobenzene	<0.053		0.21	0.053	mg/Kg	☼	10/26/18 07:03	10/28/18 17:55	1
3,3'-Dichlorobenzidine	<0.058		0.21	0.058	mg/Kg	☼	10/26/18 07:03	10/28/18 17:55	1
2,4-Dichlorophenol	<0.099		0.41	0.099	mg/Kg	☼	10/26/18 07:03	10/28/18 17:55	1
Diethyl phthalate	<0.071		0.21	0.071	mg/Kg	☼	10/26/18 07:03	10/28/18 17:55	1
2,4-Dimethylphenol	<0.16		0.41	0.16	mg/Kg	☼	10/26/18 07:03	10/28/18 17:55	1
Dimethyl phthalate	<0.054		0.21	0.054	mg/Kg	☼	10/26/18 07:03	10/28/18 17:55	1
Di-n-butyl phthalate	<0.063		0.21	0.063	mg/Kg	☼	10/26/18 07:03	10/28/18 17:55	1
4,6-Dinitro-2-methylphenol	<0.33		0.84	0.33	mg/Kg	☼	10/26/18 07:03	10/28/18 17:55	1
2,4-Dinitrophenol	<0.73		0.84	0.73	mg/Kg	☼	10/26/18 07:03	10/28/18 17:55	1
2,4-Dinitrotoluene	<0.066		0.21	0.066	mg/Kg	☼	10/26/18 07:03	10/28/18 17:55	1
2,6-Dinitrotoluene	<0.082		0.21	0.082	mg/Kg	☼	10/26/18 07:03	10/28/18 17:55	1
Di-n-octyl phthalate	<0.068		0.21	0.068	mg/Kg	☼	10/26/18 07:03	10/28/18 17:55	1
Fluoranthene	0.012	J	0.041	0.0077	mg/Kg	☼	10/26/18 07:03	10/28/18 17:55	1
Fluorene	<0.0059		0.041	0.0059	mg/Kg	☼	10/26/18 07:03	10/28/18 17:55	1
Hexachlorobenzene	<0.0097		0.084	0.0097	mg/Kg	☼	10/26/18 07:03	10/28/18 17:55	1
Hexachlorobutadiene	<0.065		0.21	0.065	mg/Kg	☼	10/26/18 07:03	10/28/18 17:55	1
Hexachlorocyclopentadiene	<0.24		0.84	0.24	mg/Kg	☼	10/26/18 07:03	10/28/18 17:55	1
Hexachloroethane	<0.063		0.21	0.063	mg/Kg	☼	10/26/18 07:03	10/28/18 17:55	1
Indeno[1,2,3-cd]pyrene	<0.011		0.041	0.011	mg/Kg	☼	10/26/18 07:03	10/28/18 17:55	1
Isophorone	<0.047		0.21	0.047	mg/Kg	☼	10/26/18 07:03	10/28/18 17:55	1
2-Methylnaphthalene	<0.0077		0.084	0.0077	mg/Kg	☼	10/26/18 07:03	10/28/18 17:55	1
2-Methylphenol	<0.067		0.21	0.067	mg/Kg	☼	10/26/18 07:03	10/28/18 17:55	1
3 & 4 Methylphenol	<0.070		0.21	0.070	mg/Kg	☼	10/26/18 07:03	10/28/18 17:55	1
Naphthalene	<0.0064		0.041	0.0064	mg/Kg	☼	10/26/18 07:03	10/28/18 17:55	1
2-Nitroaniline	<0.056		0.21	0.056	mg/Kg	☼	10/26/18 07:03	10/28/18 17:55	1
3-Nitroaniline	<0.13		0.41	0.13	mg/Kg	☼	10/26/18 07:03	10/28/18 17:55	1
4-Nitroaniline	<0.17		0.41	0.17	mg/Kg	☼	10/26/18 07:03	10/28/18 17:55	1
Nitrobenzene	<0.010		0.041	0.010	mg/Kg	☼	10/26/18 07:03	10/28/18 17:55	1
2-Nitrophenol	<0.098		0.41	0.098	mg/Kg	☼	10/26/18 07:03	10/28/18 17:55	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153500-1

Client Sample ID: 2947V-17-B17 (0-5)

Lab Sample ID: 500-153500-4

Date Collected: 10/19/18 10:00

Matrix: Solid

Date Received: 10/19/18 11:55

Percent Solids: 77.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.40		0.84	0.40	mg/Kg	☼	10/26/18 07:03	10/28/18 17:55	1
N-Nitrosodi-n-propylamine	<0.051		0.084	0.051	mg/Kg	☼	10/26/18 07:03	10/28/18 17:55	1
N-Nitrosodiphenylamine	<0.049		0.21	0.049	mg/Kg	☼	10/26/18 07:03	10/28/18 17:55	1
2,2'-oxybis[1-chloropropane]	<0.048		0.21	0.048	mg/Kg	☼	10/26/18 07:03	10/28/18 17:55	1
Pentachlorophenol	<0.67		0.84	0.67	mg/Kg	☼	10/26/18 07:03	10/28/18 17:55	1
Phenanthrene	0.0062	J	0.041	0.0058	mg/Kg	☼	10/26/18 07:03	10/28/18 17:55	1
Phenol	<0.093		0.21	0.093	mg/Kg	☼	10/26/18 07:03	10/28/18 17:55	1
Pyrene	0.010	J	0.041	0.0083	mg/Kg	☼	10/26/18 07:03	10/28/18 17:55	1
1,2,4-Trichlorobenzene	<0.045		0.21	0.045	mg/Kg	☼	10/26/18 07:03	10/28/18 17:55	1
2,4,5-Trichlorophenol	<0.095		0.41	0.095	mg/Kg	☼	10/26/18 07:03	10/28/18 17:55	1
2,4,6-Trichlorophenol	<0.14		0.41	0.14	mg/Kg	☼	10/26/18 07:03	10/28/18 17:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	91		43 - 145	10/26/18 07:03	10/28/18 17:55	1
2-Fluorophenol	128		31 - 166	10/26/18 07:03	10/28/18 17:55	1
Nitrobenzene-d5	91		37 - 147	10/26/18 07:03	10/28/18 17:55	1
Phenol-d5	117		30 - 153	10/26/18 07:03	10/28/18 17:55	1
Terphenyl-d14	102		42 - 157	10/26/18 07:03	10/28/18 17:55	1
2,4,6-Tribromophenol	48		31 - 143	10/26/18 07:03	10/28/18 17:55	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.34	J	1.2	0.23	mg/Kg	☼	10/25/18 17:55	10/27/18 00:08	1
Arsenic	8.4		0.60	0.21	mg/Kg	☼	10/25/18 17:55	10/27/18 00:08	1
Barium	110		0.60	0.069	mg/Kg	☼	10/25/18 17:55	10/27/18 00:08	1
Beryllium	0.73		0.24	0.056	mg/Kg	☼	10/25/18 17:55	10/27/18 00:08	1
Cadmium	0.084	J B	0.12	0.022	mg/Kg	☼	10/25/18 17:55	10/27/18 00:08	1
Chromium	19		0.60	0.30	mg/Kg	☼	10/25/18 17:55	10/27/18 00:08	1
Cobalt	13		0.30	0.079	mg/Kg	☼	10/25/18 17:55	10/27/18 00:08	1
Copper	15		0.60	0.17	mg/Kg	☼	10/25/18 17:55	10/27/18 00:08	1
Iron	20000		12	6.3	mg/Kg	☼	10/25/18 17:55	10/27/18 00:08	1
Lead	19		0.30	0.14	mg/Kg	☼	10/25/18 17:55	10/27/18 00:08	1
Magnesium	3500		6.0	3.0	mg/Kg	☼	10/25/18 17:55	10/27/18 00:08	1
Calcium	2300	B	12	2.0	mg/Kg	☼	10/25/18 17:55	10/27/18 00:08	1
Manganese	620		0.60	0.087	mg/Kg	☼	10/25/18 17:55	10/27/18 00:08	1
Nickel	32		0.60	0.18	mg/Kg	☼	10/25/18 17:55	10/27/18 00:08	1
Selenium	0.37	J	0.60	0.35	mg/Kg	☼	10/25/18 17:55	10/27/18 00:08	1
Silver	0.37		0.30	0.078	mg/Kg	☼	10/25/18 17:55	10/27/18 00:08	1
Thallium	<0.30		0.60	0.30	mg/Kg	☼	10/25/18 17:55	10/27/18 00:08	1
Vanadium	33		0.30	0.071	mg/Kg	☼	10/25/18 17:55	10/27/18 00:08	1
Zinc	75	B	1.2	0.53	mg/Kg	☼	10/25/18 17:55	10/27/18 00:08	1
Potassium	1500		30	11	mg/Kg	☼	10/25/18 17:55	10/27/18 00:08	1
Sodium	930		60	8.9	mg/Kg	☼	10/25/18 17:55	10/27/18 00:08	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		10/29/18 08:56	10/29/18 16:15	1
Barium	0.53		0.50	0.050	mg/L		10/29/18 08:56	10/29/18 16:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/29/18 08:56	10/29/18 16:15	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		10/29/18 08:56	10/29/18 16:15	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153500-1

Client Sample ID: 2947V-17-B17 (0-5)

Lab Sample ID: 500-153500-4

Date Collected: 10/19/18 10:00

Matrix: Solid

Date Received: 10/19/18 11:55

Percent Solids: 77.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	77		5.0	0.50	mg/L		10/29/18 08:56	10/29/18 16:15	1
Chromium	<0.010		0.025	0.010	mg/L		10/29/18 08:56	10/29/18 16:15	1
Cobalt	<0.010		0.025	0.010	mg/L		10/29/18 08:56	10/29/18 16:15	1
Copper	<0.010		0.025	0.010	mg/L		10/29/18 08:56	10/29/18 16:15	1
Iron	<0.20		0.40	0.20	mg/L		10/29/18 08:56	10/29/18 16:15	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/29/18 08:56	10/29/18 16:15	1
Magnesium	34		2.5	0.50	mg/L		10/29/18 08:56	10/29/18 16:15	1
Manganese	0.088		0.025	0.010	mg/L		10/29/18 08:56	10/29/18 16:15	1
Nickel	<0.010		0.025	0.010	mg/L		10/29/18 08:56	10/29/18 16:15	1
Potassium	1.0 J		2.5	0.50	mg/L		10/29/18 08:56	10/29/18 16:15	1
Selenium	<0.020		0.050	0.020	mg/L		10/29/18 08:56	10/29/18 16:15	1
Silver	<0.010		0.025	0.010	mg/L		10/29/18 08:56	10/29/18 16:15	1
Vanadium	<0.010		0.025	0.010	mg/L		10/29/18 08:56	10/29/18 16:15	1
Zinc	0.12 J		0.50	0.020	mg/L		10/29/18 08:56	10/29/18 16:15	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		10/29/18 08:56	10/29/18 16:08	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/29/18 08:56	10/29/18 16:08	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		10/26/18 11:15	10/29/18 09:38	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.040		0.019	0.0064	mg/Kg	☼	10/25/18 17:20	10/26/18 10:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.19		0.54	0.19	mg/Kg	☼	10/30/18 18:00	10/31/18 12:11	1
pH	7.5		0.2	0.2	SU			10/26/18 15:04	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153500-1

Client Sample ID: 2947V-17-B16 (0-5)

Lab Sample ID: 500-153500-5

Date Collected: 10/19/18 10:20

Matrix: Solid

Date Received: 10/19/18 11:55

Percent Solids: 80.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0092		0.021	0.0092	mg/Kg	☼	10/19/18 17:43	10/28/18 05:19	1
Benzene	<0.00054		0.0021	0.00054	mg/Kg	☼	10/19/18 17:43	10/28/18 05:19	1
Bromodichloromethane	<0.00043		0.0021	0.00043	mg/Kg	☼	10/19/18 17:43	10/28/18 05:19	1
Bromoform	<0.00062		0.0021	0.00062	mg/Kg	☼	10/19/18 17:43	10/28/18 05:19	1
Bromomethane	<0.0020		0.0053	0.0020	mg/Kg	☼	10/19/18 17:43	10/28/18 05:19	1
2-Butanone (MEK)	<0.0023		0.0053	0.0023	mg/Kg	☼	10/19/18 17:43	10/28/18 05:19	1
Carbon disulfide	<0.0011		0.0053	0.0011	mg/Kg	☼	10/19/18 17:43	10/28/18 05:19	1
Carbon tetrachloride	<0.00061		0.0021	0.00061	mg/Kg	☼	10/19/18 17:43	10/28/18 05:19	1
Chlorobenzene	<0.00078		0.0021	0.00078	mg/Kg	☼	10/19/18 17:43	10/28/18 05:19	1
Chloroethane	<0.0016	*	0.0053	0.0016	mg/Kg	☼	10/19/18 17:43	10/28/18 05:19	1
Chloroform	<0.00073		0.0021	0.00073	mg/Kg	☼	10/19/18 17:43	10/28/18 05:19	1
Chloromethane	<0.0021		0.0053	0.0021	mg/Kg	☼	10/19/18 17:43	10/28/18 05:19	1
cis-1,2-Dichloroethene	<0.00059		0.0021	0.00059	mg/Kg	☼	10/19/18 17:43	10/28/18 05:19	1
cis-1,3-Dichloropropene	<0.00064		0.0021	0.00064	mg/Kg	☼	10/19/18 17:43	10/28/18 05:19	1
Dibromochloromethane	<0.00069		0.0021	0.00069	mg/Kg	☼	10/19/18 17:43	10/28/18 05:19	1
1,1-Dichloroethane	<0.00072		0.0021	0.00072	mg/Kg	☼	10/19/18 17:43	10/28/18 05:19	1
1,2-Dichloroethane	<0.0016		0.0053	0.0016	mg/Kg	☼	10/19/18 17:43	10/28/18 05:19	1
1,1-Dichloroethene	<0.00073		0.0021	0.00073	mg/Kg	☼	10/19/18 17:43	10/28/18 05:19	1
1,2-Dichloropropane	<0.00055		0.0021	0.00055	mg/Kg	☼	10/19/18 17:43	10/28/18 05:19	1
1,3-Dichloropropane, Total	<0.00074		0.0021	0.00074	mg/Kg	☼	10/19/18 17:43	10/28/18 05:19	1
Ethylbenzene	<0.0010		0.0021	0.0010	mg/Kg	☼	10/19/18 17:43	10/28/18 05:19	1
2-Hexanone	<0.0016		0.0053	0.0016	mg/Kg	☼	10/19/18 17:43	10/28/18 05:19	1
Methylene Chloride	<0.0021		0.0053	0.0021	mg/Kg	☼	10/19/18 17:43	10/28/18 05:19	1
4-Methyl-2-pentanone (MIBK)	<0.0016		0.0053	0.0016	mg/Kg	☼	10/19/18 17:43	10/28/18 05:19	1
Methyl tert-butyl ether	<0.00062		0.0021	0.00062	mg/Kg	☼	10/19/18 17:43	10/28/18 05:19	1
Styrene	<0.00064		0.0021	0.00064	mg/Kg	☼	10/19/18 17:43	10/28/18 05:19	1
1,1,2,2-Tetrachloroethane	<0.00068		0.0021	0.00068	mg/Kg	☼	10/19/18 17:43	10/28/18 05:19	1
Tetrachloroethene	<0.00072		0.0021	0.00072	mg/Kg	☼	10/19/18 17:43	10/28/18 05:19	1
Toluene	<0.00053		0.0021	0.00053	mg/Kg	☼	10/19/18 17:43	10/28/18 05:19	1
trans-1,2-Dichloroethene	<0.00094		0.0021	0.00094	mg/Kg	☼	10/19/18 17:43	10/28/18 05:19	1
trans-1,3-Dichloropropene	<0.00074		0.0021	0.00074	mg/Kg	☼	10/19/18 17:43	10/28/18 05:19	1
1,1,1-Trichloroethane	<0.00071		0.0021	0.00071	mg/Kg	☼	10/19/18 17:43	10/28/18 05:19	1
1,1,2-Trichloroethane	<0.00091		0.0021	0.00091	mg/Kg	☼	10/19/18 17:43	10/28/18 05:19	1
Trichloroethene	<0.00071		0.0021	0.00071	mg/Kg	☼	10/19/18 17:43	10/28/18 05:19	1
Vinyl acetate	<0.0018		0.0053	0.0018	mg/Kg	☼	10/19/18 17:43	10/28/18 05:19	1
Vinyl chloride	<0.00094		0.0021	0.00094	mg/Kg	☼	10/19/18 17:43	10/28/18 05:19	1
Xylenes, Total	<0.00068		0.0042	0.00068	mg/Kg	☼	10/19/18 17:43	10/28/18 05:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		75 - 131	10/19/18 17:43	10/28/18 05:19	1
Dibromofluoromethane	101		75 - 126	10/19/18 17:43	10/28/18 05:19	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134	10/19/18 17:43	10/28/18 05:19	1
Toluene-d8 (Surr)	98		75 - 124	10/19/18 17:43	10/28/18 05:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0073		0.041	0.0073	mg/Kg	☼	10/26/18 07:03	10/28/18 18:21	1
Acenaphthylene	<0.0054		0.041	0.0054	mg/Kg	☼	10/26/18 07:03	10/28/18 18:21	1
Anthracene	<0.0068		0.041	0.0068	mg/Kg	☼	10/26/18 07:03	10/28/18 18:21	1
Benzo[a]anthracene	<0.0055		0.041	0.0055	mg/Kg	☼	10/26/18 07:03	10/28/18 18:21	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153500-1

Client Sample ID: 2947V-17-B16 (0-5)

Lab Sample ID: 500-153500-5

Date Collected: 10/19/18 10:20

Matrix: Solid

Date Received: 10/19/18 11:55

Percent Solids: 80.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.019	J	0.041	0.0079	mg/Kg	☼	10/26/18 07:03	10/28/18 18:21	1
Benzo[b]fluoranthene	<0.0088		0.041	0.0088	mg/Kg	☼	10/26/18 07:03	10/28/18 18:21	1
Benzo[g,h,i]perylene	<0.013		0.041	0.013	mg/Kg	☼	10/26/18 07:03	10/28/18 18:21	1
Benzo[k]fluoranthene	<0.012		0.041	0.012	mg/Kg	☼	10/26/18 07:03	10/28/18 18:21	1
Bis(2-chloroethoxy)methane	<0.042		0.21	0.042	mg/Kg	☼	10/26/18 07:03	10/28/18 18:21	1
Bis(2-chloroethyl)ether	<0.061		0.21	0.061	mg/Kg	☼	10/26/18 07:03	10/28/18 18:21	1
Bis(2-ethylhexyl) phthalate	<0.075		0.21	0.075	mg/Kg	☼	10/26/18 07:03	10/28/18 18:21	1
4-Bromophenyl phenyl ether	<0.054		0.21	0.054	mg/Kg	☼	10/26/18 07:03	10/28/18 18:21	1
Butyl benzyl phthalate	<0.078		0.21	0.078	mg/Kg	☼	10/26/18 07:03	10/28/18 18:21	1
Carbazole	<0.10		0.21	0.10	mg/Kg	☼	10/26/18 07:03	10/28/18 18:21	1
4-Chloroaniline	<0.19		0.82	0.19	mg/Kg	☼	10/26/18 07:03	10/28/18 18:21	1
4-Chloro-3-methylphenol	<0.14		0.41	0.14	mg/Kg	☼	10/26/18 07:03	10/28/18 18:21	1
2-Chloronaphthalene	<0.045		0.21	0.045	mg/Kg	☼	10/26/18 07:03	10/28/18 18:21	1
2-Chlorophenol	<0.070		0.21	0.070	mg/Kg	☼	10/26/18 07:03	10/28/18 18:21	1
4-Chlorophenyl phenyl ether	<0.048		0.21	0.048	mg/Kg	☼	10/26/18 07:03	10/28/18 18:21	1
Chrysene	<0.011		0.041	0.011	mg/Kg	☼	10/26/18 07:03	10/28/18 18:21	1
Dibenz(a,h)anthracene	<0.0079		0.041	0.0079	mg/Kg	☼	10/26/18 07:03	10/28/18 18:21	1
Dibenzofuran	<0.048		0.21	0.048	mg/Kg	☼	10/26/18 07:03	10/28/18 18:21	1
1,2-Dichlorobenzene	<0.049		0.21	0.049	mg/Kg	☼	10/26/18 07:03	10/28/18 18:21	1
1,3-Dichlorobenzene	<0.046		0.21	0.046	mg/Kg	☼	10/26/18 07:03	10/28/18 18:21	1
1,4-Dichlorobenzene	<0.052		0.21	0.052	mg/Kg	☼	10/26/18 07:03	10/28/18 18:21	1
3,3'-Dichlorobenzidine	<0.057		0.21	0.057	mg/Kg	☼	10/26/18 07:03	10/28/18 18:21	1
2,4-Dichlorophenol	<0.097		0.41	0.097	mg/Kg	☼	10/26/18 07:03	10/28/18 18:21	1
Diethyl phthalate	<0.069		0.21	0.069	mg/Kg	☼	10/26/18 07:03	10/28/18 18:21	1
2,4-Dimethylphenol	<0.15		0.41	0.15	mg/Kg	☼	10/26/18 07:03	10/28/18 18:21	1
Dimethyl phthalate	<0.053		0.21	0.053	mg/Kg	☼	10/26/18 07:03	10/28/18 18:21	1
Di-n-butyl phthalate	<0.062		0.21	0.062	mg/Kg	☼	10/26/18 07:03	10/28/18 18:21	1
4,6-Dinitro-2-methylphenol	<0.33		0.82	0.33	mg/Kg	☼	10/26/18 07:03	10/28/18 18:21	1
2,4-Dinitrophenol	<0.72		0.82	0.72	mg/Kg	☼	10/26/18 07:03	10/28/18 18:21	1
2,4-Dinitrotoluene	<0.065		0.21	0.065	mg/Kg	☼	10/26/18 07:03	10/28/18 18:21	1
2,6-Dinitrotoluene	<0.080		0.21	0.080	mg/Kg	☼	10/26/18 07:03	10/28/18 18:21	1
Di-n-octyl phthalate	<0.067		0.21	0.067	mg/Kg	☼	10/26/18 07:03	10/28/18 18:21	1
Fluoranthene	<0.0076		0.041	0.0076	mg/Kg	☼	10/26/18 07:03	10/28/18 18:21	1
Fluorene	<0.0057		0.041	0.0057	mg/Kg	☼	10/26/18 07:03	10/28/18 18:21	1
Hexachlorobenzene	<0.0095		0.082	0.0095	mg/Kg	☼	10/26/18 07:03	10/28/18 18:21	1
Hexachlorobutadiene	<0.064		0.21	0.064	mg/Kg	☼	10/26/18 07:03	10/28/18 18:21	1
Hexachlorocyclopentadiene	<0.23		0.82	0.23	mg/Kg	☼	10/26/18 07:03	10/28/18 18:21	1
Hexachloroethane	<0.062		0.21	0.062	mg/Kg	☼	10/26/18 07:03	10/28/18 18:21	1
Indeno[1,2,3-cd]pyrene	0.020	J	0.041	0.011	mg/Kg	☼	10/26/18 07:03	10/28/18 18:21	1
Isophorone	<0.046		0.21	0.046	mg/Kg	☼	10/26/18 07:03	10/28/18 18:21	1
2-Methylnaphthalene	<0.0075		0.082	0.0075	mg/Kg	☼	10/26/18 07:03	10/28/18 18:21	1
2-Methylphenol	<0.066		0.21	0.066	mg/Kg	☼	10/26/18 07:03	10/28/18 18:21	1
3 & 4 Methylphenol	<0.068		0.21	0.068	mg/Kg	☼	10/26/18 07:03	10/28/18 18:21	1
Naphthalene	<0.0063		0.041	0.0063	mg/Kg	☼	10/26/18 07:03	10/28/18 18:21	1
2-Nitroaniline	<0.055		0.21	0.055	mg/Kg	☼	10/26/18 07:03	10/28/18 18:21	1
3-Nitroaniline	<0.13		0.41	0.13	mg/Kg	☼	10/26/18 07:03	10/28/18 18:21	1
4-Nitroaniline	<0.17		0.41	0.17	mg/Kg	☼	10/26/18 07:03	10/28/18 18:21	1
Nitrobenzene	<0.010		0.041	0.010	mg/Kg	☼	10/26/18 07:03	10/28/18 18:21	1
2-Nitrophenol	<0.097		0.41	0.097	mg/Kg	☼	10/26/18 07:03	10/28/18 18:21	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153500-1

Client Sample ID: 2947V-17-B16 (0-5)

Lab Sample ID: 500-153500-5

Date Collected: 10/19/18 10:20

Matrix: Solid

Date Received: 10/19/18 11:55

Percent Solids: 80.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.39		0.82	0.39	mg/Kg	☼	10/26/18 07:03	10/28/18 18:21	1
N-Nitrosodi-n-propylamine	<0.050		0.082	0.050	mg/Kg	☼	10/26/18 07:03	10/28/18 18:21	1
N-Nitrosodiphenylamine	<0.048		0.21	0.048	mg/Kg	☼	10/26/18 07:03	10/28/18 18:21	1
2,2'-oxybis[1-chloropropane]	<0.047		0.21	0.047	mg/Kg	☼	10/26/18 07:03	10/28/18 18:21	1
Pentachlorophenol	<0.66		0.82	0.66	mg/Kg	☼	10/26/18 07:03	10/28/18 18:21	1
Phenanthrene	0.0058	J	0.041	0.0057	mg/Kg	☼	10/26/18 07:03	10/28/18 18:21	1
Phenol	<0.091		0.21	0.091	mg/Kg	☼	10/26/18 07:03	10/28/18 18:21	1
Pyrene	<0.0081		0.041	0.0081	mg/Kg	☼	10/26/18 07:03	10/28/18 18:21	1
1,2,4-Trichlorobenzene	<0.044		0.21	0.044	mg/Kg	☼	10/26/18 07:03	10/28/18 18:21	1
2,4,5-Trichlorophenol	<0.093		0.41	0.093	mg/Kg	☼	10/26/18 07:03	10/28/18 18:21	1
2,4,6-Trichlorophenol	<0.14		0.41	0.14	mg/Kg	☼	10/26/18 07:03	10/28/18 18:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	99		43 - 145				10/26/18 07:03	10/28/18 18:21	1
2-Fluorophenol	140		31 - 166				10/26/18 07:03	10/28/18 18:21	1
Nitrobenzene-d5	96		37 - 147				10/26/18 07:03	10/28/18 18:21	1
Phenol-d5	128		30 - 153				10/26/18 07:03	10/28/18 18:21	1
Terphenyl-d14	112		42 - 157				10/26/18 07:03	10/28/18 18:21	1
2,4,6-Tribromophenol	70		31 - 143				10/26/18 07:03	10/28/18 18:21	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.22		1.1	0.22	mg/Kg	☼	10/25/18 17:55	10/27/18 00:12	1
Arsenic	8.2		0.57	0.19	mg/Kg	☼	10/25/18 17:55	10/27/18 00:12	1
Barium	130		2.8	0.32	mg/Kg	☼	10/25/18 17:55	10/29/18 10:46	5
Beryllium	1.3		1.1	0.27	mg/Kg	☼	10/25/18 17:55	10/29/18 10:46	5
Cadmium	0.14	B	0.11	0.020	mg/Kg	☼	10/25/18 17:55	10/27/18 00:12	1
Chromium	14		0.57	0.28	mg/Kg	☼	10/25/18 17:55	10/27/18 00:12	1
Cobalt	11		0.28	0.075	mg/Kg	☼	10/25/18 17:55	10/27/18 00:12	1
Copper	15		0.57	0.16	mg/Kg	☼	10/25/18 17:55	10/27/18 00:12	1
Iron	30000		57	30	mg/Kg	☼	10/25/18 17:55	10/29/18 10:46	5
Lead	18		0.28	0.13	mg/Kg	☼	10/25/18 17:55	10/27/18 00:12	1
Magnesium	18000		28	14	mg/Kg	☼	10/25/18 17:55	10/29/18 10:46	5
Calcium	26000	B	57	9.6	mg/Kg	☼	10/25/18 17:55	10/29/18 10:46	5
Manganese	940		2.8	0.41	mg/Kg	☼	10/25/18 17:55	10/29/18 10:46	5
Nickel	33		0.57	0.17	mg/Kg	☼	10/25/18 17:55	10/27/18 00:12	1
Selenium	<0.33		0.57	0.33	mg/Kg	☼	10/25/18 17:55	10/27/18 00:12	1
Silver	0.35		0.28	0.073	mg/Kg	☼	10/25/18 17:55	10/27/18 00:12	1
Thallium	<0.28		0.57	0.28	mg/Kg	☼	10/25/18 17:55	10/27/18 00:12	1
Vanadium	24		0.28	0.067	mg/Kg	☼	10/25/18 17:55	10/27/18 00:12	1
Zinc	67	B	1.1	0.50	mg/Kg	☼	10/25/18 17:55	10/27/18 00:12	1
Potassium	2100		140	50	mg/Kg	☼	10/25/18 17:55	10/29/18 10:46	5
Sodium	850		280	42	mg/Kg	☼	10/25/18 17:55	10/29/18 10:46	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		10/29/18 08:56	10/29/18 16:19	1
Barium	0.75		0.50	0.050	mg/L		10/29/18 08:56	10/29/18 16:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/29/18 08:56	10/29/18 16:19	1
Cadmium	0.0027	J	0.0050	0.0020	mg/L		10/29/18 08:56	10/29/18 16:19	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153500-1

Client Sample ID: 2947V-17-B16 (0-5)

Lab Sample ID: 500-153500-5

Date Collected: 10/19/18 10:20

Matrix: Solid

Date Received: 10/19/18 11:55

Percent Solids: 80.0

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		10/29/18 08:56	10/29/18 16:19	1
Chromium	<0.010		0.025	0.010	mg/L		10/29/18 08:56	10/29/18 16:19	1
Cobalt	<0.010		0.025	0.010	mg/L		10/29/18 08:56	10/29/18 16:19	1
Copper	<0.010	F1	0.025	0.010	mg/L		10/29/18 08:56	10/29/18 16:19	1
Iron	<0.20		0.40	0.20	mg/L		10/29/18 08:56	10/29/18 16:19	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/29/18 08:56	10/29/18 16:19	1
Magnesium	170		2.5	0.50	mg/L		10/29/18 08:56	10/29/18 16:19	1
Manganese	0.42		0.025	0.010	mg/L		10/29/18 08:56	10/29/18 16:19	1
Nickel	0.010	J	0.025	0.010	mg/L		10/29/18 08:56	10/29/18 16:19	1
Potassium	1.4	J	2.5	0.50	mg/L		10/29/18 08:56	10/29/18 16:19	1
Selenium	<0.020		0.050	0.020	mg/L		10/29/18 08:56	10/29/18 16:19	1
Silver	<0.010		0.025	0.010	mg/L		10/29/18 08:56	10/29/18 16:19	1
Vanadium	<0.010		0.025	0.010	mg/L		10/29/18 08:56	10/29/18 16:19	1
Zinc	<0.020		0.50	0.020	mg/L		10/29/18 08:56	10/29/18 16:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.9		0.025	0.010	mg/L		10/29/18 08:53	10/29/18 19:41	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		10/29/18 08:56	10/29/18 16:10	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/29/18 08:56	10/29/18 16:10	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		10/26/18 11:15	10/29/18 09:44	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.040		0.020	0.0068	mg/Kg	☼	10/25/18 17:20	10/26/18 10:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.20		0.58	0.20	mg/Kg	☼	10/30/18 18:00	10/31/18 12:12	1
pH	7.5		0.2	0.2	SU			10/26/18 15:06	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153500-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance 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.

Metals

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.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
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.

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 - Romeville - WO 054

TestAmerica Job ID: 500-153500-1

GC/MS VOA

Prep Batch: 455988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153500-1	2947V-17-B20 (0-5)	Total/NA	Solid	5035	
500-153500-2	2947V-17-B19 (0-5)	Total/NA	Solid	5035	
500-153500-3	2947V-17-B18 (0-5)	Total/NA	Solid	5035	
500-153500-4	2947V-17-B17 (0-5)	Total/NA	Solid	5035	
500-153500-5	2947V-17-B16 (0-5)	Total/NA	Solid	5035	

Analysis Batch: 457169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153500-1	2947V-17-B20 (0-5)	Total/NA	Solid	8260B	455988
500-153500-2	2947V-17-B19 (0-5)	Total/NA	Solid	8260B	455988
500-153500-3	2947V-17-B18 (0-5)	Total/NA	Solid	8260B	455988
500-153500-4	2947V-17-B17 (0-5)	Total/NA	Solid	8260B	455988
500-153500-5	2947V-17-B16 (0-5)	Total/NA	Solid	8260B	455988
MB 500-457169/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-457169/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-457169/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 456907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153500-1	2947V-17-B20 (0-5)	Total/NA	Solid	3541	
500-153500-2	2947V-17-B19 (0-5)	Total/NA	Solid	3541	
500-153500-3	2947V-17-B18 (0-5)	Total/NA	Solid	3541	
500-153500-4	2947V-17-B17 (0-5)	Total/NA	Solid	3541	
500-153500-5	2947V-17-B16 (0-5)	Total/NA	Solid	3541	
MB 500-456907/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-456907/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 457137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-456907/1-A	Method Blank	Total/NA	Solid	8270D	456907
LCS 500-456907/2-A	Lab Control Sample	Total/NA	Solid	8270D	456907

Analysis Batch: 457200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153500-1	2947V-17-B20 (0-5)	Total/NA	Solid	8270D	456907
500-153500-2	2947V-17-B19 (0-5)	Total/NA	Solid	8270D	456907
500-153500-3	2947V-17-B18 (0-5)	Total/NA	Solid	8270D	456907
500-153500-4	2947V-17-B17 (0-5)	Total/NA	Solid	8270D	456907
500-153500-5	2947V-17-B16 (0-5)	Total/NA	Solid	8270D	456907

Metals

Leach Batch: 456830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153500-1	2947V-17-B20 (0-5)	TCLP	Solid	1311	
500-153500-2	2947V-17-B19 (0-5)	TCLP	Solid	1311	
500-153500-3	2947V-17-B18 (0-5)	TCLP	Solid	1311	
500-153500-4	2947V-17-B17 (0-5)	TCLP	Solid	1311	

TestAmerica Chicago

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153500-1

Metals (Continued)

Leach Batch: 456830 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153500-5	2947V-17-B16 (0-5)	TCLP	Solid	1311	
LB 500-456830/1-B	Method Blank	TCLP	Solid	1311	
LB 500-456830/1-C	Method Blank	TCLP	Solid	1311	
500-153500-5 MS	2947V-17-B16 (0-5)	TCLP	Solid	1311	
500-153500-5 DU	2947V-17-B16 (0-5)	TCLP	Solid	1311	

Leach Batch: 456836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153500-1	2947V-17-B20 (0-5)	SPLP East	Solid	1312	
500-153500-2	2947V-17-B19 (0-5)	SPLP East	Solid	1312	
500-153500-5	2947V-17-B16 (0-5)	SPLP East	Solid	1312	
LB 500-456836/1-D	Method Blank	SPLP East	Solid	1312	

Prep Batch: 456843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153500-1	2947V-17-B20 (0-5)	Total/NA	Solid	7471B	
500-153500-2	2947V-17-B19 (0-5)	Total/NA	Solid	7471B	
500-153500-3	2947V-17-B18 (0-5)	Total/NA	Solid	7471B	
500-153500-4	2947V-17-B17 (0-5)	Total/NA	Solid	7471B	
500-153500-5	2947V-17-B16 (0-5)	Total/NA	Solid	7471B	
MB 500-456843/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-456843/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Prep Batch: 456877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153500-1	2947V-17-B20 (0-5)	Total/NA	Solid	3050B	
500-153500-2	2947V-17-B19 (0-5)	Total/NA	Solid	3050B	
500-153500-3	2947V-17-B18 (0-5)	Total/NA	Solid	3050B	
500-153500-4	2947V-17-B17 (0-5)	Total/NA	Solid	3050B	
500-153500-5	2947V-17-B16 (0-5)	Total/NA	Solid	3050B	
MB 500-456877/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-456877/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 457000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153500-1	2947V-17-B20 (0-5)	TCLP	Solid	7470A	456830
500-153500-2	2947V-17-B19 (0-5)	TCLP	Solid	7470A	456830
500-153500-3	2947V-17-B18 (0-5)	TCLP	Solid	7470A	456830
500-153500-4	2947V-17-B17 (0-5)	TCLP	Solid	7470A	456830
500-153500-5	2947V-17-B16 (0-5)	TCLP	Solid	7470A	456830
LB 500-456830/1-B	Method Blank	TCLP	Solid	7470A	456830
MB 500-457000/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-457000/13-A	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 457006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153500-1	2947V-17-B20 (0-5)	Total/NA	Solid	7471B	456843
500-153500-2	2947V-17-B19 (0-5)	Total/NA	Solid	7471B	456843
500-153500-3	2947V-17-B18 (0-5)	Total/NA	Solid	7471B	456843
500-153500-4	2947V-17-B17 (0-5)	Total/NA	Solid	7471B	456843
500-153500-5	2947V-17-B16 (0-5)	Total/NA	Solid	7471B	456843

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153500-1

Metals (Continued)

Analysis Batch: 457006 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-456843/12-A	Method Blank	Total/NA	Solid	7471B	456843
LCS 500-456843/13-A	Lab Control Sample	Total/NA	Solid	7471B	456843

Analysis Batch: 457255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153500-1	2947V-17-B20 (0-5)	Total/NA	Solid	6010B	456877
500-153500-2	2947V-17-B19 (0-5)	Total/NA	Solid	6010B	456877
500-153500-3	2947V-17-B18 (0-5)	Total/NA	Solid	6010B	456877
500-153500-4	2947V-17-B17 (0-5)	Total/NA	Solid	6010B	456877
500-153500-5	2947V-17-B16 (0-5)	Total/NA	Solid	6010B	456877
MB 500-456877/1-A	Method Blank	Total/NA	Solid	6010B	456877
LCS 500-456877/2-A	Lab Control Sample	Total/NA	Solid	6010B	456877

Prep Batch: 457290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153500-1	2947V-17-B20 (0-5)	SPLP East	Solid	3010A	456836
500-153500-2	2947V-17-B19 (0-5)	SPLP East	Solid	3010A	456836
500-153500-5	2947V-17-B16 (0-5)	SPLP East	Solid	3010A	456836
LB 500-456836/1-D	Method Blank	SPLP East	Solid	3010A	456836
LCS 500-457290/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 457291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153500-1	2947V-17-B20 (0-5)	TCLP	Solid	3010A	456830
500-153500-2	2947V-17-B19 (0-5)	TCLP	Solid	3010A	456830
500-153500-3	2947V-17-B18 (0-5)	TCLP	Solid	3010A	456830
500-153500-4	2947V-17-B17 (0-5)	TCLP	Solid	3010A	456830
500-153500-5	2947V-17-B16 (0-5)	TCLP	Solid	3010A	456830
LB 500-456830/1-C	Method Blank	TCLP	Solid	3010A	456830
LCS 500-457291/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-153500-5 MS	2947V-17-B16 (0-5)	TCLP	Solid	3010A	456830
500-153500-5 DU	2947V-17-B16 (0-5)	TCLP	Solid	3010A	456830

Analysis Batch: 457347

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153500-1	2947V-17-B20 (0-5)	TCLP	Solid	7470A	457000
500-153500-2	2947V-17-B19 (0-5)	TCLP	Solid	7470A	457000
500-153500-3	2947V-17-B18 (0-5)	TCLP	Solid	7470A	457000
500-153500-4	2947V-17-B17 (0-5)	TCLP	Solid	7470A	457000
500-153500-5	2947V-17-B16 (0-5)	TCLP	Solid	7470A	457000
LB 500-456830/1-B	Method Blank	TCLP	Solid	7470A	457000
MB 500-457000/12-A	Method Blank	Total/NA	Solid	7470A	457000
LCS 500-457000/13-A	Lab Control Sample	Total/NA	Solid	7470A	457000

Analysis Batch: 457366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153500-5	2947V-17-B16 (0-5)	Total/NA	Solid	6010B	456877

Analysis Batch: 457445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153500-1	2947V-17-B20 (0-5)	SPLP East	Solid	6010B	457290

TestAmerica Chicago

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153500-1

Metals (Continued)

Analysis Batch: 457445 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153500-1	2947V-17-B20 (0-5)	TCLP	Solid	6010B	457291
500-153500-2	2947V-17-B19 (0-5)	SPLP East	Solid	6010B	457290
500-153500-2	2947V-17-B19 (0-5)	TCLP	Solid	6010B	457291
500-153500-3	2947V-17-B18 (0-5)	TCLP	Solid	6010B	457291
500-153500-4	2947V-17-B17 (0-5)	TCLP	Solid	6010B	457291
500-153500-5	2947V-17-B16 (0-5)	SPLP East	Solid	6010B	457290
500-153500-5	2947V-17-B16 (0-5)	TCLP	Solid	6010B	457291
LB 500-456830/1-C	Method Blank	TCLP	Solid	6010B	457291
LB 500-456836/1-D	Method Blank	SPLP East	Solid	6010B	457290
LCS 500-457290/2-A	Lab Control Sample	Total/NA	Solid	6010B	457290
LCS 500-457291/2-A	Lab Control Sample	Total/NA	Solid	6010B	457291
500-153500-5 MS	2947V-17-B16 (0-5)	TCLP	Solid	6010B	457291
500-153500-5 DU	2947V-17-B16 (0-5)	TCLP	Solid	6010B	457291

Analysis Batch: 457531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153500-1	2947V-17-B20 (0-5)	TCLP	Solid	6020A	457291
500-153500-2	2947V-17-B19 (0-5)	TCLP	Solid	6020A	457291
500-153500-3	2947V-17-B18 (0-5)	TCLP	Solid	6020A	457291
500-153500-4	2947V-17-B17 (0-5)	TCLP	Solid	6020A	457291
500-153500-5	2947V-17-B16 (0-5)	TCLP	Solid	6020A	457291
LB 500-456830/1-C	Method Blank	TCLP	Solid	6020A	457291
LCS 500-457291/2-A	Lab Control Sample	Total/NA	Solid	6020A	457291
500-153500-5 MS	2947V-17-B16 (0-5)	TCLP	Solid	6020A	457291
500-153500-5 DU	2947V-17-B16 (0-5)	TCLP	Solid	6020A	457291

General Chemistry

Analysis Batch: 456381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153500-1	2947V-17-B20 (0-5)	Total/NA	Solid	Moisture	
500-153500-2	2947V-17-B19 (0-5)	Total/NA	Solid	Moisture	
500-153500-3	2947V-17-B18 (0-5)	Total/NA	Solid	Moisture	
500-153500-4	2947V-17-B17 (0-5)	Total/NA	Solid	Moisture	
500-153500-5	2947V-17-B16 (0-5)	Total/NA	Solid	Moisture	
500-153500-3 DU	2947V-17-B18 (0-5)	Total/NA	Solid	Moisture	

Analysis Batch: 457075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153500-1	2947V-17-B20 (0-5)	Total/NA	Solid	9045D	
500-153500-2	2947V-17-B19 (0-5)	Total/NA	Solid	9045D	
500-153500-3	2947V-17-B18 (0-5)	Total/NA	Solid	9045D	
500-153500-4	2947V-17-B17 (0-5)	Total/NA	Solid	9045D	
500-153500-5	2947V-17-B16 (0-5)	Total/NA	Solid	9045D	

Prep Batch: 457601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153500-1	2947V-17-B20 (0-5)	Total/NA	Solid	9010B	
500-153500-2	2947V-17-B19 (0-5)	Total/NA	Solid	9010B	
500-153500-3	2947V-17-B18 (0-5)	Total/NA	Solid	9010B	

TestAmerica Chicago

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153500-1

General Chemistry (Continued)

Prep Batch: 457601 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153500-4	2947V-17-B17 (0-5)	Total/NA	Solid	9010B	
500-153500-5	2947V-17-B16 (0-5)	Total/NA	Solid	9010B	
MB 500-457601/15-A	Method Blank	Total/NA	Solid	9010B	
LCS 500-457601/16-A	Lab Control Sample	Total/NA	Solid	9010B	

Analysis Batch: 457785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153500-1	2947V-17-B20 (0-5)	Total/NA	Solid	9014	457601
500-153500-2	2947V-17-B19 (0-5)	Total/NA	Solid	9014	457601
500-153500-3	2947V-17-B18 (0-5)	Total/NA	Solid	9014	457601
500-153500-4	2947V-17-B17 (0-5)	Total/NA	Solid	9014	457601
500-153500-5	2947V-17-B16 (0-5)	Total/NA	Solid	9014	457601
MB 500-457601/15-A	Method Blank	Total/NA	Solid	9014	457601
LCS 500-457601/16-A	Lab Control Sample	Total/NA	Solid	9014	457601

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153500-1

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)
500-153500-1	2947V-17-B20 (0-5)	103	101	109	96
500-153500-2	2947V-17-B19 (0-5)	99	100	103	97
500-153500-3	2947V-17-B18 (0-5)	102	101	109	99
500-153500-4	2947V-17-B17 (0-5)	100	102	107	97
500-153500-5	2947V-17-B16 (0-5)	101	101	106	98
LCS 500-457169/4	Lab Control Sample	93	99	98	99
LCSD 500-457169/5	Lab Control Sample Dup	93	97	98	99
MB 500-457169/6	Method Blank	103	98	103	97

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)
500-153500-1	2947V-17-B20 (0-5)	87	116	81	106	94	55
500-153500-2	2947V-17-B19 (0-5)	104	143	99	133	113	65
500-153500-3	2947V-17-B18 (0-5)	93	134	92	123	106	88
500-153500-4	2947V-17-B17 (0-5)	91	128	91	117	102	48
500-153500-5	2947V-17-B16 (0-5)	99	140	96	128	112	70
LCS 500-456907/2-A	Lab Control Sample	108	146	109	117	127	81
MB 500-456907/1-A	Method Blank	106	165	95	125	135	57

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 - Romeoville - WO 054

TestAmerica Job ID: 500-153500-1

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

Lab Sample ID: MB 500-457169/6

Matrix: Solid

Analysis Batch: 457169

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0087		0.020	0.0087	mg/Kg			10/28/18 03:10	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg			10/28/18 03:10	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg			10/28/18 03:10	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg			10/28/18 03:10	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg			10/28/18 03:10	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			10/28/18 03:10	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg			10/28/18 03:10	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg			10/28/18 03:10	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg			10/28/18 03:10	1
Chloroethane	<0.0015		0.0050	0.0015	mg/Kg			10/28/18 03:10	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg			10/28/18 03:10	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg			10/28/18 03:10	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg			10/28/18 03:10	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg			10/28/18 03:10	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg			10/28/18 03:10	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg			10/28/18 03:10	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg			10/28/18 03:10	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg			10/28/18 03:10	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			10/28/18 03:10	1
1,3-Dichloropropene, Total	<0.00070		0.0020	0.00070	mg/Kg			10/28/18 03:10	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg			10/28/18 03:10	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg			10/28/18 03:10	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg			10/28/18 03:10	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg			10/28/18 03:10	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg			10/28/18 03:10	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg			10/28/18 03:10	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg			10/28/18 03:10	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg			10/28/18 03:10	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg			10/28/18 03:10	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg			10/28/18 03:10	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg			10/28/18 03:10	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg			10/28/18 03:10	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg			10/28/18 03:10	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg			10/28/18 03:10	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg			10/28/18 03:10	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg			10/28/18 03:10	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg			10/28/18 03:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		75 - 131		10/28/18 03:10	1
Dibromofluoromethane	98		75 - 126		10/28/18 03:10	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134		10/28/18 03:10	1
Toluene-d8 (Surr)	97		75 - 124		10/28/18 03:10	1

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153500-1

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

Lab Sample ID: LCS 500-457169/4

Matrix: Solid

Analysis Batch: 457169

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	0.0456		mg/Kg		91	40 - 150
Benzene	0.0500	0.0419		mg/Kg		84	70 - 125
Bromodichloromethane	0.0500	0.0439		mg/Kg		88	67 - 129
Bromoform	0.0500	0.0440		mg/Kg		88	68 - 136
Bromomethane	0.0500	0.0451		mg/Kg		90	70 - 130
2-Butanone (MEK)	0.0500	0.0424		mg/Kg		85	47 - 138
Carbon disulfide	0.0500	0.0395		mg/Kg		79	70 - 129
Carbon tetrachloride	0.0500	0.0393		mg/Kg		79	75 - 125
Chlorobenzene	0.0500	0.0402		mg/Kg		80	50 - 150
Chloroethane	0.0500	0.0361	*	mg/Kg		72	75 - 125
Chloroform	0.0500	0.0423		mg/Kg		85	57 - 135
Chloromethane	0.0500	0.0423		mg/Kg		85	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0406		mg/Kg		81	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0412		mg/Kg		82	70 - 125
Dibromochloromethane	0.0500	0.0428		mg/Kg		86	69 - 125
1,1-Dichloroethane	0.0500	0.0413		mg/Kg		83	70 - 125
1,2-Dichloroethane	0.0500	0.0441		mg/Kg		88	70 - 130
1,1-Dichloroethene	0.0500	0.0386		mg/Kg		77	70 - 120
1,2-Dichloropropane	0.0500	0.0422		mg/Kg		84	70 - 125
Ethylbenzene	0.0500	0.0399		mg/Kg		80	61 - 136
2-Hexanone	0.0500	0.0445		mg/Kg		89	48 - 146
Methylene Chloride	0.0500	0.0418		mg/Kg		84	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0453		mg/Kg		91	50 - 148
Methyl tert-butyl ether	0.0500	0.0457		mg/Kg		91	50 - 140
Styrene	0.0500	0.0426		mg/Kg		85	70 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.0432		mg/Kg		86	70 - 122
Tetrachloroethene	0.0500	0.0379		mg/Kg		76	70 - 124
Toluene	0.0500	0.0399		mg/Kg		80	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0406		mg/Kg		81	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0433		mg/Kg		87	70 - 125
1,1,1-Trichloroethane	0.0500	0.0400		mg/Kg		80	70 - 128
1,1,2-Trichloroethane	0.0500	0.0433		mg/Kg		87	70 - 125
Trichloroethene	0.0500	0.0398		mg/Kg		80	70 - 125
Vinyl acetate	0.0500	0.0361		mg/Kg		72	40 - 153
Vinyl chloride	0.0500	0.0429		mg/Kg		86	70 - 125
Xylenes, Total	0.100	0.0804		mg/Kg		80	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	93		75 - 131
Dibromofluoromethane	99		75 - 126
1,2-Dichloroethane-d4 (Surr)	98		70 - 134
Toluene-d8 (Surr)	99		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153500-1

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

Lab Sample ID: LCSD 500-457169/5

Matrix: Solid

Analysis Batch: 457169

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	0.0441		mg/Kg		88	40 - 150	3	30
Benzene	0.0500	0.0417		mg/Kg		83	70 - 125	0	30
Bromodichloromethane	0.0500	0.0423		mg/Kg		85	67 - 129	4	30
Bromoform	0.0500	0.0418		mg/Kg		84	68 - 136	5	30
Bromomethane	0.0500	0.0453		mg/Kg		91	70 - 130	1	30
2-Butanone (MEK)	0.0500	0.0443		mg/Kg		89	47 - 138	4	30
Carbon disulfide	0.0500	0.0399		mg/Kg		80	70 - 129	1	30
Carbon tetrachloride	0.0500	0.0401		mg/Kg		80	75 - 125	2	30
Chlorobenzene	0.0500	0.0397		mg/Kg		79	50 - 150	1	30
Chloroethane	0.0500	0.0348	*	mg/Kg		70	75 - 125	4	30
Chloroform	0.0500	0.0415		mg/Kg		83	57 - 135	2	30
Chloromethane	0.0500	0.0416		mg/Kg		83	70 - 125	2	30
cis-1,2-Dichloroethene	0.0500	0.0412		mg/Kg		82	70 - 125	2	30
cis-1,3-Dichloropropene	0.0500	0.0410		mg/Kg		82	70 - 125	0	30
Dibromochloromethane	0.0500	0.0424		mg/Kg		85	69 - 125	1	30
1,1-Dichloroethane	0.0500	0.0413		mg/Kg		83	70 - 125	0	30
1,2-Dichloroethane	0.0500	0.0442		mg/Kg		88	70 - 130	0	30
1,1-Dichloroethene	0.0500	0.0386		mg/Kg		77	70 - 120	0	30
1,2-Dichloropropane	0.0500	0.0420		mg/Kg		84	70 - 125	1	30
Ethylbenzene	0.0500	0.0403		mg/Kg		81	61 - 136	1	30
2-Hexanone	0.0500	0.0431		mg/Kg		86	48 - 146	3	30
Methylene Chloride	0.0500	0.0393		mg/Kg		79	70 - 126	6	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0430		mg/Kg		86	50 - 148	5	30
Methyl tert-butyl ether	0.0500	0.0429		mg/Kg		86	50 - 140	6	30
Styrene	0.0500	0.0423		mg/Kg		85	70 - 125	1	30
1,1,1,2-Tetrachloroethane	0.0500	0.0414		mg/Kg		83	70 - 122	4	30
Tetrachloroethene	0.0500	0.0379		mg/Kg		76	70 - 124	0	30
Toluene	0.0500	0.0395		mg/Kg		79	70 - 125	1	30
trans-1,2-Dichloroethene	0.0500	0.0402		mg/Kg		80	70 - 125	1	30
trans-1,3-Dichloropropene	0.0500	0.0424		mg/Kg		85	70 - 125	2	30
1,1,1-Trichloroethane	0.0500	0.0412		mg/Kg		82	70 - 128	3	30
1,1,2-Trichloroethane	0.0500	0.0407		mg/Kg		81	70 - 125	6	30
Trichloroethene	0.0500	0.0390		mg/Kg		78	70 - 125	2	30
Vinyl acetate	0.0500	0.0363		mg/Kg		73	40 - 153	1	30
Vinyl chloride	0.0500	0.0410		mg/Kg		82	70 - 125	5	30
Xylenes, Total	0.100	0.0797		mg/Kg		80	53 - 147	1	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	93		75 - 131
Dibromofluoromethane	97		75 - 126
1,2-Dichloroethane-d4 (Surr)	98		70 - 134
Toluene-d8 (Surr)	99		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153500-1

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

Lab Sample ID: MB 500-456907/1-A

Matrix: Solid

Analysis Batch: 457137

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 456907

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0060		0.033	0.0060	mg/Kg		10/26/18 07:03	10/27/18 16:55	1
Acenaphthylene	<0.0044		0.033	0.0044	mg/Kg		10/26/18 07:03	10/27/18 16:55	1
Anthracene	<0.0056		0.033	0.0056	mg/Kg		10/26/18 07:03	10/27/18 16:55	1
Benzo[a]anthracene	<0.0045		0.033	0.0045	mg/Kg		10/26/18 07:03	10/27/18 16:55	1
Benzo[a]pyrene	<0.0064		0.033	0.0064	mg/Kg		10/26/18 07:03	10/27/18 16:55	1
Benzo[b]fluoranthene	<0.0072		0.033	0.0072	mg/Kg		10/26/18 07:03	10/27/18 16:55	1
Benzo[g,h,i]perylene	<0.011		0.033	0.011	mg/Kg		10/26/18 07:03	10/27/18 16:55	1
Benzo[k]fluoranthene	<0.0098		0.033	0.0098	mg/Kg		10/26/18 07:03	10/27/18 16:55	1
Bis(2-chloroethoxy)methane	<0.034		0.17	0.034	mg/Kg		10/26/18 07:03	10/27/18 16:55	1
Bis(2-chloroethyl)ether	<0.050		0.17	0.050	mg/Kg		10/26/18 07:03	10/27/18 16:55	1
Bis(2-ethylhexyl) phthalate	<0.061		0.17	0.061	mg/Kg		10/26/18 07:03	10/27/18 16:55	1
4-Bromophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		10/26/18 07:03	10/27/18 16:55	1
Butyl benzyl phthalate	<0.063		0.17	0.063	mg/Kg		10/26/18 07:03	10/27/18 16:55	1
Carbazole	<0.083		0.17	0.083	mg/Kg		10/26/18 07:03	10/27/18 16:55	1
4-Chloroaniline	<0.16		0.67	0.16	mg/Kg		10/26/18 07:03	10/27/18 16:55	1
4-Chloro-3-methylphenol	<0.11		0.33	0.11	mg/Kg		10/26/18 07:03	10/27/18 16:55	1
2-Chloronaphthalene	<0.037		0.17	0.037	mg/Kg		10/26/18 07:03	10/27/18 16:55	1
2-Chlorophenol	<0.057		0.17	0.057	mg/Kg		10/26/18 07:03	10/27/18 16:55	1
4-Chlorophenyl phenyl ether	<0.039		0.17	0.039	mg/Kg		10/26/18 07:03	10/27/18 16:55	1
Chrysene	<0.0091		0.033	0.0091	mg/Kg		10/26/18 07:03	10/27/18 16:55	1
Dibenz(a,h)anthracene	<0.0064		0.033	0.0064	mg/Kg		10/26/18 07:03	10/27/18 16:55	1
Dibenzofuran	<0.039		0.17	0.039	mg/Kg		10/26/18 07:03	10/27/18 16:55	1
1,2-Dichlorobenzene	<0.040		0.17	0.040	mg/Kg		10/26/18 07:03	10/27/18 16:55	1
1,3-Dichlorobenzene	<0.037		0.17	0.037	mg/Kg		10/26/18 07:03	10/27/18 16:55	1
1,4-Dichlorobenzene	<0.043		0.17	0.043	mg/Kg		10/26/18 07:03	10/27/18 16:55	1
3,3'-Dichlorobenzidine	<0.047		0.17	0.047	mg/Kg		10/26/18 07:03	10/27/18 16:55	1
2,4-Dichlorophenol	<0.079		0.33	0.079	mg/Kg		10/26/18 07:03	10/27/18 16:55	1
Diethyl phthalate	<0.056		0.17	0.056	mg/Kg		10/26/18 07:03	10/27/18 16:55	1
2,4-Dimethylphenol	<0.13		0.33	0.13	mg/Kg		10/26/18 07:03	10/27/18 16:55	1
Dimethyl phthalate	<0.043		0.17	0.043	mg/Kg		10/26/18 07:03	10/27/18 16:55	1
Di-n-butyl phthalate	<0.051		0.17	0.051	mg/Kg		10/26/18 07:03	10/27/18 16:55	1
4,6-Dinitro-2-methylphenol	<0.27		0.67	0.27	mg/Kg		10/26/18 07:03	10/27/18 16:55	1
2,4-Dinitrophenol	<0.59		0.67	0.59	mg/Kg		10/26/18 07:03	10/27/18 16:55	1
2,4-Dinitrotoluene	<0.053		0.17	0.053	mg/Kg		10/26/18 07:03	10/27/18 16:55	1
2,6-Dinitrotoluene	<0.065		0.17	0.065	mg/Kg		10/26/18 07:03	10/27/18 16:55	1
Di-n-octyl phthalate	<0.054		0.17	0.054	mg/Kg		10/26/18 07:03	10/27/18 16:55	1
Fluoranthene	<0.0062		0.033	0.0062	mg/Kg		10/26/18 07:03	10/27/18 16:55	1
Fluorene	<0.0047		0.033	0.0047	mg/Kg		10/26/18 07:03	10/27/18 16:55	1
Hexachlorobenzene	<0.0077		0.067	0.0077	mg/Kg		10/26/18 07:03	10/27/18 16:55	1
Hexachlorobutadiene	<0.052		0.17	0.052	mg/Kg		10/26/18 07:03	10/27/18 16:55	1
Hexachlorocyclopentadiene	<0.19		0.67	0.19	mg/Kg		10/26/18 07:03	10/27/18 16:55	1
Hexachloroethane	<0.051		0.17	0.051	mg/Kg		10/26/18 07:03	10/27/18 16:55	1
Indeno[1,2,3-cd]pyrene	<0.0086		0.033	0.0086	mg/Kg		10/26/18 07:03	10/27/18 16:55	1
Isophorone	<0.037		0.17	0.037	mg/Kg		10/26/18 07:03	10/27/18 16:55	1
2-Methylnaphthalene	<0.0061		0.067	0.0061	mg/Kg		10/26/18 07:03	10/27/18 16:55	1
2-Methylphenol	<0.053		0.17	0.053	mg/Kg		10/26/18 07:03	10/27/18 16:55	1
3 & 4 Methylphenol	<0.055		0.17	0.055	mg/Kg		10/26/18 07:03	10/27/18 16:55	1
Naphthalene	<0.0051		0.033	0.0051	mg/Kg		10/26/18 07:03	10/27/18 16:55	1

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153500-1

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

Lab Sample ID: MB 500-456907/1-A
Matrix: Solid
Analysis Batch: 457137

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 456907

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	<0.045		0.17	0.045	mg/Kg		10/26/18 07:03	10/27/18 16:55	1
3-Nitroaniline	<0.10		0.33	0.10	mg/Kg		10/26/18 07:03	10/27/18 16:55	1
4-Nitroaniline	<0.14		0.33	0.14	mg/Kg		10/26/18 07:03	10/27/18 16:55	1
Nitrobenzene	<0.0083		0.033	0.0083	mg/Kg		10/26/18 07:03	10/27/18 16:55	1
2-Nitrophenol	<0.079		0.33	0.079	mg/Kg		10/26/18 07:03	10/27/18 16:55	1
4-Nitrophenol	<0.32		0.67	0.32	mg/Kg		10/26/18 07:03	10/27/18 16:55	1
N-Nitrosodi-n-propylamine	<0.041		0.067	0.041	mg/Kg		10/26/18 07:03	10/27/18 16:55	1
N-Nitrosodiphenylamine	<0.039		0.17	0.039	mg/Kg		10/26/18 07:03	10/27/18 16:55	1
2,2'-oxybis[1-chloropropane]	<0.039		0.17	0.039	mg/Kg		10/26/18 07:03	10/27/18 16:55	1
Pentachlorophenol	<0.53		0.67	0.53	mg/Kg		10/26/18 07:03	10/27/18 16:55	1
Phenanthrene	<0.0046		0.033	0.0046	mg/Kg		10/26/18 07:03	10/27/18 16:55	1
Phenol	<0.074		0.17	0.074	mg/Kg		10/26/18 07:03	10/27/18 16:55	1
Pyrene	<0.0066		0.033	0.0066	mg/Kg		10/26/18 07:03	10/27/18 16:55	1
1,2,4-Trichlorobenzene	<0.036		0.17	0.036	mg/Kg		10/26/18 07:03	10/27/18 16:55	1
2,4,5-Trichlorophenol	<0.076		0.33	0.076	mg/Kg		10/26/18 07:03	10/27/18 16:55	1
2,4,6-Trichlorophenol	<0.11		0.33	0.11	mg/Kg		10/26/18 07:03	10/27/18 16:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	106		43 - 145	10/26/18 07:03	10/27/18 16:55	1
2-Fluorophenol	165		31 - 166	10/26/18 07:03	10/27/18 16:55	1
Nitrobenzene-d5	95		37 - 147	10/26/18 07:03	10/27/18 16:55	1
Phenol-d5	125		30 - 153	10/26/18 07:03	10/27/18 16:55	1
Terphenyl-d14	135		42 - 157	10/26/18 07:03	10/27/18 16:55	1
2,4,6-Tribromophenol	57		31 - 143	10/26/18 07:03	10/27/18 16:55	1

Lab Sample ID: LCS 500-456907/2-A
Matrix: Solid
Analysis Batch: 457137

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 456907

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1.33	1.39		mg/Kg		105	65 - 124
Acenaphthylene	1.33	1.43		mg/Kg		107	68 - 120
Anthracene	1.33	1.46		mg/Kg		110	70 - 114
Benzo[a]anthracene	1.33	1.47		mg/Kg		110	67 - 122
Benzo[a]pyrene	1.33	1.61		mg/Kg		121	65 - 133
Benzo[b]fluoranthene	1.33	1.37		mg/Kg		103	69 - 129
Benzo[g,h,i]perylene	1.33	1.49		mg/Kg		112	72 - 131
Benzo[k]fluoranthene	1.33	1.53		mg/Kg		115	68 - 127
Bis(2-chloroethoxy)methane	1.33	1.41		mg/Kg		106	60 - 112
Bis(2-chloroethyl)ether	1.33	1.37		mg/Kg		103	55 - 111
Bis(2-ethylhexyl) phthalate	1.33	1.65		mg/Kg		123	72 - 131
4-Bromophenyl phenyl ether	1.33	1.24		mg/Kg		93	68 - 118
Butyl benzyl phthalate	1.33	1.66		mg/Kg		124	71 - 129
Carbazole	1.33	1.66		mg/Kg		125	65 - 142
4-Chloroaniline	1.33	1.28		mg/Kg		96	30 - 150
4-Chloro-3-methylphenol	1.33	1.45		mg/Kg		109	65 - 122
2-Chloronaphthalene	1.33	1.34		mg/Kg		101	69 - 114
2-Chlorophenol	1.33	1.32		mg/Kg		99	64 - 110

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153500-1

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

Lab Sample ID: LCS 500-456907/2-A
Matrix: Solid
Analysis Batch: 457137

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 456907

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
4-Chlorophenyl phenyl ether	1.33	1.28		mg/Kg		96	62 - 119
Chrysene	1.33	1.52		mg/Kg		114	63 - 120
Dibenz(a,h)anthracene	1.33	1.36		mg/Kg		102	64 - 131
Dibenzofuran	1.33	1.38		mg/Kg		103	66 - 115
1,2-Dichlorobenzene	1.33	1.26		mg/Kg		95	62 - 110
1,3-Dichlorobenzene	1.33	1.24		mg/Kg		93	65 - 124
1,4-Dichlorobenzene	1.33	1.25		mg/Kg		94	61 - 110
3,3'-Dichlorobenzidine	1.33	1.35		mg/Kg		101	35 - 128
2,4-Dichlorophenol	1.33	1.32		mg/Kg		99	58 - 120
Diethyl phthalate	1.33	1.38		mg/Kg		103	58 - 120
2,4-Dimethylphenol	1.33	1.32		mg/Kg		99	60 - 110
Dimethyl phthalate	1.33	1.43		mg/Kg		108	69 - 116
Di-n-butyl phthalate	1.33	1.53		mg/Kg		115	65 - 120
4,6-Dinitro-2-methylphenol	2.67	1.13		mg/Kg		42	10 - 110
2,4-Dinitrophenol	2.67	0.684		mg/Kg		26	10 - 100
2,4-Dinitrotoluene	1.33	1.52		mg/Kg		114	69 - 124
2,6-Dinitrotoluene	1.33	1.26		mg/Kg		94	70 - 123
Di-n-octyl phthalate	1.33	1.59		mg/Kg		119	68 - 134
Fluoranthene	1.33	1.47		mg/Kg		111	62 - 120
Fluorene	1.33	1.38		mg/Kg		103	62 - 120
Hexachlorobenzene	1.33	1.29		mg/Kg		97	63 - 124
Hexachlorobutadiene	1.33	1.18		mg/Kg		88	56 - 120
Hexachlorocyclopentadiene	1.33	0.973		mg/Kg		73	10 - 133
Hexachloroethane	1.33	1.22		mg/Kg		91	60 - 114
Indeno[1,2,3-cd]pyrene	1.33	1.55		mg/Kg		116	68 - 130
Isophorone	1.33	1.43		mg/Kg		107	55 - 110
2-Methylnaphthalene	1.33	1.39		mg/Kg		104	69 - 112
2-Methylphenol	1.33	1.36		mg/Kg		102	60 - 120
3 & 4 Methylphenol	1.33	1.32		mg/Kg		99	57 - 120
Naphthalene	1.33	1.36		mg/Kg		102	63 - 110
2-Nitroaniline	1.33	1.50		mg/Kg		112	57 - 124
3-Nitroaniline	1.33	1.45		mg/Kg		109	40 - 122
4-Nitroaniline	1.33	1.40		mg/Kg		105	60 - 160
Nitrobenzene	1.33	1.41		mg/Kg		106	60 - 116
2-Nitrophenol	1.33	1.27		mg/Kg		95	60 - 120
4-Nitrophenol	2.67	2.61		mg/Kg		98	30 - 122
N-Nitrosodi-n-propylamine	1.33	1.33		mg/Kg		100	56 - 118
N-Nitrosodiphenylamine	1.33	1.48		mg/Kg		111	65 - 112
2,2'-oxybis[1-chloropropane]	1.33	1.42		mg/Kg		107	40 - 124
Pentachlorophenol	2.67	1.59		mg/Kg		60	13 - 112
Phenanthrene	1.33	1.43		mg/Kg		107	62 - 120
Phenol	1.33	1.41		mg/Kg		106	56 - 122
Pyrene	1.33	1.54		mg/Kg		115	61 - 128
1,2,4-Trichlorobenzene	1.33	1.26		mg/Kg		94	66 - 117
2,4,5-Trichlorophenol	1.33	1.26		mg/Kg		94	50 - 120
2,4,6-Trichlorophenol	1.33	1.25		mg/Kg		94	57 - 120

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153500-1

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

Lab Sample ID: LCS 500-456907/2-A
Matrix: Solid
Analysis Batch: 457137

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 456907

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	108		43 - 145
2-Fluorophenol	146		31 - 166
Nitrobenzene-d5	109		37 - 147
Phenol-d5	117		30 - 153
Terphenyl-d14	127		42 - 157
2,4,6-Tribromophenol	81		31 - 143

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-456877/1-A
Matrix: Solid
Analysis Batch: 457255

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 456877

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.39		2.0	0.39	mg/Kg		10/25/18 17:55	10/26/18 23:00	1
Arsenic	<0.34		1.0	0.34	mg/Kg		10/25/18 17:55	10/26/18 23:00	1
Barium	<0.11		1.0	0.11	mg/Kg		10/25/18 17:55	10/26/18 23:00	1
Beryllium	<0.093		0.40	0.093	mg/Kg		10/25/18 17:55	10/26/18 23:00	1
Cadmium	0.0799	J	0.20	0.036	mg/Kg		10/25/18 17:55	10/26/18 23:00	1
Chromium	<0.50		1.0	0.50	mg/Kg		10/25/18 17:55	10/26/18 23:00	1
Cobalt	<0.13		0.50	0.13	mg/Kg		10/25/18 17:55	10/26/18 23:00	1
Copper	<0.28		1.0	0.28	mg/Kg		10/25/18 17:55	10/26/18 23:00	1
Iron	<10		20	10	mg/Kg		10/25/18 17:55	10/26/18 23:00	1
Lead	<0.23		0.50	0.23	mg/Kg		10/25/18 17:55	10/26/18 23:00	1
Magnesium	<5.0		10	5.0	mg/Kg		10/25/18 17:55	10/26/18 23:00	1
Calcium	5.89	J	20	3.4	mg/Kg		10/25/18 17:55	10/26/18 23:00	1
Manganese	<0.15		1.0	0.15	mg/Kg		10/25/18 17:55	10/26/18 23:00	1
Nickel	<0.29		1.0	0.29	mg/Kg		10/25/18 17:55	10/26/18 23:00	1
Selenium	<0.59		1.0	0.59	mg/Kg		10/25/18 17:55	10/26/18 23:00	1
Silver	<0.13		0.50	0.13	mg/Kg		10/25/18 17:55	10/26/18 23:00	1
Thallium	<0.50		1.0	0.50	mg/Kg		10/25/18 17:55	10/26/18 23:00	1
Vanadium	<0.12		0.50	0.12	mg/Kg		10/25/18 17:55	10/26/18 23:00	1
Zinc	1.11	J	2.0	0.88	mg/Kg		10/25/18 17:55	10/26/18 23:00	1
Potassium	<18		50	18	mg/Kg		10/25/18 17:55	10/26/18 23:00	1
Sodium	<15		100	15	mg/Kg		10/25/18 17:55	10/26/18 23:00	1

Lab Sample ID: LCS 500-456877/2-A
Matrix: Solid
Analysis Batch: 457255

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 456877

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	50.0	48.7		mg/Kg		97	80 - 120
Arsenic	10.0	9.43		mg/Kg		94	80 - 120
Barium	200	197		mg/Kg		98	80 - 120
Beryllium	5.00	4.76		mg/Kg		95	80 - 120
Cadmium	5.00	4.81		mg/Kg		96	80 - 120
Chromium	20.0	19.5		mg/Kg		98	80 - 120
Cobalt	50.0	48.8		mg/Kg		98	80 - 120

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153500-1

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

Lab Sample ID: LCS 500-456877/2-A
Matrix: Solid
Analysis Batch: 457255

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 456877
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Copper	25.0	24.9		mg/Kg		100	80 - 120
Iron	100	102		mg/Kg		102	80 - 120
Lead	10.0	9.43		mg/Kg		94	80 - 120
Magnesium	1000	942		mg/Kg		94	80 - 120
Calcium	1000	968		mg/Kg		97	80 - 120
Manganese	50.0	48.6		mg/Kg		97	80 - 120
Nickel	50.0	48.5		mg/Kg		97	80 - 120
Selenium	10.0	8.83		mg/Kg		88	80 - 120
Silver	5.00	4.58		mg/Kg		92	80 - 120
Thallium	10.0	8.95		mg/Kg		90	80 - 120
Vanadium	50.0	48.5		mg/Kg		97	80 - 120
Zinc	50.0	47.7		mg/Kg		95	80 - 120
Potassium	1000	996		mg/Kg		100	80 - 120
Sodium	1000	1010		mg/Kg		101	80 - 120

Lab Sample ID: LCS 500-457290/2-A
Matrix: Solid
Analysis Batch: 457445

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 457290
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Manganese	0.500	0.499		mg/L		100	80 - 120

Lab Sample ID: LCS 500-457291/2-A
Matrix: Solid
Analysis Batch: 457445

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 457291
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.100	0.0942		mg/L		94	80 - 120
Barium	0.500	0.505		mg/L		101	80 - 120
Beryllium	0.0500	0.0486		mg/L		97	80 - 120
Cadmium	0.0500	0.0486		mg/L		97	80 - 120
Chromium	0.200	0.200		mg/L		100	80 - 120
Cobalt	0.500	0.495		mg/L		99	80 - 120
Copper	0.250	0.266		mg/L		106	80 - 120
Iron	1.00	0.985		mg/L		99	80 - 120
Lead	0.100	0.0946		mg/L		95	80 - 120
Magnesium	10.0	9.54		mg/L		95	80 - 120
Calcium	10.0	9.42		mg/L		94	80 - 120
Manganese	0.500	0.496		mg/L		99	80 - 120
Nickel	0.500	0.493		mg/L		99	80 - 120
Selenium	0.100	0.0878		mg/L		88	80 - 120
Silver	0.0500	0.0467		mg/L		93	80 - 120
Vanadium	0.500	0.499		mg/L		100	80 - 120
Zinc	0.500	0.476	J	mg/L		95	80 - 120
Potassium	10.0	10.3		mg/L		103	80 - 120

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153500-1

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

Lab Sample ID: LB 500-456830/1-C
Matrix: Solid
Analysis Batch: 457445

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 457291

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		10/29/18 08:56	10/29/18 15:54	1
Barium	<0.050		0.50	0.050	mg/L		10/29/18 08:56	10/29/18 15:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/29/18 08:56	10/29/18 15:54	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		10/29/18 08:56	10/29/18 15:54	1
Chromium	<0.010		0.025	0.010	mg/L		10/29/18 08:56	10/29/18 15:54	1
Cobalt	<0.010		0.025	0.010	mg/L		10/29/18 08:56	10/29/18 15:54	1
Copper	<0.010		0.025	0.010	mg/L		10/29/18 08:56	10/29/18 15:54	1
Iron	<0.20		0.40	0.20	mg/L		10/29/18 08:56	10/29/18 15:54	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/29/18 08:56	10/29/18 15:54	1
Magnesium	<0.50		2.5	0.50	mg/L		10/29/18 08:56	10/29/18 15:54	1
Calcium	<0.50		5.0	0.50	mg/L		10/29/18 08:56	10/29/18 15:54	1
Manganese	<0.010		0.025	0.010	mg/L		10/29/18 08:56	10/29/18 15:54	1
Nickel	<0.010		0.025	0.010	mg/L		10/29/18 08:56	10/29/18 15:54	1
Selenium	<0.020		0.050	0.020	mg/L		10/29/18 08:56	10/29/18 15:54	1
Silver	<0.010		0.025	0.010	mg/L		10/29/18 08:56	10/29/18 15:54	1
Vanadium	<0.010		0.025	0.010	mg/L		10/29/18 08:56	10/29/18 15:54	1
Zinc	<0.020		0.50	0.020	mg/L		10/29/18 08:56	10/29/18 15:54	1
Potassium	<0.50		2.5	0.50	mg/L		10/29/18 08:56	10/29/18 15:54	1

Lab Sample ID: 500-153500-5 MS
Matrix: Solid
Analysis Batch: 457445

Client Sample ID: 2947V-17-B16 (0-5)
Prep Type: TCLP
Prep Batch: 457291

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Arsenic	<0.010		0.100	0.111		mg/L		111	75 - 125
Barium	0.75		0.500	1.30		mg/L		109	75 - 125
Beryllium	<0.0040		0.0500	0.0514		mg/L		103	75 - 125
Cadmium	0.0027	J	0.0500	0.0593		mg/L		113	75 - 125
Chromium	<0.010		0.200	0.189		mg/L		94	75 - 125
Cobalt	<0.010		0.500	0.521		mg/L		104	75 - 125
Copper	<0.010	F1	0.250	0.314	F1	mg/L		126	75 - 125
Iron	<0.20		1.00	0.970		mg/L		97	75 - 125
Lead	<0.0075		0.100	0.0877		mg/L		88	75 - 125
Magnesium	170		10.0	192	4	mg/L		242	75 - 125
Calcium	310		10.0	352	4	mg/L		385	75 - 125
Manganese	0.42		0.500	0.946		mg/L		105	75 - 125
Nickel	0.010	J	0.500	0.519		mg/L		102	75 - 125
Selenium	<0.020		0.100	0.100		mg/L		100	75 - 125
Silver	<0.010		0.0500	0.0609		mg/L		122	75 - 125
Vanadium	<0.010		0.500	0.484		mg/L		97	75 - 125
Zinc	<0.020		0.500	0.540		mg/L		108	75 - 125
Potassium	1.4	J	10.0	11.4		mg/L		100	75 - 125

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153500-1

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

Lab Sample ID: 500-153500-5 DU

Matrix: Solid

Analysis Batch: 457445

Client Sample ID: 2947V-17-B16 (0-5)

Prep Type: TCLP

Prep Batch: 457291

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD	Limit
	Result	Qualifier	Result	Qualifier					
Arsenic	<0.010		<0.010		mg/L		NC		20
Barium	0.75		0.786		mg/L		4		20
Beryllium	<0.0040		<0.0040		mg/L		NC		20
Cadmium	0.0027 J		0.00277 J		mg/L		3		20
Chromium	<0.010		<0.010		mg/L		NC		20
Cobalt	<0.010		<0.010		mg/L		NC		20
Copper	<0.010 F1		<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	170		173		mg/L		3		20
Calcium	310		321		mg/L		2		20
Manganese	0.42		0.435		mg/L		3		20
Nickel	0.010 J		0.0115 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	<0.020		<0.020		mg/L		NC		20
Potassium	1.4 J		1.42 J		mg/L		3		20

Lab Sample ID: LB 500-456836/1-D

Matrix: Solid

Analysis Batch: 457445

Client Sample ID: Method Blank

Prep Type: SPLP East

Prep Batch: 457290

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Manganese	<0.010		0.025	0.010	mg/L		10/29/18 08:53	10/29/18 18:57	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-457291/2-A

Matrix: Solid

Analysis Batch: 457531

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 457291

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
Antimony	0.500	0.462		mg/L		92		80 - 120
Thallium	0.100	0.111		mg/L		111		80 - 120

Lab Sample ID: LB 500-456830/1-C

Matrix: Solid

Analysis Batch: 457531

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 457291

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0060		0.0060	0.0060	mg/L		10/29/18 08:56	10/29/18 16:03	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/29/18 08:56	10/29/18 16:03	1

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153500-1

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

Lab Sample ID: 500-153500-5 MS

Matrix: Solid
Analysis Batch: 457531

Client Sample ID: 2947V-17-B16 (0-5)

Prep Type: TCLP
Prep Batch: 457291

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
Antimony	<0.0060		0.500	0.465		mg/L		93	75 - 125
Thallium	<0.0020		0.100	0.108		mg/L		108	75 - 125

Lab Sample ID: 500-153500-5 DU

Matrix: Solid
Analysis Batch: 457531

Client Sample ID: 2947V-17-B16 (0-5)

Prep Type: TCLP
Prep Batch: 457291

Analyte	Sample	Sample	DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
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 500-457000/12-A

Matrix: Solid
Analysis Batch: 457347

Client Sample ID: Method Blank

Prep Type: Total/NA
Prep Batch: 457000

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020		0.00020	0.00020	mg/L		10/26/18 11:15	10/29/18 08:27	1

Lab Sample ID: LCS 500-457000/13-A

Matrix: Solid
Analysis Batch: 457347

Client Sample ID: Lab Control Sample

Prep Type: Total/NA
Prep Batch: 457000

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits
Mercury	0.00200	0.00195		mg/L		97	80 - 120

Lab Sample ID: LB 500-456830/1-B

Matrix: Solid
Analysis Batch: 457347

Client Sample ID: Method Blank

Prep Type: TCLP
Prep Batch: 457000

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020		0.00020	0.00020	mg/L		10/26/18 11:15	10/29/18 09:29	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-456843/12-A

Matrix: Solid
Analysis Batch: 457006

Client Sample ID: Method Blank

Prep Type: Total/NA
Prep Batch: 456843

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.0056		0.017	0.0056	mg/Kg		10/25/18 17:20	10/26/18 10:39	1

Lab Sample ID: LCS 500-456843/13-A

Matrix: Solid
Analysis Batch: 457006

Client Sample ID: Lab Control Sample

Prep Type: Total/NA
Prep Batch: 456843

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits
Mercury	0.167	0.149		mg/Kg		90	80 - 120

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153500-1

Method: 9014 - Cyanide

Lab Sample ID: MB 500-457601/15-A
 Matrix: Solid
 Analysis Batch: 457785

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 457601

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.17		0.50	0.17	mg/Kg		10/30/18 18:00	10/31/18 11:57	1

Lab Sample ID: LCS 500-457601/16-A
 Matrix: Solid
 Analysis Batch: 457785

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 457601

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	5.00	4.68		mg/Kg		94	85 - 115

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153500-1

Client Sample ID: 2947V-17-B20 (0-5)

Lab Sample ID: 500-153500-1

Date Collected: 10/19/18 08:55

Matrix: Solid

Date Received: 10/19/18 11:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			456836	10/25/18 13:45	JJB	TAL CHI
SPLP East	Prep	3010A			457290	10/29/18 08:53	SAH	TAL CHI
SPLP East	Analysis	6010B		1	457445	10/29/18 19:01	EEN	TAL CHI
TCLP	Leach	1311			456830	10/25/18 13:45	JJB	TAL CHI
TCLP	Prep	3010A			457291	10/29/18 08:56	SAH	TAL CHI
TCLP	Analysis	6010B		1	457445	10/29/18 16:02	EEN	TAL CHI
TCLP	Leach	1311			456830	10/25/18 13:45	JJB	TAL CHI
TCLP	Prep	3010A			457291	10/29/18 08:56	SAH	TAL CHI
TCLP	Analysis	6020A		1	457531	10/29/18 16:05	FXG	TAL CHI
TCLP	Leach	1311			456830	10/25/18 13:45	JJB	TAL CHI
TCLP	Prep	7470A			457000	10/26/18 11:15	MJG	TAL CHI
TCLP	Analysis	7470A		1	457347	10/29/18 09:32	MJG	TAL CHI
Total/NA	Analysis	9045D		1	457075		CCK	TAL CHI
					(Start)	10/26/18 14:57		
					(End)	10/26/18 15:00		
Total/NA	Analysis	Moisture		1	456381	10/23/18 15:42	LWN	TAL CHI

Client Sample ID: 2947V-17-B20 (0-5)

Lab Sample ID: 500-153500-1

Date Collected: 10/19/18 08:55

Matrix: Solid

Date Received: 10/19/18 11:55

Percent Solids: 78.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			455988	10/19/18 17:43	WRE	TAL CHI
Total/NA	Analysis	8260B		1	457169	10/28/18 03:36	EMA	TAL CHI
Total/NA	Prep	3541			456907	10/26/18 07:03	DX	TAL CHI
Total/NA	Analysis	8270D		1	457200	10/28/18 20:35	GES	TAL CHI
Total/NA	Prep	3050B			456877	10/25/18 17:55	BDE	TAL CHI
Total/NA	Analysis	6010B		1	457255	10/26/18 23:56	JEF	TAL CHI
Total/NA	Prep	7471B			456843	10/25/18 17:20	MJG	TAL CHI
Total/NA	Analysis	7471B		1	457006	10/26/18 10:42	MJG	TAL CHI
Total/NA	Prep	9010B			457601	10/30/18 18:00	MAN	TAL CHI
Total/NA	Analysis	9014		1	457785		MS	TAL CHI
					(Start)	10/31/18 12:08		
					(End)	10/31/18 12:08		

Client Sample ID: 2947V-17-B19 (0-5)

Lab Sample ID: 500-153500-2

Date Collected: 10/19/18 09:15

Matrix: Solid

Date Received: 10/19/18 11:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			456836	10/25/18 13:45	JJB	TAL CHI
SPLP East	Prep	3010A			457290	10/29/18 08:53	SAH	TAL CHI
SPLP East	Analysis	6010B		1	457445	10/29/18 19:17	EEN	TAL CHI
TCLP	Leach	1311			456830	10/25/18 13:45	JJB	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153500-1

Client Sample ID: 2947V-17-B19 (0-5)

Lab Sample ID: 500-153500-2

Date Collected: 10/19/18 09:15

Matrix: Solid

Date Received: 10/19/18 11:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Prep	3010A			457291	10/29/18 08:56	SAH	TAL CHI
TCLP	Analysis	6010B		1	457445	10/29/18 16:07	EEN	TAL CHI
TCLP	Leach	1311			456830	10/25/18 13:45	JJB	TAL CHI
TCLP	Prep	3010A			457291	10/29/18 08:56	SAH	TAL CHI
TCLP	Analysis	6020A		1	457531	10/29/18 16:06	FXG	TAL CHI
TCLP	Leach	1311			456830	10/25/18 13:45	JJB	TAL CHI
TCLP	Prep	7470A			457000	10/26/18 11:15	MJG	TAL CHI
TCLP	Analysis	7470A		1	457347	10/29/18 09:34	MJG	TAL CHI
Total/NA	Analysis	9045D		1	457075		CCK	TAL CHI
					(Start)	10/26/18 15:00		
					(End)	10/26/18 15:02		
Total/NA	Analysis	Moisture		1	456381	10/23/18 15:42	LWN	TAL CHI

Client Sample ID: 2947V-17-B19 (0-5)

Lab Sample ID: 500-153500-2

Date Collected: 10/19/18 09:15

Matrix: Solid

Date Received: 10/19/18 11:55

Percent Solids: 78.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			455988	10/19/18 17:43	WRE	TAL CHI
Total/NA	Analysis	8260B		1	457169	10/28/18 04:02	EMA	TAL CHI
Total/NA	Prep	3541			456907	10/26/18 07:03	DX	TAL CHI
Total/NA	Analysis	8270D		1	457200	10/28/18 21:02	GES	TAL CHI
Total/NA	Prep	3050B			456877	10/25/18 17:55	BDE	TAL CHI
Total/NA	Analysis	6010B		1	457255	10/27/18 00:00	JEF	TAL CHI
Total/NA	Prep	7471B			456843	10/25/18 17:20	MJG	TAL CHI
Total/NA	Analysis	7471B		1	457006	10/26/18 10:44	MJG	TAL CHI
Total/NA	Prep	9010B			457601	10/30/18 18:00	MAN	TAL CHI
Total/NA	Analysis	9014		1	457785		MS	TAL CHI
					(Start)	10/31/18 12:08		
					(End)	10/31/18 12:09		

Client Sample ID: 2947V-17-B18 (0-5)

Lab Sample ID: 500-153500-3

Date Collected: 10/19/18 09:35

Matrix: Solid

Date Received: 10/19/18 11:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			456830	10/25/18 13:45	JJB	TAL CHI
TCLP	Prep	3010A			457291	10/29/18 08:56	SAH	TAL CHI
TCLP	Analysis	6010B		1	457445	10/29/18 16:11	EEN	TAL CHI
TCLP	Leach	1311			456830	10/25/18 13:45	JJB	TAL CHI
TCLP	Prep	3010A			457291	10/29/18 08:56	SAH	TAL CHI
TCLP	Analysis	6020A		1	457531	10/29/18 16:07	FXG	TAL CHI
TCLP	Leach	1311			456830	10/25/18 13:45	JJB	TAL CHI
TCLP	Prep	7470A			457000	10/26/18 11:15	MJG	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153500-1

Client Sample ID: 2947V-17-B18 (0-5)

Lab Sample ID: 500-153500-3

Date Collected: 10/19/18 09:35

Matrix: Solid

Date Received: 10/19/18 11:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Analysis	7470A		1	457347	10/29/18 09:36	MJG	TAL CHI
Total/NA	Analysis	9045D		1	457075	10/26/18 15:02 (Start) 10/26/18 15:04 (End)	CCK	TAL CHI
Total/NA	Analysis	Moisture		1	456381	10/23/18 15:42	LWN	TAL CHI

Client Sample ID: 2947V-17-B18 (0-5)

Lab Sample ID: 500-153500-3

Date Collected: 10/19/18 09:35

Matrix: Solid

Date Received: 10/19/18 11:55

Percent Solids: 82.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			455988	10/19/18 17:43	WRE	TAL CHI
Total/NA	Analysis	8260B		1	457169	10/28/18 04:27	EMA	TAL CHI
Total/NA	Prep	3541			456907	10/26/18 07:03	DX	TAL CHI
Total/NA	Analysis	8270D		1	457200	10/28/18 17:28	GES	TAL CHI
Total/NA	Prep	3050B			456877	10/25/18 17:55	BDE	TAL CHI
Total/NA	Analysis	6010B		1	457255	10/27/18 00:04	JEF	TAL CHI
Total/NA	Prep	7471B			456843	10/25/18 17:20	MJG	TAL CHI
Total/NA	Analysis	7471B		1	457006	10/26/18 10:46	MJG	TAL CHI
Total/NA	Prep	9010B			457601	10/30/18 18:00	MAN	TAL CHI
Total/NA	Analysis	9014		1	457785	10/31/18 12:09 (Start) 10/31/18 12:10 (End)	MS	TAL CHI

Client Sample ID: 2947V-17-B17 (0-5)

Lab Sample ID: 500-153500-4

Date Collected: 10/19/18 10:00

Matrix: Solid

Date Received: 10/19/18 11:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			456830	10/25/18 13:45	JJB	TAL CHI
TCLP	Prep	3010A			457291	10/29/18 08:56	SAH	TAL CHI
TCLP	Analysis	6010B		1	457445	10/29/18 16:15	EEN	TAL CHI
TCLP	Leach	1311			456830	10/25/18 13:45	JJB	TAL CHI
TCLP	Prep	3010A			457291	10/29/18 08:56	SAH	TAL CHI
TCLP	Analysis	6020A		1	457531	10/29/18 16:08	FXG	TAL CHI
TCLP	Leach	1311			456830	10/25/18 13:45	JJB	TAL CHI
TCLP	Prep	7470A			457000	10/26/18 11:15	MJG	TAL CHI
TCLP	Analysis	7470A		1	457347	10/29/18 09:38	MJG	TAL CHI
Total/NA	Analysis	9045D		1	457075	10/26/18 15:04 (Start) 10/26/18 15:06 (End)	CCK	TAL CHI
Total/NA	Analysis	Moisture		1	456381	10/23/18 15:42	LWN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153500-1

Client Sample ID: 2947V-17-B17 (0-5)

Lab Sample ID: 500-153500-4

Date Collected: 10/19/18 10:00

Matrix: Solid

Date Received: 10/19/18 11:55

Percent Solids: 77.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			455988	10/19/18 17:43	WRE	TAL CHI
Total/NA	Analysis	8260B		1	457169	10/28/18 04:53	EMA	TAL CHI
Total/NA	Prep	3541			456907	10/26/18 07:03	DX	TAL CHI
Total/NA	Analysis	8270D		1	457200	10/28/18 17:55	GES	TAL CHI
Total/NA	Prep	3050B			456877	10/25/18 17:55	BDE	TAL CHI
Total/NA	Analysis	6010B		1	457255	10/27/18 00:08	JEF	TAL CHI
Total/NA	Prep	7471B			456843	10/25/18 17:20	MJG	TAL CHI
Total/NA	Analysis	7471B		1	457006	10/26/18 10:48	MJG	TAL CHI
Total/NA	Prep	9010B			457601	10/30/18 18:00	MAN	TAL CHI
Total/NA	Analysis	9014		1	457785		MS	TAL CHI
					(Start)	10/31/18 12:11		
					(End)	10/31/18 12:12		

Client Sample ID: 2947V-17-B16 (0-5)

Lab Sample ID: 500-153500-5

Date Collected: 10/19/18 10:20

Matrix: Solid

Date Received: 10/19/18 11:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			456836	10/25/18 13:45	JJB	TAL CHI
SPLP East	Prep	3010A			457290	10/29/18 08:53	SAH	TAL CHI
SPLP East	Analysis	6010B		1	457445	10/29/18 19:41	EEN	TAL CHI
TCLP	Leach	1311			456830	10/25/18 13:45	JJB	TAL CHI
TCLP	Prep	3010A			457291	10/29/18 08:56	SAH	TAL CHI
TCLP	Analysis	6010B		1	457445	10/29/18 16:19	EEN	TAL CHI
TCLP	Leach	1311			456830	10/25/18 13:45	JJB	TAL CHI
TCLP	Prep	3010A			457291	10/29/18 08:56	SAH	TAL CHI
TCLP	Analysis	6020A		1	457531	10/29/18 16:10	FXG	TAL CHI
TCLP	Leach	1311			456830	10/25/18 13:45	JJB	TAL CHI
TCLP	Prep	7470A			457000	10/26/18 11:15	MJG	TAL CHI
TCLP	Analysis	7470A		1	457347	10/29/18 09:44	MJG	TAL CHI
Total/NA	Analysis	9045D		1	457075		CCK	TAL CHI
					(Start)	10/26/18 15:06		
					(End)	10/26/18 15:09		
Total/NA	Analysis	Moisture		1	456381	10/23/18 15:42	LWN	TAL CHI

Client Sample ID: 2947V-17-B16 (0-5)

Lab Sample ID: 500-153500-5

Date Collected: 10/19/18 10:20

Matrix: Solid

Date Received: 10/19/18 11:55

Percent Solids: 80.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			455988	10/19/18 17:43	WRE	TAL CHI
Total/NA	Analysis	8260B		1	457169	10/28/18 05:19	EMA	TAL CHI
Total/NA	Prep	3541			456907	10/26/18 07:03	DX	TAL CHI
Total/NA	Analysis	8270D		1	457200	10/28/18 18:21	GES	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153500-1

Client Sample ID: 2947V-17-B16 (0-5)

Lab Sample ID: 500-153500-5

Date Collected: 10/19/18 10:20

Matrix: Solid

Date Received: 10/19/18 11:55

Percent Solids: 80.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			456877	10/25/18 17:55	BDE	TAL CHI
Total/NA	Analysis	6010B		1	457255	10/27/18 00:12	JEF	TAL CHI
Total/NA	Prep	3050B			456877	10/25/18 17:55	BDE	TAL CHI
Total/NA	Analysis	6010B		5	457366	10/29/18 10:46	EEN	TAL CHI
Total/NA	Prep	7471B			456843	10/25/18 17:20	MJG	TAL CHI
Total/NA	Analysis	7471B		1	457006	10/26/18 10:50	MJG	TAL CHI
Total/NA	Prep	9010B			457601	10/30/18 18:00	MAN	TAL CHI
Total/NA	Analysis	9014		1	457785		MS	TAL CHI
					(Start)	10/31/18 12:12		
					(End)	10/31/18 12:12		

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153500-1

Laboratory: 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	04-30-19

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
 Company: Terracon
 Address: 42 Exchange Blvd
 Address: Glendale Heights, IL
 Phone: 630-445-0160
 Fax:
 E-Mail: Matt.Weiss@Terracon.com

Bill To (optional)
 Contact:
 Company:
 Address:
 Address:
 Phone:
 Fax:
 PO#/Reference#

Chain of Custody Record

Lab Job #: 500-153500
 Chain of Custody Number:
 Page 1 of 1
 Temperature °C of Cooler: 5.6

Client		Client Project #		Preservative		Parameter		Matrix		Comments		
<u>TDOT</u>		<u>11187007U</u>										
Project Name		Project Location/State		Date		Time		# of Containers		Matrix		
<u>11187007U</u>		<u>Rumoco, FL</u>										
Sampler		Lab Project #		Date		Time		# of Containers		Matrix		
<u>D.G.F.</u>												
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	Voc's	Suoc's	Total 23 Inorganics	PH	TCLP 23 Inorganics	SPLP 23 Inorganics
<u>1</u>		<u>2947U-17-B20(0.5)</u>	<u>10/19/18</u>	<u>0855</u>	<u>5</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>2</u>		<u>2947U-17-B19(0.5)</u>	<u>10/19/18</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>3</u>		<u>2947U-17-B18(0.5)</u>	<u>10/19/18</u>	<u>0935</u>	<u>5</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>4</u>		<u>2947U-17-B17(0.5)</u>	<u>10/19/18</u>	<u>1000</u>	<u>5</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>5</u>		<u>2947U-17-B16(0.5)</u>	<u>10/19/18</u>	<u>1020</u>	<u>5</u>	<u>S</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



500-153500 COC

Turnaround Time Required (Business Days)

1 Day 2 Days 5 Days 7 Days 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)

Relinquished By <u>Kan W. J.</u>	Company <u>Terracon</u>	Date <u>10/19/18</u>	Time <u>1100</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>10/19/18</u>	Time <u>1100</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>10/19/18</u>	Time <u>1155</u>	Received By <u>[Signature]</u>	Company <u>TA/ME</u>	Date <u>10/19/18</u>	Time <u>1155</u>

Lab Courier: TA
 Shipped:
 Hand Delivered:

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

Client Comments

* No Aluminum
* Hold SPLP 23 Inorganics
Per Terracon Instruction

Lab Comments:

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-153500-1

Login Number: 153500

List Source: TestAmerica Chicago

List Number: 1

Creator: Sanchez, Ariel M

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	
Cooler Temperature is recorded.	True	5.6
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	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-153433-1

Client Project/Site: IDOT - Romeoville - WO 054

For:

Terracon Consulting Eng & Scientists

192 Exchange Blvd

Glendale Heights, Illinois 60139

Attn: Mr. Matthew Weiss



Authorized for release by:

10/30/2018 2:58:07 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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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 - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Job ID: 500-153433-1

Laboratory: TestAmerica Chicago

Narrative

**Job Narrative
500-153433-1**

Comments

No additional comments.

Receipt

The samples were received on 10/18/2018 4:45 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 4.1° C and 5.8° C.

GC/MS VOA

The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for 457217 recovered outside control limits for the following analyte: Chloromethane. This analyte was biased high in the LCS/ 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 matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 500-456711 and analytical batch 500-457200 were outside control limits. The following analytes recovered at 0%: 2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol, Hexachlorocyclopentadiene and Pentachlorophenol. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. The 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

Method(s) 6010B: Internal standard responses were outside of acceptance limits for the following sample: 2947V-17-B24 (0-5) (500-153433-10). The sample(s) shows evidence of matrix interference.

No additional analytical or quality issues were noted, other than those described above or 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 - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B35 (0-5)

Lab Sample ID: 500-153433-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.0	F1	0.56	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	74	F1	0.56	0.064	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.65	F1	0.22	0.052	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.095	J B F1	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	16	B	0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.28	0.074	mg/Kg	1	☼	6010B	Total/NA
Copper	21	B	0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	19000	B	11	5.8	mg/Kg	1	☼	6010B	Total/NA
Lead	16		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2800		5.6	2.8	mg/Kg	1	☼	6010B	Total/NA
Calcium	1300	B F1	11	1.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	540	B	0.56	0.081	mg/Kg	1	☼	6010B	Total/NA
Nickel	31		0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.34	J F1	0.56	0.33	mg/Kg	1	☼	6010B	Total/NA
Silver	0.29	F1	0.28	0.072	mg/Kg	1	☼	6010B	Total/NA
Vanadium	27		0.28	0.066	mg/Kg	1	☼	6010B	Total/NA
Zinc	68		1.1	0.49	mg/Kg	1	☼	6010B	Total/NA
Potassium	1300	F1	28	9.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	140	F1	56	8.3	mg/Kg	1	☼	6010B	Total/NA
Barium	0.40	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	31		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	14		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.4	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.47	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.028		0.018	0.0059	mg/Kg	1	☼	7471B	Total/NA
pH	6.8		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2947V-17-B35 (0-5) Dup

Lab Sample ID: 500-153433-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.25	J	1.2	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.6		0.58	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	77		0.58	0.066	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.70		0.23	0.054	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.12	B	0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Chromium	17	B	0.58	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.29	0.075	mg/Kg	1	☼	6010B	Total/NA
Copper	22	B	0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	20000	B	12	6.0	mg/Kg	1	☼	6010B	Total/NA
Lead	17		0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	3000		5.8	2.9	mg/Kg	1	☼	6010B	Total/NA
Calcium	1300	B	12	1.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	540	B	0.58	0.083	mg/Kg	1	☼	6010B	Total/NA
Nickel	32		0.58	0.17	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.44	J	0.58	0.34	mg/Kg	1	☼	6010B	Total/NA
Silver	0.31		0.29	0.074	mg/Kg	1	☼	6010B	Total/NA
Vanadium	29		0.29	0.068	mg/Kg	1	☼	6010B	Total/NA
Zinc	73		1.2	0.50	mg/Kg	1	☼	6010B	Total/NA
Potassium	1700		29	10	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B35 (0-5) Dup (Continued)

Lab Sample ID: 500-153433-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	170		58	8.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.42	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	32		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	15		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.018	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.4	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.027	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.028		0.018	0.0060	mg/Kg	1	☼	7471B	Total/NA
pH	6.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2947V-17-B34 (0-5)

Lab Sample ID: 500-153433-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.024		0.021	0.0091	mg/Kg	1	☼	8260B	Total/NA
2-Butanone (MEK)	0.019		0.0052	0.0023	mg/Kg	1	☼	8260B	Total/NA
Benzo[a]anthracene	0.0076	J	0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.021	J	0.040	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.0098	J	0.040	0.0086	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.017	J	0.040	0.0074	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0095	J	0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.014	J	0.040	0.0080	mg/Kg	1	☼	8270D	Total/NA
Arsenic	9.6		0.60	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	100		0.60	0.069	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.80		0.24	0.056	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.083	J B	0.12	0.022	mg/Kg	1	☼	6010B	Total/NA
Chromium	20	B	0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.30	0.079	mg/Kg	1	☼	6010B	Total/NA
Copper	19	B	0.60	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	23000	B	12	6.3	mg/Kg	1	☼	6010B	Total/NA
Lead	19		0.30	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	3900		6.0	3.0	mg/Kg	1	☼	6010B	Total/NA
Calcium	2000	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	550	B	0.60	0.088	mg/Kg	1	☼	6010B	Total/NA
Nickel	30		0.60	0.18	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.53	J	0.60	0.36	mg/Kg	1	☼	6010B	Total/NA
Silver	0.31		0.30	0.078	mg/Kg	1	☼	6010B	Total/NA
Vanadium	35		0.30	0.071	mg/Kg	1	☼	6010B	Total/NA
Zinc	66		1.2	0.53	mg/Kg	1	☼	6010B	Total/NA
Potassium	1700		30	11	mg/Kg	1	☼	6010B	Total/NA
Sodium	180		60	8.9	mg/Kg	1	☼	6010B	Total/NA
Barium	0.44	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	49		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	22		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.023	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.64	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.17	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.034		0.020	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	7.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2947V-17-B33 (0-5)

Lab Sample ID: 500-153433-4

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B33 (0-5) (Continued)

Lab Sample ID: 500-153433-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.013	J	0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.024	J	0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.018	J	0.039	0.0084	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.015	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.028	J	0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.023	J	0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.018	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.024	J	0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.31	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.5		0.56	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	89		0.56	0.064	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.73		0.22	0.052	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.12	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	17	B	0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.28	0.073	mg/Kg	1	☼	6010B	Total/NA
Copper	18	B	0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	19000	B	11	5.8	mg/Kg	1	☼	6010B	Total/NA
Lead	30		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	3700		5.6	2.8	mg/Kg	1	☼	6010B	Total/NA
Calcium	3000	B	11	1.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	560	B	0.56	0.081	mg/Kg	1	☼	6010B	Total/NA
Nickel	28		0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.44	J	0.56	0.33	mg/Kg	1	☼	6010B	Total/NA
Silver	0.36		0.28	0.072	mg/Kg	1	☼	6010B	Total/NA
Vanadium	29		0.28	0.066	mg/Kg	1	☼	6010B	Total/NA
Zinc	73		1.1	0.49	mg/Kg	1	☼	6010B	Total/NA
Potassium	1600		28	9.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	160		56	8.3	mg/Kg	1	☼	6010B	Total/NA
Barium	0.49	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	100		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	48		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.074		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.5	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.036	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.042		0.019	0.0064	mg/Kg	1	☼	7471B	Total/NA
pH	7.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2947V-17-B32 (0-5)

Lab Sample ID: 500-153433-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0079	J	0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.022	J	0.040	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.0098	J	0.040	0.0086	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.011	J	0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.012	J	0.040	0.0074	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0086	J	0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.012	J	0.040	0.0079	mg/Kg	1	☼	8270D	Total/NA
Arsenic	8.6		0.61	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	110		0.61	0.069	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.82		0.24	0.057	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B32 (0-5) (Continued)

Lab Sample ID: 500-153433-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.11	J B	0.12	0.022	mg/Kg	1	☼	6010B	Total/NA
Chromium	21	B	0.61	0.30	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.30	0.080	mg/Kg	1	☼	6010B	Total/NA
Copper	16	B	0.61	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	22000	B	12	6.3	mg/Kg	1	☼	6010B	Total/NA
Lead	19		0.30	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	4300		6.1	3.0	mg/Kg	1	☼	6010B	Total/NA
Calcium	3000	B	12	2.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	660	B	0.61	0.088	mg/Kg	1	☼	6010B	Total/NA
Nickel	29		0.61	0.18	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.89		0.61	0.36	mg/Kg	1	☼	6010B	Total/NA
Silver	0.29	J	0.30	0.079	mg/Kg	1	☼	6010B	Total/NA
Vanadium	36		0.30	0.072	mg/Kg	1	☼	6010B	Total/NA
Zinc	69		1.2	0.53	mg/Kg	1	☼	6010B	Total/NA
Potassium	1900		30	11	mg/Kg	1	☼	6010B	Total/NA
Sodium	100		61	9.0	mg/Kg	1	☼	6010B	Total/NA
Barium	0.52		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	110		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	53		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.057		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.76	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.095	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.032		0.019	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	7.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2947V-17-B31 (0-5)

Lab Sample ID: 500-153433-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.022	J	0.041	0.0056	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.035	J	0.041	0.0080	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.036	J	0.041	0.0089	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.019	J	0.041	0.013	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.033	J	0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.041		0.041	0.0077	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.031	J	0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.027	J	0.041	0.0058	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.040	J	0.041	0.0082	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.38	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.4		0.62	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	120		0.62	0.071	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.79		0.25	0.058	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.24	B	0.12	0.022	mg/Kg	1	☼	6010B	Total/NA
Chromium	20	B	0.62	0.31	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.31	0.081	mg/Kg	1	☼	6010B	Total/NA
Copper	19	B	0.62	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	20000	B	12	6.5	mg/Kg	1	☼	6010B	Total/NA
Lead	33		0.31	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	3800		6.2	3.1	mg/Kg	1	☼	6010B	Total/NA
Calcium	3200	B	12	2.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	670	B	0.62	0.090	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B31 (0-5) (Continued)

Lab Sample ID: 500-153433-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	26		0.62	0.18	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.73		0.62	0.37	mg/Kg	1	☼	6010B	Total/NA
Silver	0.30	J	0.31	0.080	mg/Kg	1	☼	6010B	Total/NA
Vanadium	33		0.31	0.073	mg/Kg	1	☼	6010B	Total/NA
Zinc	81		1.2	0.55	mg/Kg	1	☼	6010B	Total/NA
Potassium	2000		31	11	mg/Kg	1	☼	6010B	Total/NA
Sodium	380		62	9.2	mg/Kg	1	☼	6010B	Total/NA
Barium	0.45	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	80		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	32		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.025		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.2	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.045	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.041		0.020	0.0066	mg/Kg	1	☼	7471B	Total/NA
pH	7.8		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2947V-17-B30 (0-5)

Lab Sample ID: 500-153433-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.0051	J	0.038	0.0050	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.011	J	0.038	0.0064	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.048		0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.061		0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.064		0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.046		0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.048		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.075		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.028	J	0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.094		0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.050		0.038	0.0099	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.0073	J	0.077	0.0070	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.062		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.089		0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.22	J	1.1	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.2		0.55	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	100		0.55	0.062	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.75		0.22	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.31	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	18	B	0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.27	0.072	mg/Kg	1	☼	6010B	Total/NA
Copper	17	B	0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	19000	B	11	5.7	mg/Kg	1	☼	6010B	Total/NA
Lead	48		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	5300		5.5	2.7	mg/Kg	1	☼	6010B	Total/NA
Calcium	7000	B	11	1.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	590	B	0.55	0.079	mg/Kg	1	☼	6010B	Total/NA
Nickel	25		0.55	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.84		0.55	0.32	mg/Kg	1	☼	6010B	Total/NA
Silver	0.30		0.27	0.071	mg/Kg	1	☼	6010B	Total/NA
Vanadium	29		0.27	0.065	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B30 (0-5) (Continued)

Lab Sample ID: 500-153433-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	87		1.1	0.48	mg/Kg	1	☼	6010B	Total/NA
Potassium	1800		27	9.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	220		55	8.1	mg/Kg	1	☼	6010B	Total/NA
Barium	0.60		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	210		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	75		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.097		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.8	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.27	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.048		0.018	0.0061	mg/Kg	1	☼	7471B	Total/NA
pH	7.7		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2947V-17-B29 (0-5)

Lab Sample ID: 500-153433-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.33	J	1.2	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	11		0.59	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	91		0.59	0.067	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.86		0.23	0.055	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.12	B	0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Chromium	20	B	0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.29	0.077	mg/Kg	1	☼	6010B	Total/NA
Copper	20	B	0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	24000	B	12	6.1	mg/Kg	1	☼	6010B	Total/NA
Lead	19		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	3900		5.9	2.9	mg/Kg	1	☼	6010B	Total/NA
Calcium	1900	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	690	B	0.59	0.085	mg/Kg	1	☼	6010B	Total/NA
Nickel	32		0.59	0.17	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.88		0.59	0.34	mg/Kg	1	☼	6010B	Total/NA
Silver	0.35		0.29	0.075	mg/Kg	1	☼	6010B	Total/NA
Vanadium	32		0.29	0.069	mg/Kg	1	☼	6010B	Total/NA
Zinc	76		1.2	0.51	mg/Kg	1	☼	6010B	Total/NA
Potassium	1600		29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	100		59	8.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.37	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	49		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	25		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.050		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.96	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.026	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.046		0.017	0.0058	mg/Kg	1	☼	7471B	Total/NA
pH	7.4		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2947V-17-B28 (0-5)

Lab Sample ID: 500-153433-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.011	J	0.040	0.0053	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.020	J	0.040	0.0067	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.11		0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B28 (0-5) (Continued)

Lab Sample ID: 500-153433-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	0.12		0.040	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.20		0.040	0.0086	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.071		0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.067		0.040	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.14		0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.034	J	0.040	0.0077	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.24		0.040	0.0074	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.078		0.040	0.010	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.0086	J	0.080	0.0073	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.0085	J	0.040	0.0061	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.092		0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.21		0.040	0.0079	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.25	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.9		0.61	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	96		0.61	0.070	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.65		0.25	0.057	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.38	B	0.12	0.022	mg/Kg	1	☼	6010B	Total/NA
Chromium	17	B	0.61	0.30	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.2		0.31	0.080	mg/Kg	1	☼	6010B	Total/NA
Copper	18	B	0.61	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	16000	B	12	6.4	mg/Kg	1	☼	6010B	Total/NA
Lead	85		0.31	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	10000		6.1	3.0	mg/Kg	1	☼	6010B	Total/NA
Calcium	15000	B	12	2.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	570	B	0.61	0.089	mg/Kg	1	☼	6010B	Total/NA
Nickel	20		0.61	0.18	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.64		0.61	0.36	mg/Kg	1	☼	6010B	Total/NA
Silver	0.23	J	0.31	0.079	mg/Kg	1	☼	6010B	Total/NA
Vanadium	24		0.31	0.072	mg/Kg	1	☼	6010B	Total/NA
Zinc	90		1.2	0.54	mg/Kg	1	☼	6010B	Total/NA
Potassium	1600		31	11	mg/Kg	1	☼	6010B	Total/NA
Sodium	260		61	9.1	mg/Kg	1	☼	6010B	Total/NA
Barium	0.70		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	290		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	160		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.10		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.7	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.40	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.034		0.019	0.0064	mg/Kg	1	☼	7471B	Total/NA
pH	7.8		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2947V-17-B24 (0-5)

Lab Sample ID: 500-153433-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.0058	J	0.039	0.0052	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.0098	J	0.039	0.0066	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.044		0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.064		0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.090		0.039	0.0086	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.056		0.039	0.013	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B24 (0-5) (Continued)

Lab Sample ID: 500-153433-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[k]fluoranthene	0.024	J	0.039	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.057		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.028	J	0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.088		0.039	0.0074	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.056		0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.031	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.080		0.039	0.0079	mg/Kg	1	☼	8270D	Total/NA
Arsenic	13		3.0	1.0	mg/Kg	5	☼	6010B	Total/NA
Barium	94		3.0	0.34	mg/Kg	5	☼	6010B	Total/NA
Beryllium	1.1	J	1.2	0.28	mg/Kg	5	☼	6010B	Total/NA
Cadmium	0.26	J B	0.60	0.11	mg/Kg	5	☼	6010B	Total/NA
Chromium	25	B	3.0	1.5	mg/Kg	5	☼	6010B	Total/NA
Cobalt	11		0.30	0.079	mg/Kg	1	☼	6010B	Total/NA
Copper	23	B	3.0	0.84	mg/Kg	5	☼	6010B	Total/NA
Iron	29000	B	60	31	mg/Kg	5	☼	6010B	Total/NA
Lead	26		0.30	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	5900		30	15	mg/Kg	5	☼	6010B	Total/NA
Calcium	5900	B	60	10	mg/Kg	5	☼	6010B	Total/NA
Manganese	980	B	3.0	0.44	mg/Kg	5	☼	6010B	Total/NA
Nickel	40		0.60	0.17	mg/Kg	1	☼	6010B	Total/NA
Silver	0.44	J	1.5	0.39	mg/Kg	5	☼	6010B	Total/NA
Vanadium	31		1.5	0.35	mg/Kg	5	☼	6010B	Total/NA
Zinc	160		1.2	0.53	mg/Kg	1	☼	6010B	Total/NA
Potassium	3100		150	53	mg/Kg	5	☼	6010B	Total/NA
Sodium	1000		300	44	mg/Kg	5	☼	6010B	Total/NA
Barium	0.59		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	220		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	120		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	4.5		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.033		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.4	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	1.4		0.50	0.020	mg/L	1		6010B	TCLP
Manganese	3.7		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.050		0.020	0.0068	mg/Kg	1	☼	7471B	Total/NA
pH	7.9		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2947V-17-B23 (0-5)

Lab Sample ID: 500-153433-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.00075	J	0.0019	0.00067	mg/Kg	1	☼	8260B	Total/NA
Acenaphthylene	0.0085	J	0.039	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.019	J	0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.037	J	0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.036	J	0.039	0.0086	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.027	J	0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.012	J	0.039	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.023	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.032	J	0.039	0.0074	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.034	J	0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0098	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B23 (0-5) (Continued)

Lab Sample ID: 500-153433-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	0.029	J	0.039	0.0079	mg/Kg	1	☼	8270D	Total/NA
Arsenic	8.3		0.58	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	90		0.58	0.066	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.72		0.23	0.054	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.15	B	0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Chromium	17	B	0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.29	0.076	mg/Kg	1	☼	6010B	Total/NA
Copper	21	B	0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	20000	B	12	6.0	mg/Kg	1	☼	6010B	Total/NA
Lead	20		0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	10000		5.8	2.9	mg/Kg	1	☼	6010B	Total/NA
Calcium	14000	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	570	B	0.58	0.084	mg/Kg	1	☼	6010B	Total/NA
Nickel	29		0.58	0.17	mg/Kg	1	☼	6010B	Total/NA
Silver	0.25	J	0.29	0.075	mg/Kg	1	☼	6010B	Total/NA
Vanadium	26		0.29	0.069	mg/Kg	1	☼	6010B	Total/NA
Zinc	66		1.2	0.51	mg/Kg	1	☼	6010B	Total/NA
Potassium	2000		29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	310		58	8.6	mg/Kg	1	☼	6010B	Total/NA
Barium	0.64		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	190		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	98		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.32		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.8	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.81		0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.0		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.038		0.019	0.0063	mg/Kg	1	☼	7471B	Total/NA
pH	8.3		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2947V-17-B22 (0-5)

Lab Sample ID: 500-153433-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0070	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.018	J	0.038	0.0073	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.0093	J	0.038	0.0070	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.019	J	0.038	0.0098	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.0099	J	0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.40	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.2		0.56	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	49		0.56	0.064	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.66		0.23	0.053	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.13	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	15	B	0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.28	0.074	mg/Kg	1	☼	6010B	Total/NA
Copper	23	B	0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	19000	B	11	5.9	mg/Kg	1	☼	6010B	Total/NA
Lead	16		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	29000		5.6	2.8	mg/Kg	1	☼	6010B	Total/NA
Calcium	63000	B	56	9.6	mg/Kg	5	☼	6010B	Total/NA
Manganese	360	B	0.56	0.082	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B22 (0-5) (Continued)

Lab Sample ID: 500-153433-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	31		0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.48	J	0.56	0.33	mg/Kg	1	☼	6010B	Total/NA
Silver	0.13	J	0.28	0.073	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.46	J	0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	17		0.28	0.067	mg/Kg	1	☼	6010B	Total/NA
Zinc	56		1.1	0.50	mg/Kg	1	☼	6010B	Total/NA
Potassium	2600		28	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	550		56	8.3	mg/Kg	1	☼	6010B	Total/NA
Barium	0.55		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	480		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	92		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.53		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.1	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.025		0.019	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	8.9		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2947V-17-B21 (0-5)

Lab Sample ID: 500-153433-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.031	J	0.041	0.0074	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.043		0.041	0.0069	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.21		0.041	0.0055	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.19		0.041	0.0080	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.33		0.041	0.0089	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.087		0.041	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.12		0.041	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.28		0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.039	J	0.041	0.0080	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.73		0.041	0.0076	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.028	J	0.041	0.0058	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.099		0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.47		0.041	0.0057	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.60		0.041	0.0082	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.25	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.6		0.61	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	120		0.61	0.069	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.67		0.24	0.057	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.16	B	0.12	0.022	mg/Kg	1	☼	6010B	Total/NA
Chromium	16	B	0.61	0.30	mg/Kg	1	☼	6010B	Total/NA
Cobalt	10		0.30	0.080	mg/Kg	1	☼	6010B	Total/NA
Copper	12	B	0.61	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	16000	B	12	6.3	mg/Kg	1	☼	6010B	Total/NA
Lead	25		0.30	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2700		6.1	3.0	mg/Kg	1	☼	6010B	Total/NA
Calcium	2700	B	12	2.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	660	B	0.61	0.088	mg/Kg	1	☼	6010B	Total/NA
Nickel	17		0.61	0.18	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.50	J	0.61	0.36	mg/Kg	1	☼	6010B	Total/NA
Silver	0.27	J	0.30	0.078	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B21 (0-5) (Continued)

Lab Sample ID: 500-153433-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	28		0.30	0.072	mg/Kg	1	☼	6010B	Total/NA
Zinc	63		1.2	0.53	mg/Kg	1	☼	6010B	Total/NA
Potassium	1300		30	11	mg/Kg	1	☼	6010B	Total/NA
Sodium	170		61	9.0	mg/Kg	1	☼	6010B	Total/NA
Barium	0.37	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	54		5.0	0.50	mg/L	1		6010B	TCLP
Iron	0.28	J F1	0.40	0.20	mg/L	1		6010B	TCLP
Magnesium	22		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.023	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.74	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.21	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.029		0.020	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	7.5		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago



Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-153433-1	2947V-17-B35 (0-5)	Solid	10/18/18 09:00	10/18/18 16:45
500-153433-2	2947V-17-B35 (0-5) Dup	Solid	10/18/18 09:10	10/18/18 16:45
500-153433-3	2947V-17-B34 (0-5)	Solid	10/18/18 09:30	10/18/18 16:45
500-153433-4	2947V-17-B33 (0-5)	Solid	10/18/18 09:50	10/18/18 16:45
500-153433-5	2947V-17-B32 (0-5)	Solid	10/18/18 10:20	10/18/18 16:45
500-153433-6	2947V-17-B31 (0-5)	Solid	10/18/18 10:45	10/18/18 16:45
500-153433-7	2947V-17-B30 (0-5)	Solid	10/18/18 11:10	10/18/18 16:45
500-153433-8	2947V-17-B29 (0-5)	Solid	10/18/18 11:30	10/18/18 16:45
500-153433-9	2947V-17-B28 (0-5)	Solid	10/18/18 12:00	10/18/18 16:45
500-153433-10	2947V-17-B24 (0-5)	Solid	10/18/18 12:55	10/18/18 16:45
500-153433-11	2947V-17-B23 (0-5)	Solid	10/18/18 13:20	10/18/18 16:45
500-153433-12	2947V-17-B22 (0-5)	Solid	10/18/18 13:50	10/18/18 16:45
500-153433-13	2947V-17-B21 (0-5)	Solid	10/18/18 14:30	10/18/18 16:45

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B35 (0-5)

Lab Sample ID: 500-153433-1

Date Collected: 10/18/18 09:00

Matrix: Solid

Date Received: 10/18/18 16:45

Percent Solids: 87.5

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	☼	10/19/18 17:43	10/28/18 23:21	1
Benzene	<0.00049		0.0019	0.00049	mg/Kg	☼	10/19/18 17:43	10/28/18 23:21	1
Bromodichloromethane	<0.00039		0.0019	0.00039	mg/Kg	☼	10/19/18 17:43	10/28/18 23:21	1
Bromoform	<0.00056		0.0019	0.00056	mg/Kg	☼	10/19/18 17:43	10/28/18 23:21	1
Bromomethane	<0.0018		0.0048	0.0018	mg/Kg	☼	10/19/18 17:43	10/28/18 23:21	1
2-Butanone (MEK)	<0.0021		0.0048	0.0021	mg/Kg	☼	10/19/18 17:43	10/28/18 23:21	1
Carbon disulfide	<0.0010		0.0048	0.0010	mg/Kg	☼	10/19/18 17:43	10/28/18 23:21	1
Carbon tetrachloride	<0.00056		0.0019	0.00056	mg/Kg	☼	10/19/18 17:43	10/28/18 23:21	1
Chlorobenzene	<0.00071		0.0019	0.00071	mg/Kg	☼	10/19/18 17:43	10/28/18 23:21	1
Chloroethane	<0.0014	*	0.0048	0.0014	mg/Kg	☼	10/19/18 17:43	10/28/18 23:21	1
Chloroform	<0.00067		0.0019	0.00067	mg/Kg	☼	10/19/18 17:43	10/28/18 23:21	1
Chloromethane	<0.0019		0.0048	0.0019	mg/Kg	☼	10/19/18 17:43	10/28/18 23:21	1
cis-1,2-Dichloroethene	<0.00054		0.0019	0.00054	mg/Kg	☼	10/19/18 17:43	10/28/18 23:21	1
cis-1,3-Dichloropropene	<0.00058		0.0019	0.00058	mg/Kg	☼	10/19/18 17:43	10/28/18 23:21	1
Dibromochloromethane	<0.00063		0.0019	0.00063	mg/Kg	☼	10/19/18 17:43	10/28/18 23:21	1
1,1-Dichloroethane	<0.00066		0.0019	0.00066	mg/Kg	☼	10/19/18 17:43	10/28/18 23:21	1
1,2-Dichloroethane	<0.0015		0.0048	0.0015	mg/Kg	☼	10/19/18 17:43	10/28/18 23:21	1
1,1-Dichloroethene	<0.00066		0.0019	0.00066	mg/Kg	☼	10/19/18 17:43	10/28/18 23:21	1
1,2-Dichloropropane	<0.00050		0.0019	0.00050	mg/Kg	☼	10/19/18 17:43	10/28/18 23:21	1
1,3-Dichloropropene, Total	<0.00067		0.0019	0.00067	mg/Kg	☼	10/19/18 17:43	10/28/18 23:21	1
Ethylbenzene	<0.00092		0.0019	0.00092	mg/Kg	☼	10/19/18 17:43	10/28/18 23:21	1
2-Hexanone	<0.0015		0.0048	0.0015	mg/Kg	☼	10/19/18 17:43	10/28/18 23:21	1
Methylene Chloride	<0.0019		0.0048	0.0019	mg/Kg	☼	10/19/18 17:43	10/28/18 23:21	1
4-Methyl-2-pentanone (MIBK)	<0.0014		0.0048	0.0014	mg/Kg	☼	10/19/18 17:43	10/28/18 23:21	1
Methyl tert-butyl ether	<0.00056		0.0019	0.00056	mg/Kg	☼	10/19/18 17:43	10/28/18 23:21	1
Styrene	<0.00058		0.0019	0.00058	mg/Kg	☼	10/19/18 17:43	10/28/18 23:21	1
1,1,2,2-Tetrachloroethane	<0.00061		0.0019	0.00061	mg/Kg	☼	10/19/18 17:43	10/28/18 23:21	1
Tetrachloroethene	<0.00065		0.0019	0.00065	mg/Kg	☼	10/19/18 17:43	10/28/18 23:21	1
Toluene	<0.00048		0.0019	0.00048	mg/Kg	☼	10/19/18 17:43	10/28/18 23:21	1
trans-1,2-Dichloroethene	<0.00085		0.0019	0.00085	mg/Kg	☼	10/19/18 17:43	10/28/18 23:21	1
trans-1,3-Dichloropropene	<0.00067		0.0019	0.00067	mg/Kg	☼	10/19/18 17:43	10/28/18 23:21	1
1,1,1-Trichloroethane	<0.00064		0.0019	0.00064	mg/Kg	☼	10/19/18 17:43	10/28/18 23:21	1
1,1,2-Trichloroethane	<0.00082		0.0019	0.00082	mg/Kg	☼	10/19/18 17:43	10/28/18 23:21	1
Trichloroethene	<0.00065		0.0019	0.00065	mg/Kg	☼	10/19/18 17:43	10/28/18 23:21	1
Vinyl acetate	<0.0017		0.0048	0.0017	mg/Kg	☼	10/19/18 17:43	10/28/18 23:21	1
Vinyl chloride	<0.00085		0.0019	0.00085	mg/Kg	☼	10/19/18 17:43	10/28/18 23:21	1
Xylenes, Total	<0.00061		0.0038	0.00061	mg/Kg	☼	10/19/18 17:43	10/28/18 23:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		75 - 131	10/19/18 17:43	10/28/18 23:21	1
Dibromofluoromethane	103		75 - 126	10/19/18 17:43	10/28/18 23:21	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134	10/19/18 17:43	10/28/18 23:21	1
Toluene-d8 (Surr)	94		75 - 124	10/19/18 17:43	10/28/18 23:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0068		0.037	0.0068	mg/Kg	☼	10/25/18 07:13	10/28/18 14:21	1
Acenaphthylene	<0.0050		0.037	0.0050	mg/Kg	☼	10/25/18 07:13	10/28/18 14:21	1
Anthracene	<0.0063		0.037	0.0063	mg/Kg	☼	10/25/18 07:13	10/28/18 14:21	1
Benzo[a]anthracene	<0.0051		0.037	0.0051	mg/Kg	☼	10/25/18 07:13	10/28/18 14:21	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B35 (0-5)

Lab Sample ID: 500-153433-1

Date Collected: 10/18/18 09:00

Matrix: Solid

Date Received: 10/18/18 16:45

Percent Solids: 87.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.0073		0.037	0.0073	mg/Kg	☼	10/25/18 07:13	10/28/18 14:21	1
Benzo[b]fluoranthene	<0.0081		0.037	0.0081	mg/Kg	☼	10/25/18 07:13	10/28/18 14:21	1
Benzo[g,h,i]perylene	<0.012	F1	0.037	0.012	mg/Kg	☼	10/25/18 07:13	10/28/18 14:21	1
Benzo[k]fluoranthene	<0.011		0.037	0.011	mg/Kg	☼	10/25/18 07:13	10/28/18 14:21	1
Bis(2-chloroethoxy)methane	<0.038		0.19	0.038	mg/Kg	☼	10/25/18 07:13	10/28/18 14:21	1
Bis(2-chloroethyl)ether	<0.056		0.19	0.056	mg/Kg	☼	10/25/18 07:13	10/28/18 14:21	1
Bis(2-ethylhexyl) phthalate	<0.069		0.19	0.069	mg/Kg	☼	10/25/18 07:13	10/28/18 14:21	1
4-Bromophenyl phenyl ether	<0.050		0.19	0.050	mg/Kg	☼	10/25/18 07:13	10/28/18 14:21	1
Butyl benzyl phthalate	<0.072		0.19	0.072	mg/Kg	☼	10/25/18 07:13	10/28/18 14:21	1
Carbazole	<0.094		0.19	0.094	mg/Kg	☼	10/25/18 07:13	10/28/18 14:21	1
4-Chloroaniline	<0.18		0.76	0.18	mg/Kg	☼	10/25/18 07:13	10/28/18 14:21	1
4-Chloro-3-methylphenol	<0.13		0.37	0.13	mg/Kg	☼	10/25/18 07:13	10/28/18 14:21	1
2-Chloronaphthalene	<0.042		0.19	0.042	mg/Kg	☼	10/25/18 07:13	10/28/18 14:21	1
2-Chlorophenol	<0.064		0.19	0.064	mg/Kg	☼	10/25/18 07:13	10/28/18 14:21	1
4-Chlorophenyl phenyl ether	<0.044		0.19	0.044	mg/Kg	☼	10/25/18 07:13	10/28/18 14:21	1
Chrysene	<0.010		0.037	0.010	mg/Kg	☼	10/25/18 07:13	10/28/18 14:21	1
Dibenz(a,h)anthracene	<0.0073		0.037	0.0073	mg/Kg	☼	10/25/18 07:13	10/28/18 14:21	1
Dibenzofuran	<0.044		0.19	0.044	mg/Kg	☼	10/25/18 07:13	10/28/18 14:21	1
1,2-Dichlorobenzene	<0.045		0.19	0.045	mg/Kg	☼	10/25/18 07:13	10/28/18 14:21	1
1,3-Dichlorobenzene	<0.042		0.19	0.042	mg/Kg	☼	10/25/18 07:13	10/28/18 14:21	1
1,4-Dichlorobenzene	<0.048		0.19	0.048	mg/Kg	☼	10/25/18 07:13	10/28/18 14:21	1
3,3'-Dichlorobenzidine	<0.053		0.19	0.053	mg/Kg	☼	10/25/18 07:13	10/28/18 14:21	1
2,4-Dichlorophenol	<0.089		0.37	0.089	mg/Kg	☼	10/25/18 07:13	10/28/18 14:21	1
Diethyl phthalate	<0.064		0.19	0.064	mg/Kg	☼	10/25/18 07:13	10/28/18 14:21	1
2,4-Dimethylphenol	<0.14		0.37	0.14	mg/Kg	☼	10/25/18 07:13	10/28/18 14:21	1
Dimethyl phthalate	<0.049		0.19	0.049	mg/Kg	☼	10/25/18 07:13	10/28/18 14:21	1
Di-n-butyl phthalate	<0.057		0.19	0.057	mg/Kg	☼	10/25/18 07:13	10/28/18 14:21	1
4,6-Dinitro-2-methylphenol	<0.30	F1	0.76	0.30	mg/Kg	☼	10/25/18 07:13	10/28/18 14:21	1
2,4-Dinitrophenol	<0.66	F1	0.76	0.66	mg/Kg	☼	10/25/18 07:13	10/28/18 14:21	1
2,4-Dinitrotoluene	<0.060		0.19	0.060	mg/Kg	☼	10/25/18 07:13	10/28/18 14:21	1
2,6-Dinitrotoluene	<0.074		0.19	0.074	mg/Kg	☼	10/25/18 07:13	10/28/18 14:21	1
Di-n-octyl phthalate	<0.061		0.19	0.061	mg/Kg	☼	10/25/18 07:13	10/28/18 14:21	1
Fluoranthene	<0.0070		0.037	0.0070	mg/Kg	☼	10/25/18 07:13	10/28/18 14:21	1
Fluorene	<0.0053		0.037	0.0053	mg/Kg	☼	10/25/18 07:13	10/28/18 14:21	1
Hexachlorobenzene	<0.0087		0.076	0.0087	mg/Kg	☼	10/25/18 07:13	10/28/18 14:21	1
Hexachlorobutadiene	<0.059		0.19	0.059	mg/Kg	☼	10/25/18 07:13	10/28/18 14:21	1
Hexachlorocyclopentadiene	<0.22	F1	0.76	0.22	mg/Kg	☼	10/25/18 07:13	10/28/18 14:21	1
Hexachloroethane	<0.057		0.19	0.057	mg/Kg	☼	10/25/18 07:13	10/28/18 14:21	1
Indeno[1,2,3-cd]pyrene	<0.0098	F1	0.037	0.0098	mg/Kg	☼	10/25/18 07:13	10/28/18 14:21	1
Isophorone	<0.042		0.19	0.042	mg/Kg	☼	10/25/18 07:13	10/28/18 14:21	1
2-Methylnaphthalene	<0.0069		0.076	0.0069	mg/Kg	☼	10/25/18 07:13	10/28/18 14:21	1
2-Methylphenol	<0.060		0.19	0.060	mg/Kg	☼	10/25/18 07:13	10/28/18 14:21	1
3 & 4 Methylphenol	<0.063		0.19	0.063	mg/Kg	☼	10/25/18 07:13	10/28/18 14:21	1
Naphthalene	<0.0058		0.037	0.0058	mg/Kg	☼	10/25/18 07:13	10/28/18 14:21	1
2-Nitroaniline	<0.051		0.19	0.051	mg/Kg	☼	10/25/18 07:13	10/28/18 14:21	1
3-Nitroaniline	<0.12		0.37	0.12	mg/Kg	☼	10/25/18 07:13	10/28/18 14:21	1
4-Nitroaniline	<0.16		0.37	0.16	mg/Kg	☼	10/25/18 07:13	10/28/18 14:21	1
Nitrobenzene	<0.0094		0.037	0.0094	mg/Kg	☼	10/25/18 07:13	10/28/18 14:21	1
2-Nitrophenol	<0.089		0.37	0.089	mg/Kg	☼	10/25/18 07:13	10/28/18 14:21	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B35 (0-5)

Lab Sample ID: 500-153433-1

Date Collected: 10/18/18 09:00

Matrix: Solid

Date Received: 10/18/18 16:45

Percent Solids: 87.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.36		0.76	0.36	mg/Kg	☼	10/25/18 07:13	10/28/18 14:21	1
N-Nitrosodi-n-propylamine	<0.046		0.076	0.046	mg/Kg	☼	10/25/18 07:13	10/28/18 14:21	1
N-Nitrosodiphenylamine	<0.044		0.19	0.044	mg/Kg	☼	10/25/18 07:13	10/28/18 14:21	1
2,2'-oxybis[1-chloropropane]	<0.044		0.19	0.044	mg/Kg	☼	10/25/18 07:13	10/28/18 14:21	1
Pentachlorophenol	<0.60	F1	0.76	0.60	mg/Kg	☼	10/25/18 07:13	10/28/18 14:21	1
Phenanthrene	<0.0052		0.037	0.0052	mg/Kg	☼	10/25/18 07:13	10/28/18 14:21	1
Phenol	<0.084		0.19	0.084	mg/Kg	☼	10/25/18 07:13	10/28/18 14:21	1
Pyrene	<0.0075		0.037	0.0075	mg/Kg	☼	10/25/18 07:13	10/28/18 14:21	1
1,2,4-Trichlorobenzene	<0.041		0.19	0.041	mg/Kg	☼	10/25/18 07:13	10/28/18 14:21	1
2,4,5-Trichlorophenol	<0.086		0.37	0.086	mg/Kg	☼	10/25/18 07:13	10/28/18 14:21	1
2,4,6-Trichlorophenol	<0.13		0.37	0.13	mg/Kg	☼	10/25/18 07:13	10/28/18 14:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	103		43 - 145	10/25/18 07:13	10/28/18 14:21	1
2-Fluorophenol	142		31 - 166	10/25/18 07:13	10/28/18 14:21	1
Nitrobenzene-d5	99		37 - 147	10/25/18 07:13	10/28/18 14:21	1
Phenol-d5	135		30 - 153	10/25/18 07:13	10/28/18 14:21	1
Terphenyl-d14	121		42 - 157	10/25/18 07:13	10/28/18 14:21	1
2,4,6-Tribromophenol	90		31 - 143	10/25/18 07:13	10/28/18 14:21	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	☼	10/24/18 17:02	10/25/18 17:22	1
Arsenic	9.0	F1	0.56	0.19	mg/Kg	☼	10/24/18 17:02	10/25/18 17:22	1
Barium	74	F1	0.56	0.064	mg/Kg	☼	10/24/18 17:02	10/25/18 17:22	1
Beryllium	0.65	F1	0.22	0.052	mg/Kg	☼	10/24/18 17:02	10/25/18 17:22	1
Cadmium	0.095	J B F1	0.11	0.020	mg/Kg	☼	10/24/18 17:02	10/25/18 17:22	1
Chromium	16	B	0.56	0.28	mg/Kg	☼	10/24/18 17:02	10/25/18 17:22	1
Cobalt	13		0.28	0.074	mg/Kg	☼	10/24/18 17:02	10/25/18 17:22	1
Copper	21	B	0.56	0.16	mg/Kg	☼	10/24/18 17:02	10/25/18 17:22	1
Iron	19000	B	11	5.8	mg/Kg	☼	10/24/18 17:02	10/25/18 17:22	1
Lead	16		0.28	0.13	mg/Kg	☼	10/24/18 17:02	10/25/18 17:22	1
Magnesium	2800		5.6	2.8	mg/Kg	☼	10/24/18 17:02	10/25/18 17:22	1
Calcium	1300	B F1	11	1.9	mg/Kg	☼	10/24/18 17:02	10/25/18 17:22	1
Manganese	540	B	0.56	0.081	mg/Kg	☼	10/24/18 17:02	10/25/18 17:22	1
Nickel	31		0.56	0.16	mg/Kg	☼	10/24/18 17:02	10/25/18 17:22	1
Selenium	0.34	J F1	0.56	0.33	mg/Kg	☼	10/24/18 17:02	10/25/18 17:22	1
Silver	0.29	F1	0.28	0.072	mg/Kg	☼	10/24/18 17:02	10/25/18 17:22	1
Thallium	<0.28		0.56	0.28	mg/Kg	☼	10/24/18 17:02	10/25/18 17:22	1
Vanadium	27		0.28	0.066	mg/Kg	☼	10/24/18 17:02	10/25/18 17:22	1
Zinc	68		1.1	0.49	mg/Kg	☼	10/24/18 17:02	10/25/18 17:22	1
Potassium	1300	F1	28	9.9	mg/Kg	☼	10/24/18 17:02	10/25/18 17:22	1
Sodium	140	F1	56	8.3	mg/Kg	☼	10/24/18 17:02	10/25/18 17:22	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		10/25/18 15:16	10/26/18 12:17	1
Barium	0.40	J	0.50	0.050	mg/L		10/25/18 15:16	10/26/18 12:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/25/18 15:16	10/26/18 12:17	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		10/25/18 15:16	10/26/18 12:17	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B35 (0-5)

Lab Sample ID: 500-153433-1

Date Collected: 10/18/18 09:00

Matrix: Solid

Date Received: 10/18/18 16:45

Percent Solids: 87.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	31		5.0	0.50	mg/L		10/25/18 15:16	10/26/18 12:17	1
Chromium	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:17	1
Cobalt	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:17	1
Copper	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:17	1
Iron	<0.20		0.40	0.20	mg/L		10/25/18 15:16	10/26/18 12:17	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/25/18 15:16	10/26/18 12:17	1
Magnesium	14		2.5	0.50	mg/L		10/25/18 15:16	10/26/18 12:17	1
Manganese	0.015	J	0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:17	1
Nickel	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:17	1
Potassium	1.4	J	2.5	0.50	mg/L		10/25/18 15:16	10/26/18 12:17	1
Selenium	<0.020		0.050	0.020	mg/L		10/25/18 15:16	10/26/18 12:17	1
Silver	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:17	1
Vanadium	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:17	1
Zinc	0.47	J	0.50	0.020	mg/L		10/25/18 15:16	10/26/18 12:17	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		10/25/18 15:16	10/26/18 12:46	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/25/18 15:16	10/26/18 12:46	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		10/25/18 12:40	10/26/18 09:35	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.018	0.0059	mg/Kg	☼	10/24/18 16:40	10/25/18 09:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.19		0.55	0.19	mg/Kg	☼	10/29/18 10:50	10/29/18 15:39	1
pH	6.8		0.2	0.2	SU			10/25/18 14:31	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B35 (0-5) Dup

Lab Sample ID: 500-153433-2

Date Collected: 10/18/18 09:10

Matrix: Solid

Date Received: 10/18/18 16:45

Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0088		0.020	0.0088	mg/Kg	☼	10/19/18 17:43	10/28/18 23:47	1
Benzene	<0.00052		0.0020	0.00052	mg/Kg	☼	10/19/18 17:43	10/28/18 23:47	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg	☼	10/19/18 17:43	10/28/18 23:47	1
Bromoform	<0.00059		0.0020	0.00059	mg/Kg	☼	10/19/18 17:43	10/28/18 23:47	1
Bromomethane	<0.0019		0.0051	0.0019	mg/Kg	☼	10/19/18 17:43	10/28/18 23:47	1
2-Butanone (MEK)	<0.0023		0.0051	0.0023	mg/Kg	☼	10/19/18 17:43	10/28/18 23:47	1
Carbon disulfide	<0.0011		0.0051	0.0011	mg/Kg	☼	10/19/18 17:43	10/28/18 23:47	1
Carbon tetrachloride	<0.00059		0.0020	0.00059	mg/Kg	☼	10/19/18 17:43	10/28/18 23:47	1
Chlorobenzene	<0.00075		0.0020	0.00075	mg/Kg	☼	10/19/18 17:43	10/28/18 23:47	1
Chloroethane	<0.0015	*	0.0051	0.0015	mg/Kg	☼	10/19/18 17:43	10/28/18 23:47	1
Chloroform	<0.00070		0.0020	0.00070	mg/Kg	☼	10/19/18 17:43	10/28/18 23:47	1
Chloromethane	<0.0020		0.0051	0.0020	mg/Kg	☼	10/19/18 17:43	10/28/18 23:47	1
cis-1,2-Dichloroethene	<0.00057		0.0020	0.00057	mg/Kg	☼	10/19/18 17:43	10/28/18 23:47	1
cis-1,3-Dichloropropene	<0.00061		0.0020	0.00061	mg/Kg	☼	10/19/18 17:43	10/28/18 23:47	1
Dibromochloromethane	<0.00066		0.0020	0.00066	mg/Kg	☼	10/19/18 17:43	10/28/18 23:47	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg	☼	10/19/18 17:43	10/28/18 23:47	1
1,2-Dichloroethane	<0.0016		0.0051	0.0016	mg/Kg	☼	10/19/18 17:43	10/28/18 23:47	1
1,1-Dichloroethene	<0.00070		0.0020	0.00070	mg/Kg	☼	10/19/18 17:43	10/28/18 23:47	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg	☼	10/19/18 17:43	10/28/18 23:47	1
1,3-Dichloropropane, Total	<0.00071		0.0020	0.00071	mg/Kg	☼	10/19/18 17:43	10/28/18 23:47	1
Ethylbenzene	<0.00097		0.0020	0.00097	mg/Kg	☼	10/19/18 17:43	10/28/18 23:47	1
2-Hexanone	<0.0016		0.0051	0.0016	mg/Kg	☼	10/19/18 17:43	10/28/18 23:47	1
Methylene Chloride	<0.0020		0.0051	0.0020	mg/Kg	☼	10/19/18 17:43	10/28/18 23:47	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0051	0.0015	mg/Kg	☼	10/19/18 17:43	10/28/18 23:47	1
Methyl tert-butyl ether	<0.00060		0.0020	0.00060	mg/Kg	☼	10/19/18 17:43	10/28/18 23:47	1
Styrene	<0.00061		0.0020	0.00061	mg/Kg	☼	10/19/18 17:43	10/28/18 23:47	1
1,1,2,2-Tetrachloroethane	<0.00065		0.0020	0.00065	mg/Kg	☼	10/19/18 17:43	10/28/18 23:47	1
Tetrachloroethene	<0.00069		0.0020	0.00069	mg/Kg	☼	10/19/18 17:43	10/28/18 23:47	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg	☼	10/19/18 17:43	10/28/18 23:47	1
trans-1,2-Dichloroethene	<0.00090		0.0020	0.00090	mg/Kg	☼	10/19/18 17:43	10/28/18 23:47	1
trans-1,3-Dichloropropene	<0.00071		0.0020	0.00071	mg/Kg	☼	10/19/18 17:43	10/28/18 23:47	1
1,1,1-Trichloroethane	<0.00068		0.0020	0.00068	mg/Kg	☼	10/19/18 17:43	10/28/18 23:47	1
1,1,2-Trichloroethane	<0.00087		0.0020	0.00087	mg/Kg	☼	10/19/18 17:43	10/28/18 23:47	1
Trichloroethene	<0.00069		0.0020	0.00069	mg/Kg	☼	10/19/18 17:43	10/28/18 23:47	1
Vinyl acetate	<0.0018		0.0051	0.0018	mg/Kg	☼	10/19/18 17:43	10/28/18 23:47	1
Vinyl chloride	<0.00090		0.0020	0.00090	mg/Kg	☼	10/19/18 17:43	10/28/18 23:47	1
Xylenes, Total	<0.00065		0.0041	0.00065	mg/Kg	☼	10/19/18 17:43	10/28/18 23:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		75 - 131	10/19/18 17:43	10/28/18 23:47	1
Dibromofluoromethane	102		75 - 126	10/19/18 17:43	10/28/18 23:47	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134	10/19/18 17:43	10/28/18 23:47	1
Toluene-d8 (Surr)	97		75 - 124	10/19/18 17:43	10/28/18 23:47	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	☼	10/25/18 07:13	10/28/18 14:47	1
Acenaphthylene	<0.0049		0.037	0.0049	mg/Kg	☼	10/25/18 07:13	10/28/18 14:47	1
Anthracene	<0.0062		0.037	0.0062	mg/Kg	☼	10/25/18 07:13	10/28/18 14:47	1
Benzo[a]anthracene	<0.0050		0.037	0.0050	mg/Kg	☼	10/25/18 07:13	10/28/18 14:47	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B35 (0-5) Dup

Lab Sample ID: 500-153433-2

Date Collected: 10/18/18 09:10

Matrix: Solid

Date Received: 10/18/18 16:45

Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.0072		0.037	0.0072	mg/Kg	☼	10/25/18 07:13	10/28/18 14:47	1
Benzo[b]fluoranthene	<0.0080		0.037	0.0080	mg/Kg	☼	10/25/18 07:13	10/28/18 14:47	1
Benzo[g,h,i]perylene	<0.012		0.037	0.012	mg/Kg	☼	10/25/18 07:13	10/28/18 14:47	1
Benzo[k]fluoranthene	<0.011		0.037	0.011	mg/Kg	☼	10/25/18 07:13	10/28/18 14:47	1
Bis(2-chloroethoxy)methane	<0.038		0.19	0.038	mg/Kg	☼	10/25/18 07:13	10/28/18 14:47	1
Bis(2-chloroethyl)ether	<0.056		0.19	0.056	mg/Kg	☼	10/25/18 07:13	10/28/18 14:47	1
Bis(2-ethylhexyl) phthalate	<0.068		0.19	0.068	mg/Kg	☼	10/25/18 07:13	10/28/18 14:47	1
4-Bromophenyl phenyl ether	<0.049		0.19	0.049	mg/Kg	☼	10/25/18 07:13	10/28/18 14:47	1
Butyl benzyl phthalate	<0.071		0.19	0.071	mg/Kg	☼	10/25/18 07:13	10/28/18 14:47	1
Carbazole	<0.093		0.19	0.093	mg/Kg	☼	10/25/18 07:13	10/28/18 14:47	1
4-Chloroaniline	<0.17		0.75	0.17	mg/Kg	☼	10/25/18 07:13	10/28/18 14:47	1
4-Chloro-3-methylphenol	<0.13		0.37	0.13	mg/Kg	☼	10/25/18 07:13	10/28/18 14:47	1
2-Chloronaphthalene	<0.041		0.19	0.041	mg/Kg	☼	10/25/18 07:13	10/28/18 14:47	1
2-Chlorophenol	<0.063		0.19	0.063	mg/Kg	☼	10/25/18 07:13	10/28/18 14:47	1
4-Chlorophenyl phenyl ether	<0.043		0.19	0.043	mg/Kg	☼	10/25/18 07:13	10/28/18 14:47	1
Chrysene	<0.010		0.037	0.010	mg/Kg	☼	10/25/18 07:13	10/28/18 14:47	1
Dibenz(a,h)anthracene	<0.0072		0.037	0.0072	mg/Kg	☼	10/25/18 07:13	10/28/18 14:47	1
Dibenzofuran	<0.044		0.19	0.044	mg/Kg	☼	10/25/18 07:13	10/28/18 14:47	1
1,2-Dichlorobenzene	<0.044		0.19	0.044	mg/Kg	☼	10/25/18 07:13	10/28/18 14:47	1
1,3-Dichlorobenzene	<0.042		0.19	0.042	mg/Kg	☼	10/25/18 07:13	10/28/18 14:47	1
1,4-Dichlorobenzene	<0.048		0.19	0.048	mg/Kg	☼	10/25/18 07:13	10/28/18 14:47	1
3,3'-Dichlorobenzidine	<0.052		0.19	0.052	mg/Kg	☼	10/25/18 07:13	10/28/18 14:47	1
2,4-Dichlorophenol	<0.088		0.37	0.088	mg/Kg	☼	10/25/18 07:13	10/28/18 14:47	1
Diethyl phthalate	<0.063		0.19	0.063	mg/Kg	☼	10/25/18 07:13	10/28/18 14:47	1
2,4-Dimethylphenol	<0.14		0.37	0.14	mg/Kg	☼	10/25/18 07:13	10/28/18 14:47	1
Dimethyl phthalate	<0.049		0.19	0.049	mg/Kg	☼	10/25/18 07:13	10/28/18 14:47	1
Di-n-butyl phthalate	<0.057		0.19	0.057	mg/Kg	☼	10/25/18 07:13	10/28/18 14:47	1
4,6-Dinitro-2-methylphenol	<0.30		0.75	0.30	mg/Kg	☼	10/25/18 07:13	10/28/18 14:47	1
2,4-Dinitrophenol	<0.65		0.75	0.65	mg/Kg	☼	10/25/18 07:13	10/28/18 14:47	1
2,4-Dinitrotoluene	<0.059		0.19	0.059	mg/Kg	☼	10/25/18 07:13	10/28/18 14:47	1
2,6-Dinitrotoluene	<0.073		0.19	0.073	mg/Kg	☼	10/25/18 07:13	10/28/18 14:47	1
Di-n-octyl phthalate	<0.061		0.19	0.061	mg/Kg	☼	10/25/18 07:13	10/28/18 14:47	1
Fluoranthene	<0.0069		0.037	0.0069	mg/Kg	☼	10/25/18 07:13	10/28/18 14:47	1
Fluorene	<0.0052		0.037	0.0052	mg/Kg	☼	10/25/18 07:13	10/28/18 14:47	1
Hexachlorobenzene	<0.0086		0.075	0.0086	mg/Kg	☼	10/25/18 07:13	10/28/18 14:47	1
Hexachlorobutadiene	<0.058		0.19	0.058	mg/Kg	☼	10/25/18 07:13	10/28/18 14:47	1
Hexachlorocyclopentadiene	<0.21		0.75	0.21	mg/Kg	☼	10/25/18 07:13	10/28/18 14:47	1
Hexachloroethane	<0.057		0.19	0.057	mg/Kg	☼	10/25/18 07:13	10/28/18 14:47	1
Indeno[1,2,3-cd]pyrene	<0.0096		0.037	0.0096	mg/Kg	☼	10/25/18 07:13	10/28/18 14:47	1
Isophorone	<0.042		0.19	0.042	mg/Kg	☼	10/25/18 07:13	10/28/18 14:47	1
2-Methylnaphthalene	<0.0068		0.075	0.0068	mg/Kg	☼	10/25/18 07:13	10/28/18 14:47	1
2-Methylphenol	<0.060		0.19	0.060	mg/Kg	☼	10/25/18 07:13	10/28/18 14:47	1
3 & 4 Methylphenol	<0.062		0.19	0.062	mg/Kg	☼	10/25/18 07:13	10/28/18 14:47	1
Naphthalene	<0.0057		0.037	0.0057	mg/Kg	☼	10/25/18 07:13	10/28/18 14:47	1
2-Nitroaniline	<0.050		0.19	0.050	mg/Kg	☼	10/25/18 07:13	10/28/18 14:47	1
3-Nitroaniline	<0.12		0.37	0.12	mg/Kg	☼	10/25/18 07:13	10/28/18 14:47	1
4-Nitroaniline	<0.16		0.37	0.16	mg/Kg	☼	10/25/18 07:13	10/28/18 14:47	1
Nitrobenzene	<0.0093		0.037	0.0093	mg/Kg	☼	10/25/18 07:13	10/28/18 14:47	1
2-Nitrophenol	<0.088		0.37	0.088	mg/Kg	☼	10/25/18 07:13	10/28/18 14:47	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B35 (0-5) Dup

Lab Sample ID: 500-153433-2

Date Collected: 10/18/18 09:10

Matrix: Solid

Date Received: 10/18/18 16:45

Percent Solids: 86.9

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	☼	10/25/18 07:13	10/28/18 14:47	1
N-Nitrosodi-n-propylamine	<0.045		0.075	0.045	mg/Kg	☼	10/25/18 07:13	10/28/18 14:47	1
N-Nitrosodiphenylamine	<0.044		0.19	0.044	mg/Kg	☼	10/25/18 07:13	10/28/18 14:47	1
2,2'-oxybis[1-chloropropane]	<0.043		0.19	0.043	mg/Kg	☼	10/25/18 07:13	10/28/18 14:47	1
Pentachlorophenol	<0.60		0.75	0.60	mg/Kg	☼	10/25/18 07:13	10/28/18 14:47	1
Phenanthrene	<0.0052		0.037	0.0052	mg/Kg	☼	10/25/18 07:13	10/28/18 14:47	1
Phenol	<0.083		0.19	0.083	mg/Kg	☼	10/25/18 07:13	10/28/18 14:47	1
Pyrene	<0.0074		0.037	0.0074	mg/Kg	☼	10/25/18 07:13	10/28/18 14:47	1
1,2,4-Trichlorobenzene	<0.040		0.19	0.040	mg/Kg	☼	10/25/18 07:13	10/28/18 14:47	1
2,4,5-Trichlorophenol	<0.085		0.37	0.085	mg/Kg	☼	10/25/18 07:13	10/28/18 14:47	1
2,4,6-Trichlorophenol	<0.13		0.37	0.13	mg/Kg	☼	10/25/18 07:13	10/28/18 14:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	88		43 - 145	10/25/18 07:13	10/28/18 14:47	1
2-Fluorophenol	127		31 - 166	10/25/18 07:13	10/28/18 14:47	1
Nitrobenzene-d5	88		37 - 147	10/25/18 07:13	10/28/18 14:47	1
Phenol-d5	117		30 - 153	10/25/18 07:13	10/28/18 14:47	1
Terphenyl-d14	107		42 - 157	10/25/18 07:13	10/28/18 14:47	1
2,4,6-Tribromophenol	81		31 - 143	10/25/18 07:13	10/28/18 14:47	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.25	J	1.2	0.22	mg/Kg	☼	10/24/18 17:02	10/25/18 17:53	1
Arsenic	9.6		0.58	0.20	mg/Kg	☼	10/24/18 17:02	10/25/18 17:53	1
Barium	77		0.58	0.066	mg/Kg	☼	10/24/18 17:02	10/25/18 17:53	1
Beryllium	0.70		0.23	0.054	mg/Kg	☼	10/24/18 17:02	10/25/18 17:53	1
Cadmium	0.12	B	0.12	0.021	mg/Kg	☼	10/24/18 17:02	10/25/18 17:53	1
Chromium	17	B	0.58	0.28	mg/Kg	☼	10/24/18 17:02	10/25/18 17:53	1
Cobalt	13		0.29	0.075	mg/Kg	☼	10/24/18 17:02	10/25/18 17:53	1
Copper	22	B	0.58	0.16	mg/Kg	☼	10/24/18 17:02	10/25/18 17:53	1
Iron	20000	B	12	6.0	mg/Kg	☼	10/24/18 17:02	10/25/18 17:53	1
Lead	17		0.29	0.13	mg/Kg	☼	10/24/18 17:02	10/25/18 17:53	1
Magnesium	3000		5.8	2.9	mg/Kg	☼	10/24/18 17:02	10/25/18 17:53	1
Calcium	1300	B	12	1.9	mg/Kg	☼	10/24/18 17:02	10/25/18 17:53	1
Manganese	540	B	0.58	0.083	mg/Kg	☼	10/24/18 17:02	10/25/18 17:53	1
Nickel	32		0.58	0.17	mg/Kg	☼	10/24/18 17:02	10/25/18 17:53	1
Selenium	0.44	J	0.58	0.34	mg/Kg	☼	10/24/18 17:02	10/25/18 17:53	1
Silver	0.31		0.29	0.074	mg/Kg	☼	10/24/18 17:02	10/25/18 17:53	1
Thallium	<0.29		0.58	0.29	mg/Kg	☼	10/24/18 17:02	10/25/18 17:53	1
Vanadium	29		0.29	0.068	mg/Kg	☼	10/24/18 17:02	10/25/18 17:53	1
Zinc	73		1.2	0.50	mg/Kg	☼	10/24/18 17:02	10/25/18 17:53	1
Potassium	1700		29	10	mg/Kg	☼	10/24/18 17:02	10/25/18 17:53	1
Sodium	170		58	8.5	mg/Kg	☼	10/24/18 17:02	10/25/18 17:53	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		10/25/18 15:16	10/26/18 12:21	1
Barium	0.42	J	0.50	0.050	mg/L		10/25/18 15:16	10/26/18 12:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/25/18 15:16	10/26/18 12:21	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		10/25/18 15:16	10/26/18 12:21	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B35 (0-5) Dup

Lab Sample ID: 500-153433-2

Date Collected: 10/18/18 09:10

Matrix: Solid

Date Received: 10/18/18 16:45

Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	32		5.0	0.50	mg/L		10/25/18 15:16	10/26/18 12:21	1
Chromium	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:21	1
Cobalt	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:21	1
Copper	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:21	1
Iron	<0.20		0.40	0.20	mg/L		10/25/18 15:16	10/26/18 12:21	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/25/18 15:16	10/26/18 12:21	1
Magnesium	15		2.5	0.50	mg/L		10/25/18 15:16	10/26/18 12:21	1
Manganese	0.018	J	0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:21	1
Nickel	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:21	1
Potassium	1.4	J	2.5	0.50	mg/L		10/25/18 15:16	10/26/18 12:21	1
Selenium	<0.020		0.050	0.020	mg/L		10/25/18 15:16	10/26/18 12:21	1
Silver	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:21	1
Vanadium	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:21	1
Zinc	0.027	J	0.50	0.020	mg/L		10/25/18 15:16	10/26/18 12:21	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		10/25/18 15:16	10/26/18 12:47	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/25/18 15:16	10/26/18 12:47	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		10/25/18 12:40	10/26/18 09:37	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.018	0.0060	mg/Kg	☼	10/24/18 16:40	10/25/18 09:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.19		0.55	0.19	mg/Kg	☼	10/29/18 10:50	10/29/18 15:39	1
pH	6.6		0.2	0.2	SU			10/25/18 14:35	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B34 (0-5)

Lab Sample ID: 500-153433-3

Date Collected: 10/18/18 09:30

Matrix: Solid

Date Received: 10/18/18 16:45

Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.024		0.021	0.0091	mg/Kg	☼	10/19/18 17:43	10/29/18 00:12	1
Benzene	<0.00053		0.0021	0.00053	mg/Kg	☼	10/19/18 17:43	10/29/18 00:12	1
Bromodichloromethane	<0.00042		0.0021	0.00042	mg/Kg	☼	10/19/18 17:43	10/29/18 00:12	1
Bromoform	<0.00061		0.0021	0.00061	mg/Kg	☼	10/19/18 17:43	10/29/18 00:12	1
Bromomethane	<0.0020		0.0052	0.0020	mg/Kg	☼	10/19/18 17:43	10/29/18 00:12	1
2-Butanone (MEK)	0.019		0.0052	0.0023	mg/Kg	☼	10/19/18 17:43	10/29/18 00:12	1
Carbon disulfide	<0.0011		0.0052	0.0011	mg/Kg	☼	10/19/18 17:43	10/29/18 00:12	1
Carbon tetrachloride	<0.00060		0.0021	0.00060	mg/Kg	☼	10/19/18 17:43	10/29/18 00:12	1
Chlorobenzene	<0.00077		0.0021	0.00077	mg/Kg	☼	10/19/18 17:43	10/29/18 00:12	1
Chloroethane	<0.0015 *		0.0052	0.0015	mg/Kg	☼	10/19/18 17:43	10/29/18 00:12	1
Chloroform	<0.00072		0.0021	0.00072	mg/Kg	☼	10/19/18 17:43	10/29/18 00:12	1
Chloromethane	<0.0021		0.0052	0.0021	mg/Kg	☼	10/19/18 17:43	10/29/18 00:12	1
cis-1,2-Dichloroethene	<0.00058		0.0021	0.00058	mg/Kg	☼	10/19/18 17:43	10/29/18 00:12	1
cis-1,3-Dichloropropene	<0.00063		0.0021	0.00063	mg/Kg	☼	10/19/18 17:43	10/29/18 00:12	1
Dibromochloromethane	<0.00068		0.0021	0.00068	mg/Kg	☼	10/19/18 17:43	10/29/18 00:12	1
1,1-Dichloroethane	<0.00071		0.0021	0.00071	mg/Kg	☼	10/19/18 17:43	10/29/18 00:12	1
1,2-Dichloroethane	<0.0016		0.0052	0.0016	mg/Kg	☼	10/19/18 17:43	10/29/18 00:12	1
1,1-Dichloroethene	<0.00072		0.0021	0.00072	mg/Kg	☼	10/19/18 17:43	10/29/18 00:12	1
1,2-Dichloropropane	<0.00054		0.0021	0.00054	mg/Kg	☼	10/19/18 17:43	10/29/18 00:12	1
1,3-Dichloropropene, Total	<0.00073		0.0021	0.00073	mg/Kg	☼	10/19/18 17:43	10/29/18 00:12	1
Ethylbenzene	<0.0010		0.0021	0.0010	mg/Kg	☼	10/19/18 17:43	10/29/18 00:12	1
2-Hexanone	<0.0016		0.0052	0.0016	mg/Kg	☼	10/19/18 17:43	10/29/18 00:12	1
Methylene Chloride	<0.0020		0.0052	0.0020	mg/Kg	☼	10/19/18 17:43	10/29/18 00:12	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0052	0.0015	mg/Kg	☼	10/19/18 17:43	10/29/18 00:12	1
Methyl tert-butyl ether	<0.00061		0.0021	0.00061	mg/Kg	☼	10/19/18 17:43	10/29/18 00:12	1
Styrene	<0.00063		0.0021	0.00063	mg/Kg	☼	10/19/18 17:43	10/29/18 00:12	1
1,1,2,2-Tetrachloroethane	<0.00066		0.0021	0.00066	mg/Kg	☼	10/19/18 17:43	10/29/18 00:12	1
Tetrachloroethene	<0.00071		0.0021	0.00071	mg/Kg	☼	10/19/18 17:43	10/29/18 00:12	1
Toluene	<0.00053		0.0021	0.00053	mg/Kg	☼	10/19/18 17:43	10/29/18 00:12	1
trans-1,2-Dichloroethene	<0.00092		0.0021	0.00092	mg/Kg	☼	10/19/18 17:43	10/29/18 00:12	1
trans-1,3-Dichloropropene	<0.00073		0.0021	0.00073	mg/Kg	☼	10/19/18 17:43	10/29/18 00:12	1
1,1,1-Trichloroethane	<0.00070		0.0021	0.00070	mg/Kg	☼	10/19/18 17:43	10/29/18 00:12	1
1,1,2-Trichloroethane	<0.00089		0.0021	0.00089	mg/Kg	☼	10/19/18 17:43	10/29/18 00:12	1
Trichloroethene	<0.00070		0.0021	0.00070	mg/Kg	☼	10/19/18 17:43	10/29/18 00:12	1
Vinyl acetate	<0.0018		0.0052	0.0018	mg/Kg	☼	10/19/18 17:43	10/29/18 00:12	1
Vinyl chloride	<0.00092		0.0021	0.00092	mg/Kg	☼	10/19/18 17:43	10/29/18 00:12	1
Xylenes, Total	<0.00067		0.0042	0.00067	mg/Kg	☼	10/19/18 17:43	10/29/18 00:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		75 - 131	10/19/18 17:43	10/29/18 00:12	1
Dibromofluoromethane	100		75 - 126	10/19/18 17:43	10/29/18 00:12	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134	10/19/18 17:43	10/29/18 00:12	1
Toluene-d8 (Surr)	98		75 - 124	10/19/18 17:43	10/29/18 00:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0072		0.040	0.0072	mg/Kg	☼	10/25/18 07:13	10/28/18 15:14	1
Acenaphthylene	<0.0053		0.040	0.0053	mg/Kg	☼	10/25/18 07:13	10/28/18 15:14	1
Anthracene	<0.0067		0.040	0.0067	mg/Kg	☼	10/25/18 07:13	10/28/18 15:14	1
Benzo[a]anthracene	0.0076 J		0.040	0.0054	mg/Kg	☼	10/25/18 07:13	10/28/18 15:14	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B34 (0-5)

Lab Sample ID: 500-153433-3

Date Collected: 10/18/18 09:30

Matrix: Solid

Date Received: 10/18/18 16:45

Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.021	J	0.040	0.0078	mg/Kg	☼	10/25/18 07:13	10/28/18 15:14	1
Benzo[b]fluoranthene	0.0098	J	0.040	0.0086	mg/Kg	☼	10/25/18 07:13	10/28/18 15:14	1
Benzo[g,h,i]perylene	<0.013		0.040	0.013	mg/Kg	☼	10/25/18 07:13	10/28/18 15:14	1
Benzo[k]fluoranthene	<0.012		0.040	0.012	mg/Kg	☼	10/25/18 07:13	10/28/18 15:14	1
Bis(2-chloroethoxy)methane	<0.041		0.20	0.041	mg/Kg	☼	10/25/18 07:13	10/28/18 15:14	1
Bis(2-chloroethyl)ether	<0.060		0.20	0.060	mg/Kg	☼	10/25/18 07:13	10/28/18 15:14	1
Bis(2-ethylhexyl) phthalate	<0.073		0.20	0.073	mg/Kg	☼	10/25/18 07:13	10/28/18 15:14	1
4-Bromophenyl phenyl ether	<0.053		0.20	0.053	mg/Kg	☼	10/25/18 07:13	10/28/18 15:14	1
Butyl benzyl phthalate	<0.076		0.20	0.076	mg/Kg	☼	10/25/18 07:13	10/28/18 15:14	1
Carbazole	<0.10		0.20	0.10	mg/Kg	☼	10/25/18 07:13	10/28/18 15:14	1
4-Chloroaniline	<0.19		0.81	0.19	mg/Kg	☼	10/25/18 07:13	10/28/18 15:14	1
4-Chloro-3-methylphenol	<0.14		0.40	0.14	mg/Kg	☼	10/25/18 07:13	10/28/18 15:14	1
2-Chloronaphthalene	<0.044		0.20	0.044	mg/Kg	☼	10/25/18 07:13	10/28/18 15:14	1
2-Chlorophenol	<0.068		0.20	0.068	mg/Kg	☼	10/25/18 07:13	10/28/18 15:14	1
4-Chlorophenyl phenyl ether	<0.047		0.20	0.047	mg/Kg	☼	10/25/18 07:13	10/28/18 15:14	1
Chrysene	<0.011		0.040	0.011	mg/Kg	☼	10/25/18 07:13	10/28/18 15:14	1
Dibenz(a,h)anthracene	<0.0077		0.040	0.0077	mg/Kg	☼	10/25/18 07:13	10/28/18 15:14	1
Dibenzofuran	<0.047		0.20	0.047	mg/Kg	☼	10/25/18 07:13	10/28/18 15:14	1
1,2-Dichlorobenzene	<0.048		0.20	0.048	mg/Kg	☼	10/25/18 07:13	10/28/18 15:14	1
1,3-Dichlorobenzene	<0.045		0.20	0.045	mg/Kg	☼	10/25/18 07:13	10/28/18 15:14	1
1,4-Dichlorobenzene	<0.051		0.20	0.051	mg/Kg	☼	10/25/18 07:13	10/28/18 15:14	1
3,3'-Dichlorobenzidine	<0.056		0.20	0.056	mg/Kg	☼	10/25/18 07:13	10/28/18 15:14	1
2,4-Dichlorophenol	<0.095		0.40	0.095	mg/Kg	☼	10/25/18 07:13	10/28/18 15:14	1
Diethyl phthalate	<0.068		0.20	0.068	mg/Kg	☼	10/25/18 07:13	10/28/18 15:14	1
2,4-Dimethylphenol	<0.15		0.40	0.15	mg/Kg	☼	10/25/18 07:13	10/28/18 15:14	1
Dimethyl phthalate	<0.052		0.20	0.052	mg/Kg	☼	10/25/18 07:13	10/28/18 15:14	1
Di-n-butyl phthalate	<0.061		0.20	0.061	mg/Kg	☼	10/25/18 07:13	10/28/18 15:14	1
4,6-Dinitro-2-methylphenol	<0.32		0.81	0.32	mg/Kg	☼	10/25/18 07:13	10/28/18 15:14	1
2,4-Dinitrophenol	<0.71		0.81	0.71	mg/Kg	☼	10/25/18 07:13	10/28/18 15:14	1
2,4-Dinitrotoluene	<0.064		0.20	0.064	mg/Kg	☼	10/25/18 07:13	10/28/18 15:14	1
2,6-Dinitrotoluene	<0.079		0.20	0.079	mg/Kg	☼	10/25/18 07:13	10/28/18 15:14	1
Di-n-octyl phthalate	<0.065		0.20	0.065	mg/Kg	☼	10/25/18 07:13	10/28/18 15:14	1
Fluoranthene	0.017	J	0.040	0.0074	mg/Kg	☼	10/25/18 07:13	10/28/18 15:14	1
Fluorene	<0.0056		0.040	0.0056	mg/Kg	☼	10/25/18 07:13	10/28/18 15:14	1
Hexachlorobenzene	<0.0093		0.081	0.0093	mg/Kg	☼	10/25/18 07:13	10/28/18 15:14	1
Hexachlorobutadiene	<0.063		0.20	0.063	mg/Kg	☼	10/25/18 07:13	10/28/18 15:14	1
Hexachlorocyclopentadiene	<0.23		0.81	0.23	mg/Kg	☼	10/25/18 07:13	10/28/18 15:14	1
Hexachloroethane	<0.061		0.20	0.061	mg/Kg	☼	10/25/18 07:13	10/28/18 15:14	1
Indeno[1,2,3-cd]pyrene	<0.010		0.040	0.010	mg/Kg	☼	10/25/18 07:13	10/28/18 15:14	1
Isophorone	<0.045		0.20	0.045	mg/Kg	☼	10/25/18 07:13	10/28/18 15:14	1
2-Methylnaphthalene	<0.0074		0.081	0.0074	mg/Kg	☼	10/25/18 07:13	10/28/18 15:14	1
2-Methylphenol	<0.064		0.20	0.064	mg/Kg	☼	10/25/18 07:13	10/28/18 15:14	1
3 & 4 Methylphenol	<0.067		0.20	0.067	mg/Kg	☼	10/25/18 07:13	10/28/18 15:14	1
Naphthalene	<0.0062		0.040	0.0062	mg/Kg	☼	10/25/18 07:13	10/28/18 15:14	1
2-Nitroaniline	<0.054		0.20	0.054	mg/Kg	☼	10/25/18 07:13	10/28/18 15:14	1
3-Nitroaniline	<0.12		0.40	0.12	mg/Kg	☼	10/25/18 07:13	10/28/18 15:14	1
4-Nitroaniline	<0.17		0.40	0.17	mg/Kg	☼	10/25/18 07:13	10/28/18 15:14	1
Nitrobenzene	<0.010		0.040	0.010	mg/Kg	☼	10/25/18 07:13	10/28/18 15:14	1
2-Nitrophenol	<0.095		0.40	0.095	mg/Kg	☼	10/25/18 07:13	10/28/18 15:14	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B34 (0-5)

Lab Sample ID: 500-153433-3

Date Collected: 10/18/18 09:30

Matrix: Solid

Date Received: 10/18/18 16:45

Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.38		0.81	0.38	mg/Kg	☼	10/25/18 07:13	10/28/18 15:14	1
N-Nitrosodi-n-propylamine	<0.049		0.081	0.049	mg/Kg	☼	10/25/18 07:13	10/28/18 15:14	1
N-Nitrosodiphenylamine	<0.047		0.20	0.047	mg/Kg	☼	10/25/18 07:13	10/28/18 15:14	1
2,2'-oxybis[1-chloropropane]	<0.046		0.20	0.046	mg/Kg	☼	10/25/18 07:13	10/28/18 15:14	1
Pentachlorophenol	<0.64		0.81	0.64	mg/Kg	☼	10/25/18 07:13	10/28/18 15:14	1
Phenanthrene	0.0095	J	0.040	0.0056	mg/Kg	☼	10/25/18 07:13	10/28/18 15:14	1
Phenol	<0.089		0.20	0.089	mg/Kg	☼	10/25/18 07:13	10/28/18 15:14	1
Pyrene	0.014	J	0.040	0.0080	mg/Kg	☼	10/25/18 07:13	10/28/18 15:14	1
1,2,4-Trichlorobenzene	<0.043		0.20	0.043	mg/Kg	☼	10/25/18 07:13	10/28/18 15:14	1
2,4,5-Trichlorophenol	<0.091		0.40	0.091	mg/Kg	☼	10/25/18 07:13	10/28/18 15:14	1
2,4,6-Trichlorophenol	<0.14		0.40	0.14	mg/Kg	☼	10/25/18 07:13	10/28/18 15:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	97		43 - 145	10/25/18 07:13	10/28/18 15:14	1
2-Fluorophenol	144		31 - 166	10/25/18 07:13	10/28/18 15:14	1
Nitrobenzene-d5	94		37 - 147	10/25/18 07:13	10/28/18 15:14	1
Phenol-d5	136		30 - 153	10/25/18 07:13	10/28/18 15:14	1
Terphenyl-d14	122		42 - 157	10/25/18 07:13	10/28/18 15:14	1
2,4,6-Tribromophenol	66		31 - 143	10/25/18 07:13	10/28/18 15:14	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.24		1.2	0.24	mg/Kg	☼	10/24/18 17:02	10/25/18 17:57	1
Arsenic	9.6		0.60	0.21	mg/Kg	☼	10/24/18 17:02	10/25/18 17:57	1
Barium	100		0.60	0.069	mg/Kg	☼	10/24/18 17:02	10/25/18 17:57	1
Beryllium	0.80		0.24	0.056	mg/Kg	☼	10/24/18 17:02	10/25/18 17:57	1
Cadmium	0.083	J B	0.12	0.022	mg/Kg	☼	10/24/18 17:02	10/25/18 17:57	1
Chromium	20	B	0.60	0.30	mg/Kg	☼	10/24/18 17:02	10/25/18 17:57	1
Cobalt	14		0.30	0.079	mg/Kg	☼	10/24/18 17:02	10/25/18 17:57	1
Copper	19	B	0.60	0.17	mg/Kg	☼	10/24/18 17:02	10/25/18 17:57	1
Iron	23000	B	12	6.3	mg/Kg	☼	10/24/18 17:02	10/25/18 17:57	1
Lead	19		0.30	0.14	mg/Kg	☼	10/24/18 17:02	10/25/18 17:57	1
Magnesium	3900		6.0	3.0	mg/Kg	☼	10/24/18 17:02	10/25/18 17:57	1
Calcium	2000	B	12	2.0	mg/Kg	☼	10/24/18 17:02	10/25/18 17:57	1
Manganese	550	B	0.60	0.088	mg/Kg	☼	10/24/18 17:02	10/25/18 17:57	1
Nickel	30		0.60	0.18	mg/Kg	☼	10/24/18 17:02	10/25/18 17:57	1
Selenium	0.53	J	0.60	0.36	mg/Kg	☼	10/24/18 17:02	10/25/18 17:57	1
Silver	0.31		0.30	0.078	mg/Kg	☼	10/24/18 17:02	10/25/18 17:57	1
Thallium	<0.30		0.60	0.30	mg/Kg	☼	10/24/18 17:02	10/25/18 17:57	1
Vanadium	35		0.30	0.071	mg/Kg	☼	10/24/18 17:02	10/25/18 17:57	1
Zinc	66		1.2	0.53	mg/Kg	☼	10/24/18 17:02	10/25/18 17:57	1
Potassium	1700		30	11	mg/Kg	☼	10/24/18 17:02	10/25/18 17:57	1
Sodium	180		60	8.9	mg/Kg	☼	10/24/18 17:02	10/25/18 17:57	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		10/25/18 15:16	10/26/18 12:33	1
Barium	0.44	J	0.50	0.050	mg/L		10/25/18 15:16	10/26/18 12:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/25/18 15:16	10/26/18 12:33	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		10/25/18 15:16	10/26/18 12:33	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B34 (0-5)

Lab Sample ID: 500-153433-3

Date Collected: 10/18/18 09:30

Matrix: Solid

Date Received: 10/18/18 16:45

Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	49		5.0	0.50	mg/L		10/25/18 15:16	10/26/18 12:33	1
Chromium	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:33	1
Cobalt	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:33	1
Copper	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:33	1
Iron	<0.20		0.40	0.20	mg/L		10/25/18 15:16	10/26/18 12:33	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/25/18 15:16	10/26/18 12:33	1
Magnesium	22		2.5	0.50	mg/L		10/25/18 15:16	10/26/18 12:33	1
Manganese	0.023	J	0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:33	1
Nickel	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:33	1
Potassium	0.64	J	2.5	0.50	mg/L		10/25/18 15:16	10/26/18 12:33	1
Selenium	<0.020		0.050	0.020	mg/L		10/25/18 15:16	10/26/18 12:33	1
Silver	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:33	1
Vanadium	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:33	1
Zinc	0.17	J	0.50	0.020	mg/L		10/25/18 15:16	10/26/18 12:33	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		10/25/18 15:16	10/26/18 12:48	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/25/18 15:16	10/26/18 12:48	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		10/25/18 12:40	10/26/18 09:39	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034		0.020	0.0065	mg/Kg	☼	10/24/18 16:40	10/25/18 09:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.21		0.60	0.21	mg/Kg	☼	10/29/18 10:50	10/29/18 15:40	1
pH	7.6		0.2	0.2	SU			10/25/18 14:39	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B33 (0-5)

Lab Sample ID: 500-153433-4

Date Collected: 10/18/18 09:50

Matrix: Solid

Date Received: 10/18/18 16:45

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0088		0.020	0.0088	mg/Kg	☼	10/19/18 17:43	10/29/18 00:47	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg	☼	10/19/18 17:43	10/29/18 00:47	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg	☼	10/19/18 17:43	10/29/18 00:47	1
Bromoform	<0.00059		0.0020	0.00059	mg/Kg	☼	10/19/18 17:43	10/29/18 00:47	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg	☼	10/19/18 17:43	10/29/18 00:47	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg	☼	10/19/18 17:43	10/29/18 00:47	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg	☼	10/19/18 17:43	10/29/18 00:47	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg	☼	10/19/18 17:43	10/29/18 00:47	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg	☼	10/19/18 17:43	10/29/18 00:47	1
Chloroethane	<0.0015	*	0.0050	0.0015	mg/Kg	☼	10/19/18 17:43	10/29/18 00:47	1
Chloroform	<0.00070		0.0020	0.00070	mg/Kg	☼	10/19/18 17:43	10/29/18 00:47	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg	☼	10/19/18 17:43	10/29/18 00:47	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg	☼	10/19/18 17:43	10/29/18 00:47	1
cis-1,3-Dichloropropene	<0.00061		0.0020	0.00061	mg/Kg	☼	10/19/18 17:43	10/29/18 00:47	1
Dibromochloromethane	<0.00066		0.0020	0.00066	mg/Kg	☼	10/19/18 17:43	10/29/18 00:47	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg	☼	10/19/18 17:43	10/29/18 00:47	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg	☼	10/19/18 17:43	10/29/18 00:47	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg	☼	10/19/18 17:43	10/29/18 00:47	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg	☼	10/19/18 17:43	10/29/18 00:47	1
1,3-Dichloropropene, Total	<0.00071		0.0020	0.00071	mg/Kg	☼	10/19/18 17:43	10/29/18 00:47	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg	☼	10/19/18 17:43	10/29/18 00:47	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg	☼	10/19/18 17:43	10/29/18 00:47	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg	☼	10/19/18 17:43	10/29/18 00:47	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg	☼	10/19/18 17:43	10/29/18 00:47	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg	☼	10/19/18 17:43	10/29/18 00:47	1
Styrene	<0.00061		0.0020	0.00061	mg/Kg	☼	10/19/18 17:43	10/29/18 00:47	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg	☼	10/19/18 17:43	10/29/18 00:47	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg	☼	10/19/18 17:43	10/29/18 00:47	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg	☼	10/19/18 17:43	10/29/18 00:47	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg	☼	10/19/18 17:43	10/29/18 00:47	1
trans-1,3-Dichloropropene	<0.00071		0.0020	0.00071	mg/Kg	☼	10/19/18 17:43	10/29/18 00:47	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg	☼	10/19/18 17:43	10/29/18 00:47	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg	☼	10/19/18 17:43	10/29/18 00:47	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg	☼	10/19/18 17:43	10/29/18 00:47	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg	☼	10/19/18 17:43	10/29/18 00:47	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg	☼	10/19/18 17:43	10/29/18 00:47	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg	☼	10/19/18 17:43	10/29/18 00:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		75 - 131	10/19/18 17:43	10/29/18 00:47	1
Dibromofluoromethane	101		75 - 126	10/19/18 17:43	10/29/18 00:47	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134	10/19/18 17:43	10/29/18 00:47	1
Toluene-d8 (Surr)	98		75 - 124	10/19/18 17:43	10/29/18 00:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0070		0.039	0.0070	mg/Kg	☼	10/25/18 07:13	10/28/18 15:41	1
Acenaphthylene	<0.0052		0.039	0.0052	mg/Kg	☼	10/25/18 07:13	10/28/18 15:41	1
Anthracene	<0.0065		0.039	0.0065	mg/Kg	☼	10/25/18 07:13	10/28/18 15:41	1
Benzo[a]anthracene	0.013	J	0.039	0.0053	mg/Kg	☼	10/25/18 07:13	10/28/18 15:41	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B33 (0-5)

Lab Sample ID: 500-153433-4

Date Collected: 10/18/18 09:50

Matrix: Solid

Date Received: 10/18/18 16:45

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.024	J	0.039	0.0076	mg/Kg	☼	10/25/18 07:13	10/28/18 15:41	1
Benzo[b]fluoranthene	0.018	J	0.039	0.0084	mg/Kg	☼	10/25/18 07:13	10/28/18 15:41	1
Benzo[g,h,i]perylene	<0.013		0.039	0.013	mg/Kg	☼	10/25/18 07:13	10/28/18 15:41	1
Benzo[k]fluoranthene	<0.012		0.039	0.012	mg/Kg	☼	10/25/18 07:13	10/28/18 15:41	1
Bis(2-chloroethoxy)methane	<0.040		0.20	0.040	mg/Kg	☼	10/25/18 07:13	10/28/18 15:41	1
Bis(2-chloroethyl)ether	<0.059		0.20	0.059	mg/Kg	☼	10/25/18 07:13	10/28/18 15:41	1
Bis(2-ethylhexyl) phthalate	<0.071		0.20	0.071	mg/Kg	☼	10/25/18 07:13	10/28/18 15:41	1
4-Bromophenyl phenyl ether	<0.052		0.20	0.052	mg/Kg	☼	10/25/18 07:13	10/28/18 15:41	1
Butyl benzyl phthalate	<0.074		0.20	0.074	mg/Kg	☼	10/25/18 07:13	10/28/18 15:41	1
Carbazole	<0.098		0.20	0.098	mg/Kg	☼	10/25/18 07:13	10/28/18 15:41	1
4-Chloroaniline	<0.18		0.79	0.18	mg/Kg	☼	10/25/18 07:13	10/28/18 15:41	1
4-Chloro-3-methylphenol	<0.13		0.39	0.13	mg/Kg	☼	10/25/18 07:13	10/28/18 15:41	1
2-Chloronaphthalene	<0.043		0.20	0.043	mg/Kg	☼	10/25/18 07:13	10/28/18 15:41	1
2-Chlorophenol	<0.067		0.20	0.067	mg/Kg	☼	10/25/18 07:13	10/28/18 15:41	1
4-Chlorophenyl phenyl ether	<0.046		0.20	0.046	mg/Kg	☼	10/25/18 07:13	10/28/18 15:41	1
Chrysene	0.015	J	0.039	0.011	mg/Kg	☼	10/25/18 07:13	10/28/18 15:41	1
Dibenz(a,h)anthracene	<0.0076		0.039	0.0076	mg/Kg	☼	10/25/18 07:13	10/28/18 15:41	1
Dibenzofuran	<0.046		0.20	0.046	mg/Kg	☼	10/25/18 07:13	10/28/18 15:41	1
1,2-Dichlorobenzene	<0.047		0.20	0.047	mg/Kg	☼	10/25/18 07:13	10/28/18 15:41	1
1,3-Dichlorobenzene	<0.044		0.20	0.044	mg/Kg	☼	10/25/18 07:13	10/28/18 15:41	1
1,4-Dichlorobenzene	<0.050		0.20	0.050	mg/Kg	☼	10/25/18 07:13	10/28/18 15:41	1
3,3'-Dichlorobenzidine	<0.055		0.20	0.055	mg/Kg	☼	10/25/18 07:13	10/28/18 15:41	1
2,4-Dichlorophenol	<0.093		0.39	0.093	mg/Kg	☼	10/25/18 07:13	10/28/18 15:41	1
Diethyl phthalate	<0.066		0.20	0.066	mg/Kg	☼	10/25/18 07:13	10/28/18 15:41	1
2,4-Dimethylphenol	<0.15		0.39	0.15	mg/Kg	☼	10/25/18 07:13	10/28/18 15:41	1
Dimethyl phthalate	<0.051		0.20	0.051	mg/Kg	☼	10/25/18 07:13	10/28/18 15:41	1
Di-n-butyl phthalate	<0.060		0.20	0.060	mg/Kg	☼	10/25/18 07:13	10/28/18 15:41	1
4,6-Dinitro-2-methylphenol	<0.31		0.79	0.31	mg/Kg	☼	10/25/18 07:13	10/28/18 15:41	1
2,4-Dinitrophenol	<0.69		0.79	0.69	mg/Kg	☼	10/25/18 07:13	10/28/18 15:41	1
2,4-Dinitrotoluene	<0.062		0.20	0.062	mg/Kg	☼	10/25/18 07:13	10/28/18 15:41	1
2,6-Dinitrotoluene	<0.077		0.20	0.077	mg/Kg	☼	10/25/18 07:13	10/28/18 15:41	1
Di-n-octyl phthalate	<0.064		0.20	0.064	mg/Kg	☼	10/25/18 07:13	10/28/18 15:41	1
Fluoranthene	0.028	J	0.039	0.0073	mg/Kg	☼	10/25/18 07:13	10/28/18 15:41	1
Fluorene	<0.0055		0.039	0.0055	mg/Kg	☼	10/25/18 07:13	10/28/18 15:41	1
Hexachlorobenzene	<0.0091		0.079	0.0091	mg/Kg	☼	10/25/18 07:13	10/28/18 15:41	1
Hexachlorobutadiene	<0.061		0.20	0.061	mg/Kg	☼	10/25/18 07:13	10/28/18 15:41	1
Hexachlorocyclopentadiene	<0.22		0.79	0.22	mg/Kg	☼	10/25/18 07:13	10/28/18 15:41	1
Hexachloroethane	<0.059		0.20	0.059	mg/Kg	☼	10/25/18 07:13	10/28/18 15:41	1
Indeno[1,2,3-cd]pyrene	0.023	J	0.039	0.010	mg/Kg	☼	10/25/18 07:13	10/28/18 15:41	1
Isophorone	<0.044		0.20	0.044	mg/Kg	☼	10/25/18 07:13	10/28/18 15:41	1
2-Methylnaphthalene	<0.0072		0.079	0.0072	mg/Kg	☼	10/25/18 07:13	10/28/18 15:41	1
2-Methylphenol	<0.063		0.20	0.063	mg/Kg	☼	10/25/18 07:13	10/28/18 15:41	1
3 & 4 Methylphenol	<0.065		0.20	0.065	mg/Kg	☼	10/25/18 07:13	10/28/18 15:41	1
Naphthalene	<0.0060		0.039	0.0060	mg/Kg	☼	10/25/18 07:13	10/28/18 15:41	1
2-Nitroaniline	<0.053		0.20	0.053	mg/Kg	☼	10/25/18 07:13	10/28/18 15:41	1
3-Nitroaniline	<0.12		0.39	0.12	mg/Kg	☼	10/25/18 07:13	10/28/18 15:41	1
4-Nitroaniline	<0.16		0.39	0.16	mg/Kg	☼	10/25/18 07:13	10/28/18 15:41	1
Nitrobenzene	<0.0098		0.039	0.0098	mg/Kg	☼	10/25/18 07:13	10/28/18 15:41	1
2-Nitrophenol	<0.092		0.39	0.092	mg/Kg	☼	10/25/18 07:13	10/28/18 15:41	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B33 (0-5)

Lab Sample ID: 500-153433-4

Date Collected: 10/18/18 09:50

Matrix: Solid

Date Received: 10/18/18 16:45

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.37		0.79	0.37	mg/Kg	☼	10/25/18 07:13	10/28/18 15:41	1
N-Nitrosodi-n-propylamine	<0.048		0.079	0.048	mg/Kg	☼	10/25/18 07:13	10/28/18 15:41	1
N-Nitrosodiphenylamine	<0.046		0.20	0.046	mg/Kg	☼	10/25/18 07:13	10/28/18 15:41	1
2,2'-oxybis[1-chloropropane]	<0.045		0.20	0.045	mg/Kg	☼	10/25/18 07:13	10/28/18 15:41	1
Pentachlorophenol	<0.63		0.79	0.63	mg/Kg	☼	10/25/18 07:13	10/28/18 15:41	1
Phenanthrene	0.018	J	0.039	0.0055	mg/Kg	☼	10/25/18 07:13	10/28/18 15:41	1
Phenol	<0.087		0.20	0.087	mg/Kg	☼	10/25/18 07:13	10/28/18 15:41	1
Pyrene	0.024	J	0.039	0.0078	mg/Kg	☼	10/25/18 07:13	10/28/18 15:41	1
1,2,4-Trichlorobenzene	<0.042		0.20	0.042	mg/Kg	☼	10/25/18 07:13	10/28/18 15:41	1
2,4,5-Trichlorophenol	<0.089		0.39	0.089	mg/Kg	☼	10/25/18 07:13	10/28/18 15:41	1
2,4,6-Trichlorophenol	<0.13		0.39	0.13	mg/Kg	☼	10/25/18 07:13	10/28/18 15:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	95		43 - 145	10/25/18 07:13	10/28/18 15:41	1
2-Fluorophenol	136		31 - 166	10/25/18 07:13	10/28/18 15:41	1
Nitrobenzene-d5	93		37 - 147	10/25/18 07:13	10/28/18 15:41	1
Phenol-d5	126		30 - 153	10/25/18 07:13	10/28/18 15:41	1
Terphenyl-d14	110		42 - 157	10/25/18 07:13	10/28/18 15:41	1
2,4,6-Tribromophenol	67		31 - 143	10/25/18 07:13	10/28/18 15:41	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.31	J	1.1	0.22	mg/Kg	☼	10/24/18 17:02	10/25/18 18:01	1
Arsenic	8.5		0.56	0.19	mg/Kg	☼	10/24/18 17:02	10/25/18 18:01	1
Barium	89		0.56	0.064	mg/Kg	☼	10/24/18 17:02	10/25/18 18:01	1
Beryllium	0.73		0.22	0.052	mg/Kg	☼	10/24/18 17:02	10/25/18 18:01	1
Cadmium	0.12	B	0.11	0.020	mg/Kg	☼	10/24/18 17:02	10/25/18 18:01	1
Chromium	17	B	0.56	0.28	mg/Kg	☼	10/24/18 17:02	10/25/18 18:01	1
Cobalt	12		0.28	0.073	mg/Kg	☼	10/24/18 17:02	10/25/18 18:01	1
Copper	18	B	0.56	0.16	mg/Kg	☼	10/24/18 17:02	10/25/18 18:01	1
Iron	19000	B	11	5.8	mg/Kg	☼	10/24/18 17:02	10/25/18 18:01	1
Lead	30		0.28	0.13	mg/Kg	☼	10/24/18 17:02	10/25/18 18:01	1
Magnesium	3700		5.6	2.8	mg/Kg	☼	10/24/18 17:02	10/25/18 18:01	1
Calcium	3000	B	11	1.9	mg/Kg	☼	10/24/18 17:02	10/25/18 18:01	1
Manganese	560	B	0.56	0.081	mg/Kg	☼	10/24/18 17:02	10/25/18 18:01	1
Nickel	28		0.56	0.16	mg/Kg	☼	10/24/18 17:02	10/25/18 18:01	1
Selenium	0.44	J	0.56	0.33	mg/Kg	☼	10/24/18 17:02	10/25/18 18:01	1
Silver	0.36		0.28	0.072	mg/Kg	☼	10/24/18 17:02	10/25/18 18:01	1
Thallium	<0.28		0.56	0.28	mg/Kg	☼	10/24/18 17:02	10/25/18 18:01	1
Vanadium	29		0.28	0.066	mg/Kg	☼	10/24/18 17:02	10/25/18 18:01	1
Zinc	73		1.1	0.49	mg/Kg	☼	10/24/18 17:02	10/25/18 18:01	1
Potassium	1600		28	9.9	mg/Kg	☼	10/24/18 17:02	10/25/18 18:01	1
Sodium	160		56	8.3	mg/Kg	☼	10/24/18 17:02	10/25/18 18:01	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		10/25/18 15:16	10/26/18 12:37	1
Barium	0.49	J	0.50	0.050	mg/L		10/25/18 15:16	10/26/18 12:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/25/18 15:16	10/26/18 12:37	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		10/25/18 15:16	10/26/18 12:37	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B33 (0-5)

Lab Sample ID: 500-153433-4

Date Collected: 10/18/18 09:50

Matrix: Solid

Date Received: 10/18/18 16:45

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	100		5.0	0.50	mg/L		10/25/18 15:16	10/26/18 12:37	1
Chromium	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:37	1
Cobalt	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:37	1
Copper	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:37	1
Iron	<0.20		0.40	0.20	mg/L		10/25/18 15:16	10/26/18 12:37	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/25/18 15:16	10/26/18 12:37	1
Magnesium	48		2.5	0.50	mg/L		10/25/18 15:16	10/26/18 12:37	1
Manganese	0.074		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:37	1
Nickel	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:37	1
Potassium	1.5 J		2.5	0.50	mg/L		10/25/18 15:16	10/26/18 12:37	1
Selenium	<0.020		0.050	0.020	mg/L		10/25/18 15:16	10/26/18 12:37	1
Silver	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:37	1
Vanadium	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:37	1
Zinc	0.036 J		0.50	0.020	mg/L		10/25/18 15:16	10/26/18 12:37	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		10/25/18 15:16	10/26/18 13:26	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/25/18 15:16	10/26/18 13:26	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		10/25/18 12:40	10/26/18 09:41	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.042		0.019	0.0064	mg/Kg	☼	10/24/18 16:40	10/25/18 09:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.20		0.57	0.20	mg/Kg	☼	10/29/18 10:50	10/29/18 15:40	1
pH	7.6		0.2	0.2	SU			10/25/18 14:43	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B32 (0-5)

Lab Sample ID: 500-153433-5

Date Collected: 10/18/18 10:20

Matrix: Solid

Date Received: 10/18/18 16:45

Percent Solids: 81.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0096		0.022	0.0096	mg/Kg	☼	10/19/18 17:43	10/29/18 01:12	1
Benzene	<0.00056		0.0022	0.00056	mg/Kg	☼	10/19/18 17:43	10/29/18 01:12	1
Bromodichloromethane	<0.00045		0.0022	0.00045	mg/Kg	☼	10/19/18 17:43	10/29/18 01:12	1
Bromoform	<0.00064		0.0022	0.00064	mg/Kg	☼	10/19/18 17:43	10/29/18 01:12	1
Bromomethane	<0.0021		0.0055	0.0021	mg/Kg	☼	10/19/18 17:43	10/29/18 01:12	1
2-Butanone (MEK)	<0.0024		0.0055	0.0024	mg/Kg	☼	10/19/18 17:43	10/29/18 01:12	1
Carbon disulfide	<0.0011		0.0055	0.0011	mg/Kg	☼	10/19/18 17:43	10/29/18 01:12	1
Carbon tetrachloride	<0.00064		0.0022	0.00064	mg/Kg	☼	10/19/18 17:43	10/29/18 01:12	1
Chlorobenzene	<0.00081		0.0022	0.00081	mg/Kg	☼	10/19/18 17:43	10/29/18 01:12	1
Chloroethane	<0.0016	*	0.0055	0.0016	mg/Kg	☼	10/19/18 17:43	10/29/18 01:12	1
Chloroform	<0.00076		0.0022	0.00076	mg/Kg	☼	10/19/18 17:43	10/29/18 01:12	1
Chloromethane	<0.0022		0.0055	0.0022	mg/Kg	☼	10/19/18 17:43	10/29/18 01:12	1
cis-1,2-Dichloroethene	<0.00062		0.0022	0.00062	mg/Kg	☼	10/19/18 17:43	10/29/18 01:12	1
cis-1,3-Dichloropropene	<0.00066		0.0022	0.00066	mg/Kg	☼	10/19/18 17:43	10/29/18 01:12	1
Dibromochloromethane	<0.00072		0.0022	0.00072	mg/Kg	☼	10/19/18 17:43	10/29/18 01:12	1
1,1-Dichloroethane	<0.00075		0.0022	0.00075	mg/Kg	☼	10/19/18 17:43	10/29/18 01:12	1
1,2-Dichloroethane	<0.0017		0.0055	0.0017	mg/Kg	☼	10/19/18 17:43	10/29/18 01:12	1
1,1-Dichloroethene	<0.00076		0.0022	0.00076	mg/Kg	☼	10/19/18 17:43	10/29/18 01:12	1
1,2-Dichloropropane	<0.00057		0.0022	0.00057	mg/Kg	☼	10/19/18 17:43	10/29/18 01:12	1
1,3-Dichloropropene, Total	<0.00077		0.0022	0.00077	mg/Kg	☼	10/19/18 17:43	10/29/18 01:12	1
Ethylbenzene	<0.0011		0.0022	0.0011	mg/Kg	☼	10/19/18 17:43	10/29/18 01:12	1
2-Hexanone	<0.0017		0.0055	0.0017	mg/Kg	☼	10/19/18 17:43	10/29/18 01:12	1
Methylene Chloride	<0.0022		0.0055	0.0022	mg/Kg	☼	10/19/18 17:43	10/29/18 01:12	1
4-Methyl-2-pentanone (MIBK)	<0.0016		0.0055	0.0016	mg/Kg	☼	10/19/18 17:43	10/29/18 01:12	1
Methyl tert-butyl ether	<0.00065		0.0022	0.00065	mg/Kg	☼	10/19/18 17:43	10/29/18 01:12	1
Styrene	<0.00067		0.0022	0.00067	mg/Kg	☼	10/19/18 17:43	10/29/18 01:12	1
1,1,2,2-Tetrachloroethane	<0.00070		0.0022	0.00070	mg/Kg	☼	10/19/18 17:43	10/29/18 01:12	1
Tetrachloroethene	<0.00075		0.0022	0.00075	mg/Kg	☼	10/19/18 17:43	10/29/18 01:12	1
Toluene	<0.00056		0.0022	0.00056	mg/Kg	☼	10/19/18 17:43	10/29/18 01:12	1
trans-1,2-Dichloroethene	<0.00098		0.0022	0.00098	mg/Kg	☼	10/19/18 17:43	10/29/18 01:12	1
trans-1,3-Dichloropropene	<0.00077		0.0022	0.00077	mg/Kg	☼	10/19/18 17:43	10/29/18 01:12	1
1,1,1-Trichloroethane	<0.00074		0.0022	0.00074	mg/Kg	☼	10/19/18 17:43	10/29/18 01:12	1
1,1,2-Trichloroethane	<0.00095		0.0022	0.00095	mg/Kg	☼	10/19/18 17:43	10/29/18 01:12	1
Trichloroethene	<0.00074		0.0022	0.00074	mg/Kg	☼	10/19/18 17:43	10/29/18 01:12	1
Vinyl acetate	<0.0019		0.0055	0.0019	mg/Kg	☼	10/19/18 17:43	10/29/18 01:12	1
Vinyl chloride	<0.00098		0.0022	0.00098	mg/Kg	☼	10/19/18 17:43	10/29/18 01:12	1
Xylenes, Total	<0.00071		0.0044	0.00071	mg/Kg	☼	10/19/18 17:43	10/29/18 01:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		75 - 131	10/19/18 17:43	10/29/18 01:12	1
Dibromofluoromethane	103		75 - 126	10/19/18 17:43	10/29/18 01:12	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134	10/19/18 17:43	10/29/18 01:12	1
Toluene-d8 (Surr)	98		75 - 124	10/19/18 17:43	10/29/18 01:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0072		0.040	0.0072	mg/Kg	☼	10/25/18 07:13	10/28/18 16:08	1
Acenaphthylene	<0.0053		0.040	0.0053	mg/Kg	☼	10/25/18 07:13	10/28/18 16:08	1
Anthracene	<0.0067		0.040	0.0067	mg/Kg	☼	10/25/18 07:13	10/28/18 16:08	1
Benzo[a]anthracene	0.0079	J	0.040	0.0054	mg/Kg	☼	10/25/18 07:13	10/28/18 16:08	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B32 (0-5)

Lab Sample ID: 500-153433-5

Date Collected: 10/18/18 10:20

Matrix: Solid

Date Received: 10/18/18 16:45

Percent Solids: 81.9

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	0.040	0.0077	mg/Kg	☼	10/25/18 07:13	10/28/18 16:08	1
Benzo[b]fluoranthene	0.0098	J	0.040	0.0086	mg/Kg	☼	10/25/18 07:13	10/28/18 16:08	1
Benzo[g,h,i]perylene	<0.013		0.040	0.013	mg/Kg	☼	10/25/18 07:13	10/28/18 16:08	1
Benzo[k]fluoranthene	<0.012		0.040	0.012	mg/Kg	☼	10/25/18 07:13	10/28/18 16:08	1
Bis(2-chloroethoxy)methane	<0.041		0.20	0.041	mg/Kg	☼	10/25/18 07:13	10/28/18 16:08	1
Bis(2-chloroethyl)ether	<0.060		0.20	0.060	mg/Kg	☼	10/25/18 07:13	10/28/18 16:08	1
Bis(2-ethylhexyl) phthalate	<0.073		0.20	0.073	mg/Kg	☼	10/25/18 07:13	10/28/18 16:08	1
4-Bromophenyl phenyl ether	<0.053		0.20	0.053	mg/Kg	☼	10/25/18 07:13	10/28/18 16:08	1
Butyl benzyl phthalate	<0.076		0.20	0.076	mg/Kg	☼	10/25/18 07:13	10/28/18 16:08	1
Carbazole	<0.10		0.20	0.10	mg/Kg	☼	10/25/18 07:13	10/28/18 16:08	1
4-Chloroaniline	<0.19		0.80	0.19	mg/Kg	☼	10/25/18 07:13	10/28/18 16:08	1
4-Chloro-3-methylphenol	<0.14		0.40	0.14	mg/Kg	☼	10/25/18 07:13	10/28/18 16:08	1
2-Chloronaphthalene	<0.044		0.20	0.044	mg/Kg	☼	10/25/18 07:13	10/28/18 16:08	1
2-Chlorophenol	<0.068		0.20	0.068	mg/Kg	☼	10/25/18 07:13	10/28/18 16:08	1
4-Chlorophenyl phenyl ether	<0.047		0.20	0.047	mg/Kg	☼	10/25/18 07:13	10/28/18 16:08	1
Chrysene	0.011	J	0.040	0.011	mg/Kg	☼	10/25/18 07:13	10/28/18 16:08	1
Dibenz(a,h)anthracene	<0.0077		0.040	0.0077	mg/Kg	☼	10/25/18 07:13	10/28/18 16:08	1
Dibenzofuran	<0.047		0.20	0.047	mg/Kg	☼	10/25/18 07:13	10/28/18 16:08	1
1,2-Dichlorobenzene	<0.048		0.20	0.048	mg/Kg	☼	10/25/18 07:13	10/28/18 16:08	1
1,3-Dichlorobenzene	<0.045		0.20	0.045	mg/Kg	☼	10/25/18 07:13	10/28/18 16:08	1
1,4-Dichlorobenzene	<0.051		0.20	0.051	mg/Kg	☼	10/25/18 07:13	10/28/18 16:08	1
3,3'-Dichlorobenzidine	<0.056		0.20	0.056	mg/Kg	☼	10/25/18 07:13	10/28/18 16:08	1
2,4-Dichlorophenol	<0.095		0.40	0.095	mg/Kg	☼	10/25/18 07:13	10/28/18 16:08	1
Diethyl phthalate	<0.068		0.20	0.068	mg/Kg	☼	10/25/18 07:13	10/28/18 16:08	1
2,4-Dimethylphenol	<0.15		0.40	0.15	mg/Kg	☼	10/25/18 07:13	10/28/18 16:08	1
Dimethyl phthalate	<0.052		0.20	0.052	mg/Kg	☼	10/25/18 07:13	10/28/18 16:08	1
Di-n-butyl phthalate	<0.061		0.20	0.061	mg/Kg	☼	10/25/18 07:13	10/28/18 16:08	1
4,6-Dinitro-2-methylphenol	<0.32		0.80	0.32	mg/Kg	☼	10/25/18 07:13	10/28/18 16:08	1
2,4-Dinitrophenol	<0.70		0.80	0.70	mg/Kg	☼	10/25/18 07:13	10/28/18 16:08	1
2,4-Dinitrotoluene	<0.063		0.20	0.063	mg/Kg	☼	10/25/18 07:13	10/28/18 16:08	1
2,6-Dinitrotoluene	<0.078		0.20	0.078	mg/Kg	☼	10/25/18 07:13	10/28/18 16:08	1
Di-n-octyl phthalate	<0.065		0.20	0.065	mg/Kg	☼	10/25/18 07:13	10/28/18 16:08	1
Fluoranthene	0.012	J	0.040	0.0074	mg/Kg	☼	10/25/18 07:13	10/28/18 16:08	1
Fluorene	<0.0056		0.040	0.0056	mg/Kg	☼	10/25/18 07:13	10/28/18 16:08	1
Hexachlorobenzene	<0.0093		0.080	0.0093	mg/Kg	☼	10/25/18 07:13	10/28/18 16:08	1
Hexachlorobutadiene	<0.063		0.20	0.063	mg/Kg	☼	10/25/18 07:13	10/28/18 16:08	1
Hexachlorocyclopentadiene	<0.23		0.80	0.23	mg/Kg	☼	10/25/18 07:13	10/28/18 16:08	1
Hexachloroethane	<0.061		0.20	0.061	mg/Kg	☼	10/25/18 07:13	10/28/18 16:08	1
Indeno[1,2,3-cd]pyrene	<0.010		0.040	0.010	mg/Kg	☼	10/25/18 07:13	10/28/18 16:08	1
Isophorone	<0.045		0.20	0.045	mg/Kg	☼	10/25/18 07:13	10/28/18 16:08	1
2-Methylnaphthalene	<0.0073		0.080	0.0073	mg/Kg	☼	10/25/18 07:13	10/28/18 16:08	1
2-Methylphenol	<0.064		0.20	0.064	mg/Kg	☼	10/25/18 07:13	10/28/18 16:08	1
3 & 4 Methylphenol	<0.067		0.20	0.067	mg/Kg	☼	10/25/18 07:13	10/28/18 16:08	1
Naphthalene	<0.0061		0.040	0.0061	mg/Kg	☼	10/25/18 07:13	10/28/18 16:08	1
2-Nitroaniline	<0.054		0.20	0.054	mg/Kg	☼	10/25/18 07:13	10/28/18 16:08	1
3-Nitroaniline	<0.12		0.40	0.12	mg/Kg	☼	10/25/18 07:13	10/28/18 16:08	1
4-Nitroaniline	<0.17		0.40	0.17	mg/Kg	☼	10/25/18 07:13	10/28/18 16:08	1
Nitrobenzene	<0.010		0.040	0.010	mg/Kg	☼	10/25/18 07:13	10/28/18 16:08	1
2-Nitrophenol	<0.094		0.40	0.094	mg/Kg	☼	10/25/18 07:13	10/28/18 16:08	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B32 (0-5)

Lab Sample ID: 500-153433-5

Date Collected: 10/18/18 10:20

Matrix: Solid

Date Received: 10/18/18 16:45

Percent Solids: 81.9

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	☼	10/25/18 07:13	10/28/18 16:08	1
N-Nitrosodi-n-propylamine	<0.049		0.080	0.049	mg/Kg	☼	10/25/18 07:13	10/28/18 16:08	1
N-Nitrosodiphenylamine	<0.047		0.20	0.047	mg/Kg	☼	10/25/18 07:13	10/28/18 16:08	1
2,2'-oxybis[1-chloropropane]	<0.046		0.20	0.046	mg/Kg	☼	10/25/18 07:13	10/28/18 16:08	1
Pentachlorophenol	<0.64		0.80	0.64	mg/Kg	☼	10/25/18 07:13	10/28/18 16:08	1
Phenanthrene	0.0086	J	0.040	0.0056	mg/Kg	☼	10/25/18 07:13	10/28/18 16:08	1
Phenol	<0.089		0.20	0.089	mg/Kg	☼	10/25/18 07:13	10/28/18 16:08	1
Pyrene	0.012	J	0.040	0.0079	mg/Kg	☼	10/25/18 07:13	10/28/18 16:08	1
1,2,4-Trichlorobenzene	<0.043		0.20	0.043	mg/Kg	☼	10/25/18 07:13	10/28/18 16:08	1
2,4,5-Trichlorophenol	<0.091		0.40	0.091	mg/Kg	☼	10/25/18 07:13	10/28/18 16:08	1
2,4,6-Trichlorophenol	<0.14		0.40	0.14	mg/Kg	☼	10/25/18 07:13	10/28/18 16:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	104		43 - 145	10/25/18 07:13	10/28/18 16:08	1
2-Fluorophenol	148		31 - 166	10/25/18 07:13	10/28/18 16:08	1
Nitrobenzene-d5	100		37 - 147	10/25/18 07:13	10/28/18 16:08	1
Phenol-d5	136		30 - 153	10/25/18 07:13	10/28/18 16:08	1
Terphenyl-d14	121		42 - 157	10/25/18 07:13	10/28/18 16:08	1
2,4,6-Tribromophenol	64		31 - 143	10/25/18 07:13	10/28/18 16:08	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.24		1.2	0.24	mg/Kg	☼	10/24/18 17:02	10/25/18 18:05	1
Arsenic	8.6		0.61	0.21	mg/Kg	☼	10/24/18 17:02	10/25/18 18:05	1
Barium	110		0.61	0.069	mg/Kg	☼	10/24/18 17:02	10/25/18 18:05	1
Beryllium	0.82		0.24	0.057	mg/Kg	☼	10/24/18 17:02	10/25/18 18:05	1
Cadmium	0.11	J B	0.12	0.022	mg/Kg	☼	10/24/18 17:02	10/25/18 18:05	1
Chromium	21	B	0.61	0.30	mg/Kg	☼	10/24/18 17:02	10/25/18 18:05	1
Cobalt	13		0.30	0.080	mg/Kg	☼	10/24/18 17:02	10/25/18 18:05	1
Copper	16	B	0.61	0.17	mg/Kg	☼	10/24/18 17:02	10/25/18 18:05	1
Iron	22000	B	12	6.3	mg/Kg	☼	10/24/18 17:02	10/25/18 18:05	1
Lead	19		0.30	0.14	mg/Kg	☼	10/24/18 17:02	10/25/18 18:05	1
Magnesium	4300		6.1	3.0	mg/Kg	☼	10/24/18 17:02	10/25/18 18:05	1
Calcium	3000	B	12	2.1	mg/Kg	☼	10/24/18 17:02	10/25/18 18:05	1
Manganese	660	B	0.61	0.088	mg/Kg	☼	10/24/18 17:02	10/25/18 18:05	1
Nickel	29		0.61	0.18	mg/Kg	☼	10/24/18 17:02	10/25/18 18:05	1
Selenium	0.89		0.61	0.36	mg/Kg	☼	10/24/18 17:02	10/25/18 18:05	1
Silver	0.29	J	0.30	0.079	mg/Kg	☼	10/24/18 17:02	10/25/18 18:05	1
Thallium	<0.30		0.61	0.30	mg/Kg	☼	10/24/18 17:02	10/25/18 18:05	1
Vanadium	36		0.30	0.072	mg/Kg	☼	10/24/18 17:02	10/25/18 18:05	1
Zinc	69		1.2	0.53	mg/Kg	☼	10/24/18 17:02	10/25/18 18:05	1
Potassium	1900		30	11	mg/Kg	☼	10/24/18 17:02	10/25/18 18:05	1
Sodium	100		61	9.0	mg/Kg	☼	10/24/18 17:02	10/25/18 18:05	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		10/25/18 15:16	10/26/18 12:41	1
Barium	0.52		0.50	0.050	mg/L		10/25/18 15:16	10/26/18 12:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/25/18 15:16	10/26/18 12:41	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		10/25/18 15:16	10/26/18 12:41	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B32 (0-5)

Lab Sample ID: 500-153433-5

Date Collected: 10/18/18 10:20

Matrix: Solid

Date Received: 10/18/18 16:45

Percent Solids: 81.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	110		5.0	0.50	mg/L		10/25/18 15:16	10/26/18 12:41	1
Chromium	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:41	1
Cobalt	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:41	1
Copper	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:41	1
Iron	<0.20		0.40	0.20	mg/L		10/25/18 15:16	10/26/18 12:41	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/25/18 15:16	10/26/18 12:41	1
Magnesium	53		2.5	0.50	mg/L		10/25/18 15:16	10/26/18 12:41	1
Manganese	0.057		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:41	1
Nickel	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:41	1
Potassium	0.76 J		2.5	0.50	mg/L		10/25/18 15:16	10/26/18 12:41	1
Selenium	<0.020		0.050	0.020	mg/L		10/25/18 15:16	10/26/18 12:41	1
Silver	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:41	1
Vanadium	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:41	1
Zinc	0.095 J		0.50	0.020	mg/L		10/25/18 15:16	10/26/18 12:41	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		10/25/18 15:16	10/26/18 13:27	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/25/18 15:16	10/26/18 13:27	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		10/25/18 12:40	10/26/18 09:43	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.019	0.0062	mg/Kg	☼	10/24/18 16:40	10/25/18 09:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.16		0.48	0.16	mg/Kg	☼	10/29/18 10:50	10/29/18 15:40	1
pH	7.6		0.2	0.2	SU			10/25/18 14:47	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B31 (0-5)

Lab Sample ID: 500-153433-6

Date Collected: 10/18/18 10:45

Matrix: Solid

Date Received: 10/18/18 16:45

Percent Solids: 79.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0088		0.020	0.0088	mg/Kg	☼	10/19/18 17:43	10/29/18 01:38	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg	☼	10/19/18 17:43	10/29/18 01:38	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg	☼	10/19/18 17:43	10/29/18 01:38	1
Bromoform	<0.00059		0.0020	0.00059	mg/Kg	☼	10/19/18 17:43	10/29/18 01:38	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg	☼	10/19/18 17:43	10/29/18 01:38	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg	☼	10/19/18 17:43	10/29/18 01:38	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg	☼	10/19/18 17:43	10/29/18 01:38	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg	☼	10/19/18 17:43	10/29/18 01:38	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg	☼	10/19/18 17:43	10/29/18 01:38	1
Chloroethane	<0.0015	*	0.0050	0.0015	mg/Kg	☼	10/19/18 17:43	10/29/18 01:38	1
Chloroform	<0.00070		0.0020	0.00070	mg/Kg	☼	10/19/18 17:43	10/29/18 01:38	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg	☼	10/19/18 17:43	10/29/18 01:38	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg	☼	10/19/18 17:43	10/29/18 01:38	1
cis-1,3-Dichloropropene	<0.00061		0.0020	0.00061	mg/Kg	☼	10/19/18 17:43	10/29/18 01:38	1
Dibromochloromethane	<0.00066		0.0020	0.00066	mg/Kg	☼	10/19/18 17:43	10/29/18 01:38	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg	☼	10/19/18 17:43	10/29/18 01:38	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg	☼	10/19/18 17:43	10/29/18 01:38	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg	☼	10/19/18 17:43	10/29/18 01:38	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg	☼	10/19/18 17:43	10/29/18 01:38	1
1,3-Dichloropropene, Total	<0.00071		0.0020	0.00071	mg/Kg	☼	10/19/18 17:43	10/29/18 01:38	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg	☼	10/19/18 17:43	10/29/18 01:38	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg	☼	10/19/18 17:43	10/29/18 01:38	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg	☼	10/19/18 17:43	10/29/18 01:38	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg	☼	10/19/18 17:43	10/29/18 01:38	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg	☼	10/19/18 17:43	10/29/18 01:38	1
Styrene	<0.00061		0.0020	0.00061	mg/Kg	☼	10/19/18 17:43	10/29/18 01:38	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg	☼	10/19/18 17:43	10/29/18 01:38	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg	☼	10/19/18 17:43	10/29/18 01:38	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg	☼	10/19/18 17:43	10/29/18 01:38	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg	☼	10/19/18 17:43	10/29/18 01:38	1
trans-1,3-Dichloropropene	<0.00071		0.0020	0.00071	mg/Kg	☼	10/19/18 17:43	10/29/18 01:38	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg	☼	10/19/18 17:43	10/29/18 01:38	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg	☼	10/19/18 17:43	10/29/18 01:38	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg	☼	10/19/18 17:43	10/29/18 01:38	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg	☼	10/19/18 17:43	10/29/18 01:38	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg	☼	10/19/18 17:43	10/29/18 01:38	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg	☼	10/19/18 17:43	10/29/18 01:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		75 - 131	10/19/18 17:43	10/29/18 01:38	1
Dibromofluoromethane	102		75 - 126	10/19/18 17:43	10/29/18 01:38	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134	10/19/18 17:43	10/29/18 01:38	1
Toluene-d8 (Surr)	96		75 - 124	10/19/18 17:43	10/29/18 01:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0074		0.041	0.0074	mg/Kg	☼	10/25/18 07:13	10/28/18 18:48	1
Acenaphthylene	<0.0054		0.041	0.0054	mg/Kg	☼	10/25/18 07:13	10/28/18 18:48	1
Anthracene	<0.0069		0.041	0.0069	mg/Kg	☼	10/25/18 07:13	10/28/18 18:48	1
Benzo[a]anthracene	0.022	J	0.041	0.0056	mg/Kg	☼	10/25/18 07:13	10/28/18 18:48	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B31 (0-5)

Lab Sample ID: 500-153433-6

Date Collected: 10/18/18 10:45

Matrix: Solid

Date Received: 10/18/18 16:45

Percent Solids: 79.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.035	J	0.041	0.0080	mg/Kg	☼	10/25/18 07:13	10/28/18 18:48	1
Benzo[b]fluoranthene	0.036	J	0.041	0.0089	mg/Kg	☼	10/25/18 07:13	10/28/18 18:48	1
Benzo[g,h,i]perylene	0.019	J	0.041	0.013	mg/Kg	☼	10/25/18 07:13	10/28/18 18:48	1
Benzo[k]fluoranthene	<0.012		0.041	0.012	mg/Kg	☼	10/25/18 07:13	10/28/18 18:48	1
Bis(2-chloroethoxy)methane	<0.042		0.21	0.042	mg/Kg	☼	10/25/18 07:13	10/28/18 18:48	1
Bis(2-chloroethyl)ether	<0.062		0.21	0.062	mg/Kg	☼	10/25/18 07:13	10/28/18 18:48	1
Bis(2-ethylhexyl) phthalate	<0.076		0.21	0.076	mg/Kg	☼	10/25/18 07:13	10/28/18 18:48	1
4-Bromophenyl phenyl ether	<0.054		0.21	0.054	mg/Kg	☼	10/25/18 07:13	10/28/18 18:48	1
Butyl benzyl phthalate	<0.079		0.21	0.079	mg/Kg	☼	10/25/18 07:13	10/28/18 18:48	1
Carbazole	<0.10		0.21	0.10	mg/Kg	☼	10/25/18 07:13	10/28/18 18:48	1
4-Chloroaniline	<0.19		0.83	0.19	mg/Kg	☼	10/25/18 07:13	10/28/18 18:48	1
4-Chloro-3-methylphenol	<0.14		0.41	0.14	mg/Kg	☼	10/25/18 07:13	10/28/18 18:48	1
2-Chloronaphthalene	<0.046		0.21	0.046	mg/Kg	☼	10/25/18 07:13	10/28/18 18:48	1
2-Chlorophenol	<0.071		0.21	0.071	mg/Kg	☼	10/25/18 07:13	10/28/18 18:48	1
4-Chlorophenyl phenyl ether	<0.048		0.21	0.048	mg/Kg	☼	10/25/18 07:13	10/28/18 18:48	1
Chrysene	0.033	J	0.041	0.011	mg/Kg	☼	10/25/18 07:13	10/28/18 18:48	1
Dibenz(a,h)anthracene	<0.0080		0.041	0.0080	mg/Kg	☼	10/25/18 07:13	10/28/18 18:48	1
Dibenzofuran	<0.048		0.21	0.048	mg/Kg	☼	10/25/18 07:13	10/28/18 18:48	1
1,2-Dichlorobenzene	<0.049		0.21	0.049	mg/Kg	☼	10/25/18 07:13	10/28/18 18:48	1
1,3-Dichlorobenzene	<0.047		0.21	0.047	mg/Kg	☼	10/25/18 07:13	10/28/18 18:48	1
1,4-Dichlorobenzene	<0.053		0.21	0.053	mg/Kg	☼	10/25/18 07:13	10/28/18 18:48	1
3,3'-Dichlorobenzidine	<0.058		0.21	0.058	mg/Kg	☼	10/25/18 07:13	10/28/18 18:48	1
2,4-Dichlorophenol	<0.098		0.41	0.098	mg/Kg	☼	10/25/18 07:13	10/28/18 18:48	1
Diethyl phthalate	<0.070		0.21	0.070	mg/Kg	☼	10/25/18 07:13	10/28/18 18:48	1
2,4-Dimethylphenol	<0.16		0.41	0.16	mg/Kg	☼	10/25/18 07:13	10/28/18 18:48	1
Dimethyl phthalate	<0.054		0.21	0.054	mg/Kg	☼	10/25/18 07:13	10/28/18 18:48	1
Di-n-butyl phthalate	<0.063		0.21	0.063	mg/Kg	☼	10/25/18 07:13	10/28/18 18:48	1
4,6-Dinitro-2-methylphenol	<0.33		0.83	0.33	mg/Kg	☼	10/25/18 07:13	10/28/18 18:48	1
2,4-Dinitrophenol	<0.73		0.83	0.73	mg/Kg	☼	10/25/18 07:13	10/28/18 18:48	1
2,4-Dinitrotoluene	<0.066		0.21	0.066	mg/Kg	☼	10/25/18 07:13	10/28/18 18:48	1
2,6-Dinitrotoluene	<0.081		0.21	0.081	mg/Kg	☼	10/25/18 07:13	10/28/18 18:48	1
Di-n-octyl phthalate	<0.067		0.21	0.067	mg/Kg	☼	10/25/18 07:13	10/28/18 18:48	1
Fluoranthene	0.041		0.041	0.0077	mg/Kg	☼	10/25/18 07:13	10/28/18 18:48	1
Fluorene	<0.0058		0.041	0.0058	mg/Kg	☼	10/25/18 07:13	10/28/18 18:48	1
Hexachlorobenzene	<0.0096		0.083	0.0096	mg/Kg	☼	10/25/18 07:13	10/28/18 18:48	1
Hexachlorobutadiene	<0.065		0.21	0.065	mg/Kg	☼	10/25/18 07:13	10/28/18 18:48	1
Hexachlorocyclopentadiene	<0.24		0.83	0.24	mg/Kg	☼	10/25/18 07:13	10/28/18 18:48	1
Hexachloroethane	<0.063		0.21	0.063	mg/Kg	☼	10/25/18 07:13	10/28/18 18:48	1
Indeno[1,2,3-cd]pyrene	0.031	J	0.041	0.011	mg/Kg	☼	10/25/18 07:13	10/28/18 18:48	1
Isophorone	<0.046		0.21	0.046	mg/Kg	☼	10/25/18 07:13	10/28/18 18:48	1
2-Methylnaphthalene	<0.0076		0.083	0.0076	mg/Kg	☼	10/25/18 07:13	10/28/18 18:48	1
2-Methylphenol	<0.066		0.21	0.066	mg/Kg	☼	10/25/18 07:13	10/28/18 18:48	1
3 & 4 Methylphenol	<0.069		0.21	0.069	mg/Kg	☼	10/25/18 07:13	10/28/18 18:48	1
Naphthalene	<0.0064		0.041	0.0064	mg/Kg	☼	10/25/18 07:13	10/28/18 18:48	1
2-Nitroaniline	<0.056		0.21	0.056	mg/Kg	☼	10/25/18 07:13	10/28/18 18:48	1
3-Nitroaniline	<0.13		0.41	0.13	mg/Kg	☼	10/25/18 07:13	10/28/18 18:48	1
4-Nitroaniline	<0.17		0.41	0.17	mg/Kg	☼	10/25/18 07:13	10/28/18 18:48	1
Nitrobenzene	<0.010		0.041	0.010	mg/Kg	☼	10/25/18 07:13	10/28/18 18:48	1
2-Nitrophenol	<0.098		0.41	0.098	mg/Kg	☼	10/25/18 07:13	10/28/18 18:48	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B31 (0-5)

Lab Sample ID: 500-153433-6

Date Collected: 10/18/18 10:45

Matrix: Solid

Date Received: 10/18/18 16:45

Percent Solids: 79.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.39		0.83	0.39	mg/Kg	☼	10/25/18 07:13	10/28/18 18:48	1
N-Nitrosodi-n-propylamine	<0.051		0.083	0.051	mg/Kg	☼	10/25/18 07:13	10/28/18 18:48	1
N-Nitrosodiphenylamine	<0.049		0.21	0.049	mg/Kg	☼	10/25/18 07:13	10/28/18 18:48	1
2,2'-oxybis[1-chloropropane]	<0.048		0.21	0.048	mg/Kg	☼	10/25/18 07:13	10/28/18 18:48	1
Pentachlorophenol	<0.66		0.83	0.66	mg/Kg	☼	10/25/18 07:13	10/28/18 18:48	1
Phenanthrene	0.027	J	0.041	0.0058	mg/Kg	☼	10/25/18 07:13	10/28/18 18:48	1
Phenol	<0.092		0.21	0.092	mg/Kg	☼	10/25/18 07:13	10/28/18 18:48	1
Pyrene	0.040	J	0.041	0.0082	mg/Kg	☼	10/25/18 07:13	10/28/18 18:48	1
1,2,4-Trichlorobenzene	<0.045		0.21	0.045	mg/Kg	☼	10/25/18 07:13	10/28/18 18:48	1
2,4,5-Trichlorophenol	<0.094		0.41	0.094	mg/Kg	☼	10/25/18 07:13	10/28/18 18:48	1
2,4,6-Trichlorophenol	<0.14		0.41	0.14	mg/Kg	☼	10/25/18 07:13	10/28/18 18:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	94		43 - 145				10/25/18 07:13	10/28/18 18:48	1
2-Fluorophenol	126		31 - 166				10/25/18 07:13	10/28/18 18:48	1
Nitrobenzene-d5	92		37 - 147				10/25/18 07:13	10/28/18 18:48	1
Phenol-d5	123		30 - 153				10/25/18 07:13	10/28/18 18:48	1
Terphenyl-d14	106		42 - 157				10/25/18 07:13	10/28/18 18:48	1
2,4,6-Tribromophenol	47		31 - 143				10/25/18 07:13	10/28/18 18:48	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.38	J	1.2	0.24	mg/Kg	☼	10/24/18 17:02	10/25/18 18:09	1
Arsenic	8.4		0.62	0.21	mg/Kg	☼	10/24/18 17:02	10/25/18 18:09	1
Barium	120		0.62	0.071	mg/Kg	☼	10/24/18 17:02	10/25/18 18:09	1
Beryllium	0.79		0.25	0.058	mg/Kg	☼	10/24/18 17:02	10/25/18 18:09	1
Cadmium	0.24	B	0.12	0.022	mg/Kg	☼	10/24/18 17:02	10/25/18 18:09	1
Chromium	20	B	0.62	0.31	mg/Kg	☼	10/24/18 17:02	10/25/18 18:09	1
Cobalt	12		0.31	0.081	mg/Kg	☼	10/24/18 17:02	10/25/18 18:09	1
Copper	19	B	0.62	0.17	mg/Kg	☼	10/24/18 17:02	10/25/18 18:09	1
Iron	20000	B	12	6.5	mg/Kg	☼	10/24/18 17:02	10/25/18 18:09	1
Lead	33		0.31	0.14	mg/Kg	☼	10/24/18 17:02	10/25/18 18:09	1
Magnesium	3800		6.2	3.1	mg/Kg	☼	10/24/18 17:02	10/25/18 18:09	1
Calcium	3200	B	12	2.1	mg/Kg	☼	10/24/18 17:02	10/25/18 18:09	1
Manganese	670	B	0.62	0.090	mg/Kg	☼	10/24/18 17:02	10/25/18 18:09	1
Nickel	26		0.62	0.18	mg/Kg	☼	10/24/18 17:02	10/25/18 18:09	1
Selenium	0.73		0.62	0.37	mg/Kg	☼	10/24/18 17:02	10/25/18 18:09	1
Silver	0.30	J	0.31	0.080	mg/Kg	☼	10/24/18 17:02	10/25/18 18:09	1
Thallium	<0.31		0.62	0.31	mg/Kg	☼	10/24/18 17:02	10/25/18 18:09	1
Vanadium	33		0.31	0.073	mg/Kg	☼	10/24/18 17:02	10/25/18 18:09	1
Zinc	81		1.2	0.55	mg/Kg	☼	10/24/18 17:02	10/25/18 18:09	1
Potassium	2000		31	11	mg/Kg	☼	10/24/18 17:02	10/25/18 18:09	1
Sodium	380		62	9.2	mg/Kg	☼	10/24/18 17:02	10/25/18 18:09	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		10/25/18 15:16	10/26/18 12:45	1
Barium	0.45	J	0.50	0.050	mg/L		10/25/18 15:16	10/26/18 12:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/25/18 15:16	10/26/18 12:45	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		10/25/18 15:16	10/26/18 12:45	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B31 (0-5)

Lab Sample ID: 500-153433-6

Date Collected: 10/18/18 10:45

Matrix: Solid

Date Received: 10/18/18 16:45

Percent Solids: 79.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	80		5.0	0.50	mg/L		10/25/18 15:16	10/26/18 12:45	1
Chromium	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:45	1
Cobalt	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:45	1
Copper	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:45	1
Iron	<0.20		0.40	0.20	mg/L		10/25/18 15:16	10/26/18 12:45	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/25/18 15:16	10/26/18 12:45	1
Magnesium	32		2.5	0.50	mg/L		10/25/18 15:16	10/26/18 12:45	1
Manganese	0.025		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:45	1
Nickel	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:45	1
Potassium	2.2 J		2.5	0.50	mg/L		10/25/18 15:16	10/26/18 12:45	1
Selenium	<0.020		0.050	0.020	mg/L		10/25/18 15:16	10/26/18 12:45	1
Silver	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:45	1
Vanadium	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:45	1
Zinc	0.045 J		0.50	0.020	mg/L		10/25/18 15:16	10/26/18 12:45	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		10/25/18 15:16	10/26/18 13:28	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/25/18 15:16	10/26/18 13:28	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		10/25/18 12:40	10/26/18 09:50	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.041		0.020	0.0066	mg/Kg	☼	10/24/18 16:40	10/25/18 09:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.18		0.52	0.18	mg/Kg	☼	10/29/18 10:50	10/29/18 15:41	1
pH	7.8		0.2	0.2	SU			10/25/18 14:51	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B30 (0-5)

Lab Sample ID: 500-153433-7

Date Collected: 10/18/18 11:10

Matrix: Solid

Date Received: 10/18/18 16:45

Percent Solids: 86.1

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	☼	10/19/18 17:43	10/29/18 02:03	1
Benzene	<0.00049		0.0019	0.00049	mg/Kg	☼	10/19/18 17:43	10/29/18 02:03	1
Bromodichloromethane	<0.00039		0.0019	0.00039	mg/Kg	☼	10/19/18 17:43	10/29/18 02:03	1
Bromoform	<0.00056		0.0019	0.00056	mg/Kg	☼	10/19/18 17:43	10/29/18 02:03	1
Bromomethane	<0.0018		0.0048	0.0018	mg/Kg	☼	10/19/18 17:43	10/29/18 02:03	1
2-Butanone (MEK)	<0.0021		0.0048	0.0021	mg/Kg	☼	10/19/18 17:43	10/29/18 02:03	1
Carbon disulfide	<0.0010		0.0048	0.0010	mg/Kg	☼	10/19/18 17:43	10/29/18 02:03	1
Carbon tetrachloride	<0.00056		0.0019	0.00056	mg/Kg	☼	10/19/18 17:43	10/29/18 02:03	1
Chlorobenzene	<0.00071		0.0019	0.00071	mg/Kg	☼	10/19/18 17:43	10/29/18 02:03	1
Chloroethane	<0.0014	*	0.0048	0.0014	mg/Kg	☼	10/19/18 17:43	10/29/18 02:03	1
Chloroform	<0.00067		0.0019	0.00067	mg/Kg	☼	10/19/18 17:43	10/29/18 02:03	1
Chloromethane	<0.0019		0.0048	0.0019	mg/Kg	☼	10/19/18 17:43	10/29/18 02:03	1
cis-1,2-Dichloroethene	<0.00054		0.0019	0.00054	mg/Kg	☼	10/19/18 17:43	10/29/18 02:03	1
cis-1,3-Dichloropropene	<0.00058		0.0019	0.00058	mg/Kg	☼	10/19/18 17:43	10/29/18 02:03	1
Dibromochloromethane	<0.00063		0.0019	0.00063	mg/Kg	☼	10/19/18 17:43	10/29/18 02:03	1
1,1-Dichloroethane	<0.00066		0.0019	0.00066	mg/Kg	☼	10/19/18 17:43	10/29/18 02:03	1
1,2-Dichloroethane	<0.0015		0.0048	0.0015	mg/Kg	☼	10/19/18 17:43	10/29/18 02:03	1
1,1-Dichloroethene	<0.00066		0.0019	0.00066	mg/Kg	☼	10/19/18 17:43	10/29/18 02:03	1
1,2-Dichloropropane	<0.00050		0.0019	0.00050	mg/Kg	☼	10/19/18 17:43	10/29/18 02:03	1
1,3-Dichloropropene, Total	<0.00067		0.0019	0.00067	mg/Kg	☼	10/19/18 17:43	10/29/18 02:03	1
Ethylbenzene	<0.00092		0.0019	0.00092	mg/Kg	☼	10/19/18 17:43	10/29/18 02:03	1
2-Hexanone	<0.0015		0.0048	0.0015	mg/Kg	☼	10/19/18 17:43	10/29/18 02:03	1
Methylene Chloride	<0.0019		0.0048	0.0019	mg/Kg	☼	10/19/18 17:43	10/29/18 02:03	1
4-Methyl-2-pentanone (MIBK)	<0.0014		0.0048	0.0014	mg/Kg	☼	10/19/18 17:43	10/29/18 02:03	1
Methyl tert-butyl ether	<0.00056		0.0019	0.00056	mg/Kg	☼	10/19/18 17:43	10/29/18 02:03	1
Styrene	<0.00058		0.0019	0.00058	mg/Kg	☼	10/19/18 17:43	10/29/18 02:03	1
1,1,2,2-Tetrachloroethane	<0.00061		0.0019	0.00061	mg/Kg	☼	10/19/18 17:43	10/29/18 02:03	1
Tetrachloroethene	<0.00065		0.0019	0.00065	mg/Kg	☼	10/19/18 17:43	10/29/18 02:03	1
Toluene	<0.00048		0.0019	0.00048	mg/Kg	☼	10/19/18 17:43	10/29/18 02:03	1
trans-1,2-Dichloroethene	<0.00085		0.0019	0.00085	mg/Kg	☼	10/19/18 17:43	10/29/18 02:03	1
trans-1,3-Dichloropropene	<0.00067		0.0019	0.00067	mg/Kg	☼	10/19/18 17:43	10/29/18 02:03	1
1,1,1-Trichloroethane	<0.00064		0.0019	0.00064	mg/Kg	☼	10/19/18 17:43	10/29/18 02:03	1
1,1,2-Trichloroethane	<0.00082		0.0019	0.00082	mg/Kg	☼	10/19/18 17:43	10/29/18 02:03	1
Trichloroethene	<0.00065		0.0019	0.00065	mg/Kg	☼	10/19/18 17:43	10/29/18 02:03	1
Vinyl acetate	<0.0017		0.0048	0.0017	mg/Kg	☼	10/19/18 17:43	10/29/18 02:03	1
Vinyl chloride	<0.00085		0.0019	0.00085	mg/Kg	☼	10/19/18 17:43	10/29/18 02:03	1
Xylenes, Total	<0.00061		0.0038	0.00061	mg/Kg	☼	10/19/18 17:43	10/29/18 02:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		75 - 131	10/19/18 17:43	10/29/18 02:03	1
Dibromofluoromethane	103		75 - 126	10/19/18 17:43	10/29/18 02:03	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134	10/19/18 17:43	10/29/18 02:03	1
Toluene-d8 (Surr)	96		75 - 124	10/19/18 17:43	10/29/18 02:03	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	☼	10/25/18 07:13	10/28/18 19:15	1
Acenaphthylene	0.0051	J	0.038	0.0050	mg/Kg	☼	10/25/18 07:13	10/28/18 19:15	1
Anthracene	0.011	J	0.038	0.0064	mg/Kg	☼	10/25/18 07:13	10/28/18 19:15	1
Benzo[a]anthracene	0.048		0.038	0.0051	mg/Kg	☼	10/25/18 07:13	10/28/18 19:15	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B30 (0-5)

Lab Sample ID: 500-153433-7

Date Collected: 10/18/18 11:10

Matrix: Solid

Date Received: 10/18/18 16:45

Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.061		0.038	0.0074	mg/Kg	☼	10/25/18 07:13	10/28/18 19:15	1
Benzo[b]fluoranthene	0.064		0.038	0.0083	mg/Kg	☼	10/25/18 07:13	10/28/18 19:15	1
Benzo[g,h,i]perylene	0.046		0.038	0.012	mg/Kg	☼	10/25/18 07:13	10/28/18 19:15	1
Benzo[k]fluoranthene	0.048		0.038	0.011	mg/Kg	☼	10/25/18 07:13	10/28/18 19:15	1
Bis(2-chloroethoxy)methane	<0.039		0.19	0.039	mg/Kg	☼	10/25/18 07:13	10/28/18 19:15	1
Bis(2-chloroethyl)ether	<0.057		0.19	0.057	mg/Kg	☼	10/25/18 07:13	10/28/18 19:15	1
Bis(2-ethylhexyl) phthalate	<0.070		0.19	0.070	mg/Kg	☼	10/25/18 07:13	10/28/18 19:15	1
4-Bromophenyl phenyl ether	<0.050		0.19	0.050	mg/Kg	☼	10/25/18 07:13	10/28/18 19:15	1
Butyl benzyl phthalate	<0.073		0.19	0.073	mg/Kg	☼	10/25/18 07:13	10/28/18 19:15	1
Carbazole	<0.096		0.19	0.096	mg/Kg	☼	10/25/18 07:13	10/28/18 19:15	1
4-Chloroaniline	<0.18		0.77	0.18	mg/Kg	☼	10/25/18 07:13	10/28/18 19:15	1
4-Chloro-3-methylphenol	<0.13		0.38	0.13	mg/Kg	☼	10/25/18 07:13	10/28/18 19:15	1
2-Chloronaphthalene	<0.042		0.19	0.042	mg/Kg	☼	10/25/18 07:13	10/28/18 19:15	1
2-Chlorophenol	<0.065		0.19	0.065	mg/Kg	☼	10/25/18 07:13	10/28/18 19:15	1
4-Chlorophenyl phenyl ether	<0.045		0.19	0.045	mg/Kg	☼	10/25/18 07:13	10/28/18 19:15	1
Chrysene	0.075		0.038	0.010	mg/Kg	☼	10/25/18 07:13	10/28/18 19:15	1
Dibenz(a,h)anthracene	0.028	J	0.038	0.0074	mg/Kg	☼	10/25/18 07:13	10/28/18 19:15	1
Dibenzofuran	<0.045		0.19	0.045	mg/Kg	☼	10/25/18 07:13	10/28/18 19:15	1
1,2-Dichlorobenzene	<0.046		0.19	0.046	mg/Kg	☼	10/25/18 07:13	10/28/18 19:15	1
1,3-Dichlorobenzene	<0.043		0.19	0.043	mg/Kg	☼	10/25/18 07:13	10/28/18 19:15	1
1,4-Dichlorobenzene	<0.049		0.19	0.049	mg/Kg	☼	10/25/18 07:13	10/28/18 19:15	1
3,3'-Dichlorobenzidine	<0.054		0.19	0.054	mg/Kg	☼	10/25/18 07:13	10/28/18 19:15	1
2,4-Dichlorophenol	<0.091		0.38	0.091	mg/Kg	☼	10/25/18 07:13	10/28/18 19:15	1
Diethyl phthalate	<0.065		0.19	0.065	mg/Kg	☼	10/25/18 07:13	10/28/18 19:15	1
2,4-Dimethylphenol	<0.15		0.38	0.15	mg/Kg	☼	10/25/18 07:13	10/28/18 19:15	1
Dimethyl phthalate	<0.050		0.19	0.050	mg/Kg	☼	10/25/18 07:13	10/28/18 19:15	1
Di-n-butyl phthalate	<0.058		0.19	0.058	mg/Kg	☼	10/25/18 07:13	10/28/18 19:15	1
4,6-Dinitro-2-methylphenol	<0.31		0.77	0.31	mg/Kg	☼	10/25/18 07:13	10/28/18 19:15	1
2,4-Dinitrophenol	<0.67		0.77	0.67	mg/Kg	☼	10/25/18 07:13	10/28/18 19:15	1
2,4-Dinitrotoluene	<0.061		0.19	0.061	mg/Kg	☼	10/25/18 07:13	10/28/18 19:15	1
2,6-Dinitrotoluene	<0.075		0.19	0.075	mg/Kg	☼	10/25/18 07:13	10/28/18 19:15	1
Di-n-octyl phthalate	<0.062		0.19	0.062	mg/Kg	☼	10/25/18 07:13	10/28/18 19:15	1
Fluoranthene	0.094		0.038	0.0071	mg/Kg	☼	10/25/18 07:13	10/28/18 19:15	1
Fluorene	<0.0054		0.038	0.0054	mg/Kg	☼	10/25/18 07:13	10/28/18 19:15	1
Hexachlorobenzene	<0.0089		0.077	0.0089	mg/Kg	☼	10/25/18 07:13	10/28/18 19:15	1
Hexachlorobutadiene	<0.060		0.19	0.060	mg/Kg	☼	10/25/18 07:13	10/28/18 19:15	1
Hexachlorocyclopentadiene	<0.22		0.77	0.22	mg/Kg	☼	10/25/18 07:13	10/28/18 19:15	1
Hexachloroethane	<0.058		0.19	0.058	mg/Kg	☼	10/25/18 07:13	10/28/18 19:15	1
Indeno[1,2,3-cd]pyrene	0.050		0.038	0.0099	mg/Kg	☼	10/25/18 07:13	10/28/18 19:15	1
Isophorone	<0.043		0.19	0.043	mg/Kg	☼	10/25/18 07:13	10/28/18 19:15	1
2-Methylnaphthalene	0.0073	J	0.077	0.0070	mg/Kg	☼	10/25/18 07:13	10/28/18 19:15	1
2-Methylphenol	<0.061		0.19	0.061	mg/Kg	☼	10/25/18 07:13	10/28/18 19:15	1
3 & 4 Methylphenol	<0.064		0.19	0.064	mg/Kg	☼	10/25/18 07:13	10/28/18 19:15	1
Naphthalene	<0.0059		0.038	0.0059	mg/Kg	☼	10/25/18 07:13	10/28/18 19:15	1
2-Nitroaniline	<0.051		0.19	0.051	mg/Kg	☼	10/25/18 07:13	10/28/18 19:15	1
3-Nitroaniline	<0.12		0.38	0.12	mg/Kg	☼	10/25/18 07:13	10/28/18 19:15	1
4-Nitroaniline	<0.16		0.38	0.16	mg/Kg	☼	10/25/18 07:13	10/28/18 19:15	1
Nitrobenzene	<0.0095		0.038	0.0095	mg/Kg	☼	10/25/18 07:13	10/28/18 19:15	1
2-Nitrophenol	<0.090		0.38	0.090	mg/Kg	☼	10/25/18 07:13	10/28/18 19:15	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B30 (0-5)

Lab Sample ID: 500-153433-7

Date Collected: 10/18/18 11:10

Matrix: Solid

Date Received: 10/18/18 16:45

Percent Solids: 86.1

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	☼	10/25/18 07:13	10/28/18 19:15	1
N-Nitrosodi-n-propylamine	<0.047		0.077	0.047	mg/Kg	☼	10/25/18 07:13	10/28/18 19:15	1
N-Nitrosodiphenylamine	<0.045		0.19	0.045	mg/Kg	☼	10/25/18 07:13	10/28/18 19:15	1
2,2'-oxybis[1-chloropropane]	<0.044		0.19	0.044	mg/Kg	☼	10/25/18 07:13	10/28/18 19:15	1
Pentachlorophenol	<0.61		0.77	0.61	mg/Kg	☼	10/25/18 07:13	10/28/18 19:15	1
Phenanthrene	0.062		0.038	0.0053	mg/Kg	☼	10/25/18 07:13	10/28/18 19:15	1
Phenol	<0.085		0.19	0.085	mg/Kg	☼	10/25/18 07:13	10/28/18 19:15	1
Pyrene	0.089		0.038	0.0076	mg/Kg	☼	10/25/18 07:13	10/28/18 19:15	1
1,2,4-Trichlorobenzene	<0.041		0.19	0.041	mg/Kg	☼	10/25/18 07:13	10/28/18 19:15	1
2,4,5-Trichlorophenol	<0.087		0.38	0.087	mg/Kg	☼	10/25/18 07:13	10/28/18 19:15	1
2,4,6-Trichlorophenol	<0.13		0.38	0.13	mg/Kg	☼	10/25/18 07:13	10/28/18 19:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	104		43 - 145	10/25/18 07:13	10/28/18 19:15	1
2-Fluorophenol	139		31 - 166	10/25/18 07:13	10/28/18 19:15	1
Nitrobenzene-d5	99		37 - 147	10/25/18 07:13	10/28/18 19:15	1
Phenol-d5	131		30 - 153	10/25/18 07:13	10/28/18 19:15	1
Terphenyl-d14	113		42 - 157	10/25/18 07:13	10/28/18 19:15	1
2,4,6-Tribromophenol	77		31 - 143	10/25/18 07:13	10/28/18 19:15	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.22	J	1.1	0.21	mg/Kg	☼	10/24/18 17:02	10/25/18 18:13	1
Arsenic	8.2		0.55	0.19	mg/Kg	☼	10/24/18 17:02	10/25/18 18:13	1
Barium	100		0.55	0.062	mg/Kg	☼	10/24/18 17:02	10/25/18 18:13	1
Beryllium	0.75		0.22	0.051	mg/Kg	☼	10/24/18 17:02	10/25/18 18:13	1
Cadmium	0.31	B	0.11	0.020	mg/Kg	☼	10/24/18 17:02	10/25/18 18:13	1
Chromium	18	B	0.55	0.27	mg/Kg	☼	10/24/18 17:02	10/25/18 18:13	1
Cobalt	13		0.27	0.072	mg/Kg	☼	10/24/18 17:02	10/25/18 18:13	1
Copper	17	B	0.55	0.15	mg/Kg	☼	10/24/18 17:02	10/25/18 18:13	1
Iron	19000	B	11	5.7	mg/Kg	☼	10/24/18 17:02	10/25/18 18:13	1
Lead	48		0.27	0.13	mg/Kg	☼	10/24/18 17:02	10/25/18 18:13	1
Magnesium	5300		5.5	2.7	mg/Kg	☼	10/24/18 17:02	10/25/18 18:13	1
Calcium	7000	B	11	1.9	mg/Kg	☼	10/24/18 17:02	10/25/18 18:13	1
Manganese	590	B	0.55	0.079	mg/Kg	☼	10/24/18 17:02	10/25/18 18:13	1
Nickel	25		0.55	0.16	mg/Kg	☼	10/24/18 17:02	10/25/18 18:13	1
Selenium	0.84		0.55	0.32	mg/Kg	☼	10/24/18 17:02	10/25/18 18:13	1
Silver	0.30		0.27	0.071	mg/Kg	☼	10/24/18 17:02	10/25/18 18:13	1
Thallium	<0.27		0.55	0.27	mg/Kg	☼	10/24/18 17:02	10/25/18 18:13	1
Vanadium	29		0.27	0.065	mg/Kg	☼	10/24/18 17:02	10/25/18 18:13	1
Zinc	87		1.1	0.48	mg/Kg	☼	10/24/18 17:02	10/25/18 18:13	1
Potassium	1800		27	9.7	mg/Kg	☼	10/24/18 17:02	10/25/18 18:13	1
Sodium	220		55	8.1	mg/Kg	☼	10/24/18 17:02	10/25/18 18:13	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		10/25/18 15:16	10/26/18 12:49	1
Barium	0.60		0.50	0.050	mg/L		10/25/18 15:16	10/26/18 12:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/25/18 15:16	10/26/18 12:49	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		10/25/18 15:16	10/26/18 12:49	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B30 (0-5)

Lab Sample ID: 500-153433-7

Date Collected: 10/18/18 11:10

Matrix: Solid

Date Received: 10/18/18 16:45

Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	210		5.0	0.50	mg/L		10/25/18 15:16	10/26/18 12:49	1
Chromium	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:49	1
Cobalt	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:49	1
Copper	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:49	1
Iron	<0.20		0.40	0.20	mg/L		10/25/18 15:16	10/26/18 12:49	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/25/18 15:16	10/26/18 12:49	1
Magnesium	75		2.5	0.50	mg/L		10/25/18 15:16	10/26/18 12:49	1
Manganese	0.097		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:49	1
Nickel	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:49	1
Potassium	1.8 J		2.5	0.50	mg/L		10/25/18 15:16	10/26/18 12:49	1
Selenium	<0.020		0.050	0.020	mg/L		10/25/18 15:16	10/26/18 12:49	1
Silver	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:49	1
Vanadium	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:49	1
Zinc	0.27 J		0.50	0.020	mg/L		10/25/18 15:16	10/26/18 12:49	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		10/25/18 15:16	10/26/18 13:29	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/25/18 15:16	10/26/18 13:29	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		10/25/18 12:40	10/26/18 09:56	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.048		0.018	0.0061	mg/Kg	☼	10/24/18 16:40	10/25/18 09:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.19		0.54	0.19	mg/Kg	☼	10/29/18 10:50	10/29/18 15:41	1
pH	7.7		0.2	0.2	SU			10/25/18 14:54	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B29 (0-5)

Lab Sample ID: 500-153433-8

Date Collected: 10/18/18 11:30

Matrix: Solid

Date Received: 10/18/18 16:45

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0091		0.021	0.0091	mg/Kg	☼	10/19/18 17:43	10/29/18 02:29	1
Benzene	<0.00054		0.0021	0.00054	mg/Kg	☼	10/19/18 17:43	10/29/18 02:29	1
Bromodichloromethane	<0.00043		0.0021	0.00043	mg/Kg	☼	10/19/18 17:43	10/29/18 02:29	1
Bromoform	<0.00061		0.0021	0.00061	mg/Kg	☼	10/19/18 17:43	10/29/18 02:29	1
Bromomethane	<0.0020		0.0052	0.0020	mg/Kg	☼	10/19/18 17:43	10/29/18 02:29	1
2-Butanone (MEK)	<0.0023		0.0052	0.0023	mg/Kg	☼	10/19/18 17:43	10/29/18 02:29	1
Carbon disulfide	<0.0011		0.0052	0.0011	mg/Kg	☼	10/19/18 17:43	10/29/18 02:29	1
Carbon tetrachloride	<0.00061		0.0021	0.00061	mg/Kg	☼	10/19/18 17:43	10/29/18 02:29	1
Chlorobenzene	<0.00077		0.0021	0.00077	mg/Kg	☼	10/19/18 17:43	10/29/18 02:29	1
Chloroethane	<0.0016	*	0.0052	0.0016	mg/Kg	☼	10/19/18 17:43	10/29/18 02:29	1
Chloroform	<0.00073		0.0021	0.00073	mg/Kg	☼	10/19/18 17:43	10/29/18 02:29	1
Chloromethane	<0.0021		0.0052	0.0021	mg/Kg	☼	10/19/18 17:43	10/29/18 02:29	1
cis-1,2-Dichloroethene	<0.00059		0.0021	0.00059	mg/Kg	☼	10/19/18 17:43	10/29/18 02:29	1
cis-1,3-Dichloropropene	<0.00063		0.0021	0.00063	mg/Kg	☼	10/19/18 17:43	10/29/18 02:29	1
Dibromochloromethane	<0.00069		0.0021	0.00069	mg/Kg	☼	10/19/18 17:43	10/29/18 02:29	1
1,1-Dichloroethane	<0.00072		0.0021	0.00072	mg/Kg	☼	10/19/18 17:43	10/29/18 02:29	1
1,2-Dichloroethane	<0.0016		0.0052	0.0016	mg/Kg	☼	10/19/18 17:43	10/29/18 02:29	1
1,1-Dichloroethene	<0.00072		0.0021	0.00072	mg/Kg	☼	10/19/18 17:43	10/29/18 02:29	1
1,2-Dichloropropane	<0.00054		0.0021	0.00054	mg/Kg	☼	10/19/18 17:43	10/29/18 02:29	1
1,3-Dichloropropene, Total	<0.00074		0.0021	0.00074	mg/Kg	☼	10/19/18 17:43	10/29/18 02:29	1
Ethylbenzene	<0.0010		0.0021	0.0010	mg/Kg	☼	10/19/18 17:43	10/29/18 02:29	1
2-Hexanone	<0.0016		0.0052	0.0016	mg/Kg	☼	10/19/18 17:43	10/29/18 02:29	1
Methylene Chloride	<0.0021		0.0052	0.0021	mg/Kg	☼	10/19/18 17:43	10/29/18 02:29	1
4-Methyl-2-pentanone (MIBK)	<0.0016		0.0052	0.0016	mg/Kg	☼	10/19/18 17:43	10/29/18 02:29	1
Methyl tert-butyl ether	<0.00062		0.0021	0.00062	mg/Kg	☼	10/19/18 17:43	10/29/18 02:29	1
Styrene	<0.00063		0.0021	0.00063	mg/Kg	☼	10/19/18 17:43	10/29/18 02:29	1
1,1,2,2-Tetrachloroethane	<0.00067		0.0021	0.00067	mg/Kg	☼	10/19/18 17:43	10/29/18 02:29	1
Tetrachloroethene	<0.00071		0.0021	0.00071	mg/Kg	☼	10/19/18 17:43	10/29/18 02:29	1
Toluene	<0.00053		0.0021	0.00053	mg/Kg	☼	10/19/18 17:43	10/29/18 02:29	1
trans-1,2-Dichloroethene	<0.00093		0.0021	0.00093	mg/Kg	☼	10/19/18 17:43	10/29/18 02:29	1
trans-1,3-Dichloropropene	<0.00074		0.0021	0.00074	mg/Kg	☼	10/19/18 17:43	10/29/18 02:29	1
1,1,1-Trichloroethane	<0.00070		0.0021	0.00070	mg/Kg	☼	10/19/18 17:43	10/29/18 02:29	1
1,1,2-Trichloroethane	<0.00090		0.0021	0.00090	mg/Kg	☼	10/19/18 17:43	10/29/18 02:29	1
Trichloroethene	<0.00071		0.0021	0.00071	mg/Kg	☼	10/19/18 17:43	10/29/18 02:29	1
Vinyl acetate	<0.0018		0.0052	0.0018	mg/Kg	☼	10/19/18 17:43	10/29/18 02:29	1
Vinyl chloride	<0.00093		0.0021	0.00093	mg/Kg	☼	10/19/18 17:43	10/29/18 02:29	1
Xylenes, Total	<0.00067		0.0042	0.00067	mg/Kg	☼	10/19/18 17:43	10/29/18 02:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		75 - 131	10/19/18 17:43	10/29/18 02:29	1
Dibromofluoromethane	103		75 - 126	10/19/18 17:43	10/29/18 02:29	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134	10/19/18 17:43	10/29/18 02:29	1
Toluene-d8 (Surr)	96		75 - 124	10/19/18 17:43	10/29/18 02:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0070		0.038	0.0070	mg/Kg	☼	10/25/18 07:13	10/28/18 16:34	1
Acenaphthylene	<0.0051		0.038	0.0051	mg/Kg	☼	10/25/18 07:13	10/28/18 16:34	1
Anthracene	<0.0065		0.038	0.0065	mg/Kg	☼	10/25/18 07:13	10/28/18 16:34	1
Benzo[a]anthracene	<0.0052		0.038	0.0052	mg/Kg	☼	10/25/18 07:13	10/28/18 16:34	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B29 (0-5)

Lab Sample ID: 500-153433-8

Date Collected: 10/18/18 11:30

Matrix: Solid

Date Received: 10/18/18 16:45

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.0075		0.038	0.0075	mg/Kg	☼	10/25/18 07:13	10/28/18 16:34	1
Benzo[b]fluoranthene	<0.0084		0.038	0.0084	mg/Kg	☼	10/25/18 07:13	10/28/18 16:34	1
Benzo[g,h,i]perylene	<0.012		0.038	0.012	mg/Kg	☼	10/25/18 07:13	10/28/18 16:34	1
Benzo[k]fluoranthene	<0.011		0.038	0.011	mg/Kg	☼	10/25/18 07:13	10/28/18 16:34	1
Bis(2-chloroethoxy)methane	<0.040		0.19	0.040	mg/Kg	☼	10/25/18 07:13	10/28/18 16:34	1
Bis(2-chloroethyl)ether	<0.058		0.19	0.058	mg/Kg	☼	10/25/18 07:13	10/28/18 16:34	1
Bis(2-ethylhexyl) phthalate	<0.071		0.19	0.071	mg/Kg	☼	10/25/18 07:13	10/28/18 16:34	1
4-Bromophenyl phenyl ether	<0.051		0.19	0.051	mg/Kg	☼	10/25/18 07:13	10/28/18 16:34	1
Butyl benzyl phthalate	<0.074		0.19	0.074	mg/Kg	☼	10/25/18 07:13	10/28/18 16:34	1
Carbazole	<0.097		0.19	0.097	mg/Kg	☼	10/25/18 07:13	10/28/18 16:34	1
4-Chloroaniline	<0.18		0.78	0.18	mg/Kg	☼	10/25/18 07:13	10/28/18 16:34	1
4-Chloro-3-methylphenol	<0.13		0.38	0.13	mg/Kg	☼	10/25/18 07:13	10/28/18 16:34	1
2-Chloronaphthalene	<0.043		0.19	0.043	mg/Kg	☼	10/25/18 07:13	10/28/18 16:34	1
2-Chlorophenol	<0.066		0.19	0.066	mg/Kg	☼	10/25/18 07:13	10/28/18 16:34	1
4-Chlorophenyl phenyl ether	<0.045		0.19	0.045	mg/Kg	☼	10/25/18 07:13	10/28/18 16:34	1
Chrysene	<0.011		0.038	0.011	mg/Kg	☼	10/25/18 07:13	10/28/18 16:34	1
Dibenz(a,h)anthracene	<0.0075		0.038	0.0075	mg/Kg	☼	10/25/18 07:13	10/28/18 16:34	1
Dibenzofuran	<0.045		0.19	0.045	mg/Kg	☼	10/25/18 07:13	10/28/18 16:34	1
1,2-Dichlorobenzene	<0.046		0.19	0.046	mg/Kg	☼	10/25/18 07:13	10/28/18 16:34	1
1,3-Dichlorobenzene	<0.044		0.19	0.044	mg/Kg	☼	10/25/18 07:13	10/28/18 16:34	1
1,4-Dichlorobenzene	<0.050		0.19	0.050	mg/Kg	☼	10/25/18 07:13	10/28/18 16:34	1
3,3'-Dichlorobenzidine	<0.054		0.19	0.054	mg/Kg	☼	10/25/18 07:13	10/28/18 16:34	1
2,4-Dichlorophenol	<0.092		0.38	0.092	mg/Kg	☼	10/25/18 07:13	10/28/18 16:34	1
Diethyl phthalate	<0.066		0.19	0.066	mg/Kg	☼	10/25/18 07:13	10/28/18 16:34	1
2,4-Dimethylphenol	<0.15		0.38	0.15	mg/Kg	☼	10/25/18 07:13	10/28/18 16:34	1
Dimethyl phthalate	<0.051		0.19	0.051	mg/Kg	☼	10/25/18 07:13	10/28/18 16:34	1
Di-n-butyl phthalate	<0.059		0.19	0.059	mg/Kg	☼	10/25/18 07:13	10/28/18 16:34	1
4,6-Dinitro-2-methylphenol	<0.31		0.78	0.31	mg/Kg	☼	10/25/18 07:13	10/28/18 16:34	1
2,4-Dinitrophenol	<0.68		0.78	0.68	mg/Kg	☼	10/25/18 07:13	10/28/18 16:34	1
2,4-Dinitrotoluene	<0.062		0.19	0.062	mg/Kg	☼	10/25/18 07:13	10/28/18 16:34	1
2,6-Dinitrotoluene	<0.076		0.19	0.076	mg/Kg	☼	10/25/18 07:13	10/28/18 16:34	1
Di-n-octyl phthalate	<0.063		0.19	0.063	mg/Kg	☼	10/25/18 07:13	10/28/18 16:34	1
Fluoranthene	<0.0072		0.038	0.0072	mg/Kg	☼	10/25/18 07:13	10/28/18 16:34	1
Fluorene	<0.0054		0.038	0.0054	mg/Kg	☼	10/25/18 07:13	10/28/18 16:34	1
Hexachlorobenzene	<0.0090		0.078	0.0090	mg/Kg	☼	10/25/18 07:13	10/28/18 16:34	1
Hexachlorobutadiene	<0.061		0.19	0.061	mg/Kg	☼	10/25/18 07:13	10/28/18 16:34	1
Hexachlorocyclopentadiene	<0.22		0.78	0.22	mg/Kg	☼	10/25/18 07:13	10/28/18 16:34	1
Hexachloroethane	<0.059		0.19	0.059	mg/Kg	☼	10/25/18 07:13	10/28/18 16:34	1
Indeno[1,2,3-cd]pyrene	<0.010		0.038	0.010	mg/Kg	☼	10/25/18 07:13	10/28/18 16:34	1
Isophorone	<0.043		0.19	0.043	mg/Kg	☼	10/25/18 07:13	10/28/18 16:34	1
2-Methylnaphthalene	<0.0071		0.078	0.0071	mg/Kg	☼	10/25/18 07:13	10/28/18 16:34	1
2-Methylphenol	<0.062		0.19	0.062	mg/Kg	☼	10/25/18 07:13	10/28/18 16:34	1
3 & 4 Methylphenol	<0.065		0.19	0.065	mg/Kg	☼	10/25/18 07:13	10/28/18 16:34	1
Naphthalene	<0.0060		0.038	0.0060	mg/Kg	☼	10/25/18 07:13	10/28/18 16:34	1
2-Nitroaniline	<0.052		0.19	0.052	mg/Kg	☼	10/25/18 07:13	10/28/18 16:34	1
3-Nitroaniline	<0.12		0.38	0.12	mg/Kg	☼	10/25/18 07:13	10/28/18 16:34	1
4-Nitroaniline	<0.16		0.38	0.16	mg/Kg	☼	10/25/18 07:13	10/28/18 16:34	1
Nitrobenzene	<0.0097		0.038	0.0097	mg/Kg	☼	10/25/18 07:13	10/28/18 16:34	1
2-Nitrophenol	<0.092		0.38	0.092	mg/Kg	☼	10/25/18 07:13	10/28/18 16:34	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B29 (0-5)

Lab Sample ID: 500-153433-8

Date Collected: 10/18/18 11:30

Matrix: Solid

Date Received: 10/18/18 16:45

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.37		0.78	0.37	mg/Kg	☼	10/25/18 07:13	10/28/18 16:34	1
N-Nitrosodi-n-propylamine	<0.047		0.078	0.047	mg/Kg	☼	10/25/18 07:13	10/28/18 16:34	1
N-Nitrosodiphenylamine	<0.046		0.19	0.046	mg/Kg	☼	10/25/18 07:13	10/28/18 16:34	1
2,2'-oxybis[1-chloropropane]	<0.045		0.19	0.045	mg/Kg	☼	10/25/18 07:13	10/28/18 16:34	1
Pentachlorophenol	<0.62		0.78	0.62	mg/Kg	☼	10/25/18 07:13	10/28/18 16:34	1
Phenanthrene	<0.0054		0.038	0.0054	mg/Kg	☼	10/25/18 07:13	10/28/18 16:34	1
Phenol	<0.086		0.19	0.086	mg/Kg	☼	10/25/18 07:13	10/28/18 16:34	1
Pyrene	<0.0077		0.038	0.0077	mg/Kg	☼	10/25/18 07:13	10/28/18 16:34	1
1,2,4-Trichlorobenzene	<0.042		0.19	0.042	mg/Kg	☼	10/25/18 07:13	10/28/18 16:34	1
2,4,5-Trichlorophenol	<0.088		0.38	0.088	mg/Kg	☼	10/25/18 07:13	10/28/18 16:34	1
2,4,6-Trichlorophenol	<0.13		0.38	0.13	mg/Kg	☼	10/25/18 07:13	10/28/18 16:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	105		43 - 145	10/25/18 07:13	10/28/18 16:34	1
2-Fluorophenol	151		31 - 166	10/25/18 07:13	10/28/18 16:34	1
Nitrobenzene-d5	105		37 - 147	10/25/18 07:13	10/28/18 16:34	1
Phenol-d5	139		30 - 153	10/25/18 07:13	10/28/18 16:34	1
Terphenyl-d14	125		42 - 157	10/25/18 07:13	10/28/18 16:34	1
2,4,6-Tribromophenol	93		31 - 143	10/25/18 07:13	10/28/18 16:34	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.33	J	1.2	0.23	mg/Kg	☼	10/24/18 17:02	10/25/18 18:16	1
Arsenic	11		0.59	0.20	mg/Kg	☼	10/24/18 17:02	10/25/18 18:16	1
Barium	91		0.59	0.067	mg/Kg	☼	10/24/18 17:02	10/25/18 18:16	1
Beryllium	0.86		0.23	0.055	mg/Kg	☼	10/24/18 17:02	10/25/18 18:16	1
Cadmium	0.12	B	0.12	0.021	mg/Kg	☼	10/24/18 17:02	10/25/18 18:16	1
Chromium	20	B	0.59	0.29	mg/Kg	☼	10/24/18 17:02	10/25/18 18:16	1
Cobalt	14		0.29	0.077	mg/Kg	☼	10/24/18 17:02	10/25/18 18:16	1
Copper	20	B	0.59	0.16	mg/Kg	☼	10/24/18 17:02	10/25/18 18:16	1
Iron	24000	B	12	6.1	mg/Kg	☼	10/24/18 17:02	10/25/18 18:16	1
Lead	19		0.29	0.14	mg/Kg	☼	10/24/18 17:02	10/25/18 18:16	1
Magnesium	3900		5.9	2.9	mg/Kg	☼	10/24/18 17:02	10/25/18 18:16	1
Calcium	1900	B	12	2.0	mg/Kg	☼	10/24/18 17:02	10/25/18 18:16	1
Manganese	690	B	0.59	0.085	mg/Kg	☼	10/24/18 17:02	10/25/18 18:16	1
Nickel	32		0.59	0.17	mg/Kg	☼	10/24/18 17:02	10/25/18 18:16	1
Selenium	0.88		0.59	0.34	mg/Kg	☼	10/24/18 17:02	10/25/18 18:16	1
Silver	0.35		0.29	0.075	mg/Kg	☼	10/24/18 17:02	10/25/18 18:16	1
Thallium	<0.29		0.59	0.29	mg/Kg	☼	10/24/18 17:02	10/25/18 18:16	1
Vanadium	32		0.29	0.069	mg/Kg	☼	10/24/18 17:02	10/25/18 18:16	1
Zinc	76		1.2	0.51	mg/Kg	☼	10/24/18 17:02	10/25/18 18:16	1
Potassium	1600		29	10	mg/Kg	☼	10/24/18 17:02	10/25/18 18:16	1
Sodium	100		59	8.7	mg/Kg	☼	10/24/18 17:02	10/25/18 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		10/25/18 15:16	10/26/18 12:54	1
Barium	0.37	J	0.50	0.050	mg/L		10/25/18 15:16	10/26/18 12:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/25/18 15:16	10/26/18 12:54	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		10/25/18 15:16	10/26/18 12:54	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B29 (0-5)

Lab Sample ID: 500-153433-8

Date Collected: 10/18/18 11:30

Matrix: Solid

Date Received: 10/18/18 16:45

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	49		5.0	0.50	mg/L		10/25/18 15:16	10/26/18 12:54	1
Chromium	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:54	1
Cobalt	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:54	1
Copper	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:54	1
Iron	<0.20		0.40	0.20	mg/L		10/25/18 15:16	10/26/18 12:54	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/25/18 15:16	10/26/18 12:54	1
Magnesium	25		2.5	0.50	mg/L		10/25/18 15:16	10/26/18 12:54	1
Manganese	0.050		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:54	1
Nickel	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:54	1
Potassium	0.96	J	2.5	0.50	mg/L		10/25/18 15:16	10/26/18 12:54	1
Selenium	<0.020		0.050	0.020	mg/L		10/25/18 15:16	10/26/18 12:54	1
Silver	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:54	1
Vanadium	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:54	1
Zinc	0.026	J	0.50	0.020	mg/L		10/25/18 15:16	10/26/18 12:54	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		10/25/18 15:16	10/26/18 14:24	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/25/18 15:16	10/26/18 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		10/25/18 12:40	10/26/18 09:58	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.046		0.017	0.0058	mg/Kg	☼	10/24/18 16:40	10/25/18 09:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.19		0.54	0.19	mg/Kg	☼	10/29/18 10:50	10/29/18 15:42	1
pH	7.4		0.2	0.2	SU			10/25/18 14:58	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B28 (0-5)

Lab Sample ID: 500-153433-9

Date Collected: 10/18/18 12:00

Matrix: Solid

Date Received: 10/18/18 16:45

Percent Solids: 80.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0091		0.021	0.0091	mg/Kg	☼	10/19/18 17:43	10/29/18 02:55	1
Benzene	<0.00053		0.0021	0.00053	mg/Kg	☼	10/19/18 17:43	10/29/18 02:55	1
Bromodichloromethane	<0.00042		0.0021	0.00042	mg/Kg	☼	10/19/18 17:43	10/29/18 02:55	1
Bromoform	<0.00061		0.0021	0.00061	mg/Kg	☼	10/19/18 17:43	10/29/18 02:55	1
Bromomethane	<0.0020		0.0052	0.0020	mg/Kg	☼	10/19/18 17:43	10/29/18 02:55	1
2-Butanone (MEK)	<0.0023		0.0052	0.0023	mg/Kg	☼	10/19/18 17:43	10/29/18 02:55	1
Carbon disulfide	<0.0011		0.0052	0.0011	mg/Kg	☼	10/19/18 17:43	10/29/18 02:55	1
Carbon tetrachloride	<0.00060		0.0021	0.00060	mg/Kg	☼	10/19/18 17:43	10/29/18 02:55	1
Chlorobenzene	<0.00077		0.0021	0.00077	mg/Kg	☼	10/19/18 17:43	10/29/18 02:55	1
Chloroethane	<0.0015 *		0.0052	0.0015	mg/Kg	☼	10/19/18 17:43	10/29/18 02:55	1
Chloroform	<0.00072		0.0021	0.00072	mg/Kg	☼	10/19/18 17:43	10/29/18 02:55	1
Chloromethane	<0.0021		0.0052	0.0021	mg/Kg	☼	10/19/18 17:43	10/29/18 02:55	1
cis-1,2-Dichloroethene	<0.00058		0.0021	0.00058	mg/Kg	☼	10/19/18 17:43	10/29/18 02:55	1
cis-1,3-Dichloropropene	<0.00063		0.0021	0.00063	mg/Kg	☼	10/19/18 17:43	10/29/18 02:55	1
Dibromochloromethane	<0.00068		0.0021	0.00068	mg/Kg	☼	10/19/18 17:43	10/29/18 02:55	1
1,1-Dichloroethane	<0.00071		0.0021	0.00071	mg/Kg	☼	10/19/18 17:43	10/29/18 02:55	1
1,2-Dichloroethane	<0.0016		0.0052	0.0016	mg/Kg	☼	10/19/18 17:43	10/29/18 02:55	1
1,1-Dichloroethene	<0.00072		0.0021	0.00072	mg/Kg	☼	10/19/18 17:43	10/29/18 02:55	1
1,2-Dichloropropane	<0.00054		0.0021	0.00054	mg/Kg	☼	10/19/18 17:43	10/29/18 02:55	1
1,3-Dichloropropene, Total	<0.00073		0.0021	0.00073	mg/Kg	☼	10/19/18 17:43	10/29/18 02:55	1
Ethylbenzene	<0.0010		0.0021	0.0010	mg/Kg	☼	10/19/18 17:43	10/29/18 02:55	1
2-Hexanone	<0.0016		0.0052	0.0016	mg/Kg	☼	10/19/18 17:43	10/29/18 02:55	1
Methylene Chloride	<0.0021		0.0052	0.0021	mg/Kg	☼	10/19/18 17:43	10/29/18 02:55	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0052	0.0015	mg/Kg	☼	10/19/18 17:43	10/29/18 02:55	1
Methyl tert-butyl ether	<0.00061		0.0021	0.00061	mg/Kg	☼	10/19/18 17:43	10/29/18 02:55	1
Styrene	<0.00063		0.0021	0.00063	mg/Kg	☼	10/19/18 17:43	10/29/18 02:55	1
1,1,2,2-Tetrachloroethane	<0.00067		0.0021	0.00067	mg/Kg	☼	10/19/18 17:43	10/29/18 02:55	1
Tetrachloroethene	<0.00071		0.0021	0.00071	mg/Kg	☼	10/19/18 17:43	10/29/18 02:55	1
Toluene	<0.00053		0.0021	0.00053	mg/Kg	☼	10/19/18 17:43	10/29/18 02:55	1
trans-1,2-Dichloroethene	<0.00092		0.0021	0.00092	mg/Kg	☼	10/19/18 17:43	10/29/18 02:55	1
trans-1,3-Dichloropropene	<0.00073		0.0021	0.00073	mg/Kg	☼	10/19/18 17:43	10/29/18 02:55	1
1,1,1-Trichloroethane	<0.00070		0.0021	0.00070	mg/Kg	☼	10/19/18 17:43	10/29/18 02:55	1
1,1,2-Trichloroethane	<0.00089		0.0021	0.00089	mg/Kg	☼	10/19/18 17:43	10/29/18 02:55	1
Trichloroethene	<0.00070		0.0021	0.00070	mg/Kg	☼	10/19/18 17:43	10/29/18 02:55	1
Vinyl acetate	<0.0018		0.0052	0.0018	mg/Kg	☼	10/19/18 17:43	10/29/18 02:55	1
Vinyl chloride	<0.00092		0.0021	0.00092	mg/Kg	☼	10/19/18 17:43	10/29/18 02:55	1
Xylenes, Total	<0.00067		0.0042	0.00067	mg/Kg	☼	10/19/18 17:43	10/29/18 02:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		75 - 131	10/19/18 17:43	10/29/18 02:55	1
Dibromofluoromethane	106		75 - 126	10/19/18 17:43	10/29/18 02:55	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 134	10/19/18 17:43	10/29/18 02:55	1
Toluene-d8 (Surr)	95		75 - 124	10/19/18 17:43	10/29/18 02:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0072		0.040	0.0072	mg/Kg	☼	10/25/18 07:13	10/28/18 21:55	1
Acenaphthylene	0.011	J	0.040	0.0053	mg/Kg	☼	10/25/18 07:13	10/28/18 21:55	1
Anthracene	0.020	J	0.040	0.0067	mg/Kg	☼	10/25/18 07:13	10/28/18 21:55	1
Benzo[a]anthracene	0.11		0.040	0.0054	mg/Kg	☼	10/25/18 07:13	10/28/18 21:55	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B28 (0-5)

Lab Sample ID: 500-153433-9

Date Collected: 10/18/18 12:00

Matrix: Solid

Date Received: 10/18/18 16:45

Percent Solids: 80.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.12		0.040	0.0077	mg/Kg	☼	10/25/18 07:13	10/28/18 21:55	1
Benzo[b]fluoranthene	0.20		0.040	0.0086	mg/Kg	☼	10/25/18 07:13	10/28/18 21:55	1
Benzo[g,h,i]perylene	0.071		0.040	0.013	mg/Kg	☼	10/25/18 07:13	10/28/18 21:55	1
Benzo[k]fluoranthene	0.067		0.040	0.012	mg/Kg	☼	10/25/18 07:13	10/28/18 21:55	1
Bis(2-chloroethoxy)methane	<0.041		0.20	0.041	mg/Kg	☼	10/25/18 07:13	10/28/18 21:55	1
Bis(2-chloroethyl)ether	<0.060		0.20	0.060	mg/Kg	☼	10/25/18 07:13	10/28/18 21:55	1
Bis(2-ethylhexyl) phthalate	<0.073		0.20	0.073	mg/Kg	☼	10/25/18 07:13	10/28/18 21:55	1
4-Bromophenyl phenyl ether	<0.053		0.20	0.053	mg/Kg	☼	10/25/18 07:13	10/28/18 21:55	1
Butyl benzyl phthalate	<0.076		0.20	0.076	mg/Kg	☼	10/25/18 07:13	10/28/18 21:55	1
Carbazole	<0.10		0.20	0.10	mg/Kg	☼	10/25/18 07:13	10/28/18 21:55	1
4-Chloroaniline	<0.19		0.80	0.19	mg/Kg	☼	10/25/18 07:13	10/28/18 21:55	1
4-Chloro-3-methylphenol	<0.14		0.40	0.14	mg/Kg	☼	10/25/18 07:13	10/28/18 21:55	1
2-Chloronaphthalene	<0.044		0.20	0.044	mg/Kg	☼	10/25/18 07:13	10/28/18 21:55	1
2-Chlorophenol	<0.068		0.20	0.068	mg/Kg	☼	10/25/18 07:13	10/28/18 21:55	1
4-Chlorophenyl phenyl ether	<0.047		0.20	0.047	mg/Kg	☼	10/25/18 07:13	10/28/18 21:55	1
Chrysene	0.14		0.040	0.011	mg/Kg	☼	10/25/18 07:13	10/28/18 21:55	1
Dibenz(a,h)anthracene	0.034 J		0.040	0.0077	mg/Kg	☼	10/25/18 07:13	10/28/18 21:55	1
Dibenzofuran	<0.047		0.20	0.047	mg/Kg	☼	10/25/18 07:13	10/28/18 21:55	1
1,2-Dichlorobenzene	<0.048		0.20	0.048	mg/Kg	☼	10/25/18 07:13	10/28/18 21:55	1
1,3-Dichlorobenzene	<0.045		0.20	0.045	mg/Kg	☼	10/25/18 07:13	10/28/18 21:55	1
1,4-Dichlorobenzene	<0.051		0.20	0.051	mg/Kg	☼	10/25/18 07:13	10/28/18 21:55	1
3,3'-Dichlorobenzidine	<0.056		0.20	0.056	mg/Kg	☼	10/25/18 07:13	10/28/18 21:55	1
2,4-Dichlorophenol	<0.095		0.40	0.095	mg/Kg	☼	10/25/18 07:13	10/28/18 21:55	1
Diethyl phthalate	<0.068		0.20	0.068	mg/Kg	☼	10/25/18 07:13	10/28/18 21:55	1
2,4-Dimethylphenol	<0.15		0.40	0.15	mg/Kg	☼	10/25/18 07:13	10/28/18 21:55	1
Dimethyl phthalate	<0.052		0.20	0.052	mg/Kg	☼	10/25/18 07:13	10/28/18 21:55	1
Di-n-butyl phthalate	<0.061		0.20	0.061	mg/Kg	☼	10/25/18 07:13	10/28/18 21:55	1
4,6-Dinitro-2-methylphenol	<0.32		0.80	0.32	mg/Kg	☼	10/25/18 07:13	10/28/18 21:55	1
2,4-Dinitrophenol	<0.70		0.80	0.70	mg/Kg	☼	10/25/18 07:13	10/28/18 21:55	1
2,4-Dinitrotoluene	<0.063		0.20	0.063	mg/Kg	☼	10/25/18 07:13	10/28/18 21:55	1
2,6-Dinitrotoluene	<0.078		0.20	0.078	mg/Kg	☼	10/25/18 07:13	10/28/18 21:55	1
Di-n-octyl phthalate	<0.065		0.20	0.065	mg/Kg	☼	10/25/18 07:13	10/28/18 21:55	1
Fluoranthene	0.24		0.040	0.0074	mg/Kg	☼	10/25/18 07:13	10/28/18 21:55	1
Fluorene	<0.0056		0.040	0.0056	mg/Kg	☼	10/25/18 07:13	10/28/18 21:55	1
Hexachlorobenzene	<0.0092		0.080	0.0092	mg/Kg	☼	10/25/18 07:13	10/28/18 21:55	1
Hexachlorobutadiene	<0.063		0.20	0.063	mg/Kg	☼	10/25/18 07:13	10/28/18 21:55	1
Hexachlorocyclopentadiene	<0.23		0.80	0.23	mg/Kg	☼	10/25/18 07:13	10/28/18 21:55	1
Hexachloroethane	<0.061		0.20	0.061	mg/Kg	☼	10/25/18 07:13	10/28/18 21:55	1
Indeno[1,2,3-cd]pyrene	0.078		0.040	0.010	mg/Kg	☼	10/25/18 07:13	10/28/18 21:55	1
Isophorone	<0.045		0.20	0.045	mg/Kg	☼	10/25/18 07:13	10/28/18 21:55	1
2-Methylnaphthalene	0.0086 J		0.080	0.0073	mg/Kg	☼	10/25/18 07:13	10/28/18 21:55	1
2-Methylphenol	<0.064		0.20	0.064	mg/Kg	☼	10/25/18 07:13	10/28/18 21:55	1
3 & 4 Methylphenol	<0.066		0.20	0.066	mg/Kg	☼	10/25/18 07:13	10/28/18 21:55	1
Naphthalene	0.0085 J		0.040	0.0061	mg/Kg	☼	10/25/18 07:13	10/28/18 21:55	1
2-Nitroaniline	<0.054		0.20	0.054	mg/Kg	☼	10/25/18 07:13	10/28/18 21:55	1
3-Nitroaniline	<0.12		0.40	0.12	mg/Kg	☼	10/25/18 07:13	10/28/18 21:55	1
4-Nitroaniline	<0.17		0.40	0.17	mg/Kg	☼	10/25/18 07:13	10/28/18 21:55	1
Nitrobenzene	<0.0099		0.040	0.0099	mg/Kg	☼	10/25/18 07:13	10/28/18 21:55	1
2-Nitrophenol	<0.094		0.40	0.094	mg/Kg	☼	10/25/18 07:13	10/28/18 21:55	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B28 (0-5)

Lab Sample ID: 500-153433-9

Date Collected: 10/18/18 12:00

Matrix: Solid

Date Received: 10/18/18 16:45

Percent Solids: 80.8

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	☼	10/25/18 07:13	10/28/18 21:55	1
N-Nitrosodi-n-propylamine	<0.049		0.080	0.049	mg/Kg	☼	10/25/18 07:13	10/28/18 21:55	1
N-Nitrosodiphenylamine	<0.047		0.20	0.047	mg/Kg	☼	10/25/18 07:13	10/28/18 21:55	1
2,2'-oxybis[1-chloropropane]	<0.046		0.20	0.046	mg/Kg	☼	10/25/18 07:13	10/28/18 21:55	1
Pentachlorophenol	<0.64		0.80	0.64	mg/Kg	☼	10/25/18 07:13	10/28/18 21:55	1
Phenanthrene	0.092		0.040	0.0056	mg/Kg	☼	10/25/18 07:13	10/28/18 21:55	1
Phenol	<0.089		0.20	0.089	mg/Kg	☼	10/25/18 07:13	10/28/18 21:55	1
Pyrene	0.21		0.040	0.0079	mg/Kg	☼	10/25/18 07:13	10/28/18 21:55	1
1,2,4-Trichlorobenzene	<0.043		0.20	0.043	mg/Kg	☼	10/25/18 07:13	10/28/18 21:55	1
2,4,5-Trichlorophenol	<0.091		0.40	0.091	mg/Kg	☼	10/25/18 07:13	10/28/18 21:55	1
2,4,6-Trichlorophenol	<0.14		0.40	0.14	mg/Kg	☼	10/25/18 07:13	10/28/18 21:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	91		43 - 145	10/25/18 07:13	10/28/18 21:55	1
2-Fluorophenol	121		31 - 166	10/25/18 07:13	10/28/18 21:55	1
Nitrobenzene-d5	86		37 - 147	10/25/18 07:13	10/28/18 21:55	1
Phenol-d5	112		30 - 153	10/25/18 07:13	10/28/18 21:55	1
Terphenyl-d14	94		42 - 157	10/25/18 07:13	10/28/18 21:55	1
2,4,6-Tribromophenol	74		31 - 143	10/25/18 07:13	10/28/18 21:55	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.25	J	1.2	0.24	mg/Kg	☼	10/24/18 17:02	10/25/18 18:20	1
Arsenic	6.9		0.61	0.21	mg/Kg	☼	10/24/18 17:02	10/25/18 18:20	1
Barium	96		0.61	0.070	mg/Kg	☼	10/24/18 17:02	10/25/18 18:20	1
Beryllium	0.65		0.25	0.057	mg/Kg	☼	10/24/18 17:02	10/25/18 18:20	1
Cadmium	0.38	B	0.12	0.022	mg/Kg	☼	10/24/18 17:02	10/25/18 18:20	1
Chromium	17	B	0.61	0.30	mg/Kg	☼	10/24/18 17:02	10/25/18 18:20	1
Cobalt	9.2		0.31	0.080	mg/Kg	☼	10/24/18 17:02	10/25/18 18:20	1
Copper	18	B	0.61	0.17	mg/Kg	☼	10/24/18 17:02	10/25/18 18:20	1
Iron	16000	B	12	6.4	mg/Kg	☼	10/24/18 17:02	10/25/18 18:20	1
Lead	85		0.31	0.14	mg/Kg	☼	10/24/18 17:02	10/25/18 18:20	1
Magnesium	10000		6.1	3.0	mg/Kg	☼	10/24/18 17:02	10/25/18 18:20	1
Calcium	15000	B	12	2.1	mg/Kg	☼	10/24/18 17:02	10/25/18 18:20	1
Manganese	570	B	0.61	0.089	mg/Kg	☼	10/24/18 17:02	10/25/18 18:20	1
Nickel	20		0.61	0.18	mg/Kg	☼	10/24/18 17:02	10/25/18 18:20	1
Selenium	0.64		0.61	0.36	mg/Kg	☼	10/24/18 17:02	10/25/18 18:20	1
Silver	0.23	J	0.31	0.079	mg/Kg	☼	10/24/18 17:02	10/25/18 18:20	1
Thallium	<0.31		0.61	0.31	mg/Kg	☼	10/24/18 17:02	10/25/18 18:20	1
Vanadium	24		0.31	0.072	mg/Kg	☼	10/24/18 17:02	10/25/18 18:20	1
Zinc	90		1.2	0.54	mg/Kg	☼	10/24/18 17:02	10/25/18 18:20	1
Potassium	1600		31	11	mg/Kg	☼	10/24/18 17:02	10/25/18 18:20	1
Sodium	260		61	9.1	mg/Kg	☼	10/24/18 17:02	10/25/18 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		10/25/18 15:16	10/26/18 12:58	1
Barium	0.70		0.50	0.050	mg/L		10/25/18 15:16	10/26/18 12:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/25/18 15:16	10/26/18 12:58	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		10/25/18 15:16	10/26/18 12:58	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B28 (0-5)

Lab Sample ID: 500-153433-9

Date Collected: 10/18/18 12:00

Matrix: Solid

Date Received: 10/18/18 16:45

Percent Solids: 80.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	290		5.0	0.50	mg/L		10/25/18 15:16	10/26/18 12:58	1
Chromium	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:58	1
Cobalt	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:58	1
Copper	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:58	1
Iron	<0.20		0.40	0.20	mg/L		10/25/18 15:16	10/26/18 12:58	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/25/18 15:16	10/26/18 12:58	1
Magnesium	160		2.5	0.50	mg/L		10/25/18 15:16	10/26/18 12:58	1
Manganese	0.10		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:58	1
Nickel	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:58	1
Potassium	1.7 J		2.5	0.50	mg/L		10/25/18 15:16	10/26/18 12:58	1
Selenium	<0.020		0.050	0.020	mg/L		10/25/18 15:16	10/26/18 12:58	1
Silver	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:58	1
Vanadium	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 12:58	1
Zinc	0.40 J		0.50	0.020	mg/L		10/25/18 15:16	10/26/18 12:58	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		10/25/18 15:16	10/26/18 14:25	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/25/18 15:16	10/26/18 14:25	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		10/25/18 12:40	10/26/18 10:00	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034		0.019	0.0064	mg/Kg	☼	10/24/18 16:40	10/25/18 09:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.21		0.60	0.21	mg/Kg	☼	10/29/18 10:50	10/29/18 15:42	1
pH	7.8		0.2	0.2	SU			10/25/18 15:02	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B24 (0-5)

Lab Sample ID: 500-153433-10

Date Collected: 10/18/18 12:55

Matrix: Solid

Date Received: 10/18/18 16:45

Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0088		0.020	0.0088	mg/Kg	☼	10/19/18 17:43	10/29/18 03:21	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg	☼	10/19/18 17:43	10/29/18 03:21	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg	☼	10/19/18 17:43	10/29/18 03:21	1
Bromoform	<0.00059		0.0020	0.00059	mg/Kg	☼	10/19/18 17:43	10/29/18 03:21	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg	☼	10/19/18 17:43	10/29/18 03:21	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg	☼	10/19/18 17:43	10/29/18 03:21	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg	☼	10/19/18 17:43	10/29/18 03:21	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg	☼	10/19/18 17:43	10/29/18 03:21	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg	☼	10/19/18 17:43	10/29/18 03:21	1
Chloroethane	<0.0015	*	0.0050	0.0015	mg/Kg	☼	10/19/18 17:43	10/29/18 03:21	1
Chloroform	<0.00070		0.0020	0.00070	mg/Kg	☼	10/19/18 17:43	10/29/18 03:21	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg	☼	10/19/18 17:43	10/29/18 03:21	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg	☼	10/19/18 17:43	10/29/18 03:21	1
cis-1,3-Dichloropropene	<0.00061		0.0020	0.00061	mg/Kg	☼	10/19/18 17:43	10/29/18 03:21	1
Dibromochloromethane	<0.00066		0.0020	0.00066	mg/Kg	☼	10/19/18 17:43	10/29/18 03:21	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg	☼	10/19/18 17:43	10/29/18 03:21	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg	☼	10/19/18 17:43	10/29/18 03:21	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg	☼	10/19/18 17:43	10/29/18 03:21	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg	☼	10/19/18 17:43	10/29/18 03:21	1
1,3-Dichloropropene, Total	<0.00071		0.0020	0.00071	mg/Kg	☼	10/19/18 17:43	10/29/18 03:21	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg	☼	10/19/18 17:43	10/29/18 03:21	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg	☼	10/19/18 17:43	10/29/18 03:21	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg	☼	10/19/18 17:43	10/29/18 03:21	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg	☼	10/19/18 17:43	10/29/18 03:21	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg	☼	10/19/18 17:43	10/29/18 03:21	1
Styrene	<0.00061		0.0020	0.00061	mg/Kg	☼	10/19/18 17:43	10/29/18 03:21	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg	☼	10/19/18 17:43	10/29/18 03:21	1
Tetrachloroethene	<0.00069		0.0020	0.00069	mg/Kg	☼	10/19/18 17:43	10/29/18 03:21	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg	☼	10/19/18 17:43	10/29/18 03:21	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg	☼	10/19/18 17:43	10/29/18 03:21	1
trans-1,3-Dichloropropene	<0.00071		0.0020	0.00071	mg/Kg	☼	10/19/18 17:43	10/29/18 03:21	1
1,1,1-Trichloroethane	<0.00068		0.0020	0.00068	mg/Kg	☼	10/19/18 17:43	10/29/18 03:21	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg	☼	10/19/18 17:43	10/29/18 03:21	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg	☼	10/19/18 17:43	10/29/18 03:21	1
Vinyl acetate	<0.0018		0.0050	0.0018	mg/Kg	☼	10/19/18 17:43	10/29/18 03:21	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg	☼	10/19/18 17:43	10/29/18 03:21	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg	☼	10/19/18 17:43	10/29/18 03:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		75 - 131	10/19/18 17:43	10/29/18 03:21	1
Dibromofluoromethane	106		75 - 126	10/19/18 17:43	10/29/18 03:21	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134	10/19/18 17:43	10/29/18 03:21	1
Toluene-d8 (Surr)	95		75 - 124	10/19/18 17:43	10/29/18 03:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0071		0.039	0.0071	mg/Kg	☼	10/25/18 07:13	10/28/18 19:42	1
Acenaphthylene	0.0058	J	0.039	0.0052	mg/Kg	☼	10/25/18 07:13	10/28/18 19:42	1
Anthracene	0.0098	J	0.039	0.0066	mg/Kg	☼	10/25/18 07:13	10/28/18 19:42	1
Benzo[a]anthracene	0.044		0.039	0.0053	mg/Kg	☼	10/25/18 07:13	10/28/18 19:42	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B24 (0-5)

Lab Sample ID: 500-153433-10

Date Collected: 10/18/18 12:55

Matrix: Solid

Date Received: 10/18/18 16:45

Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.064		0.039	0.0077	mg/Kg	☼	10/25/18 07:13	10/28/18 19:42	1
Benzo[b]fluoranthene	0.090		0.039	0.0086	mg/Kg	☼	10/25/18 07:13	10/28/18 19:42	1
Benzo[g,h,i]perylene	0.056		0.039	0.013	mg/Kg	☼	10/25/18 07:13	10/28/18 19:42	1
Benzo[k]fluoranthene	0.024	J	0.039	0.012	mg/Kg	☼	10/25/18 07:13	10/28/18 19:42	1
Bis(2-chloroethoxy)methane	<0.041		0.20	0.041	mg/Kg	☼	10/25/18 07:13	10/28/18 19:42	1
Bis(2-chloroethyl)ether	<0.060		0.20	0.060	mg/Kg	☼	10/25/18 07:13	10/28/18 19:42	1
Bis(2-ethylhexyl) phthalate	<0.073		0.20	0.073	mg/Kg	☼	10/25/18 07:13	10/28/18 19:42	1
4-Bromophenyl phenyl ether	<0.052		0.20	0.052	mg/Kg	☼	10/25/18 07:13	10/28/18 19:42	1
Butyl benzyl phthalate	<0.076		0.20	0.076	mg/Kg	☼	10/25/18 07:13	10/28/18 19:42	1
Carbazole	<0.099		0.20	0.099	mg/Kg	☼	10/25/18 07:13	10/28/18 19:42	1
4-Chloroaniline	<0.19		0.80	0.19	mg/Kg	☼	10/25/18 07:13	10/28/18 19:42	1
4-Chloro-3-methylphenol	<0.14		0.39	0.14	mg/Kg	☼	10/25/18 07:13	10/28/18 19:42	1
2-Chloronaphthalene	<0.044		0.20	0.044	mg/Kg	☼	10/25/18 07:13	10/28/18 19:42	1
2-Chlorophenol	<0.068		0.20	0.068	mg/Kg	☼	10/25/18 07:13	10/28/18 19:42	1
4-Chlorophenyl phenyl ether	<0.046		0.20	0.046	mg/Kg	☼	10/25/18 07:13	10/28/18 19:42	1
Chrysene	0.057		0.039	0.011	mg/Kg	☼	10/25/18 07:13	10/28/18 19:42	1
Dibenz(a,h)anthracene	0.028	J	0.039	0.0077	mg/Kg	☼	10/25/18 07:13	10/28/18 19:42	1
Dibenzofuran	<0.047		0.20	0.047	mg/Kg	☼	10/25/18 07:13	10/28/18 19:42	1
1,2-Dichlorobenzene	<0.048		0.20	0.048	mg/Kg	☼	10/25/18 07:13	10/28/18 19:42	1
1,3-Dichlorobenzene	<0.045		0.20	0.045	mg/Kg	☼	10/25/18 07:13	10/28/18 19:42	1
1,4-Dichlorobenzene	<0.051		0.20	0.051	mg/Kg	☼	10/25/18 07:13	10/28/18 19:42	1
3,3'-Dichlorobenzidine	<0.056		0.20	0.056	mg/Kg	☼	10/25/18 07:13	10/28/18 19:42	1
2,4-Dichlorophenol	<0.094		0.39	0.094	mg/Kg	☼	10/25/18 07:13	10/28/18 19:42	1
Diethyl phthalate	<0.067		0.20	0.067	mg/Kg	☼	10/25/18 07:13	10/28/18 19:42	1
2,4-Dimethylphenol	<0.15		0.39	0.15	mg/Kg	☼	10/25/18 07:13	10/28/18 19:42	1
Dimethyl phthalate	<0.052		0.20	0.052	mg/Kg	☼	10/25/18 07:13	10/28/18 19:42	1
Di-n-butyl phthalate	<0.061		0.20	0.061	mg/Kg	☼	10/25/18 07:13	10/28/18 19:42	1
4,6-Dinitro-2-methylphenol	<0.32		0.80	0.32	mg/Kg	☼	10/25/18 07:13	10/28/18 19:42	1
2,4-Dinitrophenol	<0.70		0.80	0.70	mg/Kg	☼	10/25/18 07:13	10/28/18 19:42	1
2,4-Dinitrotoluene	<0.063		0.20	0.063	mg/Kg	☼	10/25/18 07:13	10/28/18 19:42	1
2,6-Dinitrotoluene	<0.078		0.20	0.078	mg/Kg	☼	10/25/18 07:13	10/28/18 19:42	1
Di-n-octyl phthalate	<0.065		0.20	0.065	mg/Kg	☼	10/25/18 07:13	10/28/18 19:42	1
Fluoranthene	0.088		0.039	0.0074	mg/Kg	☼	10/25/18 07:13	10/28/18 19:42	1
Fluorene	<0.0056		0.039	0.0056	mg/Kg	☼	10/25/18 07:13	10/28/18 19:42	1
Hexachlorobenzene	<0.0092		0.080	0.0092	mg/Kg	☼	10/25/18 07:13	10/28/18 19:42	1
Hexachlorobutadiene	<0.062		0.20	0.062	mg/Kg	☼	10/25/18 07:13	10/28/18 19:42	1
Hexachlorocyclopentadiene	<0.23		0.80	0.23	mg/Kg	☼	10/25/18 07:13	10/28/18 19:42	1
Hexachloroethane	<0.060		0.20	0.060	mg/Kg	☼	10/25/18 07:13	10/28/18 19:42	1
Indeno[1,2,3-cd]pyrene	0.056		0.039	0.010	mg/Kg	☼	10/25/18 07:13	10/28/18 19:42	1
Isophorone	<0.045		0.20	0.045	mg/Kg	☼	10/25/18 07:13	10/28/18 19:42	1
2-Methylnaphthalene	<0.0073		0.080	0.0073	mg/Kg	☼	10/25/18 07:13	10/28/18 19:42	1
2-Methylphenol	<0.064		0.20	0.064	mg/Kg	☼	10/25/18 07:13	10/28/18 19:42	1
3 & 4 Methylphenol	<0.066		0.20	0.066	mg/Kg	☼	10/25/18 07:13	10/28/18 19:42	1
Naphthalene	<0.0061		0.039	0.0061	mg/Kg	☼	10/25/18 07:13	10/28/18 19:42	1
2-Nitroaniline	<0.053		0.20	0.053	mg/Kg	☼	10/25/18 07:13	10/28/18 19:42	1
3-Nitroaniline	<0.12		0.39	0.12	mg/Kg	☼	10/25/18 07:13	10/28/18 19:42	1
4-Nitroaniline	<0.17		0.39	0.17	mg/Kg	☼	10/25/18 07:13	10/28/18 19:42	1
Nitrobenzene	<0.0099		0.039	0.0099	mg/Kg	☼	10/25/18 07:13	10/28/18 19:42	1
2-Nitrophenol	<0.094		0.39	0.094	mg/Kg	☼	10/25/18 07:13	10/28/18 19:42	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B24 (0-5)

Lab Sample ID: 500-153433-10

Date Collected: 10/18/18 12:55

Matrix: Solid

Date Received: 10/18/18 16:45

Percent Solids: 80.3

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	☼	10/25/18 07:13	10/28/18 19:42	1
N-Nitrosodi-n-propylamine	<0.049		0.080	0.049	mg/Kg	☼	10/25/18 07:13	10/28/18 19:42	1
N-Nitrosodiphenylamine	<0.047		0.20	0.047	mg/Kg	☼	10/25/18 07:13	10/28/18 19:42	1
2,2'-oxybis[1-chloropropane]	<0.046		0.20	0.046	mg/Kg	☼	10/25/18 07:13	10/28/18 19:42	1
Pentachlorophenol	<0.64		0.80	0.64	mg/Kg	☼	10/25/18 07:13	10/28/18 19:42	1
Phenanthrene	0.031	J	0.039	0.0055	mg/Kg	☼	10/25/18 07:13	10/28/18 19:42	1
Phenol	<0.088		0.20	0.088	mg/Kg	☼	10/25/18 07:13	10/28/18 19:42	1
Pyrene	0.080		0.039	0.0079	mg/Kg	☼	10/25/18 07:13	10/28/18 19:42	1
1,2,4-Trichlorobenzene	<0.043		0.20	0.043	mg/Kg	☼	10/25/18 07:13	10/28/18 19:42	1
2,4,5-Trichlorophenol	<0.091		0.39	0.091	mg/Kg	☼	10/25/18 07:13	10/28/18 19:42	1
2,4,6-Trichlorophenol	<0.14		0.39	0.14	mg/Kg	☼	10/25/18 07:13	10/28/18 19:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	106		43 - 145				10/25/18 07:13	10/28/18 19:42	1
2-Fluorophenol	152		31 - 166				10/25/18 07:13	10/28/18 19:42	1
Nitrobenzene-d5	103		37 - 147				10/25/18 07:13	10/28/18 19:42	1
Phenol-d5	141		30 - 153				10/25/18 07:13	10/28/18 19:42	1
Terphenyl-d14	117		42 - 157				10/25/18 07:13	10/28/18 19:42	1
2,4,6-Tribromophenol	67		31 - 143				10/25/18 07:13	10/28/18 19:42	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		6.0	1.2	mg/Kg	☼	10/24/18 17:02	10/26/18 11:32	5
Arsenic	13		3.0	1.0	mg/Kg	☼	10/24/18 17:02	10/26/18 11:32	5
Barium	94		3.0	0.34	mg/Kg	☼	10/24/18 17:02	10/26/18 11:32	5
Beryllium	1.1	J	1.2	0.28	mg/Kg	☼	10/24/18 17:02	10/26/18 11:32	5
Cadmium	0.26	J B	0.60	0.11	mg/Kg	☼	10/24/18 17:02	10/26/18 11:32	5
Chromium	25	B	3.0	1.5	mg/Kg	☼	10/24/18 17:02	10/26/18 11:32	5
Cobalt	11		0.30	0.079	mg/Kg	☼	10/24/18 17:02	10/25/18 18:32	1
Copper	23	B	3.0	0.84	mg/Kg	☼	10/24/18 17:02	10/26/18 11:32	5
Iron	29000	B	60	31	mg/Kg	☼	10/24/18 17:02	10/26/18 11:32	5
Lead	26		0.30	0.14	mg/Kg	☼	10/24/18 17:02	10/25/18 18:32	1
Magnesium	5900		30	15	mg/Kg	☼	10/24/18 17:02	10/26/18 11:32	5
Calcium	5900	B	60	10	mg/Kg	☼	10/24/18 17:02	10/26/18 11:32	5
Manganese	980	B	3.0	0.44	mg/Kg	☼	10/24/18 17:02	10/26/18 11:32	5
Nickel	40		0.60	0.17	mg/Kg	☼	10/24/18 17:02	10/25/18 18:32	1
Selenium	<1.8		3.0	1.8	mg/Kg	☼	10/24/18 17:02	10/26/18 11:32	5
Silver	0.44	J	1.5	0.39	mg/Kg	☼	10/24/18 17:02	10/26/18 11:32	5
Thallium	<0.30		0.60	0.30	mg/Kg	☼	10/24/18 17:02	10/25/18 18:32	1
Vanadium	31		1.5	0.35	mg/Kg	☼	10/24/18 17:02	10/26/18 11:32	5
Zinc	160		1.2	0.53	mg/Kg	☼	10/24/18 17:02	10/25/18 18:32	1
Potassium	3100		150	53	mg/Kg	☼	10/24/18 17:02	10/26/18 11:32	5
Sodium	1000		300	44	mg/Kg	☼	10/24/18 17:02	10/26/18 11:32	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		10/25/18 15:16	10/26/18 13:02	1
Barium	0.59		0.50	0.050	mg/L		10/25/18 15:16	10/26/18 13:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/25/18 15:16	10/26/18 13:02	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		10/25/18 15:16	10/26/18 13:02	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B24 (0-5)

Lab Sample ID: 500-153433-10

Date Collected: 10/18/18 12:55

Matrix: Solid

Date Received: 10/18/18 16:45

Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	220		5.0	0.50	mg/L		10/25/18 15:16	10/26/18 13:02	1
Chromium	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 13:02	1
Cobalt	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 13:02	1
Copper	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 13:02	1
Iron	<0.20		0.40	0.20	mg/L		10/25/18 15:16	10/26/18 13:02	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/25/18 15:16	10/26/18 13:02	1
Magnesium	120		2.5	0.50	mg/L		10/25/18 15:16	10/26/18 13:02	1
Manganese	4.5		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 13:02	1
Nickel	0.033		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 13:02	1
Potassium	2.4 J		2.5	0.50	mg/L		10/25/18 15:16	10/26/18 13:02	1
Selenium	<0.020		0.050	0.020	mg/L		10/25/18 15:16	10/26/18 13:02	1
Silver	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 13:02	1
Vanadium	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 13:02	1
Zinc	1.4		0.50	0.020	mg/L		10/25/18 15:16	10/26/18 13:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	3.7		0.025	0.010	mg/L		10/29/18 08:53	10/29/18 18:44	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		10/25/18 15:16	10/26/18 14:29	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/25/18 15:16	10/26/18 14:29	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		10/25/18 12:40	10/26/18 10:02	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.050		0.020	0.0068	mg/Kg	☼	10/24/18 16:40	10/25/18 09:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.21		0.60	0.21	mg/Kg	☼	10/29/18 10:50	10/29/18 15:43	1
pH	7.9		0.2	0.2	SU			10/25/18 15:06	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B23 (0-5)

Lab Sample ID: 500-153433-11

Date Collected: 10/18/18 13:20

Matrix: Solid

Date Received: 10/18/18 16:45

Percent Solids: 81.8

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	☼	10/19/18 17:43	10/29/18 03:46	1
Benzene	<0.00049		0.0019	0.00049	mg/Kg	☼	10/19/18 17:43	10/29/18 03:46	1
Bromodichloromethane	<0.00039		0.0019	0.00039	mg/Kg	☼	10/19/18 17:43	10/29/18 03:46	1
Bromoform	<0.00056		0.0019	0.00056	mg/Kg	☼	10/19/18 17:43	10/29/18 03:46	1
Bromomethane	<0.0018		0.0048	0.0018	mg/Kg	☼	10/19/18 17:43	10/29/18 03:46	1
2-Butanone (MEK)	<0.0021		0.0048	0.0021	mg/Kg	☼	10/19/18 17:43	10/29/18 03:46	1
Carbon disulfide	<0.0010		0.0048	0.0010	mg/Kg	☼	10/19/18 17:43	10/29/18 03:46	1
Carbon tetrachloride	<0.00056		0.0019	0.00056	mg/Kg	☼	10/19/18 17:43	10/29/18 03:46	1
Chlorobenzene	<0.00071		0.0019	0.00071	mg/Kg	☼	10/19/18 17:43	10/29/18 03:46	1
Chloroethane	<0.0014	*	0.0048	0.0014	mg/Kg	☼	10/19/18 17:43	10/29/18 03:46	1
Chloroform	0.00075	J	0.0019	0.00067	mg/Kg	☼	10/19/18 17:43	10/29/18 03:46	1
Chloromethane	<0.0019		0.0048	0.0019	mg/Kg	☼	10/19/18 17:43	10/29/18 03:46	1
cis-1,2-Dichloroethene	<0.00054		0.0019	0.00054	mg/Kg	☼	10/19/18 17:43	10/29/18 03:46	1
cis-1,3-Dichloropropene	<0.00058		0.0019	0.00058	mg/Kg	☼	10/19/18 17:43	10/29/18 03:46	1
Dibromochloromethane	<0.00063		0.0019	0.00063	mg/Kg	☼	10/19/18 17:43	10/29/18 03:46	1
1,1-Dichloroethane	<0.00066		0.0019	0.00066	mg/Kg	☼	10/19/18 17:43	10/29/18 03:46	1
1,2-Dichloroethane	<0.0015		0.0048	0.0015	mg/Kg	☼	10/19/18 17:43	10/29/18 03:46	1
1,1-Dichloroethene	<0.00067		0.0019	0.00067	mg/Kg	☼	10/19/18 17:43	10/29/18 03:46	1
1,2-Dichloropropane	<0.00050		0.0019	0.00050	mg/Kg	☼	10/19/18 17:43	10/29/18 03:46	1
1,3-Dichloropropene, Total	<0.00068		0.0019	0.00068	mg/Kg	☼	10/19/18 17:43	10/29/18 03:46	1
Ethylbenzene	<0.00093		0.0019	0.00093	mg/Kg	☼	10/19/18 17:43	10/29/18 03:46	1
2-Hexanone	<0.0015		0.0048	0.0015	mg/Kg	☼	10/19/18 17:43	10/29/18 03:46	1
Methylene Chloride	<0.0019		0.0048	0.0019	mg/Kg	☼	10/19/18 17:43	10/29/18 03:46	1
4-Methyl-2-pentanone (MIBK)	<0.0014		0.0048	0.0014	mg/Kg	☼	10/19/18 17:43	10/29/18 03:46	1
Methyl tert-butyl ether	<0.00057		0.0019	0.00057	mg/Kg	☼	10/19/18 17:43	10/29/18 03:46	1
Styrene	<0.00058		0.0019	0.00058	mg/Kg	☼	10/19/18 17:43	10/29/18 03:46	1
1,1,2,2-Tetrachloroethane	<0.00062		0.0019	0.00062	mg/Kg	☼	10/19/18 17:43	10/29/18 03:46	1
Tetrachloroethene	<0.00066		0.0019	0.00066	mg/Kg	☼	10/19/18 17:43	10/29/18 03:46	1
Toluene	<0.00049		0.0019	0.00049	mg/Kg	☼	10/19/18 17:43	10/29/18 03:46	1
trans-1,2-Dichloroethene	<0.00086		0.0019	0.00086	mg/Kg	☼	10/19/18 17:43	10/29/18 03:46	1
trans-1,3-Dichloropropene	<0.00068		0.0019	0.00068	mg/Kg	☼	10/19/18 17:43	10/29/18 03:46	1
1,1,1-Trichloroethane	<0.00065		0.0019	0.00065	mg/Kg	☼	10/19/18 17:43	10/29/18 03:46	1
1,1,2-Trichloroethane	<0.00083		0.0019	0.00083	mg/Kg	☼	10/19/18 17:43	10/29/18 03:46	1
Trichloroethene	<0.00065		0.0019	0.00065	mg/Kg	☼	10/19/18 17:43	10/29/18 03:46	1
Vinyl acetate	<0.0017		0.0048	0.0017	mg/Kg	☼	10/19/18 17:43	10/29/18 03:46	1
Vinyl chloride	<0.00086		0.0019	0.00086	mg/Kg	☼	10/19/18 17:43	10/29/18 03:46	1
Xylenes, Total	<0.00062		0.0039	0.00062	mg/Kg	☼	10/19/18 17:43	10/29/18 03:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		75 - 131	10/19/18 17:43	10/29/18 03:46	1
Dibromofluoromethane	106		75 - 126	10/19/18 17:43	10/29/18 03:46	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134	10/19/18 17:43	10/29/18 03:46	1
Toluene-d8 (Surr)	96		75 - 124	10/19/18 17:43	10/29/18 03:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0071		0.039	0.0071	mg/Kg	☼	10/25/18 07:13	10/28/18 20:08	1
Acenaphthylene	0.0085	J	0.039	0.0052	mg/Kg	☼	10/25/18 07:13	10/28/18 20:08	1
Anthracene	<0.0066		0.039	0.0066	mg/Kg	☼	10/25/18 07:13	10/28/18 20:08	1
Benzo[a]anthracene	0.019	J	0.039	0.0053	mg/Kg	☼	10/25/18 07:13	10/28/18 20:08	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B23 (0-5)

Lab Sample ID: 500-153433-11

Date Collected: 10/18/18 13:20

Matrix: Solid

Date Received: 10/18/18 16:45

Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.037	J	0.039	0.0077	mg/Kg	☼	10/25/18 07:13	10/28/18 20:08	1
Benzo[b]fluoranthene	0.036	J	0.039	0.0086	mg/Kg	☼	10/25/18 07:13	10/28/18 20:08	1
Benzo[g,h,i]perylene	0.027	J	0.039	0.013	mg/Kg	☼	10/25/18 07:13	10/28/18 20:08	1
Benzo[k]fluoranthene	0.012	J	0.039	0.012	mg/Kg	☼	10/25/18 07:13	10/28/18 20:08	1
Bis(2-chloroethoxy)methane	<0.040		0.20	0.040	mg/Kg	☼	10/25/18 07:13	10/28/18 20:08	1
Bis(2-chloroethyl)ether	<0.059		0.20	0.059	mg/Kg	☼	10/25/18 07:13	10/28/18 20:08	1
Bis(2-ethylhexyl) phthalate	<0.073		0.20	0.073	mg/Kg	☼	10/25/18 07:13	10/28/18 20:08	1
4-Bromophenyl phenyl ether	<0.052		0.20	0.052	mg/Kg	☼	10/25/18 07:13	10/28/18 20:08	1
Butyl benzyl phthalate	<0.075		0.20	0.075	mg/Kg	☼	10/25/18 07:13	10/28/18 20:08	1
Carbazole	<0.099		0.20	0.099	mg/Kg	☼	10/25/18 07:13	10/28/18 20:08	1
4-Chloroaniline	<0.19		0.80	0.19	mg/Kg	☼	10/25/18 07:13	10/28/18 20:08	1
4-Chloro-3-methylphenol	<0.13		0.39	0.13	mg/Kg	☼	10/25/18 07:13	10/28/18 20:08	1
2-Chloronaphthalene	<0.044		0.20	0.044	mg/Kg	☼	10/25/18 07:13	10/28/18 20:08	1
2-Chlorophenol	<0.068		0.20	0.068	mg/Kg	☼	10/25/18 07:13	10/28/18 20:08	1
4-Chlorophenyl phenyl ether	<0.046		0.20	0.046	mg/Kg	☼	10/25/18 07:13	10/28/18 20:08	1
Chrysene	0.023	J	0.039	0.011	mg/Kg	☼	10/25/18 07:13	10/28/18 20:08	1
Dibenz(a,h)anthracene	<0.0077		0.039	0.0077	mg/Kg	☼	10/25/18 07:13	10/28/18 20:08	1
Dibenzofuran	<0.046		0.20	0.046	mg/Kg	☼	10/25/18 07:13	10/28/18 20:08	1
1,2-Dichlorobenzene	<0.047		0.20	0.047	mg/Kg	☼	10/25/18 07:13	10/28/18 20:08	1
1,3-Dichlorobenzene	<0.045		0.20	0.045	mg/Kg	☼	10/25/18 07:13	10/28/18 20:08	1
1,4-Dichlorobenzene	<0.051		0.20	0.051	mg/Kg	☼	10/25/18 07:13	10/28/18 20:08	1
3,3'-Dichlorobenzidine	<0.056		0.20	0.056	mg/Kg	☼	10/25/18 07:13	10/28/18 20:08	1
2,4-Dichlorophenol	<0.094		0.39	0.094	mg/Kg	☼	10/25/18 07:13	10/28/18 20:08	1
Diethyl phthalate	<0.067		0.20	0.067	mg/Kg	☼	10/25/18 07:13	10/28/18 20:08	1
2,4-Dimethylphenol	<0.15		0.39	0.15	mg/Kg	☼	10/25/18 07:13	10/28/18 20:08	1
Dimethyl phthalate	<0.052		0.20	0.052	mg/Kg	☼	10/25/18 07:13	10/28/18 20:08	1
Di-n-butyl phthalate	<0.060		0.20	0.060	mg/Kg	☼	10/25/18 07:13	10/28/18 20:08	1
4,6-Dinitro-2-methylphenol	<0.32		0.80	0.32	mg/Kg	☼	10/25/18 07:13	10/28/18 20:08	1
2,4-Dinitrophenol	<0.70		0.80	0.70	mg/Kg	☼	10/25/18 07:13	10/28/18 20:08	1
2,4-Dinitrotoluene	<0.063		0.20	0.063	mg/Kg	☼	10/25/18 07:13	10/28/18 20:08	1
2,6-Dinitrotoluene	<0.078		0.20	0.078	mg/Kg	☼	10/25/18 07:13	10/28/18 20:08	1
Di-n-octyl phthalate	<0.065		0.20	0.065	mg/Kg	☼	10/25/18 07:13	10/28/18 20:08	1
Fluoranthene	0.032	J	0.039	0.0074	mg/Kg	☼	10/25/18 07:13	10/28/18 20:08	1
Fluorene	<0.0056		0.039	0.0056	mg/Kg	☼	10/25/18 07:13	10/28/18 20:08	1
Hexachlorobenzene	<0.0092		0.080	0.0092	mg/Kg	☼	10/25/18 07:13	10/28/18 20:08	1
Hexachlorobutadiene	<0.062		0.20	0.062	mg/Kg	☼	10/25/18 07:13	10/28/18 20:08	1
Hexachlorocyclopentadiene	<0.23		0.80	0.23	mg/Kg	☼	10/25/18 07:13	10/28/18 20:08	1
Hexachloroethane	<0.060		0.20	0.060	mg/Kg	☼	10/25/18 07:13	10/28/18 20:08	1
Indeno[1,2,3-cd]pyrene	0.034	J	0.039	0.010	mg/Kg	☼	10/25/18 07:13	10/28/18 20:08	1
Isophorone	<0.045		0.20	0.045	mg/Kg	☼	10/25/18 07:13	10/28/18 20:08	1
2-Methylnaphthalene	<0.0073		0.080	0.0073	mg/Kg	☼	10/25/18 07:13	10/28/18 20:08	1
2-Methylphenol	<0.064		0.20	0.064	mg/Kg	☼	10/25/18 07:13	10/28/18 20:08	1
3 & 4 Methylphenol	<0.066		0.20	0.066	mg/Kg	☼	10/25/18 07:13	10/28/18 20:08	1
Naphthalene	<0.0061		0.039	0.0061	mg/Kg	☼	10/25/18 07:13	10/28/18 20:08	1
2-Nitroaniline	<0.053		0.20	0.053	mg/Kg	☼	10/25/18 07:13	10/28/18 20:08	1
3-Nitroaniline	<0.12		0.39	0.12	mg/Kg	☼	10/25/18 07:13	10/28/18 20:08	1
4-Nitroaniline	<0.17		0.39	0.17	mg/Kg	☼	10/25/18 07:13	10/28/18 20:08	1
Nitrobenzene	<0.0099		0.039	0.0099	mg/Kg	☼	10/25/18 07:13	10/28/18 20:08	1
2-Nitrophenol	<0.094		0.39	0.094	mg/Kg	☼	10/25/18 07:13	10/28/18 20:08	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B23 (0-5)

Lab Sample ID: 500-153433-11

Date Collected: 10/18/18 13:20

Matrix: Solid

Date Received: 10/18/18 16:45

Percent Solids: 81.8

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	☼	10/25/18 07:13	10/28/18 20:08	1
N-Nitrosodi-n-propylamine	<0.048		0.080	0.048	mg/Kg	☼	10/25/18 07:13	10/28/18 20:08	1
N-Nitrosodiphenylamine	<0.047		0.20	0.047	mg/Kg	☼	10/25/18 07:13	10/28/18 20:08	1
2,2'-oxybis[1-chloropropane]	<0.046		0.20	0.046	mg/Kg	☼	10/25/18 07:13	10/28/18 20:08	1
Pentachlorophenol	<0.64		0.80	0.64	mg/Kg	☼	10/25/18 07:13	10/28/18 20:08	1
Phenanthrene	0.0098	J	0.039	0.0055	mg/Kg	☼	10/25/18 07:13	10/28/18 20:08	1
Phenol	<0.088		0.20	0.088	mg/Kg	☼	10/25/18 07:13	10/28/18 20:08	1
Pyrene	0.029	J	0.039	0.0079	mg/Kg	☼	10/25/18 07:13	10/28/18 20:08	1
1,2,4-Trichlorobenzene	<0.043		0.20	0.043	mg/Kg	☼	10/25/18 07:13	10/28/18 20:08	1
2,4,5-Trichlorophenol	<0.091		0.39	0.091	mg/Kg	☼	10/25/18 07:13	10/28/18 20:08	1
2,4,6-Trichlorophenol	<0.14		0.39	0.14	mg/Kg	☼	10/25/18 07:13	10/28/18 20:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	103		43 - 145				10/25/18 07:13	10/28/18 20:08	1
2-Fluorophenol	139		31 - 166				10/25/18 07:13	10/28/18 20:08	1
Nitrobenzene-d5	99		37 - 147				10/25/18 07:13	10/28/18 20:08	1
Phenol-d5	130		30 - 153				10/25/18 07:13	10/28/18 20:08	1
Terphenyl-d14	111		42 - 157				10/25/18 07:13	10/28/18 20:08	1
2,4,6-Tribromophenol	62		31 - 143				10/25/18 07:13	10/28/18 20:08	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.23		1.2	0.23	mg/Kg	☼	10/24/18 17:02	10/25/18 18:36	1
Arsenic	8.3		0.58	0.20	mg/Kg	☼	10/24/18 17:02	10/25/18 18:36	1
Barium	90		0.58	0.066	mg/Kg	☼	10/24/18 17:02	10/25/18 18:36	1
Beryllium	0.72		0.23	0.054	mg/Kg	☼	10/24/18 17:02	10/25/18 18:36	1
Cadmium	0.15	B	0.12	0.021	mg/Kg	☼	10/24/18 17:02	10/25/18 18:36	1
Chromium	17	B	0.58	0.29	mg/Kg	☼	10/24/18 17:02	10/25/18 18:36	1
Cobalt	13		0.29	0.076	mg/Kg	☼	10/24/18 17:02	10/25/18 18:36	1
Copper	21	B	0.58	0.16	mg/Kg	☼	10/24/18 17:02	10/25/18 18:36	1
Iron	20000	B	12	6.0	mg/Kg	☼	10/24/18 17:02	10/25/18 18:36	1
Lead	20		0.29	0.13	mg/Kg	☼	10/24/18 17:02	10/25/18 18:36	1
Magnesium	10000		5.8	2.9	mg/Kg	☼	10/24/18 17:02	10/25/18 18:36	1
Calcium	14000	B	12	2.0	mg/Kg	☼	10/24/18 17:02	10/25/18 18:36	1
Manganese	570	B	0.58	0.084	mg/Kg	☼	10/24/18 17:02	10/25/18 18:36	1
Nickel	29		0.58	0.17	mg/Kg	☼	10/24/18 17:02	10/25/18 18:36	1
Selenium	<0.34		0.58	0.34	mg/Kg	☼	10/24/18 17:02	10/25/18 18:36	1
Silver	0.25	J	0.29	0.075	mg/Kg	☼	10/24/18 17:02	10/25/18 18:36	1
Thallium	<0.29		0.58	0.29	mg/Kg	☼	10/24/18 17:02	10/25/18 18:36	1
Vanadium	26		0.29	0.069	mg/Kg	☼	10/24/18 17:02	10/25/18 18:36	1
Zinc	66		1.2	0.51	mg/Kg	☼	10/24/18 17:02	10/25/18 18:36	1
Potassium	2000		29	10	mg/Kg	☼	10/24/18 17:02	10/25/18 18:36	1
Sodium	310		58	8.6	mg/Kg	☼	10/24/18 17:02	10/25/18 18:36	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		10/25/18 15:16	10/26/18 13:06	1
Barium	0.64		0.50	0.050	mg/L		10/25/18 15:16	10/26/18 13:06	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/25/18 15:16	10/26/18 13:06	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		10/25/18 15:16	10/26/18 13:06	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B23 (0-5)

Lab Sample ID: 500-153433-11

Date Collected: 10/18/18 13:20

Matrix: Solid

Date Received: 10/18/18 16:45

Percent Solids: 81.8

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		10/25/18 15:16	10/26/18 13:06	1
Chromium	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 13:06	1
Cobalt	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 13:06	1
Copper	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 13:06	1
Iron	<0.20		0.40	0.20	mg/L		10/25/18 15:16	10/26/18 13:06	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/25/18 15:16	10/26/18 13:06	1
Magnesium	98		2.5	0.50	mg/L		10/25/18 15:16	10/26/18 13:06	1
Manganese	0.32		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 13:06	1
Nickel	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 13:06	1
Potassium	1.8 J		2.5	0.50	mg/L		10/25/18 15:16	10/26/18 13:06	1
Selenium	<0.020		0.050	0.020	mg/L		10/25/18 15:16	10/26/18 13:06	1
Silver	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 13:06	1
Vanadium	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 13:06	1
Zinc	0.81		0.50	0.020	mg/L		10/25/18 15:16	10/26/18 13:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.0		0.025	0.010	mg/L		10/29/18 08:53	10/29/18 18:48	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		10/25/18 15:16	10/26/18 14:30	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/25/18 15:16	10/26/18 14:30	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		10/25/18 12:40	10/26/18 10:04	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038		0.019	0.0063	mg/Kg	☼	10/24/18 16:40	10/25/18 09:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.20		0.58	0.20	mg/Kg	☼	10/29/18 10:50	10/29/18 15:44	1
pH	8.3		0.2	0.2	SU			10/25/18 15:13	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B22 (0-5)

Lab Sample ID: 500-153433-12

Date Collected: 10/18/18 13:50

Matrix: Solid

Date Received: 10/18/18 16:45

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0076		0.017	0.0076	mg/Kg	☼	10/19/18 17:43	10/29/18 04:12	1
Benzene	<0.00044		0.0017	0.00044	mg/Kg	☼	10/19/18 17:43	10/29/18 04:12	1
Bromodichloromethane	<0.00035		0.0017	0.00035	mg/Kg	☼	10/19/18 17:43	10/29/18 04:12	1
Bromoform	<0.00051		0.0017	0.00051	mg/Kg	☼	10/19/18 17:43	10/29/18 04:12	1
Bromomethane	<0.0016		0.0044	0.0016	mg/Kg	☼	10/19/18 17:43	10/29/18 04:12	1
2-Butanone (MEK)	<0.0019		0.0044	0.0019	mg/Kg	☼	10/19/18 17:43	10/29/18 04:12	1
Carbon disulfide	<0.00090		0.0044	0.00090	mg/Kg	☼	10/19/18 17:43	10/29/18 04:12	1
Carbon tetrachloride	<0.00050		0.0017	0.00050	mg/Kg	☼	10/19/18 17:43	10/29/18 04:12	1
Chlorobenzene	<0.00064		0.0017	0.00064	mg/Kg	☼	10/19/18 17:43	10/29/18 04:12	1
Chloroethane	<0.0013	*	0.0044	0.0013	mg/Kg	☼	10/19/18 17:43	10/29/18 04:12	1
Chloroform	<0.00060		0.0017	0.00060	mg/Kg	☼	10/19/18 17:43	10/29/18 04:12	1
Chloromethane	<0.0017		0.0044	0.0017	mg/Kg	☼	10/19/18 17:43	10/29/18 04:12	1
cis-1,2-Dichloroethene	<0.00049		0.0017	0.00049	mg/Kg	☼	10/19/18 17:43	10/29/18 04:12	1
cis-1,3-Dichloropropene	<0.00052		0.0017	0.00052	mg/Kg	☼	10/19/18 17:43	10/29/18 04:12	1
Dibromochloromethane	<0.00057		0.0017	0.00057	mg/Kg	☼	10/19/18 17:43	10/29/18 04:12	1
1,1-Dichloroethane	<0.00060		0.0017	0.00060	mg/Kg	☼	10/19/18 17:43	10/29/18 04:12	1
1,2-Dichloroethane	<0.0014		0.0044	0.0014	mg/Kg	☼	10/19/18 17:43	10/29/18 04:12	1
1,1-Dichloroethene	<0.00060		0.0017	0.00060	mg/Kg	☼	10/19/18 17:43	10/29/18 04:12	1
1,2-Dichloropropane	<0.00045		0.0017	0.00045	mg/Kg	☼	10/19/18 17:43	10/29/18 04:12	1
1,3-Dichloropropene, Total	<0.00061		0.0017	0.00061	mg/Kg	☼	10/19/18 17:43	10/29/18 04:12	1
Ethylbenzene	<0.00083		0.0017	0.00083	mg/Kg	☼	10/19/18 17:43	10/29/18 04:12	1
2-Hexanone	<0.0014		0.0044	0.0014	mg/Kg	☼	10/19/18 17:43	10/29/18 04:12	1
Methylene Chloride	<0.0017		0.0044	0.0017	mg/Kg	☼	10/19/18 17:43	10/29/18 04:12	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0044	0.0013	mg/Kg	☼	10/19/18 17:43	10/29/18 04:12	1
Methyl tert-butyl ether	<0.00051		0.0017	0.00051	mg/Kg	☼	10/19/18 17:43	10/29/18 04:12	1
Styrene	<0.00053		0.0017	0.00053	mg/Kg	☼	10/19/18 17:43	10/29/18 04:12	1
1,1,2,2-Tetrachloroethane	<0.00056		0.0017	0.00056	mg/Kg	☼	10/19/18 17:43	10/29/18 04:12	1
Tetrachloroethene	<0.00059		0.0017	0.00059	mg/Kg	☼	10/19/18 17:43	10/29/18 04:12	1
Toluene	<0.00044		0.0017	0.00044	mg/Kg	☼	10/19/18 17:43	10/29/18 04:12	1
trans-1,2-Dichloroethene	<0.00077		0.0017	0.00077	mg/Kg	☼	10/19/18 17:43	10/29/18 04:12	1
trans-1,3-Dichloropropene	<0.00061		0.0017	0.00061	mg/Kg	☼	10/19/18 17:43	10/29/18 04:12	1
1,1,1-Trichloroethane	<0.00058		0.0017	0.00058	mg/Kg	☼	10/19/18 17:43	10/29/18 04:12	1
1,1,2-Trichloroethane	<0.00075		0.0017	0.00075	mg/Kg	☼	10/19/18 17:43	10/29/18 04:12	1
Trichloroethene	<0.00059		0.0017	0.00059	mg/Kg	☼	10/19/18 17:43	10/29/18 04:12	1
Vinyl acetate	<0.0015		0.0044	0.0015	mg/Kg	☼	10/19/18 17:43	10/29/18 04:12	1
Vinyl chloride	<0.00077		0.0017	0.00077	mg/Kg	☼	10/19/18 17:43	10/29/18 04:12	1
Xylenes, Total	<0.00056		0.0035	0.00056	mg/Kg	☼	10/19/18 17:43	10/29/18 04:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		75 - 131	10/19/18 17:43	10/29/18 04:12	1
Dibromofluoromethane	104		75 - 126	10/19/18 17:43	10/29/18 04:12	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134	10/19/18 17:43	10/29/18 04:12	1
Toluene-d8 (Surr)	97		75 - 124	10/19/18 17:43	10/29/18 04:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0068		0.038	0.0068	mg/Kg	☼	10/25/18 07:13	10/28/18 17:01	1
Acenaphthylene	<0.0050		0.038	0.0050	mg/Kg	☼	10/25/18 07:13	10/28/18 17:01	1
Anthracene	<0.0063		0.038	0.0063	mg/Kg	☼	10/25/18 07:13	10/28/18 17:01	1
Benzo[a]anthracene	0.0070	J	0.038	0.0051	mg/Kg	☼	10/25/18 07:13	10/28/18 17:01	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B22 (0-5)

Lab Sample ID: 500-153433-12

Date Collected: 10/18/18 13:50

Matrix: Solid

Date Received: 10/18/18 16:45

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.018	J	0.038	0.0073	mg/Kg	☼	10/25/18 07:13	10/28/18 17:01	1
Benzo[b]fluoranthene	<0.0082		0.038	0.0082	mg/Kg	☼	10/25/18 07:13	10/28/18 17:01	1
Benzo[g,h,i]perylene	<0.012		0.038	0.012	mg/Kg	☼	10/25/18 07:13	10/28/18 17:01	1
Benzo[k]fluoranthene	<0.011		0.038	0.011	mg/Kg	☼	10/25/18 07:13	10/28/18 17:01	1
Bis(2-chloroethoxy)methane	<0.039		0.19	0.039	mg/Kg	☼	10/25/18 07:13	10/28/18 17:01	1
Bis(2-chloroethyl)ether	<0.057		0.19	0.057	mg/Kg	☼	10/25/18 07:13	10/28/18 17:01	1
Bis(2-ethylhexyl) phthalate	<0.069		0.19	0.069	mg/Kg	☼	10/25/18 07:13	10/28/18 17:01	1
4-Bromophenyl phenyl ether	<0.050		0.19	0.050	mg/Kg	☼	10/25/18 07:13	10/28/18 17:01	1
Butyl benzyl phthalate	<0.072		0.19	0.072	mg/Kg	☼	10/25/18 07:13	10/28/18 17:01	1
Carbazole	<0.095		0.19	0.095	mg/Kg	☼	10/25/18 07:13	10/28/18 17:01	1
4-Chloroaniline	<0.18		0.76	0.18	mg/Kg	☼	10/25/18 07:13	10/28/18 17:01	1
4-Chloro-3-methylphenol	<0.13		0.38	0.13	mg/Kg	☼	10/25/18 07:13	10/28/18 17:01	1
2-Chloronaphthalene	<0.042		0.19	0.042	mg/Kg	☼	10/25/18 07:13	10/28/18 17:01	1
2-Chlorophenol	<0.065		0.19	0.065	mg/Kg	☼	10/25/18 07:13	10/28/18 17:01	1
4-Chlorophenyl phenyl ether	<0.044		0.19	0.044	mg/Kg	☼	10/25/18 07:13	10/28/18 17:01	1
Chrysene	<0.010		0.038	0.010	mg/Kg	☼	10/25/18 07:13	10/28/18 17:01	1
Dibenz(a,h)anthracene	<0.0073		0.038	0.0073	mg/Kg	☼	10/25/18 07:13	10/28/18 17:01	1
Dibenzofuran	<0.044		0.19	0.044	mg/Kg	☼	10/25/18 07:13	10/28/18 17:01	1
1,2-Dichlorobenzene	<0.045		0.19	0.045	mg/Kg	☼	10/25/18 07:13	10/28/18 17:01	1
1,3-Dichlorobenzene	<0.043		0.19	0.043	mg/Kg	☼	10/25/18 07:13	10/28/18 17:01	1
1,4-Dichlorobenzene	<0.049		0.19	0.049	mg/Kg	☼	10/25/18 07:13	10/28/18 17:01	1
3,3'-Dichlorobenzidine	<0.053		0.19	0.053	mg/Kg	☼	10/25/18 07:13	10/28/18 17:01	1
2,4-Dichlorophenol	<0.090		0.38	0.090	mg/Kg	☼	10/25/18 07:13	10/28/18 17:01	1
Diethyl phthalate	<0.064		0.19	0.064	mg/Kg	☼	10/25/18 07:13	10/28/18 17:01	1
2,4-Dimethylphenol	<0.14		0.38	0.14	mg/Kg	☼	10/25/18 07:13	10/28/18 17:01	1
Dimethyl phthalate	<0.049		0.19	0.049	mg/Kg	☼	10/25/18 07:13	10/28/18 17:01	1
Di-n-butyl phthalate	<0.058		0.19	0.058	mg/Kg	☼	10/25/18 07:13	10/28/18 17:01	1
4,6-Dinitro-2-methylphenol	<0.30		0.76	0.30	mg/Kg	☼	10/25/18 07:13	10/28/18 17:01	1
2,4-Dinitrophenol	<0.67		0.76	0.67	mg/Kg	☼	10/25/18 07:13	10/28/18 17:01	1
2,4-Dinitrotoluene	<0.060		0.19	0.060	mg/Kg	☼	10/25/18 07:13	10/28/18 17:01	1
2,6-Dinitrotoluene	<0.074		0.19	0.074	mg/Kg	☼	10/25/18 07:13	10/28/18 17:01	1
Di-n-octyl phthalate	<0.062		0.19	0.062	mg/Kg	☼	10/25/18 07:13	10/28/18 17:01	1
Fluoranthene	0.0093	J	0.038	0.0070	mg/Kg	☼	10/25/18 07:13	10/28/18 17:01	1
Fluorene	<0.0053		0.038	0.0053	mg/Kg	☼	10/25/18 07:13	10/28/18 17:01	1
Hexachlorobenzene	<0.0088		0.076	0.0088	mg/Kg	☼	10/25/18 07:13	10/28/18 17:01	1
Hexachlorobutadiene	<0.060		0.19	0.060	mg/Kg	☼	10/25/18 07:13	10/28/18 17:01	1
Hexachlorocyclopentadiene	<0.22		0.76	0.22	mg/Kg	☼	10/25/18 07:13	10/28/18 17:01	1
Hexachloroethane	<0.058		0.19	0.058	mg/Kg	☼	10/25/18 07:13	10/28/18 17:01	1
Indeno[1,2,3-cd]pyrene	0.019	J	0.038	0.0098	mg/Kg	☼	10/25/18 07:13	10/28/18 17:01	1
Isophorone	<0.043		0.19	0.043	mg/Kg	☼	10/25/18 07:13	10/28/18 17:01	1
2-Methylnaphthalene	<0.0070		0.076	0.0070	mg/Kg	☼	10/25/18 07:13	10/28/18 17:01	1
2-Methylphenol	<0.061		0.19	0.061	mg/Kg	☼	10/25/18 07:13	10/28/18 17:01	1
3 & 4 Methylphenol	<0.063		0.19	0.063	mg/Kg	☼	10/25/18 07:13	10/28/18 17:01	1
Naphthalene	<0.0058		0.038	0.0058	mg/Kg	☼	10/25/18 07:13	10/28/18 17:01	1
2-Nitroaniline	<0.051		0.19	0.051	mg/Kg	☼	10/25/18 07:13	10/28/18 17:01	1
3-Nitroaniline	<0.12		0.38	0.12	mg/Kg	☼	10/25/18 07:13	10/28/18 17:01	1
4-Nitroaniline	<0.16		0.38	0.16	mg/Kg	☼	10/25/18 07:13	10/28/18 17:01	1
Nitrobenzene	<0.0095		0.038	0.0095	mg/Kg	☼	10/25/18 07:13	10/28/18 17:01	1
2-Nitrophenol	<0.090		0.38	0.090	mg/Kg	☼	10/25/18 07:13	10/28/18 17:01	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B22 (0-5)

Lab Sample ID: 500-153433-12

Date Collected: 10/18/18 13:50

Matrix: Solid

Date Received: 10/18/18 16:45

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.36		0.76	0.36	mg/Kg	☼	10/25/18 07:13	10/28/18 17:01	1
N-Nitrosodi-n-propylamine	<0.046		0.076	0.046	mg/Kg	☼	10/25/18 07:13	10/28/18 17:01	1
N-Nitrosodiphenylamine	<0.045		0.19	0.045	mg/Kg	☼	10/25/18 07:13	10/28/18 17:01	1
2,2'-oxybis[1-chloropropane]	<0.044		0.19	0.044	mg/Kg	☼	10/25/18 07:13	10/28/18 17:01	1
Pentachlorophenol	<0.61		0.76	0.61	mg/Kg	☼	10/25/18 07:13	10/28/18 17:01	1
Phenanthrene	<0.0053		0.038	0.0053	mg/Kg	☼	10/25/18 07:13	10/28/18 17:01	1
Phenol	<0.084		0.19	0.084	mg/Kg	☼	10/25/18 07:13	10/28/18 17:01	1
Pyrene	0.0099	J	0.038	0.0075	mg/Kg	☼	10/25/18 07:13	10/28/18 17:01	1
1,2,4-Trichlorobenzene	<0.041		0.19	0.041	mg/Kg	☼	10/25/18 07:13	10/28/18 17:01	1
2,4,5-Trichlorophenol	<0.086		0.38	0.086	mg/Kg	☼	10/25/18 07:13	10/28/18 17:01	1
2,4,6-Trichlorophenol	<0.13		0.38	0.13	mg/Kg	☼	10/25/18 07:13	10/28/18 17:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	100		43 - 145	10/25/18 07:13	10/28/18 17:01	1
2-Fluorophenol	138		31 - 166	10/25/18 07:13	10/28/18 17:01	1
Nitrobenzene-d5	98		37 - 147	10/25/18 07:13	10/28/18 17:01	1
Phenol-d5	130		30 - 153	10/25/18 07:13	10/28/18 17:01	1
Terphenyl-d14	115		42 - 157	10/25/18 07:13	10/28/18 17:01	1
2,4,6-Tribromophenol	57		31 - 143	10/25/18 07:13	10/28/18 17:01	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	J	1.1	0.22	mg/Kg	☼	10/24/18 17:02	10/25/18 18:40	1
Arsenic	9.2		0.56	0.19	mg/Kg	☼	10/24/18 17:02	10/25/18 18:40	1
Barium	49		0.56	0.064	mg/Kg	☼	10/24/18 17:02	10/25/18 18:40	1
Beryllium	0.66		0.23	0.053	mg/Kg	☼	10/24/18 17:02	10/25/18 18:40	1
Cadmium	0.13	B	0.11	0.020	mg/Kg	☼	10/24/18 17:02	10/25/18 18:40	1
Chromium	15	B	0.56	0.28	mg/Kg	☼	10/24/18 17:02	10/25/18 18:40	1
Cobalt	14		0.28	0.074	mg/Kg	☼	10/24/18 17:02	10/25/18 18:40	1
Copper	23	B	0.56	0.16	mg/Kg	☼	10/24/18 17:02	10/25/18 18:40	1
Iron	19000	B	11	5.9	mg/Kg	☼	10/24/18 17:02	10/25/18 18:40	1
Lead	16		0.28	0.13	mg/Kg	☼	10/24/18 17:02	10/25/18 18:40	1
Magnesium	29000		5.6	2.8	mg/Kg	☼	10/24/18 17:02	10/25/18 18:40	1
Calcium	63000	B	56	9.6	mg/Kg	☼	10/24/18 17:02	10/26/18 11:44	5
Manganese	360	B	0.56	0.082	mg/Kg	☼	10/24/18 17:02	10/25/18 18:40	1
Nickel	31		0.56	0.16	mg/Kg	☼	10/24/18 17:02	10/25/18 18:40	1
Selenium	0.48	J	0.56	0.33	mg/Kg	☼	10/24/18 17:02	10/25/18 18:40	1
Silver	0.13	J	0.28	0.073	mg/Kg	☼	10/24/18 17:02	10/25/18 18:40	1
Thallium	0.46	J	0.56	0.28	mg/Kg	☼	10/24/18 17:02	10/25/18 18:40	1
Vanadium	17		0.28	0.067	mg/Kg	☼	10/24/18 17:02	10/25/18 18:40	1
Zinc	56		1.1	0.50	mg/Kg	☼	10/24/18 17:02	10/25/18 18:40	1
Potassium	2600		28	10	mg/Kg	☼	10/24/18 17:02	10/25/18 18:40	1
Sodium	550		56	8.3	mg/Kg	☼	10/24/18 17:02	10/25/18 18:40	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		10/25/18 15:16	10/26/18 13:10	1
Barium	0.55		0.50	0.050	mg/L		10/25/18 15:16	10/26/18 13:10	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/25/18 15:16	10/26/18 13:10	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		10/25/18 15:16	10/26/18 13:10	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B22 (0-5)

Lab Sample ID: 500-153433-12

Date Collected: 10/18/18 13:50

Matrix: Solid

Date Received: 10/18/18 16:45

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	480		5.0	0.50	mg/L		10/25/18 15:16	10/26/18 13:10	1
Chromium	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 13:10	1
Cobalt	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 13:10	1
Copper	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 13:10	1
Iron	<0.20		0.40	0.20	mg/L		10/25/18 15:16	10/26/18 13:10	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/25/18 15:16	10/26/18 13:10	1
Magnesium	92		2.5	0.50	mg/L		10/25/18 15:16	10/26/18 13:10	1
Manganese	0.53		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 13:10	1
Nickel	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 13:10	1
Potassium	1.1 J		2.5	0.50	mg/L		10/25/18 15:16	10/26/18 13:10	1
Selenium	<0.020		0.050	0.020	mg/L		10/25/18 15:16	10/26/18 13:10	1
Silver	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 13:10	1
Vanadium	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 13:10	1
Zinc	<0.020		0.50	0.020	mg/L		10/25/18 15:16	10/26/18 13:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.1		0.025	0.010	mg/L		10/29/18 08:53	10/29/18 18:51	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		10/25/18 15:16	10/26/18 14:31	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/25/18 15:16	10/26/18 14:31	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		10/25/18 12:40	10/26/18 10:07	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.019	0.0062	mg/Kg	☼	10/24/18 16:40	10/25/18 09:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.19		0.55	0.19	mg/Kg	☼	10/29/18 10:50	10/29/18 15:44	1
pH	8.9		0.2	0.2	SU			10/25/18 15:17	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B21 (0-5)

Lab Sample ID: 500-153433-13

Date Collected: 10/18/18 14:30

Matrix: Solid

Date Received: 10/18/18 16:45

Percent Solids: 79.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0089		0.020	0.0089	mg/Kg	☼	10/19/18 17:43	10/29/18 04:37	1
Benzene	<0.00052		0.0020	0.00052	mg/Kg	☼	10/19/18 17:43	10/29/18 04:37	1
Bromodichloromethane	<0.00042		0.0020	0.00042	mg/Kg	☼	10/19/18 17:43	10/29/18 04:37	1
Bromoform	<0.00060		0.0020	0.00060	mg/Kg	☼	10/19/18 17:43	10/29/18 04:37	1
Bromomethane	<0.0019		0.0051	0.0019	mg/Kg	☼	10/19/18 17:43	10/29/18 04:37	1
2-Butanone (MEK)	<0.0023		0.0051	0.0023	mg/Kg	☼	10/19/18 17:43	10/29/18 04:37	1
Carbon disulfide	<0.0011		0.0051	0.0011	mg/Kg	☼	10/19/18 17:43	10/29/18 04:37	1
Carbon tetrachloride	<0.00059		0.0020	0.00059	mg/Kg	☼	10/19/18 17:43	10/29/18 04:37	1
Chlorobenzene	<0.00075		0.0020	0.00075	mg/Kg	☼	10/19/18 17:43	10/29/18 04:37	1
Chloroethane	<0.0015 *		0.0051	0.0015	mg/Kg	☼	10/19/18 17:43	10/29/18 04:37	1
Chloroform	<0.00071		0.0020	0.00071	mg/Kg	☼	10/19/18 17:43	10/29/18 04:37	1
Chloromethane	<0.0020		0.0051	0.0020	mg/Kg	☼	10/19/18 17:43	10/29/18 04:37	1
cis-1,2-Dichloroethene	<0.00057		0.0020	0.00057	mg/Kg	☼	10/19/18 17:43	10/29/18 04:37	1
cis-1,3-Dichloropropene	<0.00061		0.0020	0.00061	mg/Kg	☼	10/19/18 17:43	10/29/18 04:37	1
Dibromochloromethane	<0.00067		0.0020	0.00067	mg/Kg	☼	10/19/18 17:43	10/29/18 04:37	1
1,1-Dichloroethane	<0.00070		0.0020	0.00070	mg/Kg	☼	10/19/18 17:43	10/29/18 04:37	1
1,2-Dichloroethane	<0.0016		0.0051	0.0016	mg/Kg	☼	10/19/18 17:43	10/29/18 04:37	1
1,1-Dichloroethene	<0.00070		0.0020	0.00070	mg/Kg	☼	10/19/18 17:43	10/29/18 04:37	1
1,2-Dichloropropane	<0.00053		0.0020	0.00053	mg/Kg	☼	10/19/18 17:43	10/29/18 04:37	1
1,3-Dichloropropene, Total	<0.00072		0.0020	0.00072	mg/Kg	☼	10/19/18 17:43	10/29/18 04:37	1
Ethylbenzene	<0.00098		0.0020	0.00098	mg/Kg	☼	10/19/18 17:43	10/29/18 04:37	1
2-Hexanone	<0.0016		0.0051	0.0016	mg/Kg	☼	10/19/18 17:43	10/29/18 04:37	1
Methylene Chloride	<0.0020		0.0051	0.0020	mg/Kg	☼	10/19/18 17:43	10/29/18 04:37	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0051	0.0015	mg/Kg	☼	10/19/18 17:43	10/29/18 04:37	1
Methyl tert-butyl ether	<0.00060		0.0020	0.00060	mg/Kg	☼	10/19/18 17:43	10/29/18 04:37	1
Styrene	<0.00062		0.0020	0.00062	mg/Kg	☼	10/19/18 17:43	10/29/18 04:37	1
1,1,2,2-Tetrachloroethane	<0.00065		0.0020	0.00065	mg/Kg	☼	10/19/18 17:43	10/29/18 04:37	1
Tetrachloroethene	<0.00069		0.0020	0.00069	mg/Kg	☼	10/19/18 17:43	10/29/18 04:37	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg	☼	10/19/18 17:43	10/29/18 04:37	1
trans-1,2-Dichloroethene	<0.00090		0.0020	0.00090	mg/Kg	☼	10/19/18 17:43	10/29/18 04:37	1
trans-1,3-Dichloropropene	<0.00072		0.0020	0.00072	mg/Kg	☼	10/19/18 17:43	10/29/18 04:37	1
1,1,1-Trichloroethane	<0.00068		0.0020	0.00068	mg/Kg	☼	10/19/18 17:43	10/29/18 04:37	1
1,1,2-Trichloroethane	<0.00087		0.0020	0.00087	mg/Kg	☼	10/19/18 17:43	10/29/18 04:37	1
Trichloroethene	<0.00069		0.0020	0.00069	mg/Kg	☼	10/19/18 17:43	10/29/18 04:37	1
Vinyl acetate	<0.0018		0.0051	0.0018	mg/Kg	☼	10/19/18 17:43	10/29/18 04:37	1
Vinyl chloride	<0.00090		0.0020	0.00090	mg/Kg	☼	10/19/18 17:43	10/29/18 04:37	1
Xylenes, Total	<0.00065		0.0041	0.00065	mg/Kg	☼	10/19/18 17:43	10/29/18 04:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		75 - 131	10/19/18 17:43	10/29/18 04:37	1
Dibromofluoromethane	106		75 - 126	10/19/18 17:43	10/29/18 04:37	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 134	10/19/18 17:43	10/29/18 04:37	1
Toluene-d8 (Surr)	96		75 - 124	10/19/18 17:43	10/29/18 04:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.031	J	0.041	0.0074	mg/Kg	☼	10/25/18 07:13	10/28/18 21:29	1
Acenaphthylene	<0.0054		0.041	0.0054	mg/Kg	☼	10/25/18 07:13	10/28/18 21:29	1
Anthracene	0.043		0.041	0.0069	mg/Kg	☼	10/25/18 07:13	10/28/18 21:29	1
Benzo[a]anthracene	0.21		0.041	0.0055	mg/Kg	☼	10/25/18 07:13	10/28/18 21:29	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B21 (0-5)

Lab Sample ID: 500-153433-13

Date Collected: 10/18/18 14:30

Matrix: Solid

Date Received: 10/18/18 16:45

Percent Solids: 79.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.19		0.041	0.0080	mg/Kg	☼	10/25/18 07:13	10/28/18 21:29	1
Benzo[b]fluoranthene	0.33		0.041	0.0089	mg/Kg	☼	10/25/18 07:13	10/28/18 21:29	1
Benzo[g,h,i]perylene	0.087		0.041	0.013	mg/Kg	☼	10/25/18 07:13	10/28/18 21:29	1
Benzo[k]fluoranthene	0.12		0.041	0.012	mg/Kg	☼	10/25/18 07:13	10/28/18 21:29	1
Bis(2-chloroethoxy)methane	<0.042		0.21	0.042	mg/Kg	☼	10/25/18 07:13	10/28/18 21:29	1
Bis(2-chloroethyl)ether	<0.062		0.21	0.062	mg/Kg	☼	10/25/18 07:13	10/28/18 21:29	1
Bis(2-ethylhexyl) phthalate	<0.075		0.21	0.075	mg/Kg	☼	10/25/18 07:13	10/28/18 21:29	1
4-Bromophenyl phenyl ether	<0.054		0.21	0.054	mg/Kg	☼	10/25/18 07:13	10/28/18 21:29	1
Butyl benzyl phthalate	<0.078		0.21	0.078	mg/Kg	☼	10/25/18 07:13	10/28/18 21:29	1
Carbazole	<0.10		0.21	0.10	mg/Kg	☼	10/25/18 07:13	10/28/18 21:29	1
4-Chloroaniline	<0.19		0.83	0.19	mg/Kg	☼	10/25/18 07:13	10/28/18 21:29	1
4-Chloro-3-methylphenol	<0.14		0.41	0.14	mg/Kg	☼	10/25/18 07:13	10/28/18 21:29	1
2-Chloronaphthalene	<0.045		0.21	0.045	mg/Kg	☼	10/25/18 07:13	10/28/18 21:29	1
2-Chlorophenol	<0.070		0.21	0.070	mg/Kg	☼	10/25/18 07:13	10/28/18 21:29	1
4-Chlorophenyl phenyl ether	<0.048		0.21	0.048	mg/Kg	☼	10/25/18 07:13	10/28/18 21:29	1
Chrysene	0.28		0.041	0.011	mg/Kg	☼	10/25/18 07:13	10/28/18 21:29	1
Dibenz(a,h)anthracene	0.039 J		0.041	0.0080	mg/Kg	☼	10/25/18 07:13	10/28/18 21:29	1
Dibenzofuran	<0.048		0.21	0.048	mg/Kg	☼	10/25/18 07:13	10/28/18 21:29	1
1,2-Dichlorobenzene	<0.049		0.21	0.049	mg/Kg	☼	10/25/18 07:13	10/28/18 21:29	1
1,3-Dichlorobenzene	<0.046		0.21	0.046	mg/Kg	☼	10/25/18 07:13	10/28/18 21:29	1
1,4-Dichlorobenzene	<0.053		0.21	0.053	mg/Kg	☼	10/25/18 07:13	10/28/18 21:29	1
3,3'-Dichlorobenzidine	<0.058		0.21	0.058	mg/Kg	☼	10/25/18 07:13	10/28/18 21:29	1
2,4-Dichlorophenol	<0.098		0.41	0.098	mg/Kg	☼	10/25/18 07:13	10/28/18 21:29	1
Diethyl phthalate	<0.070		0.21	0.070	mg/Kg	☼	10/25/18 07:13	10/28/18 21:29	1
2,4-Dimethylphenol	<0.16		0.41	0.16	mg/Kg	☼	10/25/18 07:13	10/28/18 21:29	1
Dimethyl phthalate	<0.054		0.21	0.054	mg/Kg	☼	10/25/18 07:13	10/28/18 21:29	1
Di-n-butyl phthalate	<0.063		0.21	0.063	mg/Kg	☼	10/25/18 07:13	10/28/18 21:29	1
4,6-Dinitro-2-methylphenol	<0.33		0.83	0.33	mg/Kg	☼	10/25/18 07:13	10/28/18 21:29	1
2,4-Dinitrophenol	<0.72		0.83	0.72	mg/Kg	☼	10/25/18 07:13	10/28/18 21:29	1
2,4-Dinitrotoluene	<0.065		0.21	0.065	mg/Kg	☼	10/25/18 07:13	10/28/18 21:29	1
2,6-Dinitrotoluene	<0.081		0.21	0.081	mg/Kg	☼	10/25/18 07:13	10/28/18 21:29	1
Di-n-octyl phthalate	<0.067		0.21	0.067	mg/Kg	☼	10/25/18 07:13	10/28/18 21:29	1
Fluoranthene	0.73		0.041	0.0076	mg/Kg	☼	10/25/18 07:13	10/28/18 21:29	1
Fluorene	0.028 J		0.041	0.0058	mg/Kg	☼	10/25/18 07:13	10/28/18 21:29	1
Hexachlorobenzene	<0.0095		0.083	0.0095	mg/Kg	☼	10/25/18 07:13	10/28/18 21:29	1
Hexachlorobutadiene	<0.065		0.21	0.065	mg/Kg	☼	10/25/18 07:13	10/28/18 21:29	1
Hexachlorocyclopentadiene	<0.24		0.83	0.24	mg/Kg	☼	10/25/18 07:13	10/28/18 21:29	1
Hexachloroethane	<0.063		0.21	0.063	mg/Kg	☼	10/25/18 07:13	10/28/18 21:29	1
Indeno[1,2,3-cd]pyrene	0.099		0.041	0.011	mg/Kg	☼	10/25/18 07:13	10/28/18 21:29	1
Isophorone	<0.046		0.21	0.046	mg/Kg	☼	10/25/18 07:13	10/28/18 21:29	1
2-Methylnaphthalene	<0.0076		0.083	0.0076	mg/Kg	☼	10/25/18 07:13	10/28/18 21:29	1
2-Methylphenol	<0.066		0.21	0.066	mg/Kg	☼	10/25/18 07:13	10/28/18 21:29	1
3 & 4 Methylphenol	<0.069		0.21	0.069	mg/Kg	☼	10/25/18 07:13	10/28/18 21:29	1
Naphthalene	<0.0063		0.041	0.0063	mg/Kg	☼	10/25/18 07:13	10/28/18 21:29	1
2-Nitroaniline	<0.055		0.21	0.055	mg/Kg	☼	10/25/18 07:13	10/28/18 21:29	1
3-Nitroaniline	<0.13		0.41	0.13	mg/Kg	☼	10/25/18 07:13	10/28/18 21:29	1
4-Nitroaniline	<0.17		0.41	0.17	mg/Kg	☼	10/25/18 07:13	10/28/18 21:29	1
Nitrobenzene	<0.010		0.041	0.010	mg/Kg	☼	10/25/18 07:13	10/28/18 21:29	1
2-Nitrophenol	<0.097		0.41	0.097	mg/Kg	☼	10/25/18 07:13	10/28/18 21:29	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B21 (0-5)

Lab Sample ID: 500-153433-13

Date Collected: 10/18/18 14:30

Matrix: Solid

Date Received: 10/18/18 16:45

Percent Solids: 79.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.39		0.83	0.39	mg/Kg	☼	10/25/18 07:13	10/28/18 21:29	1
N-Nitrosodi-n-propylamine	<0.050		0.083	0.050	mg/Kg	☼	10/25/18 07:13	10/28/18 21:29	1
N-Nitrosodiphenylamine	<0.049		0.21	0.049	mg/Kg	☼	10/25/18 07:13	10/28/18 21:29	1
2,2'-oxybis[1-chloropropane]	<0.048		0.21	0.048	mg/Kg	☼	10/25/18 07:13	10/28/18 21:29	1
Pentachlorophenol	<0.66		0.83	0.66	mg/Kg	☼	10/25/18 07:13	10/28/18 21:29	1
Phenanthrene	0.47		0.041	0.0057	mg/Kg	☼	10/25/18 07:13	10/28/18 21:29	1
Phenol	<0.091		0.21	0.091	mg/Kg	☼	10/25/18 07:13	10/28/18 21:29	1
Pyrene	0.60		0.041	0.0082	mg/Kg	☼	10/25/18 07:13	10/28/18 21:29	1
1,2,4-Trichlorobenzene	<0.044		0.21	0.044	mg/Kg	☼	10/25/18 07:13	10/28/18 21:29	1
2,4,5-Trichlorophenol	<0.094		0.41	0.094	mg/Kg	☼	10/25/18 07:13	10/28/18 21:29	1
2,4,6-Trichlorophenol	<0.14		0.41	0.14	mg/Kg	☼	10/25/18 07:13	10/28/18 21:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	88		43 - 145				10/25/18 07:13	10/28/18 21:29	1
2-Fluorophenol	124		31 - 166				10/25/18 07:13	10/28/18 21:29	1
Nitrobenzene-d5	83		37 - 147				10/25/18 07:13	10/28/18 21:29	1
Phenol-d5	115		30 - 153				10/25/18 07:13	10/28/18 21:29	1
Terphenyl-d14	98		42 - 157				10/25/18 07:13	10/28/18 21:29	1
2,4,6-Tribromophenol	39		31 - 143				10/25/18 07:13	10/28/18 21:29	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.25	J	1.2	0.24	mg/Kg	☼	10/24/18 17:02	10/25/18 18:44	1
Arsenic	6.6		0.61	0.21	mg/Kg	☼	10/24/18 17:02	10/25/18 18:44	1
Barium	120		0.61	0.069	mg/Kg	☼	10/24/18 17:02	10/25/18 18:44	1
Beryllium	0.67		0.24	0.057	mg/Kg	☼	10/24/18 17:02	10/25/18 18:44	1
Cadmium	0.16	B	0.12	0.022	mg/Kg	☼	10/24/18 17:02	10/25/18 18:44	1
Chromium	16	B	0.61	0.30	mg/Kg	☼	10/24/18 17:02	10/25/18 18:44	1
Cobalt	10		0.30	0.080	mg/Kg	☼	10/24/18 17:02	10/25/18 18:44	1
Copper	12	B	0.61	0.17	mg/Kg	☼	10/24/18 17:02	10/25/18 18:44	1
Iron	16000	B	12	6.3	mg/Kg	☼	10/24/18 17:02	10/25/18 18:44	1
Lead	25		0.30	0.14	mg/Kg	☼	10/24/18 17:02	10/25/18 18:44	1
Magnesium	2700		6.1	3.0	mg/Kg	☼	10/24/18 17:02	10/25/18 18:44	1
Calcium	2700	B	12	2.1	mg/Kg	☼	10/24/18 17:02	10/25/18 18:44	1
Manganese	660	B	0.61	0.088	mg/Kg	☼	10/24/18 17:02	10/25/18 18:44	1
Nickel	17		0.61	0.18	mg/Kg	☼	10/24/18 17:02	10/25/18 18:44	1
Selenium	0.50	J	0.61	0.36	mg/Kg	☼	10/24/18 17:02	10/25/18 18:44	1
Silver	0.27	J	0.30	0.078	mg/Kg	☼	10/24/18 17:02	10/25/18 18:44	1
Thallium	<0.30		0.61	0.30	mg/Kg	☼	10/24/18 17:02	10/25/18 18:44	1
Vanadium	28		0.30	0.072	mg/Kg	☼	10/24/18 17:02	10/25/18 18:44	1
Zinc	63		1.2	0.53	mg/Kg	☼	10/24/18 17:02	10/25/18 18:44	1
Potassium	1300		30	11	mg/Kg	☼	10/24/18 17:02	10/25/18 18:44	1
Sodium	170		61	9.0	mg/Kg	☼	10/24/18 17:02	10/25/18 18:44	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		10/25/18 15:16	10/26/18 13:22	1
Barium	0.37	J	0.50	0.050	mg/L		10/25/18 15:16	10/26/18 13:22	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/25/18 15:16	10/26/18 13:22	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		10/25/18 15:16	10/26/18 13:22	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B21 (0-5)

Lab Sample ID: 500-153433-13

Date Collected: 10/18/18 14:30

Matrix: Solid

Date Received: 10/18/18 16:45

Percent Solids: 79.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	54		5.0	0.50	mg/L		10/25/18 15:16	10/26/18 13:22	1
Chromium	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 13:22	1
Cobalt	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 13:22	1
Copper	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 13:22	1
Iron	0.28	J F1	0.40	0.20	mg/L		10/25/18 15:16	10/26/18 13:22	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/25/18 15:16	10/26/18 13:22	1
Magnesium	22		2.5	0.50	mg/L		10/25/18 15:16	10/26/18 13:22	1
Manganese	0.023	J	0.025	0.010	mg/L		10/25/18 15:16	10/26/18 13:22	1
Nickel	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 13:22	1
Potassium	0.74	J	2.5	0.50	mg/L		10/25/18 15:16	10/26/18 13:22	1
Selenium	<0.020		0.050	0.020	mg/L		10/25/18 15:16	10/26/18 13:22	1
Silver	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 13:22	1
Vanadium	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 13:22	1
Zinc	0.21	J	0.50	0.020	mg/L		10/25/18 15:16	10/26/18 13:22	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		10/25/18 15:16	10/26/18 14:32	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/25/18 15:16	10/26/18 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		10/25/18 12:40	10/26/18 10:09	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.020	0.0065	mg/Kg	☼	10/24/18 16:40	10/25/18 09:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.21		0.62	0.21	mg/Kg	☼	10/29/18 10:50	10/29/18 15:45	1
pH	7.5		0.2	0.2	SU			10/25/18 15:21	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

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
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.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
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.
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.
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.

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)

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeville - WO 054

TestAmerica Job ID: 500-153433-1

GC/MS VOA

Prep Batch: 456032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153433-1	2947V-17-B35 (0-5)	Total/NA	Solid	5035	
500-153433-2	2947V-17-B35 (0-5) Dup	Total/NA	Solid	5035	
500-153433-3	2947V-17-B34 (0-5)	Total/NA	Solid	5035	
500-153433-4	2947V-17-B33 (0-5)	Total/NA	Solid	5035	
500-153433-5	2947V-17-B32 (0-5)	Total/NA	Solid	5035	
500-153433-6	2947V-17-B31 (0-5)	Total/NA	Solid	5035	
500-153433-7	2947V-17-B30 (0-5)	Total/NA	Solid	5035	
500-153433-8	2947V-17-B29 (0-5)	Total/NA	Solid	5035	
500-153433-9	2947V-17-B28 (0-5)	Total/NA	Solid	5035	
500-153433-10	2947V-17-B24 (0-5)	Total/NA	Solid	5035	
500-153433-11	2947V-17-B23 (0-5)	Total/NA	Solid	5035	
500-153433-12	2947V-17-B22 (0-5)	Total/NA	Solid	5035	
500-153433-13	2947V-17-B21 (0-5)	Total/NA	Solid	5035	

Analysis Batch: 457217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153433-1	2947V-17-B35 (0-5)	Total/NA	Solid	8260B	456032
500-153433-2	2947V-17-B35 (0-5) Dup	Total/NA	Solid	8260B	456032
500-153433-3	2947V-17-B34 (0-5)	Total/NA	Solid	8260B	456032
500-153433-4	2947V-17-B33 (0-5)	Total/NA	Solid	8260B	456032
500-153433-5	2947V-17-B32 (0-5)	Total/NA	Solid	8260B	456032
500-153433-6	2947V-17-B31 (0-5)	Total/NA	Solid	8260B	456032
500-153433-7	2947V-17-B30 (0-5)	Total/NA	Solid	8260B	456032
500-153433-8	2947V-17-B29 (0-5)	Total/NA	Solid	8260B	456032
500-153433-9	2947V-17-B28 (0-5)	Total/NA	Solid	8260B	456032
500-153433-10	2947V-17-B24 (0-5)	Total/NA	Solid	8260B	456032
500-153433-11	2947V-17-B23 (0-5)	Total/NA	Solid	8260B	456032
500-153433-12	2947V-17-B22 (0-5)	Total/NA	Solid	8260B	456032
500-153433-13	2947V-17-B21 (0-5)	Total/NA	Solid	8260B	456032
MB 500-457217/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-457217/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-457217/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 456711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153433-1	2947V-17-B35 (0-5)	Total/NA	Solid	3541	
500-153433-2	2947V-17-B35 (0-5) Dup	Total/NA	Solid	3541	
500-153433-3	2947V-17-B34 (0-5)	Total/NA	Solid	3541	
500-153433-4	2947V-17-B33 (0-5)	Total/NA	Solid	3541	
500-153433-5	2947V-17-B32 (0-5)	Total/NA	Solid	3541	
500-153433-6	2947V-17-B31 (0-5)	Total/NA	Solid	3541	
500-153433-7	2947V-17-B30 (0-5)	Total/NA	Solid	3541	
500-153433-8	2947V-17-B29 (0-5)	Total/NA	Solid	3541	
500-153433-9	2947V-17-B28 (0-5)	Total/NA	Solid	3541	
500-153433-10	2947V-17-B24 (0-5)	Total/NA	Solid	3541	
500-153433-11	2947V-17-B23 (0-5)	Total/NA	Solid	3541	
500-153433-12	2947V-17-B22 (0-5)	Total/NA	Solid	3541	
500-153433-13	2947V-17-B21 (0-5)	Total/NA	Solid	3541	

TestAmerica Chicago

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

GC/MS Semi VOA (Continued)

Prep Batch: 456711 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-456711/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-456711/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-153433-1 MS	2947V-17-B35 (0-5)	Total/NA	Solid	3541	
500-153433-1 MSD	2947V-17-B35 (0-5)	Total/NA	Solid	3541	

Analysis Batch: 457132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-456711/1-A	Method Blank	Total/NA	Solid	8270D	456711
LCS 500-456711/2-A	Lab Control Sample	Total/NA	Solid	8270D	456711

Analysis Batch: 457200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153433-1	2947V-17-B35 (0-5)	Total/NA	Solid	8270D	456711
500-153433-2	2947V-17-B35 (0-5) Dup	Total/NA	Solid	8270D	456711
500-153433-3	2947V-17-B34 (0-5)	Total/NA	Solid	8270D	456711
500-153433-4	2947V-17-B33 (0-5)	Total/NA	Solid	8270D	456711
500-153433-5	2947V-17-B32 (0-5)	Total/NA	Solid	8270D	456711
500-153433-6	2947V-17-B31 (0-5)	Total/NA	Solid	8270D	456711
500-153433-7	2947V-17-B30 (0-5)	Total/NA	Solid	8270D	456711
500-153433-8	2947V-17-B29 (0-5)	Total/NA	Solid	8270D	456711
500-153433-9	2947V-17-B28 (0-5)	Total/NA	Solid	8270D	456711
500-153433-10	2947V-17-B24 (0-5)	Total/NA	Solid	8270D	456711
500-153433-11	2947V-17-B23 (0-5)	Total/NA	Solid	8270D	456711
500-153433-12	2947V-17-B22 (0-5)	Total/NA	Solid	8270D	456711
500-153433-13	2947V-17-B21 (0-5)	Total/NA	Solid	8270D	456711
500-153433-1 MS	2947V-17-B35 (0-5)	Total/NA	Solid	8270D	456711
500-153433-1 MSD	2947V-17-B35 (0-5)	Total/NA	Solid	8270D	456711

Metals

Prep Batch: 456591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153433-1	2947V-17-B35 (0-5)	Total/NA	Solid	7471B	
500-153433-2	2947V-17-B35 (0-5) Dup	Total/NA	Solid	7471B	
500-153433-3	2947V-17-B34 (0-5)	Total/NA	Solid	7471B	
MB 500-456591/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-456591/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Prep Batch: 456592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153433-4	2947V-17-B33 (0-5)	Total/NA	Solid	7471B	
500-153433-5	2947V-17-B32 (0-5)	Total/NA	Solid	7471B	
500-153433-6	2947V-17-B31 (0-5)	Total/NA	Solid	7471B	
500-153433-7	2947V-17-B30 (0-5)	Total/NA	Solid	7471B	
500-153433-8	2947V-17-B29 (0-5)	Total/NA	Solid	7471B	
500-153433-9	2947V-17-B28 (0-5)	Total/NA	Solid	7471B	
500-153433-10	2947V-17-B24 (0-5)	Total/NA	Solid	7471B	
500-153433-11	2947V-17-B23 (0-5)	Total/NA	Solid	7471B	
500-153433-12	2947V-17-B22 (0-5)	Total/NA	Solid	7471B	
500-153433-13	2947V-17-B21 (0-5)	Total/NA	Solid	7471B	

TestAmerica Chicago

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeville - WO 054

TestAmerica Job ID: 500-153433-1

Metals (Continued)

Prep Batch: 456592 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-456592/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-456592/13-A	Lab Control Sample	Total/NA	Solid	7471B	
500-153433-13 MS	2947V-17-B21 (0-5)	Total/NA	Solid	7471B	
500-153433-13 MSD	2947V-17-B21 (0-5)	Total/NA	Solid	7471B	
500-153433-13 DU	2947V-17-B21 (0-5)	Total/NA	Solid	7471B	

Leach Batch: 456606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153433-10	2947V-17-B24 (0-5)	SPLP East	Solid	1312	
500-153433-11	2947V-17-B23 (0-5)	SPLP East	Solid	1312	
500-153433-12	2947V-17-B22 (0-5)	SPLP East	Solid	1312	
LB 500-456606/1-B	Method Blank	SPLP East	Solid	1312	

Leach Batch: 456609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153433-1	2947V-17-B35 (0-5)	TCLP	Solid	1311	
500-153433-2	2947V-17-B35 (0-5) Dup	TCLP	Solid	1311	
500-153433-3	2947V-17-B34 (0-5)	TCLP	Solid	1311	
500-153433-4	2947V-17-B33 (0-5)	TCLP	Solid	1311	
500-153433-5	2947V-17-B32 (0-5)	TCLP	Solid	1311	
500-153433-6	2947V-17-B31 (0-5)	TCLP	Solid	1311	
500-153433-7	2947V-17-B30 (0-5)	TCLP	Solid	1311	
500-153433-8	2947V-17-B29 (0-5)	TCLP	Solid	1311	
500-153433-9	2947V-17-B28 (0-5)	TCLP	Solid	1311	
500-153433-10	2947V-17-B24 (0-5)	TCLP	Solid	1311	
500-153433-11	2947V-17-B23 (0-5)	TCLP	Solid	1311	
500-153433-12	2947V-17-B22 (0-5)	TCLP	Solid	1311	
500-153433-13	2947V-17-B21 (0-5)	TCLP	Solid	1311	
LB 500-456609/1-B	Method Blank	TCLP	Solid	1311	
LB 500-456609/1-C	Method Blank	TCLP	Solid	1311	
500-153433-6 MS	2947V-17-B31 (0-5)	TCLP	Solid	1311	
500-153433-13 MS	2947V-17-B21 (0-5)	TCLP	Solid	1311	
500-153433-6 DU	2947V-17-B31 (0-5)	TCLP	Solid	1311	
500-153433-13 DU	2947V-17-B21 (0-5)	TCLP	Solid	1311	

Prep Batch: 456652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153433-1	2947V-17-B35 (0-5)	Total/NA	Solid	3050B	
500-153433-2	2947V-17-B35 (0-5) Dup	Total/NA	Solid	3050B	
500-153433-3	2947V-17-B34 (0-5)	Total/NA	Solid	3050B	
500-153433-4	2947V-17-B33 (0-5)	Total/NA	Solid	3050B	
500-153433-5	2947V-17-B32 (0-5)	Total/NA	Solid	3050B	
500-153433-6	2947V-17-B31 (0-5)	Total/NA	Solid	3050B	
500-153433-7	2947V-17-B30 (0-5)	Total/NA	Solid	3050B	
500-153433-8	2947V-17-B29 (0-5)	Total/NA	Solid	3050B	
500-153433-9	2947V-17-B28 (0-5)	Total/NA	Solid	3050B	
500-153433-10	2947V-17-B24 (0-5)	Total/NA	Solid	3050B	
500-153433-11	2947V-17-B23 (0-5)	Total/NA	Solid	3050B	
500-153433-12	2947V-17-B22 (0-5)	Total/NA	Solid	3050B	
500-153433-13	2947V-17-B21 (0-5)	Total/NA	Solid	3050B	
MB 500-456652/1-A	Method Blank	Total/NA	Solid	3050B	

TestAmerica Chicago

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Metals (Continued)

Prep Batch: 456652 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-456652/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-153433-1 MS	2947V-17-B35 (0-5)	Total/NA	Solid	3050B	
500-153433-1 MSD	2947V-17-B35 (0-5)	Total/NA	Solid	3050B	
500-153433-1 DU	2947V-17-B35 (0-5)	Total/NA	Solid	3050B	

Prep Batch: 456788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153433-1	2947V-17-B35 (0-5)	TCLP	Solid	7470A	456609
500-153433-2	2947V-17-B35 (0-5) Dup	TCLP	Solid	7470A	456609
500-153433-3	2947V-17-B34 (0-5)	TCLP	Solid	7470A	456609
500-153433-4	2947V-17-B33 (0-5)	TCLP	Solid	7470A	456609
500-153433-5	2947V-17-B32 (0-5)	TCLP	Solid	7470A	456609
500-153433-6	2947V-17-B31 (0-5)	TCLP	Solid	7470A	456609
500-153433-7	2947V-17-B30 (0-5)	TCLP	Solid	7470A	456609
500-153433-8	2947V-17-B29 (0-5)	TCLP	Solid	7470A	456609
500-153433-9	2947V-17-B28 (0-5)	TCLP	Solid	7470A	456609
500-153433-10	2947V-17-B24 (0-5)	TCLP	Solid	7470A	456609
500-153433-11	2947V-17-B23 (0-5)	TCLP	Solid	7470A	456609
500-153433-12	2947V-17-B22 (0-5)	TCLP	Solid	7470A	456609
500-153433-13	2947V-17-B21 (0-5)	TCLP	Solid	7470A	456609
LB 500-456609/1-B	Method Blank	TCLP	Solid	7470A	456609
MB 500-456788/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-456788/13-A	Lab Control Sample	Total/NA	Solid	7470A	
500-153433-6 MS	2947V-17-B31 (0-5)	TCLP	Solid	7470A	456609
500-153433-6 DU	2947V-17-B31 (0-5)	TCLP	Solid	7470A	456609

Analysis Batch: 456825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153433-1	2947V-17-B35 (0-5)	Total/NA	Solid	7471B	456591
500-153433-2	2947V-17-B35 (0-5) Dup	Total/NA	Solid	7471B	456591
500-153433-3	2947V-17-B34 (0-5)	Total/NA	Solid	7471B	456591
500-153433-4	2947V-17-B33 (0-5)	Total/NA	Solid	7471B	456592
500-153433-5	2947V-17-B32 (0-5)	Total/NA	Solid	7471B	456592
500-153433-6	2947V-17-B31 (0-5)	Total/NA	Solid	7471B	456592
500-153433-7	2947V-17-B30 (0-5)	Total/NA	Solid	7471B	456592
500-153433-8	2947V-17-B29 (0-5)	Total/NA	Solid	7471B	456592
500-153433-9	2947V-17-B28 (0-5)	Total/NA	Solid	7471B	456592
500-153433-10	2947V-17-B24 (0-5)	Total/NA	Solid	7471B	456592
500-153433-11	2947V-17-B23 (0-5)	Total/NA	Solid	7471B	456592
500-153433-12	2947V-17-B22 (0-5)	Total/NA	Solid	7471B	456592
500-153433-13	2947V-17-B21 (0-5)	Total/NA	Solid	7471B	456592
MB 500-456591/12-A	Method Blank	Total/NA	Solid	7471B	456591
MB 500-456592/12-A	Method Blank	Total/NA	Solid	7471B	456592
LCS 500-456591/13-A	Lab Control Sample	Total/NA	Solid	7471B	456591
LCS 500-456592/13-A	Lab Control Sample	Total/NA	Solid	7471B	456592
500-153433-13 MS	2947V-17-B21 (0-5)	Total/NA	Solid	7471B	456592
500-153433-13 MSD	2947V-17-B21 (0-5)	Total/NA	Solid	7471B	456592
500-153433-13 DU	2947V-17-B21 (0-5)	Total/NA	Solid	7471B	456592

QC Association Summary

Client: Terracon Consulting Eng & Scientists
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TestAmerica Job ID: 500-153433-1

Metals (Continued)

Prep Batch: 456853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153433-1	2947V-17-B35 (0-5)	TCLP	Solid	3010A	456609
500-153433-2	2947V-17-B35 (0-5) Dup	TCLP	Solid	3010A	456609
500-153433-3	2947V-17-B34 (0-5)	TCLP	Solid	3010A	456609
500-153433-4	2947V-17-B33 (0-5)	TCLP	Solid	3010A	456609
500-153433-5	2947V-17-B32 (0-5)	TCLP	Solid	3010A	456609
500-153433-6	2947V-17-B31 (0-5)	TCLP	Solid	3010A	456609
500-153433-7	2947V-17-B30 (0-5)	TCLP	Solid	3010A	456609
500-153433-8	2947V-17-B29 (0-5)	TCLP	Solid	3010A	456609
500-153433-9	2947V-17-B28 (0-5)	TCLP	Solid	3010A	456609
500-153433-10	2947V-17-B24 (0-5)	TCLP	Solid	3010A	456609
500-153433-11	2947V-17-B23 (0-5)	TCLP	Solid	3010A	456609
500-153433-12	2947V-17-B22 (0-5)	TCLP	Solid	3010A	456609
500-153433-13	2947V-17-B21 (0-5)	TCLP	Solid	3010A	456609
LB 500-456609/1-C	Method Blank	TCLP	Solid	3010A	456609
LCS 500-456853/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-153433-13 MS	2947V-17-B21 (0-5)	TCLP	Solid	3010A	456609
500-153433-13 DU	2947V-17-B21 (0-5)	TCLP	Solid	3010A	456609

Analysis Batch: 456923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153433-1	2947V-17-B35 (0-5)	Total/NA	Solid	6010B	456652
500-153433-2	2947V-17-B35 (0-5) Dup	Total/NA	Solid	6010B	456652
500-153433-3	2947V-17-B34 (0-5)	Total/NA	Solid	6010B	456652
500-153433-4	2947V-17-B33 (0-5)	Total/NA	Solid	6010B	456652
500-153433-5	2947V-17-B32 (0-5)	Total/NA	Solid	6010B	456652
500-153433-6	2947V-17-B31 (0-5)	Total/NA	Solid	6010B	456652
500-153433-7	2947V-17-B30 (0-5)	Total/NA	Solid	6010B	456652
500-153433-8	2947V-17-B29 (0-5)	Total/NA	Solid	6010B	456652
500-153433-9	2947V-17-B28 (0-5)	Total/NA	Solid	6010B	456652
500-153433-10	2947V-17-B24 (0-5)	Total/NA	Solid	6010B	456652
500-153433-11	2947V-17-B23 (0-5)	Total/NA	Solid	6010B	456652
500-153433-12	2947V-17-B22 (0-5)	Total/NA	Solid	6010B	456652
500-153433-13	2947V-17-B21 (0-5)	Total/NA	Solid	6010B	456652
MB 500-456652/1-A	Method Blank	Total/NA	Solid	6010B	456652
LCS 500-456652/2-A	Lab Control Sample	Total/NA	Solid	6010B	456652
500-153433-1 MS	2947V-17-B35 (0-5)	Total/NA	Solid	6010B	456652
500-153433-1 MSD	2947V-17-B35 (0-5)	Total/NA	Solid	6010B	456652
500-153433-1 DU	2947V-17-B35 (0-5)	Total/NA	Solid	6010B	456652

Analysis Batch: 457004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153433-1	2947V-17-B35 (0-5)	TCLP	Solid	7470A	456788
500-153433-2	2947V-17-B35 (0-5) Dup	TCLP	Solid	7470A	456788
500-153433-3	2947V-17-B34 (0-5)	TCLP	Solid	7470A	456788
500-153433-4	2947V-17-B33 (0-5)	TCLP	Solid	7470A	456788
500-153433-5	2947V-17-B32 (0-5)	TCLP	Solid	7470A	456788
500-153433-6	2947V-17-B31 (0-5)	TCLP	Solid	7470A	456788
500-153433-7	2947V-17-B30 (0-5)	TCLP	Solid	7470A	456788
500-153433-8	2947V-17-B29 (0-5)	TCLP	Solid	7470A	456788
500-153433-9	2947V-17-B28 (0-5)	TCLP	Solid	7470A	456788
500-153433-10	2947V-17-B24 (0-5)	TCLP	Solid	7470A	456788

TestAmerica Chicago

QC Association Summary

Client: Terracon Consulting Eng & Scientists
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TestAmerica Job ID: 500-153433-1

Metals (Continued)

Analysis Batch: 457004 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153433-11	2947V-17-B23 (0-5)	TCLP	Solid	7470A	456788
500-153433-12	2947V-17-B22 (0-5)	TCLP	Solid	7470A	456788
500-153433-13	2947V-17-B21 (0-5)	TCLP	Solid	7470A	456788
LB 500-456609/1-B	Method Blank	TCLP	Solid	7470A	456788
MB 500-456788/12-A	Method Blank	Total/NA	Solid	7470A	456788
LCS 500-456788/13-A	Lab Control Sample	Total/NA	Solid	7470A	456788
500-153433-6 MS	2947V-17-B31 (0-5)	TCLP	Solid	7470A	456788
500-153433-6 DU	2947V-17-B31 (0-5)	TCLP	Solid	7470A	456788

Analysis Batch: 457052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153433-1	2947V-17-B35 (0-5)	TCLP	Solid	6010B	456853
500-153433-2	2947V-17-B35 (0-5) Dup	TCLP	Solid	6010B	456853
500-153433-3	2947V-17-B34 (0-5)	TCLP	Solid	6010B	456853
500-153433-4	2947V-17-B33 (0-5)	TCLP	Solid	6010B	456853
500-153433-5	2947V-17-B32 (0-5)	TCLP	Solid	6010B	456853
500-153433-6	2947V-17-B31 (0-5)	TCLP	Solid	6010B	456853
500-153433-7	2947V-17-B30 (0-5)	TCLP	Solid	6010B	456853
500-153433-8	2947V-17-B29 (0-5)	TCLP	Solid	6010B	456853
500-153433-9	2947V-17-B28 (0-5)	TCLP	Solid	6010B	456853
500-153433-10	2947V-17-B24 (0-5)	TCLP	Solid	6010B	456853
500-153433-10	2947V-17-B24 (0-5)	Total/NA	Solid	6010B	456652
500-153433-11	2947V-17-B23 (0-5)	TCLP	Solid	6010B	456853
500-153433-12	2947V-17-B22 (0-5)	TCLP	Solid	6010B	456853
500-153433-12	2947V-17-B22 (0-5)	Total/NA	Solid	6010B	456652
500-153433-13	2947V-17-B21 (0-5)	TCLP	Solid	6010B	456853
LB 500-456609/1-C	Method Blank	TCLP	Solid	6010B	456853
LCS 500-456853/2-A	Lab Control Sample	Total/NA	Solid	6010B	456853
500-153433-13 MS	2947V-17-B21 (0-5)	TCLP	Solid	6010B	456853
500-153433-13 DU	2947V-17-B21 (0-5)	TCLP	Solid	6010B	456853

Analysis Batch: 457068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153433-1	2947V-17-B35 (0-5)	TCLP	Solid	6020A	456853
500-153433-2	2947V-17-B35 (0-5) Dup	TCLP	Solid	6020A	456853
500-153433-3	2947V-17-B34 (0-5)	TCLP	Solid	6020A	456853
500-153433-4	2947V-17-B33 (0-5)	TCLP	Solid	6020A	456853
500-153433-5	2947V-17-B32 (0-5)	TCLP	Solid	6020A	456853
500-153433-6	2947V-17-B31 (0-5)	TCLP	Solid	6020A	456853
500-153433-7	2947V-17-B30 (0-5)	TCLP	Solid	6020A	456853
500-153433-8	2947V-17-B29 (0-5)	TCLP	Solid	6020A	456853
500-153433-9	2947V-17-B28 (0-5)	TCLP	Solid	6020A	456853
500-153433-10	2947V-17-B24 (0-5)	TCLP	Solid	6020A	456853
500-153433-11	2947V-17-B23 (0-5)	TCLP	Solid	6020A	456853
500-153433-12	2947V-17-B22 (0-5)	TCLP	Solid	6020A	456853
500-153433-13	2947V-17-B21 (0-5)	TCLP	Solid	6020A	456853
LB 500-456609/1-C	Method Blank	TCLP	Solid	6020A	456853
LCS 500-456853/2-A	Lab Control Sample	Total/NA	Solid	6020A	456853
500-153433-13 MS	2947V-17-B21 (0-5)	TCLP	Solid	6020A	456853
500-153433-13 DU	2947V-17-B21 (0-5)	TCLP	Solid	6020A	456853

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
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TestAmerica Job ID: 500-153433-1

Metals (Continued)

Prep Batch: 457290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153433-10	2947V-17-B24 (0-5)	SPLP East	Solid	3010A	456606
500-153433-11	2947V-17-B23 (0-5)	SPLP East	Solid	3010A	456606
500-153433-12	2947V-17-B22 (0-5)	SPLP East	Solid	3010A	456606
LB 500-456606/1-B	Method Blank	SPLP East	Solid	3010A	456606
LCS 500-457290/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 457445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153433-10	2947V-17-B24 (0-5)	SPLP East	Solid	6010B	457290
500-153433-11	2947V-17-B23 (0-5)	SPLP East	Solid	6010B	457290
500-153433-12	2947V-17-B22 (0-5)	SPLP East	Solid	6010B	457290
LB 500-456606/1-B	Method Blank	SPLP East	Solid	6010B	457290
LCS 500-457290/2-A	Lab Control Sample	Total/NA	Solid	6010B	457290

General Chemistry

Analysis Batch: 456196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153433-1	2947V-17-B35 (0-5)	Total/NA	Solid	Moisture	
500-153433-2	2947V-17-B35 (0-5) Dup	Total/NA	Solid	Moisture	
500-153433-3	2947V-17-B34 (0-5)	Total/NA	Solid	Moisture	
500-153433-4	2947V-17-B33 (0-5)	Total/NA	Solid	Moisture	
500-153433-5	2947V-17-B32 (0-5)	Total/NA	Solid	Moisture	
500-153433-6	2947V-17-B31 (0-5)	Total/NA	Solid	Moisture	
500-153433-7	2947V-17-B30 (0-5)	Total/NA	Solid	Moisture	
500-153433-8	2947V-17-B29 (0-5)	Total/NA	Solid	Moisture	
500-153433-9	2947V-17-B28 (0-5)	Total/NA	Solid	Moisture	
500-153433-10	2947V-17-B24 (0-5)	Total/NA	Solid	Moisture	
500-153433-11	2947V-17-B23 (0-5)	Total/NA	Solid	Moisture	
500-153433-12	2947V-17-B22 (0-5)	Total/NA	Solid	Moisture	
500-153433-13	2947V-17-B21 (0-5)	Total/NA	Solid	Moisture	
500-153433-1 DU	2947V-17-B35 (0-5)	Total/NA	Solid	Moisture	

Analysis Batch: 456845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153433-1	2947V-17-B35 (0-5)	Total/NA	Solid	9045D	
500-153433-2	2947V-17-B35 (0-5) Dup	Total/NA	Solid	9045D	
500-153433-3	2947V-17-B34 (0-5)	Total/NA	Solid	9045D	
500-153433-4	2947V-17-B33 (0-5)	Total/NA	Solid	9045D	
500-153433-5	2947V-17-B32 (0-5)	Total/NA	Solid	9045D	
500-153433-6	2947V-17-B31 (0-5)	Total/NA	Solid	9045D	
500-153433-7	2947V-17-B30 (0-5)	Total/NA	Solid	9045D	
500-153433-8	2947V-17-B29 (0-5)	Total/NA	Solid	9045D	
500-153433-9	2947V-17-B28 (0-5)	Total/NA	Solid	9045D	
500-153433-10	2947V-17-B24 (0-5)	Total/NA	Solid	9045D	
500-153433-11	2947V-17-B23 (0-5)	Total/NA	Solid	9045D	
500-153433-12	2947V-17-B22 (0-5)	Total/NA	Solid	9045D	
500-153433-13	2947V-17-B21 (0-5)	Total/NA	Solid	9045D	
500-153433-10 DU	2947V-17-B24 (0-5)	Total/NA	Solid	9045D	

TestAmerica Chicago

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

General Chemistry (Continued)

Prep Batch: 457292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153433-1	2947V-17-B35 (0-5)	Total/NA	Solid	9010B	
500-153433-2	2947V-17-B35 (0-5) Dup	Total/NA	Solid	9010B	
500-153433-3	2947V-17-B34 (0-5)	Total/NA	Solid	9010B	
500-153433-4	2947V-17-B33 (0-5)	Total/NA	Solid	9010B	
500-153433-5	2947V-17-B32 (0-5)	Total/NA	Solid	9010B	
500-153433-6	2947V-17-B31 (0-5)	Total/NA	Solid	9010B	
500-153433-7	2947V-17-B30 (0-5)	Total/NA	Solid	9010B	
500-153433-8	2947V-17-B29 (0-5)	Total/NA	Solid	9010B	
500-153433-9	2947V-17-B28 (0-5)	Total/NA	Solid	9010B	
500-153433-10	2947V-17-B24 (0-5)	Total/NA	Solid	9010B	
500-153433-11	2947V-17-B23 (0-5)	Total/NA	Solid	9010B	
500-153433-12	2947V-17-B22 (0-5)	Total/NA	Solid	9010B	
500-153433-13	2947V-17-B21 (0-5)	Total/NA	Solid	9010B	
MB 500-457292/1-A	Method Blank	Total/NA	Solid	9010B	
LCS 500-457292/2-A	Lab Control Sample	Total/NA	Solid	9010B	

Analysis Batch: 457403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153433-1	2947V-17-B35 (0-5)	Total/NA	Solid	9014	457292
500-153433-2	2947V-17-B35 (0-5) Dup	Total/NA	Solid	9014	457292
500-153433-3	2947V-17-B34 (0-5)	Total/NA	Solid	9014	457292
500-153433-4	2947V-17-B33 (0-5)	Total/NA	Solid	9014	457292
500-153433-5	2947V-17-B32 (0-5)	Total/NA	Solid	9014	457292
500-153433-6	2947V-17-B31 (0-5)	Total/NA	Solid	9014	457292
500-153433-7	2947V-17-B30 (0-5)	Total/NA	Solid	9014	457292
500-153433-8	2947V-17-B29 (0-5)	Total/NA	Solid	9014	457292
500-153433-9	2947V-17-B28 (0-5)	Total/NA	Solid	9014	457292
500-153433-10	2947V-17-B24 (0-5)	Total/NA	Solid	9014	457292
500-153433-11	2947V-17-B23 (0-5)	Total/NA	Solid	9014	457292
500-153433-12	2947V-17-B22 (0-5)	Total/NA	Solid	9014	457292
500-153433-13	2947V-17-B21 (0-5)	Total/NA	Solid	9014	457292
MB 500-457292/1-A	Method Blank	Total/NA	Solid	9014	457292
LCS 500-457292/2-A	Lab Control Sample	Total/NA	Solid	9014	457292

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(75-131)	(75-126)	(70-134)	(75-124)
500-153433-1	2947V-17-B35 (0-5)	98	103	105	94
500-153433-2	2947V-17-B35 (0-5) Dup	97	102	106	97
500-153433-3	2947V-17-B34 (0-5)	101	100	105	98
500-153433-4	2947V-17-B33 (0-5)	96	101	105	98
500-153433-5	2947V-17-B32 (0-5)	99	103	106	98
500-153433-6	2947V-17-B31 (0-5)	100	102	104	96
500-153433-7	2947V-17-B30 (0-5)	98	103	107	96
500-153433-8	2947V-17-B29 (0-5)	95	103	107	96
500-153433-9	2947V-17-B28 (0-5)	97	106	109	95
500-153433-10	2947V-17-B24 (0-5)	96	106	107	95
500-153433-11	2947V-17-B23 (0-5)	98	106	106	96
500-153433-12	2947V-17-B22 (0-5)	97	104	107	97
500-153433-13	2947V-17-B21 (0-5)	95	106	108	96
LCS 500-457217/4	Lab Control Sample	94	98	97	98
LCSD 500-457217/5	Lab Control Sample Dup	92	101	97	101
MB 500-457217/6	Method Blank	98	103	100	96

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	FBP	2FP	NBZ	PHL	TPHL	TBP
		(43-145)	(31-166)	(37-147)	(30-153)	(42-157)	(31-143)
500-153433-1	2947V-17-B35 (0-5)	103	142	99	135	121	90
500-153433-1 MS	2947V-17-B35 (0-5)	90	122	89	101	97	80
500-153433-1 MSD	2947V-17-B35 (0-5)	100	135	96	116	107	95
500-153433-2	2947V-17-B35 (0-5) Dup	88	127	88	117	107	81
500-153433-3	2947V-17-B34 (0-5)	97	144	94	136	122	66
500-153433-4	2947V-17-B33 (0-5)	95	136	93	126	110	67
500-153433-5	2947V-17-B32 (0-5)	104	148	100	136	121	64
500-153433-6	2947V-17-B31 (0-5)	94	126	92	123	106	47
500-153433-7	2947V-17-B30 (0-5)	104	139	99	131	113	77
500-153433-8	2947V-17-B29 (0-5)	105	151	105	139	125	93
500-153433-9	2947V-17-B28 (0-5)	91	121	86	112	94	74
500-153433-10	2947V-17-B24 (0-5)	106	152	103	141	117	67
500-153433-11	2947V-17-B23 (0-5)	103	139	99	130	111	62
500-153433-12	2947V-17-B22 (0-5)	100	138	98	130	115	57
500-153433-13	2947V-17-B21 (0-5)	88	124	83	115	98	39
LCS 500-456711/2-A	Lab Control Sample	111	123	109	116	132	115
MB 500-456711/1-A	Method Blank	113	116	101	105	118	69

Surrogate Legend

FBP = 2-Fluorobiphenyl
 2FP = 2-Fluorophenol

TestAmerica Chicago

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPHL = Terphenyl-d14
TBP = 2,4,6-Tribromophenol

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

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

Lab Sample ID: MB 500-457217/6

Matrix: Solid

Analysis Batch: 457217

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0087		0.020	0.0087	mg/Kg			10/28/18 22:55	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg			10/28/18 22:55	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg			10/28/18 22:55	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg			10/28/18 22:55	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg			10/28/18 22:55	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			10/28/18 22:55	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg			10/28/18 22:55	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg			10/28/18 22:55	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg			10/28/18 22:55	1
Chloroethane	<0.0015		0.0050	0.0015	mg/Kg			10/28/18 22:55	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg			10/28/18 22:55	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg			10/28/18 22:55	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg			10/28/18 22:55	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg			10/28/18 22:55	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg			10/28/18 22:55	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg			10/28/18 22:55	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg			10/28/18 22:55	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg			10/28/18 22:55	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			10/28/18 22:55	1
1,3-Dichloropropene, Total	<0.00070		0.0020	0.00070	mg/Kg			10/28/18 22:55	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg			10/28/18 22:55	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg			10/28/18 22:55	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg			10/28/18 22:55	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg			10/28/18 22:55	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg			10/28/18 22:55	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg			10/28/18 22:55	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg			10/28/18 22:55	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg			10/28/18 22:55	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg			10/28/18 22:55	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg			10/28/18 22:55	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg			10/28/18 22:55	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg			10/28/18 22:55	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg			10/28/18 22:55	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg			10/28/18 22:55	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg			10/28/18 22:55	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg			10/28/18 22:55	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg			10/28/18 22:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		75 - 131		10/28/18 22:55	1
Dibromofluoromethane	103		75 - 126		10/28/18 22:55	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134		10/28/18 22:55	1
Toluene-d8 (Surr)	96		75 - 124		10/28/18 22:55	1

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

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

Lab Sample ID: LCS 500-457217/4

Matrix: Solid

Analysis Batch: 457217

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	0.0449		mg/Kg		90	40 - 150
Benzene	0.0500	0.0496		mg/Kg		99	70 - 125
Bromodichloromethane	0.0500	0.0503		mg/Kg		101	67 - 129
Bromoform	0.0500	0.0476		mg/Kg		95	68 - 136
Bromomethane	0.0500	0.0527		mg/Kg		105	70 - 130
2-Butanone (MEK)	0.0500	0.0394		mg/Kg		79	47 - 138
Carbon disulfide	0.0500	0.0485		mg/Kg		97	70 - 129
Carbon tetrachloride	0.0500	0.0507		mg/Kg		101	75 - 125
Chlorobenzene	0.0500	0.0477		mg/Kg		95	50 - 150
Chloroethane	0.0500	0.0668	*	mg/Kg		134	75 - 125
Chloroform	0.0500	0.0506		mg/Kg		101	57 - 135
Chloromethane	0.0500	0.0489		mg/Kg		98	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0481		mg/Kg		96	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0478		mg/Kg		96	70 - 125
Dibromochloromethane	0.0500	0.0478		mg/Kg		96	69 - 125
1,1-Dichloroethane	0.0500	0.0507		mg/Kg		101	70 - 125
1,2-Dichloroethane	0.0500	0.0497		mg/Kg		99	70 - 130
1,1-Dichloroethene	0.0500	0.0489		mg/Kg		98	70 - 120
1,2-Dichloropropane	0.0500	0.0487		mg/Kg		97	70 - 125
Ethylbenzene	0.0500	0.0484		mg/Kg		97	61 - 136
2-Hexanone	0.0500	0.0401		mg/Kg		80	48 - 146
Methylene Chloride	0.0500	0.0482		mg/Kg		96	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0395		mg/Kg		79	50 - 148
Methyl tert-butyl ether	0.0500	0.0469		mg/Kg		94	50 - 140
Styrene	0.0500	0.0500		mg/Kg		100	70 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.0474		mg/Kg		95	70 - 122
Tetrachloroethene	0.0500	0.0481		mg/Kg		96	70 - 124
Toluene	0.0500	0.0480		mg/Kg		96	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0496		mg/Kg		99	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0475		mg/Kg		95	70 - 125
1,1,1-Trichloroethane	0.0500	0.0520		mg/Kg		104	70 - 128
1,1,2-Trichloroethane	0.0500	0.0480		mg/Kg		96	70 - 125
Trichloroethene	0.0500	0.0489		mg/Kg		98	70 - 125
Vinyl acetate	0.0500	0.0355		mg/Kg		71	40 - 153
Vinyl chloride	0.0500	0.0485		mg/Kg		97	70 - 125
Xylenes, Total	0.100	0.0966		mg/Kg		97	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	94		75 - 131
Dibromofluoromethane	98		75 - 126
1,2-Dichloroethane-d4 (Surr)	97		70 - 134
Toluene-d8 (Surr)	98		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

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

Lab Sample ID: LCSD 500-457217/5

Matrix: Solid

Analysis Batch: 457217

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	0.0448		mg/Kg		90	40 - 150	0	30
Benzene	0.0500	0.0491		mg/Kg		98	70 - 125	1	30
Bromodichloromethane	0.0500	0.0490		mg/Kg		98	67 - 129	2	30
Bromoform	0.0500	0.0489		mg/Kg		98	68 - 136	3	30
Bromomethane	0.0500	0.0588		mg/Kg		118	70 - 130	11	30
2-Butanone (MEK)	0.0500	0.0370		mg/Kg		74	47 - 138	6	30
Carbon disulfide	0.0500	0.0484		mg/Kg		97	70 - 129	0	30
Carbon tetrachloride	0.0500	0.0514		mg/Kg		103	75 - 125	1	30
Chlorobenzene	0.0500	0.0469		mg/Kg		94	50 - 150	2	30
Chloroethane	0.0500	0.0749	*	mg/Kg		150	75 - 125	11	30
Chloroform	0.0500	0.0503		mg/Kg		101	57 - 135	1	30
Chloromethane	0.0500	0.0540		mg/Kg		108	70 - 125	10	30
cis-1,2-Dichloroethene	0.0500	0.0488		mg/Kg		98	70 - 125	1	30
cis-1,3-Dichloropropene	0.0500	0.0471		mg/Kg		94	70 - 125	1	30
Dibromochloromethane	0.0500	0.0488		mg/Kg		98	69 - 125	2	30
1,1-Dichloroethane	0.0500	0.0504		mg/Kg		101	70 - 125	1	30
1,2-Dichloroethane	0.0500	0.0499		mg/Kg		100	70 - 130	0	30
1,1-Dichloroethene	0.0500	0.0480		mg/Kg		96	70 - 120	2	30
1,2-Dichloropropane	0.0500	0.0474		mg/Kg		95	70 - 125	3	30
Ethylbenzene	0.0500	0.0481		mg/Kg		96	61 - 136	1	30
2-Hexanone	0.0500	0.0407		mg/Kg		81	48 - 146	2	30
Methylene Chloride	0.0500	0.0472		mg/Kg		94	70 - 126	2	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0426		mg/Kg		85	50 - 148	8	30
Methyl tert-butyl ether	0.0500	0.0507		mg/Kg		101	50 - 140	8	30
Styrene	0.0500	0.0498		mg/Kg		100	70 - 125	0	30
1,1,1,2-Tetrachloroethane	0.0500	0.0452		mg/Kg		90	70 - 122	5	30
Tetrachloroethene	0.0500	0.0474		mg/Kg		95	70 - 124	1	30
Toluene	0.0500	0.0479		mg/Kg		96	70 - 125	0	30
trans-1,2-Dichloroethene	0.0500	0.0509		mg/Kg		102	70 - 125	3	30
trans-1,3-Dichloropropene	0.0500	0.0459		mg/Kg		92	70 - 125	3	30
1,1,1-Trichloroethane	0.0500	0.0511		mg/Kg		102	70 - 128	2	30
1,1,2-Trichloroethane	0.0500	0.0471		mg/Kg		94	70 - 125	2	30
Trichloroethene	0.0500	0.0476		mg/Kg		95	70 - 125	3	30
Vinyl acetate	0.0500	0.0363		mg/Kg		73	40 - 153	2	30
Vinyl chloride	0.0500	0.0553		mg/Kg		111	70 - 125	13	30
Xylenes, Total	0.100	0.0986		mg/Kg		99	53 - 147	2	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	92		75 - 131
Dibromofluoromethane	101		75 - 126
1,2-Dichloroethane-d4 (Surr)	97		70 - 134
Toluene-d8 (Surr)	101		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

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

Lab Sample ID: MB 500-456711/1-A

Matrix: Solid

Analysis Batch: 457132

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 456711

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0060		0.033	0.0060	mg/Kg		10/25/18 07:13	10/27/18 14:42	1
Acenaphthylene	<0.0044		0.033	0.0044	mg/Kg		10/25/18 07:13	10/27/18 14:42	1
Anthracene	<0.0056		0.033	0.0056	mg/Kg		10/25/18 07:13	10/27/18 14:42	1
Benzo[a]anthracene	<0.0045		0.033	0.0045	mg/Kg		10/25/18 07:13	10/27/18 14:42	1
Benzo[a]pyrene	<0.0064		0.033	0.0064	mg/Kg		10/25/18 07:13	10/27/18 14:42	1
Benzo[b]fluoranthene	<0.0072		0.033	0.0072	mg/Kg		10/25/18 07:13	10/27/18 14:42	1
Benzo[g,h,i]perylene	<0.011		0.033	0.011	mg/Kg		10/25/18 07:13	10/27/18 14:42	1
Benzo[k]fluoranthene	<0.0098		0.033	0.0098	mg/Kg		10/25/18 07:13	10/27/18 14:42	1
Bis(2-chloroethoxy)methane	<0.034		0.17	0.034	mg/Kg		10/25/18 07:13	10/27/18 14:42	1
Bis(2-chloroethyl)ether	<0.050		0.17	0.050	mg/Kg		10/25/18 07:13	10/27/18 14:42	1
Bis(2-ethylhexyl) phthalate	<0.061		0.17	0.061	mg/Kg		10/25/18 07:13	10/27/18 14:42	1
4-Bromophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		10/25/18 07:13	10/27/18 14:42	1
Butyl benzyl phthalate	<0.063		0.17	0.063	mg/Kg		10/25/18 07:13	10/27/18 14:42	1
Carbazole	<0.083		0.17	0.083	mg/Kg		10/25/18 07:13	10/27/18 14:42	1
4-Chloroaniline	<0.16		0.67	0.16	mg/Kg		10/25/18 07:13	10/27/18 14:42	1
4-Chloro-3-methylphenol	<0.11		0.33	0.11	mg/Kg		10/25/18 07:13	10/27/18 14:42	1
2-Chloronaphthalene	<0.037		0.17	0.037	mg/Kg		10/25/18 07:13	10/27/18 14:42	1
2-Chlorophenol	<0.057		0.17	0.057	mg/Kg		10/25/18 07:13	10/27/18 14:42	1
4-Chlorophenyl phenyl ether	<0.039		0.17	0.039	mg/Kg		10/25/18 07:13	10/27/18 14:42	1
Chrysene	<0.0091		0.033	0.0091	mg/Kg		10/25/18 07:13	10/27/18 14:42	1
Dibenz(a,h)anthracene	<0.0064		0.033	0.0064	mg/Kg		10/25/18 07:13	10/27/18 14:42	1
Dibenzofuran	<0.039		0.17	0.039	mg/Kg		10/25/18 07:13	10/27/18 14:42	1
1,2-Dichlorobenzene	<0.040		0.17	0.040	mg/Kg		10/25/18 07:13	10/27/18 14:42	1
1,3-Dichlorobenzene	<0.037		0.17	0.037	mg/Kg		10/25/18 07:13	10/27/18 14:42	1
1,4-Dichlorobenzene	<0.043		0.17	0.043	mg/Kg		10/25/18 07:13	10/27/18 14:42	1
3,3'-Dichlorobenzidine	<0.047		0.17	0.047	mg/Kg		10/25/18 07:13	10/27/18 14:42	1
2,4-Dichlorophenol	<0.079		0.33	0.079	mg/Kg		10/25/18 07:13	10/27/18 14:42	1
Diethyl phthalate	<0.056		0.17	0.056	mg/Kg		10/25/18 07:13	10/27/18 14:42	1
2,4-Dimethylphenol	<0.13		0.33	0.13	mg/Kg		10/25/18 07:13	10/27/18 14:42	1
Dimethyl phthalate	<0.043		0.17	0.043	mg/Kg		10/25/18 07:13	10/27/18 14:42	1
Di-n-butyl phthalate	<0.051		0.17	0.051	mg/Kg		10/25/18 07:13	10/27/18 14:42	1
4,6-Dinitro-2-methylphenol	<0.27		0.67	0.27	mg/Kg		10/25/18 07:13	10/27/18 14:42	1
2,4-Dinitrophenol	<0.59		0.67	0.59	mg/Kg		10/25/18 07:13	10/27/18 14:42	1
2,4-Dinitrotoluene	<0.053		0.17	0.053	mg/Kg		10/25/18 07:13	10/27/18 14:42	1
2,6-Dinitrotoluene	<0.065		0.17	0.065	mg/Kg		10/25/18 07:13	10/27/18 14:42	1
Di-n-octyl phthalate	<0.054		0.17	0.054	mg/Kg		10/25/18 07:13	10/27/18 14:42	1
Fluoranthene	<0.0062		0.033	0.0062	mg/Kg		10/25/18 07:13	10/27/18 14:42	1
Fluorene	<0.0047		0.033	0.0047	mg/Kg		10/25/18 07:13	10/27/18 14:42	1
Hexachlorobenzene	<0.0077		0.067	0.0077	mg/Kg		10/25/18 07:13	10/27/18 14:42	1
Hexachlorobutadiene	<0.052		0.17	0.052	mg/Kg		10/25/18 07:13	10/27/18 14:42	1
Hexachlorocyclopentadiene	<0.19		0.67	0.19	mg/Kg		10/25/18 07:13	10/27/18 14:42	1
Hexachloroethane	<0.051		0.17	0.051	mg/Kg		10/25/18 07:13	10/27/18 14:42	1
Indeno[1,2,3-cd]pyrene	<0.0086		0.033	0.0086	mg/Kg		10/25/18 07:13	10/27/18 14:42	1
Isophorone	<0.037		0.17	0.037	mg/Kg		10/25/18 07:13	10/27/18 14:42	1
2-Methylnaphthalene	<0.0061		0.067	0.0061	mg/Kg		10/25/18 07:13	10/27/18 14:42	1
2-Methylphenol	<0.053		0.17	0.053	mg/Kg		10/25/18 07:13	10/27/18 14:42	1
3 & 4 Methylphenol	<0.055		0.17	0.055	mg/Kg		10/25/18 07:13	10/27/18 14:42	1
Naphthalene	<0.0051		0.033	0.0051	mg/Kg		10/25/18 07:13	10/27/18 14:42	1

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

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

Lab Sample ID: MB 500-456711/1-A
Matrix: Solid
Analysis Batch: 457132

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 456711

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	<0.045		0.17	0.045	mg/Kg		10/25/18 07:13	10/27/18 14:42	1
3-Nitroaniline	<0.10		0.33	0.10	mg/Kg		10/25/18 07:13	10/27/18 14:42	1
4-Nitroaniline	<0.14		0.33	0.14	mg/Kg		10/25/18 07:13	10/27/18 14:42	1
Nitrobenzene	<0.0083		0.033	0.0083	mg/Kg		10/25/18 07:13	10/27/18 14:42	1
2-Nitrophenol	<0.079		0.33	0.079	mg/Kg		10/25/18 07:13	10/27/18 14:42	1
4-Nitrophenol	<0.32		0.67	0.32	mg/Kg		10/25/18 07:13	10/27/18 14:42	1
N-Nitrosodi-n-propylamine	<0.041		0.067	0.041	mg/Kg		10/25/18 07:13	10/27/18 14:42	1
N-Nitrosodiphenylamine	<0.039		0.17	0.039	mg/Kg		10/25/18 07:13	10/27/18 14:42	1
2,2'-oxybis[1-chloropropane]	<0.039		0.17	0.039	mg/Kg		10/25/18 07:13	10/27/18 14:42	1
Pentachlorophenol	<0.53		0.67	0.53	mg/Kg		10/25/18 07:13	10/27/18 14:42	1
Phenanthrene	<0.0046		0.033	0.0046	mg/Kg		10/25/18 07:13	10/27/18 14:42	1
Phenol	<0.074		0.17	0.074	mg/Kg		10/25/18 07:13	10/27/18 14:42	1
Pyrene	<0.0066		0.033	0.0066	mg/Kg		10/25/18 07:13	10/27/18 14:42	1
1,2,4-Trichlorobenzene	<0.036		0.17	0.036	mg/Kg		10/25/18 07:13	10/27/18 14:42	1
2,4,5-Trichlorophenol	<0.076		0.33	0.076	mg/Kg		10/25/18 07:13	10/27/18 14:42	1
2,4,6-Trichlorophenol	<0.11		0.33	0.11	mg/Kg		10/25/18 07:13	10/27/18 14:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	113		43 - 145	10/25/18 07:13	10/27/18 14:42	1
2-Fluorophenol	116		31 - 166	10/25/18 07:13	10/27/18 14:42	1
Nitrobenzene-d5	101		37 - 147	10/25/18 07:13	10/27/18 14:42	1
Phenol-d5	105		30 - 153	10/25/18 07:13	10/27/18 14:42	1
Terphenyl-d14	118		42 - 157	10/25/18 07:13	10/27/18 14:42	1
2,4,6-Tribromophenol	69		31 - 143	10/25/18 07:13	10/27/18 14:42	1

Lab Sample ID: LCS 500-456711/2-A
Matrix: Solid
Analysis Batch: 457132

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 456711

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1.33	1.53		mg/Kg		114	65 - 124
Acenaphthylene	1.33	1.48		mg/Kg		111	68 - 120
Anthracene	1.33	1.45		mg/Kg		109	70 - 114
Benzo[a]anthracene	1.33	1.54		mg/Kg		116	67 - 122
Benzo[a]pyrene	1.33	1.51		mg/Kg		114	65 - 133
Benzo[b]fluoranthene	1.33	1.52		mg/Kg		114	69 - 129
Benzo[g,h,i]perylene	1.33	1.64		mg/Kg		123	72 - 131
Benzo[k]fluoranthene	1.33	1.56		mg/Kg		117	68 - 127
Bis(2-chloroethoxy)methane	1.33	1.45		mg/Kg		108	60 - 112
Bis(2-chloroethyl)ether	1.33	1.36		mg/Kg		102	55 - 111
Bis(2-ethylhexyl) phthalate	1.33	1.71		mg/Kg		128	72 - 131
4-Bromophenyl phenyl ether	1.33	1.47		mg/Kg		110	68 - 118
Butyl benzyl phthalate	1.33	1.66		mg/Kg		124	71 - 129
Carbazole	1.33	1.55		mg/Kg		116	65 - 142
4-Chloroaniline	1.33	1.22		mg/Kg		92	30 - 150
4-Chloro-3-methylphenol	1.33	1.63		mg/Kg		122	65 - 122
2-Chloronaphthalene	1.33	1.41		mg/Kg		106	69 - 114
2-Chlorophenol	1.33	1.37		mg/Kg		103	64 - 110

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

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

Lab Sample ID: LCS 500-456711/2-A

Matrix: Solid

Analysis Batch: 457132

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 456711

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorophenyl phenyl ether	1.33	1.45		mg/Kg		109	62 - 119
Chrysene	1.33	1.41		mg/Kg		106	63 - 120
Dibenz(a,h)anthracene	1.33	1.47		mg/Kg		110	64 - 131
Dibenzofuran	1.33	1.48		mg/Kg		111	66 - 115
1,2-Dichlorobenzene	1.33	1.34		mg/Kg		100	62 - 110
1,3-Dichlorobenzene	1.33	1.33		mg/Kg		100	65 - 124
1,4-Dichlorobenzene	1.33	1.35		mg/Kg		101	61 - 110
3,3'-Dichlorobenzidine	1.33	1.15		mg/Kg		86	35 - 128
2,4-Dichlorophenol	1.33	1.51		mg/Kg		113	58 - 120
Diethyl phthalate	1.33	1.49		mg/Kg		112	58 - 120
2,4-Dimethylphenol	1.33	1.45		mg/Kg		109	60 - 110
Dimethyl phthalate	1.33	1.47		mg/Kg		110	69 - 116
Di-n-butyl phthalate	1.33	1.59		mg/Kg		119	65 - 120
4,6-Dinitro-2-methylphenol	2.67	1.75		mg/Kg		66	10 - 110
2,4-Dinitrophenol	2.67	1.05		mg/Kg		39	10 - 100
2,4-Dinitrotoluene	1.33	1.57		mg/Kg		118	69 - 124
2,6-Dinitrotoluene	1.33	1.55		mg/Kg		116	70 - 123
Di-n-octyl phthalate	1.33	1.71		mg/Kg		128	68 - 134
Fluoranthene	1.33	1.58		mg/Kg		119	62 - 120
Fluorene	1.33	1.44		mg/Kg		108	62 - 120
Hexachlorobenzene	1.33	1.44		mg/Kg		108	63 - 124
Hexachlorobutadiene	1.33	1.55		mg/Kg		116	56 - 120
Hexachlorocyclopentadiene	1.33	0.505	J	mg/Kg		38	10 - 133
Hexachloroethane	1.33	1.45		mg/Kg		109	60 - 114
Indeno[1,2,3-cd]pyrene	1.33	1.50		mg/Kg		113	68 - 130
Isophorone	1.33	1.38		mg/Kg		103	55 - 110
2-Methylnaphthalene	1.33	1.44		mg/Kg		108	69 - 112
2-Methylphenol	1.33	1.30		mg/Kg		98	60 - 120
3 & 4 Methylphenol	1.33	1.26		mg/Kg		94	57 - 120
Naphthalene	1.33	1.45		mg/Kg		109	63 - 110
2-Nitroaniline	1.33	1.57		mg/Kg		118	57 - 124
3-Nitroaniline	1.33	1.27		mg/Kg		95	40 - 122
4-Nitroaniline	1.33	1.43		mg/Kg		107	60 - 160
Nitrobenzene	1.33	1.48		mg/Kg		111	60 - 116
2-Nitrophenol	1.33	1.48		mg/Kg		111	60 - 120
4-Nitrophenol	2.67	2.94		mg/Kg		110	30 - 122
N-Nitrosodi-n-propylamine	1.33	1.21		mg/Kg		91	56 - 118
N-Nitrosodiphenylamine	1.33	1.48		mg/Kg		111	65 - 112
2,2'-oxybis[1-chloropropane]	1.33	1.17		mg/Kg		88	40 - 124
Pentachlorophenol	2.67	1.49		mg/Kg		56	13 - 112
Phenanthrene	1.33	1.48		mg/Kg		111	62 - 120
Phenol	1.33	1.37		mg/Kg		103	56 - 122
Pyrene	1.33	1.56		mg/Kg		117	61 - 128
1,2,4-Trichlorobenzene	1.33	1.51		mg/Kg		113	66 - 117
2,4,5-Trichlorophenol	1.33	1.46		mg/Kg		110	50 - 120
2,4,6-Trichlorophenol	1.33	1.41		mg/Kg		106	57 - 120

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

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

Lab Sample ID: LCS 500-456711/2-A
Matrix: Solid
Analysis Batch: 457132

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 456711

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	111		43 - 145
2-Fluorophenol	123		31 - 166
Nitrobenzene-d5	109		37 - 147
Phenol-d5	116		30 - 153
Terphenyl-d14	132		42 - 157
2,4,6-Tribromophenol	115		31 - 143

Lab Sample ID: 500-153433-1 MS
Matrix: Solid
Analysis Batch: 457200

Client Sample ID: 2947V-17-B35 (0-5)
Prep Type: Total/NA
Prep Batch: 456711

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	<0.0068		1.50	1.35		mg/Kg	☼	90	65 - 124
Acenaphthylene	<0.0050		1.50	1.37		mg/Kg	☼	91	68 - 120
Anthracene	<0.0063		1.50	1.41		mg/Kg	☼	94	70 - 114
Benzo[a]anthracene	<0.0051		1.50	1.44		mg/Kg	☼	96	67 - 122
Benzo[a]pyrene	<0.0073		1.50	1.24		mg/Kg	☼	83	65 - 133
Benzo[b]fluoranthene	<0.0081		1.50	1.43		mg/Kg	☼	95	69 - 129
Benzo[g,h,i]perylene	<0.012	F1	1.50	0.925	F1	mg/Kg	☼	61	72 - 131
Benzo[k]fluoranthene	<0.011		1.50	1.25		mg/Kg	☼	83	68 - 127
Bis(2-chloroethoxy)methane	<0.038		1.50	1.22		mg/Kg	☼	81	60 - 112
Bis(2-chloroethyl)ether	<0.056		1.50	1.13		mg/Kg	☼	75	55 - 111
Bis(2-ethylhexyl) phthalate	<0.069		1.50	1.45		mg/Kg	☼	96	72 - 131
4-Bromophenyl phenyl ether	<0.050		1.50	1.30		mg/Kg	☼	86	68 - 118
Butyl benzyl phthalate	<0.072		1.50	1.38		mg/Kg	☼	92	71 - 129
Carbazole	<0.094		1.50	1.52		mg/Kg	☼	101	65 - 142
4-Chloroaniline	<0.18		1.50	0.858		mg/Kg	☼	57	30 - 150
4-Chloro-3-methylphenol	<0.13		1.50	1.24		mg/Kg	☼	82	65 - 122
2-Chloronaphthalene	<0.042		1.50	1.32		mg/Kg	☼	88	69 - 114
2-Chlorophenol	<0.064		1.50	1.32		mg/Kg	☼	88	64 - 110
4-Chlorophenyl phenyl ether	<0.044		1.50	1.17		mg/Kg	☼	78	62 - 119
Chrysene	<0.010		1.50	1.38		mg/Kg	☼	92	63 - 120
Dibenz(a,h)anthracene	<0.0073		1.50	0.994		mg/Kg	☼	66	64 - 131
Dibenzofuran	<0.044		1.50	1.25		mg/Kg	☼	83	66 - 115
1,2-Dichlorobenzene	<0.045		1.50	1.17		mg/Kg	☼	78	62 - 110
1,3-Dichlorobenzene	<0.042		1.50	1.14		mg/Kg	☼	76	60 - 110
1,4-Dichlorobenzene	<0.048		1.50	1.17		mg/Kg	☼	78	61 - 110
3,3'-Dichlorobenzidine	<0.053		1.50	1.02		mg/Kg	☼	68	35 - 128
2,4-Dichlorophenol	<0.089		1.50	1.24		mg/Kg	☼	83	58 - 120
Diethyl phthalate	<0.064		1.50	1.30		mg/Kg	☼	86	58 - 120
2,4-Dimethylphenol	<0.14		1.50	1.24		mg/Kg	☼	82	60 - 110
Dimethyl phthalate	<0.049		1.50	1.27		mg/Kg	☼	84	69 - 116
Di-n-butyl phthalate	<0.057		1.50	1.35		mg/Kg	☼	90	65 - 120
4,6-Dinitro-2-methylphenol	<0.30	F1	3.01	<0.30	F1	mg/Kg	☼	0	10 - 110
2,4-Dinitrophenol	<0.66	F1	3.01	<0.66	F1	mg/Kg	☼	0	10 - 100
2,4-Dinitrotoluene	<0.060		1.50	1.20		mg/Kg	☼	80	69 - 124
2,6-Dinitrotoluene	<0.074		1.50	1.29		mg/Kg	☼	86	70 - 123
Di-n-octyl phthalate	<0.061		1.50	1.56		mg/Kg	☼	104	68 - 134

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

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

Lab Sample ID: 500-153433-1 MS

Matrix: Solid

Analysis Batch: 457200

Client Sample ID: 2947V-17-B35 (0-5)

Prep Type: Total/NA

Prep Batch: 456711

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier					
Fluoranthene	<0.0070		1.50	1.37		mg/Kg	☼	91		62 - 120
Fluorene	<0.0053		1.50	1.21		mg/Kg	☼	81		62 - 120
Hexachlorobenzene	<0.0087		1.50	1.28		mg/Kg	☼	85		63 - 124
Hexachlorobutadiene	<0.059		1.50	1.14		mg/Kg	☼	76		56 - 120
Hexachlorocyclopentadiene	<0.22	F1	1.50	<0.22	F1	mg/Kg	☼	0		10 - 133
Hexachloroethane	<0.057		1.50	1.10		mg/Kg	☼	73		60 - 114
Indeno[1,2,3-cd]pyrene	<0.0098	F1	1.50	0.973	F1	mg/Kg	☼	65		68 - 130
Isophorone	<0.042		1.50	1.22		mg/Kg	☼	81		55 - 110
2-Methylnaphthalene	<0.0069		1.50	1.21		mg/Kg	☼	80		69 - 112
2-Methylphenol	<0.060		1.50	1.36		mg/Kg	☼	90		60 - 120
3 & 4 Methylphenol	<0.063		1.50	1.36		mg/Kg	☼	90		57 - 120
Naphthalene	<0.0058		1.50	1.23		mg/Kg	☼	82		63 - 110
2-Nitroaniline	<0.051		1.50	1.30		mg/Kg	☼	86		57 - 124
3-Nitroaniline	<0.12		1.50	1.18		mg/Kg	☼	79		40 - 122
4-Nitroaniline	<0.16		1.50	1.21		mg/Kg	☼	81		60 - 160
Nitrobenzene	<0.0094		1.50	1.26		mg/Kg	☼	84		60 - 116
2-Nitrophenol	<0.089		1.50	1.23		mg/Kg	☼	82		60 - 120
4-Nitrophenol	<0.36		3.01	1.86		mg/Kg	☼	62		30 - 122
N-Nitrosodi-n-propylamine	<0.046		1.50	1.27		mg/Kg	☼	84		56 - 118
N-Nitrosodiphenylamine	<0.044		1.50	1.30		mg/Kg	☼	86		65 - 112
2,2'-oxybis[1-chloropropane]	<0.044		1.50	1.16		mg/Kg	☼	77		40 - 124
Pentachlorophenol	<0.60	F1	3.01	<0.60	F1	mg/Kg	☼	0		13 - 112
Phenanthrene	<0.0052		1.50	1.35		mg/Kg	☼	90		62 - 120
Phenol	<0.084		1.50	1.38		mg/Kg	☼	92		56 - 122
Pyrene	<0.0075		1.50	1.36		mg/Kg	☼	90		61 - 128
1,2,4-Trichlorobenzene	<0.041		1.50	1.27		mg/Kg	☼	85		66 - 117
2,4,5-Trichlorophenol	<0.086		1.50	1.15		mg/Kg	☼	77		50 - 120
2,4,6-Trichlorophenol	<0.13		1.50	1.11		mg/Kg	☼	74		57 - 120

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	90		43 - 145
2-Fluorophenol	122		31 - 166
Nitrobenzene-d5	89		37 - 147
Phenol-d5	101		30 - 153
Terphenyl-d14	97		42 - 157
2,4,6-Tribromophenol	80		31 - 143

Lab Sample ID: 500-153433-1 MSD

Matrix: Solid

Analysis Batch: 457200

Client Sample ID: 2947V-17-B35 (0-5)

Prep Type: Total/NA

Prep Batch: 456711

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
Acenaphthene	<0.0068		1.51	1.57		mg/Kg	☼	104		65 - 124	15	30
Acenaphthylene	<0.0050		1.51	1.59		mg/Kg	☼	105		68 - 120	15	30
Anthracene	<0.0063		1.51	1.58		mg/Kg	☼	105		70 - 114	12	30
Benzo[a]anthracene	<0.0051		1.51	1.61		mg/Kg	☼	106		67 - 122	11	30
Benzo[a]pyrene	<0.0073		1.51	1.40		mg/Kg	☼	92		65 - 133	12	30
Benzo[b]fluoranthene	<0.0081		1.51	1.61		mg/Kg	☼	106		69 - 129	12	30

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

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

Lab Sample ID: 500-153433-1 MSD

Matrix: Solid

Analysis Batch: 457200

Client Sample ID: 2947V-17-B35 (0-5)

Prep Type: Total/NA

Prep Batch: 456711

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Benzo[g,h,i]perylene	<0.012	F1	1.51	1.05	F1	mg/Kg	☼	69	72 - 131	13	30
Benzo[k]fluoranthene	<0.011		1.51	1.42		mg/Kg	☼	94	68 - 127	13	30
Bis(2-chloroethoxy)methane	<0.038		1.51	1.41		mg/Kg	☼	93	60 - 112	14	30
Bis(2-chloroethyl)ether	<0.056		1.51	1.33		mg/Kg	☼	88	55 - 111	16	30
Bis(2-ethylhexyl) phthalate	<0.069		1.51	1.61		mg/Kg	☼	106	72 - 131	11	30
4-Bromophenyl phenyl ether	<0.050		1.51	1.47		mg/Kg	☼	97	68 - 118	13	30
Butyl benzyl phthalate	<0.072		1.51	1.52		mg/Kg	☼	101	71 - 129	10	30
Carbazole	<0.094		1.51	1.68		mg/Kg	☼	111	65 - 142	10	30
4-Chloroaniline	<0.18		1.51	0.785		mg/Kg	☼	52	30 - 150	9	30
4-Chloro-3-methylphenol	<0.13		1.51	1.44		mg/Kg	☼	95	65 - 122	15	30
2-Chloronaphthalene	<0.042		1.51	1.53		mg/Kg	☼	101	69 - 114	14	30
2-Chlorophenol	<0.064		1.51	1.54		mg/Kg	☼	102	64 - 110	16	30
4-Chlorophenyl phenyl ether	<0.044		1.51	1.32		mg/Kg	☼	87	62 - 119	12	30
Chrysene	<0.010		1.51	1.55		mg/Kg	☼	102	63 - 120	11	30
Dibenz(a,h)anthracene	<0.0073		1.51	1.13		mg/Kg	☼	74	64 - 131	13	30
Dibenzofuran	<0.044		1.51	1.43		mg/Kg	☼	95	66 - 115	14	30
1,2-Dichlorobenzene	<0.045		1.51	1.38		mg/Kg	☼	91	62 - 110	16	30
1,3-Dichlorobenzene	<0.042		1.51	1.36		mg/Kg	☼	90	60 - 110	18	30
1,4-Dichlorobenzene	<0.048		1.51	1.40		mg/Kg	☼	93	61 - 110	18	30
3,3'-Dichlorobenzidine	<0.053		1.51	1.13		mg/Kg	☼	74	35 - 128	10	30
2,4-Dichlorophenol	<0.089		1.51	1.49		mg/Kg	☼	98	58 - 120	18	30
Diethyl phthalate	<0.064		1.51	1.47		mg/Kg	☼	97	58 - 120	13	30
2,4-Dimethylphenol	<0.14		1.51	1.40		mg/Kg	☼	93	60 - 110	13	30
Dimethyl phthalate	<0.049		1.51	1.47		mg/Kg	☼	97	69 - 116	15	30
Di-n-butyl phthalate	<0.057		1.51	1.52		mg/Kg	☼	101	65 - 120	12	30
4,6-Dinitro-2-methylphenol	<0.30	F1	3.03	<0.30	F1	mg/Kg	☼	0	10 - 110	NC	30
2,4-Dinitrophenol	<0.66	F1	3.03	<0.66	F1	mg/Kg	☼	0	10 - 100	NC	30
2,4-Dinitrotoluene	<0.060		1.51	1.39		mg/Kg	☼	92	69 - 124	15	30
2,6-Dinitrotoluene	<0.074		1.51	1.48		mg/Kg	☼	98	70 - 123	14	30
Di-n-octyl phthalate	<0.061		1.51	1.73		mg/Kg	☼	114	68 - 134	10	30
Fluoranthene	<0.0070		1.51	1.56		mg/Kg	☼	103	62 - 120	13	30
Fluorene	<0.0053		1.51	1.38		mg/Kg	☼	91	62 - 120	13	30
Hexachlorobenzene	<0.0087		1.51	1.44		mg/Kg	☼	95	63 - 124	12	30
Hexachlorobutadiene	<0.059		1.51	1.35		mg/Kg	☼	89	56 - 120	16	30
Hexachlorocyclopentadiene	<0.22	F1	1.51	<0.22	F1	mg/Kg	☼	0	10 - 133	NC	30
Hexachloroethane	<0.057		1.51	1.31		mg/Kg	☼	86	60 - 114	17	30
Indeno[1,2,3-cd]pyrene	<0.0098	F1	1.51	1.10		mg/Kg	☼	73	68 - 130	12	30
Isophorone	<0.042		1.51	1.39		mg/Kg	☼	92	55 - 110	13	30
2-Methylnaphthalene	<0.0069		1.51	1.38		mg/Kg	☼	91	69 - 112	13	30
2-Methylphenol	<0.060		1.51	1.56		mg/Kg	☼	103	60 - 120	14	30
3 & 4 Methylphenol	<0.063		1.51	1.54		mg/Kg	☼	102	57 - 120	12	30
Naphthalene	<0.0058		1.51	1.41		mg/Kg	☼	93	63 - 110	14	30
2-Nitroaniline	<0.051		1.51	1.47		mg/Kg	☼	97	57 - 124	13	30
3-Nitroaniline	<0.12		1.51	1.19		mg/Kg	☼	78	40 - 122	0	30
4-Nitroaniline	<0.16		1.51	1.34		mg/Kg	☼	88	60 - 160	10	30
Nitrobenzene	<0.0094		1.51	1.51		mg/Kg	☼	100	60 - 116	18	30
2-Nitrophenol	<0.089		1.51	1.44		mg/Kg	☼	95	60 - 120	16	30
4-Nitrophenol	<0.36		3.03	2.14		mg/Kg	☼	71	30 - 122	14	30

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

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

Lab Sample ID: 500-153433-1 MSD

Matrix: Solid

Analysis Batch: 457200

Client Sample ID: 2947V-17-B35 (0-5)

Prep Type: Total/NA

Prep Batch: 456711

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
N-Nitrosodi-n-propylamine	<0.046		1.51	1.49		mg/Kg	☼	98	56 - 118	16	30
N-Nitrosodiphenylamine	<0.044		1.51	1.43		mg/Kg	☼	95	65 - 112	10	30
2,2'-oxybis[1-chloropropane]	<0.044		1.51	1.39		mg/Kg	☼	92	40 - 124	18	30
Pentachlorophenol	<0.60	F1	3.03	<0.61	F1	mg/Kg	☼	0	13 - 112	NC	30
Phenanthrene	<0.0052		1.51	1.52		mg/Kg	☼	101	62 - 120	12	30
Phenol	<0.084		1.51	1.56		mg/Kg	☼	103	56 - 122	12	30
Pyrene	<0.0075		1.51	1.53		mg/Kg	☼	101	61 - 128	12	30
1,2,4-Trichlorobenzene	<0.041		1.51	1.50		mg/Kg	☼	99	66 - 117	17	30
2,4,5-Trichlorophenol	<0.086		1.51	1.33		mg/Kg	☼	88	50 - 120	14	30
2,4,6-Trichlorophenol	<0.13		1.51	1.37		mg/Kg	☼	90	57 - 120	21	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorobiphenyl	100		43 - 145
2-Fluorophenol	135		31 - 166
Nitrobenzene-d5	96		37 - 147
Phenol-d5	116		30 - 153
Terphenyl-d14	107		42 - 157
2,4,6-Tribromophenol	95		31 - 143

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-456652/1-A

Matrix: Solid

Analysis Batch: 456923

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 456652

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.39		2.0	0.39	mg/Kg		10/24/18 17:02	10/25/18 17:14	1
Arsenic	<0.34		1.0	0.34	mg/Kg		10/24/18 17:02	10/25/18 17:14	1
Barium	<0.11		1.0	0.11	mg/Kg		10/24/18 17:02	10/25/18 17:14	1
Beryllium	<0.093		0.40	0.093	mg/Kg		10/24/18 17:02	10/25/18 17:14	1
Cadmium	0.0666	J	0.20	0.036	mg/Kg		10/24/18 17:02	10/25/18 17:14	1
Chromium	0.664	J	1.0	0.50	mg/Kg		10/24/18 17:02	10/25/18 17:14	1
Cobalt	<0.13		0.50	0.13	mg/Kg		10/24/18 17:02	10/25/18 17:14	1
Copper	0.602	J	1.0	0.28	mg/Kg		10/24/18 17:02	10/25/18 17:14	1
Iron	13.1	J	20	10	mg/Kg		10/24/18 17:02	10/25/18 17:14	1
Lead	<0.23		0.50	0.23	mg/Kg		10/24/18 17:02	10/25/18 17:14	1
Magnesium	<5.0		10	5.0	mg/Kg		10/24/18 17:02	10/25/18 17:14	1
Calcium	9.08	J	20	3.4	mg/Kg		10/24/18 17:02	10/25/18 17:14	1
Manganese	0.179	J	1.0	0.15	mg/Kg		10/24/18 17:02	10/25/18 17:14	1
Nickel	<0.29		1.0	0.29	mg/Kg		10/24/18 17:02	10/25/18 17:14	1
Selenium	<0.59		1.0	0.59	mg/Kg		10/24/18 17:02	10/25/18 17:14	1
Silver	<0.13		0.50	0.13	mg/Kg		10/24/18 17:02	10/25/18 17:14	1
Thallium	<0.50		1.0	0.50	mg/Kg		10/24/18 17:02	10/25/18 17:14	1
Vanadium	<0.12		0.50	0.12	mg/Kg		10/24/18 17:02	10/25/18 17:14	1
Zinc	<0.88		2.0	0.88	mg/Kg		10/24/18 17:02	10/25/18 17:14	1
Potassium	<18		50	18	mg/Kg		10/24/18 17:02	10/25/18 17:14	1
Sodium	<15		100	15	mg/Kg		10/24/18 17:02	10/25/18 17:14	1

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

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

Lab Sample ID: LCS 500-456652/2-A
Matrix: Solid
Analysis Batch: 456923

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 456652
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	50.0	48.2		mg/Kg		96	80 - 120
Arsenic	10.0	9.37		mg/Kg		94	80 - 120
Barium	200	193		mg/Kg		96	80 - 120
Beryllium	5.00	4.64		mg/Kg		93	80 - 120
Cadmium	5.00	4.78		mg/Kg		96	80 - 120
Chromium	20.0	19.4		mg/Kg		97	80 - 120
Cobalt	50.0	47.3		mg/Kg		95	80 - 120
Copper	25.0	24.8		mg/Kg		99	80 - 120
Iron	100	111		mg/Kg		111	80 - 120
Lead	10.0	8.89		mg/Kg		89	80 - 120
Magnesium	1000	921		mg/Kg		92	80 - 120
Calcium	1000	946		mg/Kg		95	80 - 120
Manganese	50.0	47.6		mg/Kg		95	80 - 120
Nickel	50.0	47.1		mg/Kg		94	80 - 120
Selenium	10.0	9.44		mg/Kg		94	80 - 120
Silver	5.00	4.60		mg/Kg		92	80 - 120
Thallium	10.0	8.81		mg/Kg		88	80 - 120
Vanadium	50.0	47.5		mg/Kg		95	80 - 120
Zinc	50.0	45.7		mg/Kg		91	80 - 120
Potassium	1000	957		mg/Kg		96	80 - 120
Sodium	1000	995		mg/Kg		99	80 - 120

Lab Sample ID: 500-153433-1 MS
Matrix: Solid
Analysis Batch: 456923

Client Sample ID: 2947V-17-B35 (0-5)
Prep Type: Total/NA
Prep Batch: 456652
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	<0.22	F1	27.8	4.07	F1	mg/Kg	☼	15	75 - 125
Arsenic	9.0	F1	5.57	13.0	F1	mg/Kg	☼	73	75 - 125
Barium	74	F1	111	155	F1	mg/Kg	☼	73	75 - 125
Beryllium	0.65	F1	2.78	2.55	F1	mg/Kg	☼	68	75 - 125
Cadmium	0.095	J B F1	2.78	1.93	F1	mg/Kg	☼	66	75 - 125
Chromium	16	B	11.1	24.9		mg/Kg	☼	84	75 - 125
Cobalt	13		27.8	39.9		mg/Kg	☼	97	75 - 125
Copper	21	B	13.9	31.7		mg/Kg	☼	80	75 - 125
Iron	19000	B	55.7	20100	4	mg/Kg	☼	1513	75 - 125
Lead	16		5.57	21.6		mg/Kg	☼	93	75 - 125
Magnesium	2800		557	3500	4	mg/Kg	☼	122	75 - 125
Calcium	1300	B F1	557	1610	F1	mg/Kg	☼	59	75 - 125
Manganese	540	B	27.8	566	4	mg/Kg	☼	102	75 - 125
Nickel	31		27.8	59.2		mg/Kg	☼	102	75 - 125
Selenium	0.34	J F1	5.57	3.77	F1	mg/Kg	☼	62	75 - 125
Silver	0.29	F1	2.78	2.18	F1	mg/Kg	☼	68	75 - 125
Thallium	<0.28		5.57	4.52		mg/Kg	☼	81	75 - 125
Vanadium	27		27.8	50.5		mg/Kg	☼	85	75 - 125
Zinc	68		27.8	95.8		mg/Kg	☼	99	75 - 125
Potassium	1300	F1	557	2680	F1	mg/Kg	☼	246	75 - 125
Sodium	140	F1	557	549	F1	mg/Kg	☼	73	75 - 125

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

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

Lab Sample ID: 500-153433-1 MSD

Matrix: Solid

Analysis Batch: 456923

Client Sample ID: 2947V-17-B35 (0-5)

Prep Type: Total/NA

Prep Batch: 456652

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	RPD	Limit
	Result	Qualifier		Result	Qualifier							
Antimony	<0.22	F1	26.9	3.76	F1	mg/Kg	☼	14	75 - 125	8		20
Arsenic	9.0	F1	5.39	12.8	F1	mg/Kg	☼	71	75 - 125	2		20
Barium	74	F1	108	152	F1	mg/Kg	☼	72	75 - 125	2		20
Beryllium	0.65	F1	2.69	2.50	F1	mg/Kg	☼	68	75 - 125	2		20
Cadmium	0.095	J B F1	2.69	1.93	F1	mg/Kg	☼	68	75 - 125	0		20
Chromium	16	B	10.8	24.7		mg/Kg	☼	85	75 - 125	1		20
Cobalt	13		26.9	39.8		mg/Kg	☼	100	75 - 125	0		20
Copper	21	B	13.5	31.5		mg/Kg	☼	81	75 - 125	0		20
Iron	19000	B	53.9	19700	4	mg/Kg	☼	770	75 - 125	2		20
Lead	16		5.39	21.8		mg/Kg	☼	100	75 - 125	1		20
Magnesium	2800		539	3450	4	mg/Kg	☼	116	75 - 125	1		20
Calcium	1300	B F1	539	1640	F1	mg/Kg	☼	67	75 - 125	2		20
Manganese	540	B	26.9	540	4	mg/Kg	☼	10	75 - 125	5		20
Nickel	31		26.9	58.3		mg/Kg	☼	102	75 - 125	2		20
Selenium	0.34	J F1	5.39	3.42	F1	mg/Kg	☼	57	75 - 125	10		20
Silver	0.29	F1	2.69	2.19	F1	mg/Kg	☼	70	75 - 125	0		20
Thallium	<0.28		5.39	4.59		mg/Kg	☼	85	75 - 125	2		20
Vanadium	27		26.9	49.9		mg/Kg	☼	85	75 - 125	1		20
Zinc	68		26.9	98.4		mg/Kg	☼	112	75 - 125	3		20
Potassium	1300	F1	539	2350	F1	mg/Kg	☼	192	75 - 125	13		20
Sodium	140	F1	539	537	F1	mg/Kg	☼	73	75 - 125	2		20

Lab Sample ID: 500-153433-1 DU

Matrix: Solid

Analysis Batch: 456923

Client Sample ID: 2947V-17-B35 (0-5)

Prep Type: Total/NA

Prep Batch: 456652

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD	Limit
	Result	Qualifier		Result					
Antimony	<0.22	F1	0.249	J	mg/Kg	☼		NC	20
Arsenic	9.0	F1	8.87		mg/Kg	☼		1	20
Barium	74	F1	74.8		mg/Kg	☼		1	20
Beryllium	0.65	F1	0.688		mg/Kg	☼		5	20
Cadmium	0.095	J B F1	0.0923	J	mg/Kg	☼		3	20
Chromium	16	B	16.4		mg/Kg	☼		5	20
Cobalt	13		12.9		mg/Kg	☼		0.3	20
Copper	21	B	20.8		mg/Kg	☼		1	20
Iron	19000	B	19400		mg/Kg	☼		0.9	20
Lead	16		16.3		mg/Kg	☼		0.3	20
Magnesium	2800		2930		mg/Kg	☼		4	20
Calcium	1300	B F1	1280		mg/Kg	☼		0.3	20
Manganese	540	B	538		mg/Kg	☼		0.1	20
Nickel	31		31.0		mg/Kg	☼		0.9	20
Selenium	0.34	J F1	0.499	J F5	mg/Kg	☼		39	20
Silver	0.29	F1	0.322		mg/Kg	☼		9	20
Thallium	<0.28		<0.26		mg/Kg	☼		NC	20
Vanadium	27		28.8		mg/Kg	☼		7	20
Zinc	68		70.0		mg/Kg	☼		3	20
Potassium	1300	F1	1520		mg/Kg	☼		15	20
Sodium	140	F1	146		mg/Kg	☼		1	20

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

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

Lab Sample ID: LCS 500-456853/2-A
Matrix: Solid
Analysis Batch: 457052

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 456853

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.100	0.0981		mg/L		98	80 - 120
Barium	0.500	0.503		mg/L		101	80 - 120
Beryllium	0.0500	0.0496		mg/L		99	80 - 120
Cadmium	0.0500	0.0497		mg/L		99	80 - 120
Chromium	0.200	0.207		mg/L		104	80 - 120
Cobalt	0.500	0.495		mg/L		99	80 - 120
Copper	0.250	0.259		mg/L		103	80 - 120
Iron	1.00	1.05		mg/L		105	80 - 120
Lead	0.100	0.0961		mg/L		96	80 - 120
Magnesium	10.0	9.61		mg/L		96	80 - 120
Calcium	10.0	10.1		mg/L		101	80 - 120
Manganese	0.500	0.516		mg/L		103	80 - 120
Nickel	0.500	0.494		mg/L		99	80 - 120
Selenium	0.100	0.0853		mg/L		85	80 - 120
Silver	0.0500	0.0470		mg/L		94	80 - 120
Vanadium	0.500	0.505		mg/L		101	80 - 120
Zinc	0.500	0.475	J	mg/L		95	80 - 120
Potassium	10.0	9.70		mg/L		97	80 - 120

Lab Sample ID: LCS 500-457290/2-A
Matrix: Solid
Analysis Batch: 457445

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 457290

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Manganese	0.500	0.499		mg/L		100	80 - 120

Lab Sample ID: LB 500-456609/1-C
Matrix: Solid
Analysis Batch: 457052

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 456853

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		10/25/18 15:16	10/26/18 11:49	1
Barium	<0.050		0.50	0.050	mg/L		10/25/18 15:16	10/26/18 11:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/25/18 15:16	10/26/18 11:49	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		10/25/18 15:16	10/26/18 11:49	1
Chromium	0.0132	J	0.025	0.010	mg/L		10/25/18 15:16	10/26/18 11:49	1
Cobalt	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 11:49	1
Copper	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 11:49	1
Iron	<0.20		0.40	0.20	mg/L		10/25/18 15:16	10/26/18 11:49	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/25/18 15:16	10/26/18 11:49	1
Magnesium	<0.50		2.5	0.50	mg/L		10/25/18 15:16	10/26/18 11:49	1
Calcium	<0.50		5.0	0.50	mg/L		10/25/18 15:16	10/26/18 11:49	1
Manganese	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 11:49	1
Nickel	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 11:49	1
Selenium	<0.020		0.050	0.020	mg/L		10/25/18 15:16	10/26/18 11:49	1
Silver	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 11:49	1
Vanadium	<0.010		0.025	0.010	mg/L		10/25/18 15:16	10/26/18 11:49	1
Zinc	<0.020		0.50	0.020	mg/L		10/25/18 15:16	10/26/18 11:49	1

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

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

Lab Sample ID: LB 500-456609/1-C
Matrix: Solid
Analysis Batch: 457052

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 456853

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	<0.50		2.5	0.50	mg/L		10/25/18 15:16	10/26/18 11:49	1

Lab Sample ID: 500-153433-13 MS
Matrix: Solid
Analysis Batch: 457052

Client Sample ID: 2947V-17-B21 (0-5)
Prep Type: TCLP
Prep Batch: 456853

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Arsenic	<0.010		0.100	0.104		mg/L		104	75 - 125
Barium	0.37	J	0.500	0.839		mg/L		94	75 - 125
Beryllium	<0.0040		0.0500	0.0509		mg/L		102	75 - 125
Cadmium	<0.0020		0.0500	0.0530		mg/L		106	75 - 125
Chromium	<0.010		0.200	0.198		mg/L		99	75 - 125
Cobalt	<0.010		0.500	0.511		mg/L		102	75 - 125
Copper	<0.010		0.250	0.282		mg/L		113	75 - 125
Iron	0.28	J F1	1.00	1.56	F1	mg/L		128	75 - 125
Lead	<0.0075		0.100	0.0980		mg/L		98	75 - 125
Magnesium	22		10.0	32.7		mg/L		104	75 - 125
Calcium	54		10.0	66.3	4	mg/L		125	75 - 125
Manganese	0.023	J	0.500	0.519		mg/L		99	75 - 125
Nickel	<0.010		0.500	0.506		mg/L		101	75 - 125
Selenium	<0.020		0.100	0.102		mg/L		102	75 - 125
Silver	<0.010		0.0500	0.0543		mg/L		109	75 - 125
Vanadium	<0.010		0.500	0.498		mg/L		100	75 - 125
Zinc	0.21	J	0.500	0.732		mg/L		105	75 - 125
Potassium	0.74	J	10.0	11.1		mg/L		103	75 - 125

Lab Sample ID: 500-153433-13 DU
Matrix: Solid
Analysis Batch: 457052

Client Sample ID: 2947V-17-B21 (0-5)
Prep Type: TCLP
Prep Batch: 456853

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Arsenic	<0.010		<0.010		mg/L		NC	20
Barium	0.37	J	0.371	J	mg/L		0.7	20
Beryllium	<0.0040		<0.0040		mg/L		NC	20
Cadmium	<0.0020		<0.0020		mg/L		NC	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	0.28	J F1	0.240	J	mg/L		14	20
Lead	<0.0075		<0.0075		mg/L		NC	20
Magnesium	22		22.6		mg/L		1	20
Calcium	54		55.1		mg/L		2	20
Manganese	0.023	J	0.0227	J	mg/L		0.5	20
Nickel	<0.010		<0.010		mg/L		NC	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	0.21	J	0.212	J	mg/L		3	20
Potassium	0.74	J	0.759	J	mg/L		3	20

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Lab Sample ID: LB 500-456606/1-B
Matrix: Solid
Analysis Batch: 457445

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 457290

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.010		0.025	0.010	mg/L		10/29/18 08:53	10/29/18 18:32	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-456853/2-A
Matrix: Solid
Analysis Batch: 457068

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 456853

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.453		mg/L		91	80 - 120
Thallium	0.100	0.107		mg/L		107	80 - 120

Lab Sample ID: LB 500-456609/1-C
Matrix: Solid
Analysis Batch: 457068

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 456853

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		10/25/18 15:16	10/26/18 12:39	1
Thallium	<0.0020		0.0020	0.0020	mg/L		10/25/18 15:16	10/26/18 12:39	1

Lab Sample ID: 500-153433-13 MS
Matrix: Solid
Analysis Batch: 457068

Client Sample ID: 2947V-17-B21 (0-5)
Prep Type: TCLP
Prep Batch: 456853

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	<0.0060		0.500	0.463		mg/L		93	75 - 125
Thallium	<0.0020		0.100	0.100		mg/L		100	75 - 125

Lab Sample ID: 500-153433-13 DU
Matrix: Solid
Analysis Batch: 457068

Client Sample ID: 2947V-17-B21 (0-5)
Prep Type: TCLP
Prep Batch: 456853

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 500-456788/12-A
Matrix: Solid
Analysis Batch: 457004

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 456788

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		10/25/18 12:40	10/26/18 09:13	1

Lab Sample ID: LCS 500-456788/13-A
Matrix: Solid
Analysis Batch: 457004

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 456788

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00173		mg/L		86	80 - 120

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Method: 7470A - TCLP Mercury (Continued)

Lab Sample ID: LB 500-456609/1-B
Matrix: Solid
Analysis Batch: 457004

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 456788

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		10/25/18 12:40	10/26/18 09:18	1

Lab Sample ID: 500-153433-6 MS
Matrix: Solid
Analysis Batch: 457004

Client Sample ID: 2947V-17-B31 (0-5)
Prep Type: TCLP
Prep Batch: 456788

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00020		0.00100	0.000785		mg/L		79	75 - 125

Lab Sample ID: 500-153433-6 DU
Matrix: Solid
Analysis Batch: 457004

Client Sample ID: 2947V-17-B31 (0-5)
Prep Type: TCLP
Prep Batch: 456788

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 500-456591/12-A
Matrix: Solid
Analysis Batch: 456825

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 456591

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		10/24/18 16:40	10/25/18 08:41	1

Lab Sample ID: LCS 500-456591/13-A
Matrix: Solid
Analysis Batch: 456825

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 456591

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.150		mg/Kg		90	80 - 120

Lab Sample ID: MB 500-456592/12-A
Matrix: Solid
Analysis Batch: 456825

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 456592

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		10/24/18 16:40	10/25/18 09:35	1

Lab Sample ID: LCS 500-456592/13-A
Matrix: Solid
Analysis Batch: 456825

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 456592

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.152		mg/Kg		91	80 - 120

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: 500-153433-13 MS

Matrix: Solid
Analysis Batch: 456825

Client Sample ID: 2947V-17-B21 (0-5)

Prep Type: Total/NA
Prep Batch: 456592

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	0.029		0.0975	0.140		mg/Kg	☼	114	75 - 125

Lab Sample ID: 500-153433-13 MSD

Matrix: Solid
Analysis Batch: 456825

Client Sample ID: 2947V-17-B21 (0-5)

Prep Type: Total/NA
Prep Batch: 456592

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.029		0.0969	0.137		mg/Kg	☼	112	75 - 125	2	20

Lab Sample ID: 500-153433-13 DU

Matrix: Solid
Analysis Batch: 456825

Client Sample ID: 2947V-17-B21 (0-5)

Prep Type: Total/NA
Prep Batch: 456592

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	0.029		0.0336		mg/Kg	☼	17	20

Method: 9014 - Cyanide

Lab Sample ID: MB 500-457292/1-A

Matrix: Solid
Analysis Batch: 457403

Client Sample ID: Method Blank

Prep Type: Total/NA
Prep Batch: 457292

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0034		0.010	0.0034	mg/Kg		10/29/18 10:50	10/29/18 15:33	1

Lab Sample ID: LCS 500-457292/2-A

Matrix: Solid
Analysis Batch: 457403

Client Sample ID: Lab Control Sample

Prep Type: Total/NA
Prep Batch: 457292

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	0.100	0.0997		mg/Kg		100	85 - 115

Method: 9045D - pH

Lab Sample ID: 500-153433-10 DU

Matrix: Solid
Analysis Batch: 456845

Client Sample ID: 2947V-17-B24 (0-5)

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
pH	7.9		7.9		SU		0.1	

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Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B35 (0-5)

Lab Sample ID: 500-153433-1

Date Collected: 10/18/18 09:00

Matrix: Solid

Date Received: 10/18/18 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			456609	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456853	10/25/18 15:16	BDE	TAL CHI
TCLP	Analysis	6010B		1	457052	10/26/18 12:17	JEF	TAL CHI
TCLP	Leach	1311			456609	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456853	10/25/18 15:16	BDE	TAL CHI
TCLP	Analysis	6020A		1	457068	10/26/18 12:46	FXG	TAL CHI
TCLP	Leach	1311			456609	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	7470A			456788	10/25/18 12:40	MJG	TAL CHI
TCLP	Analysis	7470A		1	457004	10/26/18 09:35	MJG	TAL CHI
Total/NA	Analysis	9045D		1	456845		SMO	TAL CHI
					(Start)	10/25/18 14:31		
					(End)	10/25/18 14:35		
Total/NA	Analysis	Moisture		1	456196	10/22/18 17:20	LWN	TAL CHI

Client Sample ID: 2947V-17-B35 (0-5)

Lab Sample ID: 500-153433-1

Date Collected: 10/18/18 09:00

Matrix: Solid

Date Received: 10/18/18 16:45

Percent Solids: 87.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			456032	10/19/18 17:43	WRE	TAL CHI
Total/NA	Analysis	8260B		1	457217	10/28/18 23:21	EMA	TAL CHI
Total/NA	Prep	3541			456711	10/25/18 07:13	DX	TAL CHI
Total/NA	Analysis	8270D		1	457200	10/28/18 14:21	GES	TAL CHI
Total/NA	Prep	3050B			456652	10/24/18 17:02	BDE	TAL CHI
Total/NA	Analysis	6010B		1	456923	10/25/18 17:22	EEN	TAL CHI
Total/NA	Prep	7471B			456591	10/24/18 16:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	456825	10/25/18 09:30	MJG	TAL CHI
Total/NA	Prep	9010B			457292	10/29/18 10:50	MS	TAL CHI
Total/NA	Analysis	9014		1	457403		MS	TAL CHI
					(Start)	10/29/18 15:39		
					(End)	10/29/18 15:39		

Client Sample ID: 2947V-17-B35 (0-5) Dup

Lab Sample ID: 500-153433-2

Date Collected: 10/18/18 09:10

Matrix: Solid

Date Received: 10/18/18 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			456609	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456853	10/25/18 15:16	BDE	TAL CHI
TCLP	Analysis	6010B		1	457052	10/26/18 12:21	JEF	TAL CHI
TCLP	Leach	1311			456609	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456853	10/25/18 15:16	BDE	TAL CHI
TCLP	Analysis	6020A		1	457068	10/26/18 12:47	FXG	TAL CHI
TCLP	Leach	1311			456609	10/24/18 13:55	JJB	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B35 (0-5) Dup

Lab Sample ID: 500-153433-2

Date Collected: 10/18/18 09:10

Matrix: Solid

Date Received: 10/18/18 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Prep	7470A			456788	10/25/18 12:40	MJG	TAL CHI
TCLP	Analysis	7470A		1	457004	10/26/18 09:37	MJG	TAL CHI
Total/NA	Analysis	9045D		1	456845	10/25/18 14:35 (Start) 10/25/18 14:39 (End)	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	456196	10/22/18 17:20	LWN	TAL CHI

Client Sample ID: 2947V-17-B35 (0-5) Dup

Lab Sample ID: 500-153433-2

Date Collected: 10/18/18 09:10

Matrix: Solid

Date Received: 10/18/18 16:45

Percent Solids: 86.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			456032	10/19/18 17:43	WRE	TAL CHI
Total/NA	Analysis	8260B		1	457217	10/28/18 23:47	EMA	TAL CHI
Total/NA	Prep	3541			456711	10/25/18 07:13	DX	TAL CHI
Total/NA	Analysis	8270D		1	457200	10/28/18 14:47	GES	TAL CHI
Total/NA	Prep	3050B			456652	10/24/18 17:02	BDE	TAL CHI
Total/NA	Analysis	6010B		1	456923	10/25/18 17:53	EEN	TAL CHI
Total/NA	Prep	7471B			456591	10/24/18 16:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	456825	10/25/18 09:32	MJG	TAL CHI
Total/NA	Prep	9010B			457292	10/29/18 10:50	MS	TAL CHI
Total/NA	Analysis	9014		1	457403	10/29/18 15:39 (Start) 10/29/18 15:40 (End)	MS	TAL CHI

Client Sample ID: 2947V-17-B34 (0-5)

Lab Sample ID: 500-153433-3

Date Collected: 10/18/18 09:30

Matrix: Solid

Date Received: 10/18/18 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			456609	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456853	10/25/18 15:16	BDE	TAL CHI
TCLP	Analysis	6010B		1	457052	10/26/18 12:33	JEF	TAL CHI
TCLP	Leach	1311			456609	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456853	10/25/18 15:16	BDE	TAL CHI
TCLP	Analysis	6020A		1	457068	10/26/18 12:48	FXG	TAL CHI
TCLP	Leach	1311			456609	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	7470A			456788	10/25/18 12:40	MJG	TAL CHI
TCLP	Analysis	7470A		1	457004	10/26/18 09:39	MJG	TAL CHI
Total/NA	Analysis	9045D		1	456845	10/25/18 14:39 (Start) 10/25/18 14:43 (End)	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	456196	10/22/18 17:20	LWN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B34 (0-5)

Lab Sample ID: 500-153433-3

Date Collected: 10/18/18 09:30

Matrix: Solid

Date Received: 10/18/18 16:45

Percent Solids: 82.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			456032	10/19/18 17:43	WRE	TAL CHI
Total/NA	Analysis	8260B		1	457217	10/29/18 00:12	EMA	TAL CHI
Total/NA	Prep	3541			456711	10/25/18 07:13	DX	TAL CHI
Total/NA	Analysis	8270D		1	457200	10/28/18 15:14	GES	TAL CHI
Total/NA	Prep	3050B			456652	10/24/18 17:02	BDE	TAL CHI
Total/NA	Analysis	6010B		1	456923	10/25/18 17:57	EEN	TAL CHI
Total/NA	Prep	7471B			456591	10/24/18 16:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	456825	10/25/18 09:33	MJG	TAL CHI
Total/NA	Prep	9010B			457292	10/29/18 10:50	MS	TAL CHI
Total/NA	Analysis	9014		1	457403		MS	TAL CHI
					(Start)	10/29/18 15:40		
					(End)	10/29/18 15:40		

Client Sample ID: 2947V-17-B33 (0-5)

Lab Sample ID: 500-153433-4

Date Collected: 10/18/18 09:50

Matrix: Solid

Date Received: 10/18/18 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			456609	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456853	10/25/18 15:16	BDE	TAL CHI
TCLP	Analysis	6010B		1	457052	10/26/18 12:37	JEF	TAL CHI
TCLP	Leach	1311			456609	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456853	10/25/18 15:16	BDE	TAL CHI
TCLP	Analysis	6020A		1	457068	10/26/18 13:26	FXG	TAL CHI
TCLP	Leach	1311			456609	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	7470A			456788	10/25/18 12:40	MJG	TAL CHI
TCLP	Analysis	7470A		1	457004	10/26/18 09:41	MJG	TAL CHI
Total/NA	Analysis	9045D		1	456845		SMO	TAL CHI
					(Start)	10/25/18 14:43		
					(End)	10/25/18 14:47		
Total/NA	Analysis	Moisture		1	456196	10/22/18 17:20	LWN	TAL CHI

Client Sample ID: 2947V-17-B33 (0-5)

Lab Sample ID: 500-153433-4

Date Collected: 10/18/18 09:50

Matrix: Solid

Date Received: 10/18/18 16:45

Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			456032	10/19/18 17:43	WRE	TAL CHI
Total/NA	Analysis	8260B		1	457217	10/29/18 00:47	EMA	TAL CHI
Total/NA	Prep	3541			456711	10/25/18 07:13	DX	TAL CHI
Total/NA	Analysis	8270D		1	457200	10/28/18 15:41	GES	TAL CHI
Total/NA	Prep	3050B			456652	10/24/18 17:02	BDE	TAL CHI
Total/NA	Analysis	6010B		1	456923	10/25/18 18:01	EEN	TAL CHI
Total/NA	Prep	7471B			456592	10/24/18 16:40	MJG	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B33 (0-5)

Lab Sample ID: 500-153433-4

Date Collected: 10/18/18 09:50

Matrix: Solid

Date Received: 10/18/18 16:45

Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7471B		1	456825	10/25/18 09:39	MJG	TAL CHI
Total/NA	Prep	9010B			457292	10/29/18 10:50	MS	TAL CHI
Total/NA	Analysis	9014		1	457403	(Start) 10/29/18 15:40 (End) 10/29/18 15:40	MS	TAL CHI

Client Sample ID: 2947V-17-B32 (0-5)

Lab Sample ID: 500-153433-5

Date Collected: 10/18/18 10:20

Matrix: Solid

Date Received: 10/18/18 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			456609	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456853	10/25/18 15:16	BDE	TAL CHI
TCLP	Analysis	6010B		1	457052	10/26/18 12:41	JEF	TAL CHI
TCLP	Leach	1311			456609	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456853	10/25/18 15:16	BDE	TAL CHI
TCLP	Analysis	6020A		1	457068	10/26/18 13:27	FXG	TAL CHI
TCLP	Leach	1311			456609	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	7470A			456788	10/25/18 12:40	MJG	TAL CHI
TCLP	Analysis	7470A		1	457004	10/26/18 09:43	MJG	TAL CHI
Total/NA	Analysis	9045D		1	456845	(Start) 10/25/18 14:47 (End) 10/25/18 14:51	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	456196	10/22/18 17:20	LWN	TAL CHI

Client Sample ID: 2947V-17-B32 (0-5)

Lab Sample ID: 500-153433-5

Date Collected: 10/18/18 10:20

Matrix: Solid

Date Received: 10/18/18 16:45

Percent Solids: 81.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			456032	10/19/18 17:43	WRE	TAL CHI
Total/NA	Analysis	8260B		1	457217	10/29/18 01:12	EMA	TAL CHI
Total/NA	Prep	3541			456711	10/25/18 07:13	DX	TAL CHI
Total/NA	Analysis	8270D		1	457200	10/28/18 16:08	GES	TAL CHI
Total/NA	Prep	3050B			456652	10/24/18 17:02	BDE	TAL CHI
Total/NA	Analysis	6010B		1	456923	10/25/18 18:05	EEN	TAL CHI
Total/NA	Prep	7471B			456592	10/24/18 16:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	456825	10/25/18 09:41	MJG	TAL CHI
Total/NA	Prep	9010B			457292	10/29/18 10:50	MS	TAL CHI
Total/NA	Analysis	9014		1	457403	(Start) 10/29/18 15:40 (End) 10/29/18 15:41	MS	TAL CHI

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Lab Chronicle

Client: Terracon Consulting Eng & Scientists
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TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B31 (0-5)

Lab Sample ID: 500-153433-6

Date Collected: 10/18/18 10:45

Matrix: Solid

Date Received: 10/18/18 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			456609	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456853	10/25/18 15:16	BDE	TAL CHI
TCLP	Analysis	6010B		1	457052	10/26/18 12:45	JEF	TAL CHI
TCLP	Leach	1311			456609	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456853	10/25/18 15:16	BDE	TAL CHI
TCLP	Analysis	6020A		1	457068	10/26/18 13:28	FXG	TAL CHI
TCLP	Leach	1311			456609	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	7470A			456788	10/25/18 12:40	MJG	TAL CHI
TCLP	Analysis	7470A		1	457004	10/26/18 09:50	MJG	TAL CHI
Total/NA	Analysis	9045D		1	456845	(Start) 10/25/18 14:51 (End) 10/25/18 14:54	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	456196	10/22/18 17:20	LWN	TAL CHI

Client Sample ID: 2947V-17-B31 (0-5)

Lab Sample ID: 500-153433-6

Date Collected: 10/18/18 10:45

Matrix: Solid

Date Received: 10/18/18 16:45

Percent Solids: 79.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			456032	10/19/18 17:43	WRE	TAL CHI
Total/NA	Analysis	8260B		1	457217	10/29/18 01:38	EMA	TAL CHI
Total/NA	Prep	3541			456711	10/25/18 07:13	DX	TAL CHI
Total/NA	Analysis	8270D		1	457200	10/28/18 18:48	GES	TAL CHI
Total/NA	Prep	3050B			456652	10/24/18 17:02	BDE	TAL CHI
Total/NA	Analysis	6010B		1	456923	10/25/18 18:09	EEN	TAL CHI
Total/NA	Prep	7471B			456592	10/24/18 16:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	456825	10/25/18 09:46	MJG	TAL CHI
Total/NA	Prep	9010B			457292	10/29/18 10:50	MS	TAL CHI
Total/NA	Analysis	9014		1	457403	(Start) 10/29/18 15:41 (End) 10/29/18 15:41	MS	TAL CHI

Client Sample ID: 2947V-17-B30 (0-5)

Lab Sample ID: 500-153433-7

Date Collected: 10/18/18 11:10

Matrix: Solid

Date Received: 10/18/18 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			456609	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456853	10/25/18 15:16	BDE	TAL CHI
TCLP	Analysis	6010B		1	457052	10/26/18 12:49	JEF	TAL CHI
TCLP	Leach	1311			456609	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456853	10/25/18 15:16	BDE	TAL CHI
TCLP	Analysis	6020A		1	457068	10/26/18 13:29	FXG	TAL CHI
TCLP	Leach	1311			456609	10/24/18 13:55	JJB	TAL CHI

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Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B30 (0-5)

Lab Sample ID: 500-153433-7

Date Collected: 10/18/18 11:10

Matrix: Solid

Date Received: 10/18/18 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Prep	7470A			456788	10/25/18 12:40	MJG	TAL CHI
TCLP	Analysis	7470A		1	457004	10/26/18 09:56	MJG	TAL CHI
Total/NA	Analysis	9045D		1	456845	10/25/18 14:54 (Start) 10/25/18 14:58 (End)	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	456196	10/22/18 17:20	LWN	TAL CHI

Client Sample ID: 2947V-17-B30 (0-5)

Lab Sample ID: 500-153433-7

Date Collected: 10/18/18 11:10

Matrix: Solid

Date Received: 10/18/18 16:45

Percent Solids: 86.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			456032	10/19/18 17:43	WRE	TAL CHI
Total/NA	Analysis	8260B		1	457217	10/29/18 02:03	EMA	TAL CHI
Total/NA	Prep	3541			456711	10/25/18 07:13	DX	TAL CHI
Total/NA	Analysis	8270D		1	457200	10/28/18 19:15	GES	TAL CHI
Total/NA	Prep	3050B			456652	10/24/18 17:02	BDE	TAL CHI
Total/NA	Analysis	6010B		1	456923	10/25/18 18:13	EEN	TAL CHI
Total/NA	Prep	7471B			456592	10/24/18 16:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	456825	10/25/18 09:48	MJG	TAL CHI
Total/NA	Prep	9010B			457292	10/29/18 10:50	MS	TAL CHI
Total/NA	Analysis	9014		1	457403	10/29/18 15:41 (Start) 10/29/18 15:42 (End)	MS	TAL CHI

Client Sample ID: 2947V-17-B29 (0-5)

Lab Sample ID: 500-153433-8

Date Collected: 10/18/18 11:30

Matrix: Solid

Date Received: 10/18/18 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			456609	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456853	10/25/18 15:16	BDE	TAL CHI
TCLP	Analysis	6010B		1	457052	10/26/18 12:54	JEF	TAL CHI
TCLP	Leach	1311			456609	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456853	10/25/18 15:16	BDE	TAL CHI
TCLP	Analysis	6020A		1	457068	10/26/18 14:24	FXG	TAL CHI
TCLP	Leach	1311			456609	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	7470A			456788	10/25/18 12:40	MJG	TAL CHI
TCLP	Analysis	7470A		1	457004	10/26/18 09:58	MJG	TAL CHI
Total/NA	Analysis	9045D		1	456845	10/25/18 14:58 (Start) 10/25/18 15:02 (End)	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	456196	10/22/18 17:20	LWN	TAL CHI

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Client: Terracon Consulting Eng & Scientists
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TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B29 (0-5)

Lab Sample ID: 500-153433-8

Date Collected: 10/18/18 11:30

Matrix: Solid

Date Received: 10/18/18 16:45

Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			456032	10/19/18 17:43	WRE	TAL CHI
Total/NA	Analysis	8260B		1	457217	10/29/18 02:29	EMA	TAL CHI
Total/NA	Prep	3541			456711	10/25/18 07:13	DX	TAL CHI
Total/NA	Analysis	8270D		1	457200	10/28/18 16:34	GES	TAL CHI
Total/NA	Prep	3050B			456652	10/24/18 17:02	BDE	TAL CHI
Total/NA	Analysis	6010B		1	456923	10/25/18 18:16	EEN	TAL CHI
Total/NA	Prep	7471B			456592	10/24/18 16:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	456825	10/25/18 09:50	MJG	TAL CHI
Total/NA	Prep	9010B			457292	10/29/18 10:50	MS	TAL CHI
Total/NA	Analysis	9014		1	457403		MS	TAL CHI
					(Start)	10/29/18 15:42		
					(End)	10/29/18 15:42		

Client Sample ID: 2947V-17-B28 (0-5)

Lab Sample ID: 500-153433-9

Date Collected: 10/18/18 12:00

Matrix: Solid

Date Received: 10/18/18 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			456609	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456853	10/25/18 15:16	BDE	TAL CHI
TCLP	Analysis	6010B		1	457052	10/26/18 12:58	JEF	TAL CHI
TCLP	Leach	1311			456609	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456853	10/25/18 15:16	BDE	TAL CHI
TCLP	Analysis	6020A		1	457068	10/26/18 14:25	FXG	TAL CHI
TCLP	Leach	1311			456609	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	7470A			456788	10/25/18 12:40	MJG	TAL CHI
TCLP	Analysis	7470A		1	457004	10/26/18 10:00	MJG	TAL CHI
Total/NA	Analysis	9045D		1	456845		SMO	TAL CHI
					(Start)	10/25/18 15:02		
					(End)	10/25/18 15:06		
Total/NA	Analysis	Moisture		1	456196	10/22/18 17:20	LWN	TAL CHI

Client Sample ID: 2947V-17-B28 (0-5)

Lab Sample ID: 500-153433-9

Date Collected: 10/18/18 12:00

Matrix: Solid

Date Received: 10/18/18 16:45

Percent Solids: 80.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			456032	10/19/18 17:43	WRE	TAL CHI
Total/NA	Analysis	8260B		1	457217	10/29/18 02:55	EMA	TAL CHI
Total/NA	Prep	3541			456711	10/25/18 07:13	DX	TAL CHI
Total/NA	Analysis	8270D		1	457200	10/28/18 21:55	GES	TAL CHI
Total/NA	Prep	3050B			456652	10/24/18 17:02	BDE	TAL CHI
Total/NA	Analysis	6010B		1	456923	10/25/18 18:20	EEN	TAL CHI
Total/NA	Prep	7471B			456592	10/24/18 16:40	MJG	TAL CHI

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Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B28 (0-5)

Lab Sample ID: 500-153433-9

Date Collected: 10/18/18 12:00

Matrix: Solid

Date Received: 10/18/18 16:45

Percent Solids: 80.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7471B		1	456825	10/25/18 09:52	MJG	TAL CHI
Total/NA	Prep	9010B			457292	10/29/18 10:50	MS	TAL CHI
Total/NA	Analysis	9014		1	457403	10/29/18 15:42 (Start) 10/29/18 15:43 (End)	MS	TAL CHI

Client Sample ID: 2947V-17-B24 (0-5)

Lab Sample ID: 500-153433-10

Date Collected: 10/18/18 12:55

Matrix: Solid

Date Received: 10/18/18 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			456606	10/24/18 11:40	JJB	TAL CHI
SPLP East	Prep	3010A			457290	10/29/18 08:53	SAH	TAL CHI
SPLP East	Analysis	6010B		1	457445	10/29/18 18:44	EEN	TAL CHI
TCLP	Leach	1311			456609	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456853	10/25/18 15:16	BDE	TAL CHI
TCLP	Analysis	6010B		1	457052	10/26/18 13:02	JEF	TAL CHI
TCLP	Leach	1311			456609	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456853	10/25/18 15:16	BDE	TAL CHI
TCLP	Analysis	6020A		1	457068	10/26/18 14:29	FXG	TAL CHI
TCLP	Leach	1311			456609	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	7470A			456788	10/25/18 12:40	MJG	TAL CHI
TCLP	Analysis	7470A		1	457004	10/26/18 10:02	MJG	TAL CHI
Total/NA	Analysis	9045D		1	456845	10/25/18 15:06 (Start) 10/25/18 15:10 (End)	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	456196	10/22/18 17:20	LWN	TAL CHI

Client Sample ID: 2947V-17-B24 (0-5)

Lab Sample ID: 500-153433-10

Date Collected: 10/18/18 12:55

Matrix: Solid

Date Received: 10/18/18 16:45

Percent Solids: 80.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			456032	10/19/18 17:43	WRE	TAL CHI
Total/NA	Analysis	8260B		1	457217	10/29/18 03:21	EMA	TAL CHI
Total/NA	Prep	3541			456711	10/25/18 07:13	DX	TAL CHI
Total/NA	Analysis	8270D		1	457200	10/28/18 19:42	GES	TAL CHI
Total/NA	Prep	3050B			456652	10/24/18 17:02	BDE	TAL CHI
Total/NA	Analysis	6010B		1	456923	10/25/18 18:32	EEN	TAL CHI
Total/NA	Prep	3050B			456652	10/24/18 17:02	BDE	TAL CHI
Total/NA	Analysis	6010B		5	457052	10/26/18 11:32	JEF	TAL CHI
Total/NA	Prep	7471B			456592	10/24/18 16:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	456825	10/25/18 09:54	MJG	TAL CHI
Total/NA	Prep	9010B			457292	10/29/18 10:50	MS	TAL CHI

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Client: Terracon Consulting Eng & Scientists
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TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B24 (0-5)

Lab Sample ID: 500-153433-10

Date Collected: 10/18/18 12:55

Matrix: Solid

Date Received: 10/18/18 16:45

Percent Solids: 80.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9014		1	457403	10/29/18 15:43	MS	TAL CHI
					(Start)	10/29/18 15:43		
					(End)	10/29/18 15:43		

Client Sample ID: 2947V-17-B23 (0-5)

Lab Sample ID: 500-153433-11

Date Collected: 10/18/18 13:20

Matrix: Solid

Date Received: 10/18/18 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			456606	10/24/18 11:40	JJB	TAL CHI
SPLP East	Prep	3010A			457290	10/29/18 08:53	SAH	TAL CHI
SPLP East	Analysis	6010B		1	457445	10/29/18 18:48	EEN	TAL CHI
TCLP	Leach	1311			456609	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456853	10/25/18 15:16	BDE	TAL CHI
TCLP	Analysis	6010B		1	457052	10/26/18 13:06	JEF	TAL CHI
TCLP	Leach	1311			456609	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456853	10/25/18 15:16	BDE	TAL CHI
TCLP	Analysis	6020A		1	457068	10/26/18 14:30	FXG	TAL CHI
TCLP	Leach	1311			456609	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	7470A			456788	10/25/18 12:40	MJG	TAL CHI
TCLP	Analysis	7470A		1	457004	10/26/18 10:04	MJG	TAL CHI
Total/NA	Analysis	9045D		1	456845	10/25/18 15:13	SMO	TAL CHI
					(Start)	10/25/18 15:13		
					(End)	10/25/18 15:17		
Total/NA	Analysis	Moisture		1	456196	10/22/18 17:20	LWN	TAL CHI

Client Sample ID: 2947V-17-B23 (0-5)

Lab Sample ID: 500-153433-11

Date Collected: 10/18/18 13:20

Matrix: Solid

Date Received: 10/18/18 16:45

Percent Solids: 81.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			456032	10/19/18 17:43	WRE	TAL CHI
Total/NA	Analysis	8260B		1	457217	10/29/18 03:46	EMA	TAL CHI
Total/NA	Prep	3541			456711	10/25/18 07:13	DX	TAL CHI
Total/NA	Analysis	8270D		1	457200	10/28/18 20:08	GES	TAL CHI
Total/NA	Prep	3050B			456652	10/24/18 17:02	BDE	TAL CHI
Total/NA	Analysis	6010B		1	456923	10/25/18 18:36	EEN	TAL CHI
Total/NA	Prep	7471B			456592	10/24/18 16:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	456825	10/25/18 09:55	MJG	TAL CHI
Total/NA	Prep	9010B			457292	10/29/18 10:50	MS	TAL CHI
Total/NA	Analysis	9014		1	457403	10/29/18 15:44	MS	TAL CHI
					(Start)	10/29/18 15:44		
					(End)	10/29/18 15:44		

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B22 (0-5)

Lab Sample ID: 500-153433-12

Date Collected: 10/18/18 13:50

Matrix: Solid

Date Received: 10/18/18 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			456606	10/24/18 11:40	JJB	TAL CHI
SPLP East	Prep	3010A			457290	10/29/18 08:53	SAH	TAL CHI
SPLP East	Analysis	6010B		1	457445	10/29/18 18:51	EEN	TAL CHI
TCLP	Leach	1311			456609	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456853	10/25/18 15:16	BDE	TAL CHI
TCLP	Analysis	6010B		1	457052	10/26/18 13:10	JEF	TAL CHI
TCLP	Leach	1311			456609	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456853	10/25/18 15:16	BDE	TAL CHI
TCLP	Analysis	6020A		1	457068	10/26/18 14:31	FXG	TAL CHI
TCLP	Leach	1311			456609	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	7470A			456788	10/25/18 12:40	MJG	TAL CHI
TCLP	Analysis	7470A		1	457004	10/26/18 10:07	MJG	TAL CHI
Total/NA	Analysis	9045D		1	456845		SMO	TAL CHI
					(Start)	10/25/18 15:17		
					(End)	10/25/18 15:21		
Total/NA	Analysis	Moisture		1	456196	10/22/18 17:20	LWN	TAL CHI

Client Sample ID: 2947V-17-B22 (0-5)

Lab Sample ID: 500-153433-12

Date Collected: 10/18/18 13:50

Matrix: Solid

Date Received: 10/18/18 16:45

Percent Solids: 84.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			456032	10/19/18 17:43	WRE	TAL CHI
Total/NA	Analysis	8260B		1	457217	10/29/18 04:12	EMA	TAL CHI
Total/NA	Prep	3541			456711	10/25/18 07:13	DX	TAL CHI
Total/NA	Analysis	8270D		1	457200	10/28/18 17:01	GES	TAL CHI
Total/NA	Prep	3050B			456652	10/24/18 17:02	BDE	TAL CHI
Total/NA	Analysis	6010B		1	456923	10/25/18 18:40	EEN	TAL CHI
Total/NA	Prep	3050B			456652	10/24/18 17:02	BDE	TAL CHI
Total/NA	Analysis	6010B		5	457052	10/26/18 11:44	JEF	TAL CHI
Total/NA	Prep	7471B			456592	10/24/18 16:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	456825	10/25/18 09:57	MJG	TAL CHI
Total/NA	Prep	9010B			457292	10/29/18 10:50	MS	TAL CHI
Total/NA	Analysis	9014		1	457403		MS	TAL CHI
					(Start)	10/29/18 15:44		
					(End)	10/29/18 15:45		

Client Sample ID: 2947V-17-B21 (0-5)

Lab Sample ID: 500-153433-13

Date Collected: 10/18/18 14:30

Matrix: Solid

Date Received: 10/18/18 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			456609	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456853	10/25/18 15:16	BDE	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Client Sample ID: 2947V-17-B21 (0-5)

Lab Sample ID: 500-153433-13

Date Collected: 10/18/18 14:30

Matrix: Solid

Date Received: 10/18/18 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Analysis	6010B		1	457052	10/26/18 13:22	JEF	TAL CHI
TCLP	Leach	1311			456609	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	3010A			456853	10/25/18 15:16	BDE	TAL CHI
TCLP	Analysis	6020A		1	457068	10/26/18 14:32	FXG	TAL CHI
TCLP	Leach	1311			456609	10/24/18 13:55	JJB	TAL CHI
TCLP	Prep	7470A			456788	10/25/18 12:40	MJG	TAL CHI
TCLP	Analysis	7470A		1	457004	10/26/18 10:09	MJG	TAL CHI
Total/NA	Analysis	9045D		1	456845		SMO	TAL CHI
					(Start)	10/25/18 15:21		
					(End)	10/25/18 15:25		
Total/NA	Analysis	Moisture		1	456196	10/22/18 17:20	LWN	TAL CHI

Client Sample ID: 2947V-17-B21 (0-5)

Lab Sample ID: 500-153433-13

Date Collected: 10/18/18 14:30

Matrix: Solid

Date Received: 10/18/18 16:45

Percent Solids: 79.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			456032	10/19/18 17:43	WRE	TAL CHI
Total/NA	Analysis	8260B		1	457217	10/29/18 04:37	EMA	TAL CHI
Total/NA	Prep	3541			456711	10/25/18 07:13	DX	TAL CHI
Total/NA	Analysis	8270D		1	457200	10/28/18 21:29	GES	TAL CHI
Total/NA	Prep	3050B			456652	10/24/18 17:02	BDE	TAL CHI
Total/NA	Analysis	6010B		1	456923	10/25/18 18:44	EEN	TAL CHI
Total/NA	Prep	7471B			456592	10/24/18 16:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	456825	10/25/18 09:59	MJG	TAL CHI
Total/NA	Prep	9010B			457292	10/29/18 10:50	MS	TAL CHI
Total/NA	Analysis	9014		1	457403		MS	TAL CHI
					(Start)	10/29/18 15:45		
					(End)	10/29/18 15:45		

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Romeoville - WO 054

TestAmerica Job ID: 500-153433-1

Laboratory: 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	04-30-19

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 6
Phone: 708.534.5200 Fax: 708.53



500-153433 COC

Report To (optional)
Contact: Matt Weiss
Company: Terracon
Address: 192 Exchange Blvd
Address: Glendale Heights, IL
Phone: 630-445-6160
Fax:
E-Mail: matt.weiss@terracon.com

Bill To (optional)
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-153433
Chain of Custody Number:
Page 1 of 2
Temperature °C of Cooler: 41.528

Client		Client Project #		Preservative		Parameter		Matrix		Comments	
<u>Foot</u>		<u>11187007U</u>									
Project Name		Project Location/State		Lab Project #		Lab PM					
<u>11187007U</u>		<u>Romeville, IL</u>									
Sampler											
<u>D-Coft</u>											
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix					
<u>1</u>		<u>2947U-17-B35 (0.5)</u>	<u>10/18/18</u>	<u>0900</u>	<u>5</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>2</u>		<u>2947U-17-B35 Dup (0.5)</u>	<u>10/18/18</u>	<u>0910</u>	<u>5</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>3</u>		<u>2947U-17-B34 (0.5)</u>	<u>10/18/18</u>	<u>0930</u>	<u>5</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>0930</u>
<u>4</u>		<u>2947U-17-B33 (0.5)</u>	<u>10/18/18</u>	<u>0950</u>	<u>5</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>5</u>		<u>2947U-17-B32 (0.5)</u>	<u>10/18/18</u>	<u>1020</u>	<u>5</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>6</u>		<u>2947U-17-B31 (0.5)</u>	<u>10/18/18</u>	<u>1045</u>	<u>5</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>7</u>		<u>2947U-17-B30 (0.5)</u>	<u>10/18/18</u>	<u>1110</u>	<u>5</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>8</u>		<u>2947U-17-B29 (0.5)</u>	<u>10/18/18</u>	<u>1130</u>	<u>5</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>1130</u>
<u>9</u>		<u>2947U-17-B28 (0.5)</u>	<u>10/18/18</u>	<u>1200</u>	<u>5</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>10</u>		<u>2947U-17-B24 (0.5)</u>	<u>10/18/18</u>	<u>1255</u>	<u>5</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</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

Turnaround Time Required (Business Days)
 Requested Due Date: 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)

Relinquished By <u>[Signature]</u>	Company <u>Terracon</u>	Date <u>10/18/18</u>	Time <u>1545</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>10/18/18</u>	Time <u>1545</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>10/18/18</u>	Time <u>1645</u>	Received By <u>[Signature]</u>	Company <u>TA-CHI</u>	Date <u>10/18/18</u>	Time <u>0530</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

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

* No Aluminum
* 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)

Contact: Matt Weiss
Company: Terrecon
Address: 192 Ft Change Blvd
Address: Glendale Heights IL
Phone: 630-445-0160
Fax:
E-Mail: matthew@terrecon.com

Bill To (optional)

Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-153433
Chain of Custody Number:
Page 2 of 2
Temperature °C of Cooler:

Client		Client Project #		Preservative		Parameter		Matrix		Comments	
IDOT		11187007U								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		Lab Project #		Date		Time		# of Containers		Matrix	
11187007U											
Project Location/State		Lab Project #		Date		Time		# of Containers		Matrix	
Romeo, IL											
Sampler		Lab PM		Date		Time		# of Containers		Matrix	
D.G. FT											
Lab ID	MS/MSD	Sample ID		Date		Time		# of Containers		Matrix	
11		2947U-17-B23(0-5)		10/18/18		1320		5 5		Vols	
12		2947U-17-B22(0-5)		10/18/18		1350		5 5		Suds	
13		2947U-17-B21(0-5)		10/18/18		1430		5 5		Total 23 Inorganics	
										PH	
										TCLP 23	
										Fragenics	
										SPC P 23	
										Inorganics	

Turnaround Time Required (Business Days)

___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days 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)

Relinquished By: <u>[Signature]</u> Company: <u>Terrecon</u> Date: <u>10/18/18</u> Time: <u>1545</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>10/18/18</u> Time: <u>1545</u>	Lab Courier: <u>TA</u>
Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>10/18/18</u> Time: <u>1645</u>	Received By: <u>[Signature]</u> Company: <u>TA-CHT</u> Date: <u>10/19/18</u> Time: <u>0830</u>	Shipped:
Relinquished By:	Received By:	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

*NO Aluminum
*Hold SPC P 23 Fragenics
per Terrecon Instructions

Lab Comments:

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-153433-1

Login Number: 153433

List Source: 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	
Cooler Temperature is recorded.	True	4.1,5.8
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	

