



Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 557-IL Route 72 at State Street/Getzelman Rd Office Phone Number, if available: _____

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

IL Route 72 (Eastbound) IDOT STA 491+65 to 493+60 (ISGS Site 2412V2-3)

City: Hampshire State: IL Zip Code: 60140

County: Kane Township: Hampshire

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

Latitude: 42.08832 Longitude: - 88.53013

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

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

Estimated Volume of debris (cu. Yd.): 74

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

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

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

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

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

Soil from borings B01 and B02 were sampled adjacent to ISGS Site No 2412V2-3.
See Exhibit 2 and Table 1 of the Preliminary Site Investigation Report prepared by Terracon.

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

TestAmerica Lab Report No J1859371.

Also see Preliminary Site Investigation Report prepared by Terracon. CCDD/USFO facility in MSA County.

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

I, Matt Weiss (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51 a] 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

Printed Name: _____

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Date:

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

Comparison of Detected Constituents to MACs-PTB 174-009;Work Order:074A
Preliminary Site Investigation
FAP 557-IL Route 72 at State St./Getzelman Road (PESA #2412V2-3)
Hampshire, Kane Co, IL
Terracon Project No. 11207011P
Page 1 of 2

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2412V2-3-B01 (0-1.1)	2412V2-3-B02 (0-1.1)
				CCDD	Sample Depth (feet)	(0-1.1)	(0-1.1)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	8/4/2020	8/4/2020
Volatile Organic Analytical Parameters							
Semivolatile Organic Analytical Parameters							
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.023	0.028
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.028	0.035
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.021	0.058
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.024	0.023
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.039	0.013
Chrysene	mg/kg	1.2	2.7	88		0.027	0.033
Fluoranthene	mg/kg	2.7	4.1	3100		0.053	0.059
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.021	0.022
Phenanthrene	mg/kg	1.3	2.5	210		0.018	0.015
Pyrene	mg/kg	1.9	3.0	2300		0.036	0.043
Inorganic Analytical Parameters							
Arsenic	mg/kg	---	13	11.3		4.1	4.5
Barium	mg/kg	---	110	1500		55	77
Cadmium	mg/kg	---	0.6	5.2		0.15	0.14
Chromium, total	mg/kg	---	16.2	21		13	12
Lead	mg/kg	---	36	107		16	19
Mercury	mg/kg	---	0.06	0.89		0.034	0.03
Selenium	mg/kg	---	0.48	1.3		<0.31	0.38
Silver	mg/kg	---	0.55	4.4		<0.068	<0.067
Antimony	mg/kg	---	4.0	5		<0.21	0.48
Beryllium	mg/kg	---	0.59	22		0.46	0.49
Calcium	mg/kg	---	9,300	---		24000	4600
Cobalt	mg/kg	---	8.9	20		6.4	7.9
Copper	mg/kg	---	19.6	2900		9.1	9.6
Cyanide	mg/kg	---	0.51	---		0.2	0.26
Iron	mg/kg	---	15,900	15000		10000	11000
Magnesium	mg/kg	---	4,820	325000		16000	3300
Manganese	mg/kg	---	636	630		370	610
Nickel	mg/kg	---	18	100		13	14
Potassium	mg/kg	---	1,268	---		1000	1000
Sodium	mg/kg	---	130	---		840	950
Thallium	mg/kg	---	0.32	2.6		0.29	0.47
Vanadium	mg/kg	---	25.2	550		18	20
Zinc	mg/kg	---	95	5100		44	48
pH			6.25	9		8.6	8.9

Comparison of Detected Constituents to MACs-PTB 174-009;Work Order:074A

Preliminary Site Investigation

FAP 557-IL Route 72 at State St./Getzelman Road (PESA #2412V2-3)

Hampshire, Kane Co, IL

Terracon Project No. 11207011P

Page 2 of 2

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2412V2-3-B01 (0-1.1)	2412V2-3-B02 (0-1.1)
				CCDD	Sample Depth (feet)	(0-1.1)	(0-1.1)
		mg/kg	Date Collected	8/4/2020	8/4/2020		
		pH 6.25-9.0					
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	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	---	---	---		0.4	0.43
Cadmium,TCLP	mg/L	---	---	---		<0.0020	<0.0020
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	---	---	---		170	200
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	---	---	---		78	89
Manganese,TCLP	mg/L	---	---	---		0.28	0.39
Nickel,TCLP	mg/L	---	---	---		<0.010	<0.010
Potassium,TCLP	mg/L	---	---	---		3.1	2.3
Sodium,TCLP	mg/L	---	---	---		--	--
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.010	<0.010
Zinc,TCLP	mg/L	---	---	---		0.039	0.026

ANALYTICAL REPORT

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

Laboratory Job ID: 500-185937-1
Client Project/Site: IDOT - Hampshire - WO 074

For:

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

Attn: Mr. Matthew Weiss



Authorized for release by:
8/19/2020 3:15:29 PM

Richard Wright, Senior Project Manager
(708)746-0045
Richard.Wright@Eurofinset.com

LINKS

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www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 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 - Hampshire - WO 074

Job ID: 500-185937-1

Job ID: 500-185937-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-185937-1

Receipt

The samples were received on 8/4/2020 5:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 4.3° C, 4.4° C, 5.8° C and 5.9° C.

GC/MS VOA

Method 8260B: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for 556207 recovered outside control limits for the following analytes: Bromomethane and Chloromethane. Bromomethane was biased low in the LCS/ LCSD while Chloromethane was 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 6020A: The continuing calibration verification (CCV) associated with batch 500-557398 recovered above the upper control limit for Antimony and Thallium The samples associated with this CCV were non-detects for the affected analytes; 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.

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 - Hampshire - WO 074

Job ID: 500-185937-1

Client Sample ID: 2412V2-3-B01 (0-1.1)

Lab Sample ID: 500-185937-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.023	J	0.037	0.0049	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.028	J	0.037	0.0071	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.021	J	0.037	0.0079	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.024	J	0.037	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.039		0.037	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.027	J	0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.053		0.037	0.0068	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.021	J	0.037	0.0095	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.018	J	0.037	0.0051	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.036	J	0.037	0.0073	mg/Kg	1	☼	8270D	Total/NA
Arsenic	4.1		0.53	0.18	mg/Kg	1	☼	6010B	Total/NA
Barium	55		0.53	0.060	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.46		0.21	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.15	B	0.11	0.019	mg/Kg	1	☼	6010B	Total/NA
Chromium	13		0.53	0.26	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.4		0.27	0.069	mg/Kg	1	☼	6010B	Total/NA
Copper	9.1		0.53	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	10000		11	5.5	mg/Kg	1	☼	6010B	Total/NA
Lead	16	F1	0.27	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	16000		5.3	2.6	mg/Kg	1	☼	6010B	Total/NA
Calcium	24000		11	1.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	370		0.53	0.077	mg/Kg	1	☼	6010B	Total/NA
Nickel	13		0.53	0.15	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.29	J	0.53	0.26	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.27	0.063	mg/Kg	1	☼	6010B	Total/NA
Zinc	44	F1	1.1	0.47	mg/Kg	1	☼	6010B	Total/NA
Potassium	1000	F1	27	9.4	mg/Kg	1	☼	6010B	Total/NA
Sodium	840		53	7.9	mg/Kg	1	☼	6010B	Total/NA
Barium	0.40	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	170		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	78		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.28		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.1		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.039	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.0		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.034		0.017	0.0056	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.20	J	0.24	0.12	mg/Kg	1	☼	9012B	Total/NA
pH	8.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2412V2-3-B02 (0-1.1)

Lab Sample ID: 500-185937-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.028	J	0.036	0.0049	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.035	J	0.036	0.0070	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.058		0.036	0.0078	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	0.013	J	0.036	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.033	J	0.036	0.0099	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.059		0.036	0.0067	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.022	J	0.036	0.0094	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.015	J	0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185937-1

Client Sample ID: 2412V2-3-B02 (0-1.1) (Continued)

Lab Sample ID: 500-185937-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	0.043		0.036	0.0072	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.48	J	1.0	0.20	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.5		0.52	0.18	mg/Kg	1	☼	6010B	Total/NA
Barium	77		0.52	0.060	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.49		0.21	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.14	B	0.10	0.019	mg/Kg	1	☼	6010B	Total/NA
Chromium	12		0.52	0.26	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.9		0.26	0.068	mg/Kg	1	☼	6010B	Total/NA
Copper	9.6		0.52	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	11000		10	5.4	mg/Kg	1	☼	6010B	Total/NA
Lead	19		0.26	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	3300		5.2	2.6	mg/Kg	1	☼	6010B	Total/NA
Calcium	4600		10	1.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	610		0.52	0.076	mg/Kg	1	☼	6010B	Total/NA
Nickel	14		0.52	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.38	J	0.52	0.31	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.47	J	0.52	0.26	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.26	0.062	mg/Kg	1	☼	6010B	Total/NA
Zinc	48		1.0	0.46	mg/Kg	1	☼	6010B	Total/NA
Potassium	1000		26	9.2	mg/Kg	1	☼	6010B	Total/NA
Sodium	950		52	7.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.43	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	200		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	89		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.39		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.3	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.026	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.0		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.030		0.017	0.0058	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.26	J	0.31	0.16	mg/Kg	1	☼	9012B	Total/NA
pH	8.9		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185937-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-185937-1	2412V2-3-B01 (0-1.1)	Solid	08/04/20 13:15	08/04/20 17:40	
500-185937-2	2412V2-3-B02 (0-1.1)	Solid	08/04/20 13:30	08/04/20 17:40	

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185937-1

Client Sample ID: 2412V2-3-B01 (0-1.1)

Lab Sample ID: 500-185937-1

Date Collected: 08/04/20 13:15

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 90.2

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	☼	08/05/20 08:30	08/11/20 18:14	1
Benzene	<0.00047		0.0018	0.00047	mg/Kg	☼	08/05/20 08:30	08/11/20 18:14	1
Bromodichloromethane	<0.00037		0.0018	0.00037	mg/Kg	☼	08/05/20 08:30	08/11/20 18:14	1
Bromoform	<0.00054		0.0018	0.00054	mg/Kg	☼	08/05/20 08:30	08/11/20 18:14	1
Bromomethane	<0.0017	*	0.0046	0.0017	mg/Kg	☼	08/05/20 08:30	08/11/20 18:14	1
2-Butanone (MEK)	<0.0020		0.0046	0.0020	mg/Kg	☼	08/05/20 08:30	08/11/20 18:14	1
Carbon disulfide	<0.00096		0.0046	0.00096	mg/Kg	☼	08/05/20 08:30	08/11/20 18:14	1
Carbon tetrachloride	<0.00053		0.0018	0.00053	mg/Kg	☼	08/05/20 08:30	08/11/20 18:14	1
Chlorobenzene	<0.00068		0.0018	0.00068	mg/Kg	☼	08/05/20 08:30	08/11/20 18:14	1
Chloroethane	<0.0014		0.0046	0.0014	mg/Kg	☼	08/05/20 08:30	08/11/20 18:14	1
Chloroform	<0.00064		0.0018	0.00064	mg/Kg	☼	08/05/20 08:30	08/11/20 18:14	1
Chloromethane	<0.0019	*	0.0046	0.0019	mg/Kg	☼	08/05/20 08:30	08/11/20 18:14	1
cis-1,2-Dichloroethene	<0.00051		0.0018	0.00051	mg/Kg	☼	08/05/20 08:30	08/11/20 18:14	1
cis-1,3-Dichloropropene	<0.00056		0.0018	0.00056	mg/Kg	☼	08/05/20 08:30	08/11/20 18:14	1
Dibromochloromethane	<0.00060		0.0018	0.00060	mg/Kg	☼	08/05/20 08:30	08/11/20 18:14	1
1,1-Dichloroethane	<0.00063		0.0018	0.00063	mg/Kg	☼	08/05/20 08:30	08/11/20 18:14	1
1,2-Dichloroethane	<0.0014		0.0046	0.0014	mg/Kg	☼	08/05/20 08:30	08/11/20 18:14	1
1,1-Dichloroethene	<0.00063		0.0018	0.00063	mg/Kg	☼	08/05/20 08:30	08/11/20 18:14	1
1,2-Dichloropropene	<0.00048		0.0018	0.00048	mg/Kg	☼	08/05/20 08:30	08/11/20 18:14	1
1,3-Dichloropropene, Total	<0.00065		0.0018	0.00065	mg/Kg	☼	08/05/20 08:30	08/11/20 18:14	1
Ethylbenzene	<0.00088		0.0018	0.00088	mg/Kg	☼	08/05/20 08:30	08/11/20 18:14	1
2-Hexanone	<0.0014		0.0046	0.0014	mg/Kg	☼	08/05/20 08:30	08/11/20 18:14	1
Methylene Chloride	<0.0018		0.0046	0.0018	mg/Kg	☼	08/05/20 08:30	08/11/20 18:14	1
4-Methyl-2-pentanone (MIBK)	<0.0014		0.0046	0.0014	mg/Kg	☼	08/05/20 08:30	08/11/20 18:14	1
Methyl tert-butyl ether	<0.00054		0.0018	0.00054	mg/Kg	☼	08/05/20 08:30	08/11/20 18:14	1
Styrene	<0.00056		0.0018	0.00056	mg/Kg	☼	08/05/20 08:30	08/11/20 18:14	1
1,1,2,2-Tetrachloroethane	<0.00059		0.0018	0.00059	mg/Kg	☼	08/05/20 08:30	08/11/20 18:14	1
Tetrachloroethene	<0.00063		0.0018	0.00063	mg/Kg	☼	08/05/20 08:30	08/11/20 18:14	1
Toluene	<0.00046		0.0018	0.00046	mg/Kg	☼	08/05/20 08:30	08/11/20 18:14	1
trans-1,2-Dichloroethene	<0.00082		0.0018	0.00082	mg/Kg	☼	08/05/20 08:30	08/11/20 18:14	1
trans-1,3-Dichloropropene	<0.00065		0.0018	0.00065	mg/Kg	☼	08/05/20 08:30	08/11/20 18:14	1
1,1,1-Trichloroethane	<0.00062		0.0018	0.00062	mg/Kg	☼	08/05/20 08:30	08/11/20 18:14	1
1,1,2-Trichloroethane	<0.00079		0.0018	0.00079	mg/Kg	☼	08/05/20 08:30	08/11/20 18:14	1
Trichloroethene	<0.00062		0.0018	0.00062	mg/Kg	☼	08/05/20 08:30	08/11/20 18:14	1
Vinyl acetate	<0.0016		0.0046	0.0016	mg/Kg	☼	08/05/20 08:30	08/11/20 18:14	1
Vinyl chloride	<0.00081		0.0018	0.00081	mg/Kg	☼	08/05/20 08:30	08/11/20 18:14	1
Xylenes, Total	<0.00059		0.0037	0.00059	mg/Kg	☼	08/05/20 08:30	08/11/20 18:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		75 - 131	08/05/20 08:30	08/11/20 18:14	1
Dibromofluoromethane	96		75 - 126	08/05/20 08:30	08/11/20 18:14	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	08/05/20 08:30	08/11/20 18:14	1
Toluene-d8 (Surr)	88		75 - 124	08/05/20 08:30	08/11/20 18:14	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	☼	08/14/20 17:27	08/17/20 10:14	1
Acenaphthylene	<0.0048		0.037	0.0048	mg/Kg	☼	08/14/20 17:27	08/17/20 10:14	1
Anthracene	<0.0061		0.037	0.0061	mg/Kg	☼	08/14/20 17:27	08/17/20 10:14	1
Benzo[a]anthracene	0.023	J	0.037	0.0049	mg/Kg	☼	08/14/20 17:27	08/17/20 10:14	1

Eurofins TestAmerica, Chicago

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Lab Sample ID: 500-185937-1

Date Collected: 08/04/20 13:15

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 90.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.028	J	0.037	0.0071	mg/Kg	☼	08/14/20 17:27	08/17/20 10:14	1
Benzo[b]fluoranthene	0.021	J	0.037	0.0079	mg/Kg	☼	08/14/20 17:27	08/17/20 10:14	1
Benzo[g,h,i]perylene	0.024	J	0.037	0.012	mg/Kg	☼	08/14/20 17:27	08/17/20 10:14	1
Benzo[k]fluoranthene	0.039		0.037	0.011	mg/Kg	☼	08/14/20 17:27	08/17/20 10:14	1
Bis(2-chloroethoxy)methane	<0.038		0.18	0.038	mg/Kg	☼	08/14/20 17:27	08/17/20 10:14	1
Bis(2-chloroethyl)ether	<0.055		0.18	0.055	mg/Kg	☼	08/14/20 17:27	08/17/20 10:14	1
Bis(2-ethylhexyl) phthalate	<0.067		0.18	0.067	mg/Kg	☼	08/14/20 17:27	08/17/20 10:14	1
4-Bromophenyl phenyl ether	<0.048		0.18	0.048	mg/Kg	☼	08/14/20 17:27	08/17/20 10:14	1
Butyl benzyl phthalate	<0.070		0.18	0.070	mg/Kg	☼	08/14/20 17:27	08/17/20 10:14	1
Carbazole	<0.092		0.18	0.092	mg/Kg	☼	08/14/20 17:27	08/17/20 10:14	1
4-Chloroaniline	<0.17		0.74	0.17	mg/Kg	☼	08/14/20 17:27	08/17/20 10:14	1
4-Chloro-3-methylphenol	<0.13		0.37	0.13	mg/Kg	☼	08/14/20 17:27	08/17/20 10:14	1
2-Chloronaphthalene	<0.041		0.18	0.041	mg/Kg	☼	08/14/20 17:27	08/17/20 10:14	1
2-Chlorophenol	<0.063		0.18	0.063	mg/Kg	☼	08/14/20 17:27	08/17/20 10:14	1
4-Chlorophenyl phenyl ether	<0.043		0.18	0.043	mg/Kg	☼	08/14/20 17:27	08/17/20 10:14	1
Chrysene	0.027	J	0.037	0.010	mg/Kg	☼	08/14/20 17:27	08/17/20 10:14	1
Dibenz(a,h)anthracene	<0.0071		0.037	0.0071	mg/Kg	☼	08/14/20 17:27	08/17/20 10:14	1
Dibenzofuran	<0.043		0.18	0.043	mg/Kg	☼	08/14/20 17:27	08/17/20 10:14	1
1,2-Dichlorobenzene	<0.044		0.18	0.044	mg/Kg	☼	08/14/20 17:27	08/17/20 10:14	1
1,3-Dichlorobenzene	<0.041		0.18	0.041	mg/Kg	☼	08/14/20 17:27	08/17/20 10:14	1
1,4-Dichlorobenzene	<0.047		0.18	0.047	mg/Kg	☼	08/14/20 17:27	08/17/20 10:14	1
3,3'-Dichlorobenzidine	<0.051	F1 F2	0.18	0.051	mg/Kg	☼	08/14/20 17:27	08/17/20 10:14	1
2,4-Dichlorophenol	<0.087		0.37	0.087	mg/Kg	☼	08/14/20 17:27	08/17/20 10:14	1
Diethyl phthalate	<0.062		0.18	0.062	mg/Kg	☼	08/14/20 17:27	08/17/20 10:14	1
2,4-Dimethylphenol	<0.14		0.37	0.14	mg/Kg	☼	08/14/20 17:27	08/17/20 10:14	1
Dimethyl phthalate	<0.048		0.18	0.048	mg/Kg	☼	08/14/20 17:27	08/17/20 10:14	1
Di-n-butyl phthalate	<0.056		0.18	0.056	mg/Kg	☼	08/14/20 17:27	08/17/20 10:14	1
4,6-Dinitro-2-methylphenol	<0.30		0.74	0.30	mg/Kg	☼	08/14/20 17:27	08/17/20 10:14	1
2,4-Dinitrophenol	<0.65		0.74	0.65	mg/Kg	☼	08/14/20 17:27	08/17/20 10:14	1
2,4-Dinitrotoluene	<0.058		0.18	0.058	mg/Kg	☼	08/14/20 17:27	08/17/20 10:14	1
2,6-Dinitrotoluene	<0.072		0.18	0.072	mg/Kg	☼	08/14/20 17:27	08/17/20 10:14	1
Di-n-octyl phthalate	<0.060		0.18	0.060	mg/Kg	☼	08/14/20 17:27	08/17/20 10:14	1
Fluoranthene	0.053		0.037	0.0068	mg/Kg	☼	08/14/20 17:27	08/17/20 10:14	1
Fluorene	<0.0052		0.037	0.0052	mg/Kg	☼	08/14/20 17:27	08/17/20 10:14	1
Hexachlorobenzene	<0.0085		0.074	0.0085	mg/Kg	☼	08/14/20 17:27	08/17/20 10:14	1
Hexachlorobutadiene	<0.058		0.18	0.058	mg/Kg	☼	08/14/20 17:27	08/17/20 10:14	1
Hexachlorocyclopentadiene	<0.21	F2	0.74	0.21	mg/Kg	☼	08/14/20 17:27	08/17/20 10:14	1
Hexachloroethane	<0.056		0.18	0.056	mg/Kg	☼	08/14/20 17:27	08/17/20 10:14	1
Indeno[1,2,3-cd]pyrene	0.021	J	0.037	0.0095	mg/Kg	☼	08/14/20 17:27	08/17/20 10:14	1
Isophorone	<0.041		0.18	0.041	mg/Kg	☼	08/14/20 17:27	08/17/20 10:14	1
2-Methylnaphthalene	<0.0068		0.074	0.0068	mg/Kg	☼	08/14/20 17:27	08/17/20 10:14	1
2-Methylphenol	<0.059		0.18	0.059	mg/Kg	☼	08/14/20 17:27	08/17/20 10:14	1
3 & 4 Methylphenol	<0.061		0.18	0.061	mg/Kg	☼	08/14/20 17:27	08/17/20 10:14	1
Naphthalene	<0.0057		0.037	0.0057	mg/Kg	☼	08/14/20 17:27	08/17/20 10:14	1
2-Nitroaniline	<0.049		0.18	0.049	mg/Kg	☼	08/14/20 17:27	08/17/20 10:14	1
3-Nitroaniline	<0.11		0.37	0.11	mg/Kg	☼	08/14/20 17:27	08/17/20 10:14	1
4-Nitroaniline	<0.15	F1	0.37	0.15	mg/Kg	☼	08/14/20 17:27	08/17/20 10:14	1
Nitrobenzene	<0.0092		0.037	0.0092	mg/Kg	☼	08/14/20 17:27	08/17/20 10:14	1
2-Nitrophenol	<0.087		0.37	0.087	mg/Kg	☼	08/14/20 17:27	08/17/20 10:14	1

Euofins TestAmerica, Chicago

Client Sample Results

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Date Collected: 08/04/20 13:15

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 90.2

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	☼	08/14/20 17:27	08/17/20 10:14	1
N-Nitrosodi-n-propylamine	<0.045		0.074	0.045	mg/Kg	☼	08/14/20 17:27	08/17/20 10:14	1
N-Nitrosodiphenylamine	<0.043		0.18	0.043	mg/Kg	☼	08/14/20 17:27	08/17/20 10:14	1
2,2'-oxybis[1-chloropropane]	<0.043		0.18	0.043	mg/Kg	☼	08/14/20 17:27	08/17/20 10:14	1
Pentachlorophenol	<0.59		0.74	0.59	mg/Kg	☼	08/14/20 17:27	08/17/20 10:14	1
Phenanthrene	0.018	J	0.037	0.0051	mg/Kg	☼	08/14/20 17:27	08/17/20 10:14	1
Phenol	<0.082		0.18	0.082	mg/Kg	☼	08/14/20 17:27	08/17/20 10:14	1
Pyrene	0.036	J	0.037	0.0073	mg/Kg	☼	08/14/20 17:27	08/17/20 10:14	1
1,2,4-Trichlorobenzene	<0.040		0.18	0.040	mg/Kg	☼	08/14/20 17:27	08/17/20 10:14	1
2,4,5-Trichlorophenol	<0.084		0.37	0.084	mg/Kg	☼	08/14/20 17:27	08/17/20 10:14	1
2,4,6-Trichlorophenol	<0.13		0.37	0.13	mg/Kg	☼	08/14/20 17:27	08/17/20 10:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	90		43 - 145				08/14/20 17:27	08/17/20 10:14	1
2-Fluorophenol	79		31 - 166				08/14/20 17:27	08/17/20 10:14	1
Nitrobenzene-d5	71		37 - 147				08/14/20 17:27	08/17/20 10:14	1
Phenol-d5	68		30 - 153				08/14/20 17:27	08/17/20 10:14	1
Terphenyl-d14	97		42 - 157				08/14/20 17:27	08/17/20 10:14	1
2,4,6-Tribromophenol	105		31 - 143				08/14/20 17:27	08/17/20 10:14	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.21	F1	1.1	0.21	mg/Kg	☼	08/11/20 07:05	08/12/20 00:34	1
Arsenic	4.1		0.53	0.18	mg/Kg	☼	08/11/20 07:05	08/12/20 00:34	1
Barium	55		0.53	0.060	mg/Kg	☼	08/11/20 07:05	08/12/20 00:34	1
Beryllium	0.46		0.21	0.050	mg/Kg	☼	08/11/20 07:05	08/12/20 00:34	1
Cadmium	0.15	B	0.11	0.019	mg/Kg	☼	08/11/20 07:05	08/12/20 00:34	1
Chromium	13		0.53	0.26	mg/Kg	☼	08/11/20 07:05	08/12/20 00:34	1
Cobalt	6.4		0.27	0.069	mg/Kg	☼	08/11/20 07:05	08/12/20 00:34	1
Copper	9.1		0.53	0.15	mg/Kg	☼	08/11/20 07:05	08/12/20 00:34	1
Iron	10000		11	5.5	mg/Kg	☼	08/11/20 07:05	08/12/20 00:34	1
Lead	16	F1	0.27	0.12	mg/Kg	☼	08/11/20 07:05	08/12/20 00:34	1
Magnesium	16000		5.3	2.6	mg/Kg	☼	08/11/20 07:05	08/12/20 00:34	1
Calcium	24000		11	1.8	mg/Kg	☼	08/11/20 07:05	08/12/20 00:34	1
Manganese	370		0.53	0.077	mg/Kg	☼	08/11/20 07:05	08/12/20 00:34	1
Nickel	13		0.53	0.15	mg/Kg	☼	08/11/20 07:05	08/12/20 00:34	1
Selenium	<0.31		0.53	0.31	mg/Kg	☼	08/11/20 07:05	08/12/20 00:34	1
Silver	<0.068	F1	0.27	0.068	mg/Kg	☼	08/11/20 07:05	08/12/20 00:34	1
Thallium	0.29	J	0.53	0.26	mg/Kg	☼	08/11/20 07:05	08/12/20 00:34	1
Vanadium	18		0.27	0.063	mg/Kg	☼	08/11/20 07:05	08/12/20 00:34	1
Zinc	44	F1	1.1	0.47	mg/Kg	☼	08/11/20 07:05	08/12/20 00:34	1
Potassium	1000	F1	27	9.4	mg/Kg	☼	08/11/20 07:05	08/12/20 00:34	1
Sodium	840		53	7.9	mg/Kg	☼	08/11/20 07:05	08/12/20 00:34	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/17/20 17:21	08/18/20 01:14	1
Barium	0.40	J	0.50	0.050	mg/L		08/17/20 17:21	08/18/20 01:14	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/17/20 17:21	08/18/20 01:14	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/17/20 17:21	08/18/20 01:14	1

Eurofins TestAmerica, Chicago

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Date Collected: 08/04/20 13:15

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 90.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	170		5.0	0.50	mg/L		08/17/20 17:21	08/18/20 01:14	1
Chromium	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:14	1
Cobalt	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:14	1
Copper	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:14	1
Iron	<0.20		0.40	0.20	mg/L		08/17/20 17:21	08/18/20 01:14	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/17/20 17:21	08/18/20 01:14	1
Magnesium	78		2.5	0.50	mg/L		08/17/20 17:21	08/18/20 01:14	1
Manganese	0.28		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:14	1
Nickel	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:14	1
Potassium	3.1		2.5	0.50	mg/L		08/17/20 17:21	08/18/20 01:14	1
Selenium	<0.020		0.050	0.020	mg/L		08/17/20 17:21	08/18/20 01:14	1
Silver	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:14	1
Vanadium	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:14	1
Zinc	0.039 J		0.50	0.020	mg/L		08/17/20 17:21	08/18/20 01:14	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		08/17/20 17:17	08/18/20 03:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		08/17/20 17:21	08/18/20 09:25	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		08/17/20 17:21	08/18/20 09:25	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		08/18/20 09:55	08/19/20 09:13	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034		0.017	0.0056	mg/Kg	☼	08/11/20 14:25	08/12/20 07:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.20 J		0.24	0.12	mg/Kg	☼	08/14/20 13:10	08/17/20 10:09	1
pH	8.6		0.2	0.2	SU			08/06/20 20:40	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185937-1

Client Sample ID: 2412V2-3-B02 (0-1.1)

Lab Sample ID: 500-185937-2

Date Collected: 08/04/20 13:30

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 91.6

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	☼	08/05/20 08:30	08/11/20 18:39	1
Benzene	<0.00052		0.0020	0.00052	mg/Kg	☼	08/05/20 08:30	08/11/20 18:39	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg	☼	08/05/20 08:30	08/11/20 18:39	1
Bromoform	<0.00059		0.0020	0.00059	mg/Kg	☼	08/05/20 08:30	08/11/20 18:39	1
Bromomethane	<0.0019 *		0.0051	0.0019	mg/Kg	☼	08/05/20 08:30	08/11/20 18:39	1
2-Butanone (MEK)	<0.0023		0.0051	0.0023	mg/Kg	☼	08/05/20 08:30	08/11/20 18:39	1
Carbon disulfide	<0.0011		0.0051	0.0011	mg/Kg	☼	08/05/20 08:30	08/11/20 18:39	1
Carbon tetrachloride	<0.00059		0.0020	0.00059	mg/Kg	☼	08/05/20 08:30	08/11/20 18:39	1
Chlorobenzene	<0.00075		0.0020	0.00075	mg/Kg	☼	08/05/20 08:30	08/11/20 18:39	1
Chloroethane	<0.0015		0.0051	0.0015	mg/Kg	☼	08/05/20 08:30	08/11/20 18:39	1
Chloroform	<0.00071		0.0020	0.00071	mg/Kg	☼	08/05/20 08:30	08/11/20 18:39	1
Chloromethane	<0.0020 *		0.0051	0.0020	mg/Kg	☼	08/05/20 08:30	08/11/20 18:39	1
cis-1,2-Dichloroethene	<0.00057		0.0020	0.00057	mg/Kg	☼	08/05/20 08:30	08/11/20 18:39	1
cis-1,3-Dichloropropene	<0.00061		0.0020	0.00061	mg/Kg	☼	08/05/20 08:30	08/11/20 18:39	1
Dibromochloromethane	<0.00067		0.0020	0.00067	mg/Kg	☼	08/05/20 08:30	08/11/20 18:39	1
1,1-Dichloroethane	<0.00070		0.0020	0.00070	mg/Kg	☼	08/05/20 08:30	08/11/20 18:39	1
1,2-Dichloroethane	<0.0016		0.0051	0.0016	mg/Kg	☼	08/05/20 08:30	08/11/20 18:39	1
1,1-Dichloroethene	<0.00070		0.0020	0.00070	mg/Kg	☼	08/05/20 08:30	08/11/20 18:39	1
1,2-Dichloropropane	<0.00053		0.0020	0.00053	mg/Kg	☼	08/05/20 08:30	08/11/20 18:39	1
1,3-Dichloropropane, Total	<0.00071		0.0020	0.00071	mg/Kg	☼	08/05/20 08:30	08/11/20 18:39	1
Ethylbenzene	<0.00097		0.0020	0.00097	mg/Kg	☼	08/05/20 08:30	08/11/20 18:39	1
2-Hexanone	<0.0016		0.0051	0.0016	mg/Kg	☼	08/05/20 08:30	08/11/20 18:39	1
Methylene Chloride	<0.0020		0.0051	0.0020	mg/Kg	☼	08/05/20 08:30	08/11/20 18:39	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0051	0.0015	mg/Kg	☼	08/05/20 08:30	08/11/20 18:39	1
Methyl tert-butyl ether	<0.00060		0.0020	0.00060	mg/Kg	☼	08/05/20 08:30	08/11/20 18:39	1
Styrene	<0.00061		0.0020	0.00061	mg/Kg	☼	08/05/20 08:30	08/11/20 18:39	1
1,1,2,2-Tetrachloroethane	<0.00065		0.0020	0.00065	mg/Kg	☼	08/05/20 08:30	08/11/20 18:39	1
Tetrachloroethene	<0.00069		0.0020	0.00069	mg/Kg	☼	08/05/20 08:30	08/11/20 18:39	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg	☼	08/05/20 08:30	08/11/20 18:39	1
trans-1,2-Dichloroethene	<0.00090		0.0020	0.00090	mg/Kg	☼	08/05/20 08:30	08/11/20 18:39	1
trans-1,3-Dichloropropene	<0.00071		0.0020	0.00071	mg/Kg	☼	08/05/20 08:30	08/11/20 18:39	1
1,1,1-Trichloroethane	<0.00068		0.0020	0.00068	mg/Kg	☼	08/05/20 08:30	08/11/20 18:39	1
1,1,2-Trichloroethane	<0.00087		0.0020	0.00087	mg/Kg	☼	08/05/20 08:30	08/11/20 18:39	1
Trichloroethene	<0.00069		0.0020	0.00069	mg/Kg	☼	08/05/20 08:30	08/11/20 18:39	1
Vinyl acetate	<0.0018		0.0051	0.0018	mg/Kg	☼	08/05/20 08:30	08/11/20 18:39	1
Vinyl chloride	<0.00090		0.0020	0.00090	mg/Kg	☼	08/05/20 08:30	08/11/20 18:39	1
Xylenes, Total	<0.00065		0.0041	0.00065	mg/Kg	☼	08/05/20 08:30	08/11/20 18:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		75 - 131	08/05/20 08:30	08/11/20 18:39	1
Dibromofluoromethane	95		75 - 126	08/05/20 08:30	08/11/20 18:39	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	08/05/20 08:30	08/11/20 18:39	1
Toluene-d8 (Surr)	88		75 - 124	08/05/20 08:30	08/11/20 18:39	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	☼	08/14/20 17:27	08/17/20 10:41	1
Acenaphthylene	<0.0048		0.036	0.0048	mg/Kg	☼	08/14/20 17:27	08/17/20 10:41	1
Anthracene	<0.0061		0.036	0.0061	mg/Kg	☼	08/14/20 17:27	08/17/20 10:41	1
Benzo[a]anthracene	0.028	J	0.036	0.0049	mg/Kg	☼	08/14/20 17:27	08/17/20 10:41	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185937-1

Client Sample ID: 2412V2-3-B02 (0-1.1)

Lab Sample ID: 500-185937-2

Date Collected: 08/04/20 13:30

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 91.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.035	J	0.036	0.0070	mg/Kg	☼	08/14/20 17:27	08/17/20 10:41	1
Benzo[b]fluoranthene	0.058		0.036	0.0078	mg/Kg	☼	08/14/20 17:27	08/17/20 10:41	1
Benzo[g,h,i]perylene	0.023	J	0.036	0.012	mg/Kg	☼	08/14/20 17:27	08/17/20 10:41	1
Benzo[k]fluoranthene	0.013	J	0.036	0.011	mg/Kg	☼	08/14/20 17:27	08/17/20 10:41	1
Bis(2-chloroethoxy)methane	<0.037		0.18	0.037	mg/Kg	☼	08/14/20 17:27	08/17/20 10:41	1
Bis(2-chloroethyl)ether	<0.054		0.18	0.054	mg/Kg	☼	08/14/20 17:27	08/17/20 10:41	1
Bis(2-ethylhexyl) phthalate	<0.066		0.18	0.066	mg/Kg	☼	08/14/20 17:27	08/17/20 10:41	1
4-Bromophenyl phenyl ether	<0.048		0.18	0.048	mg/Kg	☼	08/14/20 17:27	08/17/20 10:41	1
Butyl benzyl phthalate	<0.069		0.18	0.069	mg/Kg	☼	08/14/20 17:27	08/17/20 10:41	1
Carbazole	<0.091		0.18	0.091	mg/Kg	☼	08/14/20 17:27	08/17/20 10:41	1
4-Chloroaniline	<0.17		0.73	0.17	mg/Kg	☼	08/14/20 17:27	08/17/20 10:41	1
4-Chloro-3-methylphenol	<0.12		0.36	0.12	mg/Kg	☼	08/14/20 17:27	08/17/20 10:41	1
2-Chloronaphthalene	<0.040		0.18	0.040	mg/Kg	☼	08/14/20 17:27	08/17/20 10:41	1
2-Chlorophenol	<0.062		0.18	0.062	mg/Kg	☼	08/14/20 17:27	08/17/20 10:41	1
4-Chlorophenyl phenyl ether	<0.042		0.18	0.042	mg/Kg	☼	08/14/20 17:27	08/17/20 10:41	1
Chrysene	0.033	J	0.036	0.0099	mg/Kg	☼	08/14/20 17:27	08/17/20 10:41	1
Dibenz(a,h)anthracene	<0.0070		0.036	0.0070	mg/Kg	☼	08/14/20 17:27	08/17/20 10:41	1
Dibenzofuran	<0.042		0.18	0.042	mg/Kg	☼	08/14/20 17:27	08/17/20 10:41	1
1,2-Dichlorobenzene	<0.043		0.18	0.043	mg/Kg	☼	08/14/20 17:27	08/17/20 10:41	1
1,3-Dichlorobenzene	<0.041		0.18	0.041	mg/Kg	☼	08/14/20 17:27	08/17/20 10:41	1
1,4-Dichlorobenzene	<0.047		0.18	0.047	mg/Kg	☼	08/14/20 17:27	08/17/20 10:41	1
3,3'-Dichlorobenzidine	<0.051		0.18	0.051	mg/Kg	☼	08/14/20 17:27	08/17/20 10:41	1
2,4-Dichlorophenol	<0.086		0.36	0.086	mg/Kg	☼	08/14/20 17:27	08/17/20 10:41	1
Diethyl phthalate	<0.061		0.18	0.061	mg/Kg	☼	08/14/20 17:27	08/17/20 10:41	1
2,4-Dimethylphenol	<0.14		0.36	0.14	mg/Kg	☼	08/14/20 17:27	08/17/20 10:41	1
Dimethyl phthalate	<0.047		0.18	0.047	mg/Kg	☼	08/14/20 17:27	08/17/20 10:41	1
Di-n-butyl phthalate	<0.055		0.18	0.055	mg/Kg	☼	08/14/20 17:27	08/17/20 10:41	1
4,6-Dinitro-2-methylphenol	<0.29		0.73	0.29	mg/Kg	☼	08/14/20 17:27	08/17/20 10:41	1
2,4-Dinitrophenol	<0.64		0.73	0.64	mg/Kg	☼	08/14/20 17:27	08/17/20 10:41	1
2,4-Dinitrotoluene	<0.058		0.18	0.058	mg/Kg	☼	08/14/20 17:27	08/17/20 10:41	1
2,6-Dinitrotoluene	<0.071		0.18	0.071	mg/Kg	☼	08/14/20 17:27	08/17/20 10:41	1
Di-n-octyl phthalate	<0.059		0.18	0.059	mg/Kg	☼	08/14/20 17:27	08/17/20 10:41	1
Fluoranthene	0.059		0.036	0.0067	mg/Kg	☼	08/14/20 17:27	08/17/20 10:41	1
Fluorene	<0.0051		0.036	0.0051	mg/Kg	☼	08/14/20 17:27	08/17/20 10:41	1
Hexachlorobenzene	<0.0084		0.073	0.0084	mg/Kg	☼	08/14/20 17:27	08/17/20 10:41	1
Hexachlorobutadiene	<0.057		0.18	0.057	mg/Kg	☼	08/14/20 17:27	08/17/20 10:41	1
Hexachlorocyclopentadiene	<0.21		0.73	0.21	mg/Kg	☼	08/14/20 17:27	08/17/20 10:41	1
Hexachloroethane	<0.055		0.18	0.055	mg/Kg	☼	08/14/20 17:27	08/17/20 10:41	1
Indeno[1,2,3-cd]pyrene	0.022	J	0.036	0.0094	mg/Kg	☼	08/14/20 17:27	08/17/20 10:41	1
Isophorone	<0.041		0.18	0.041	mg/Kg	☼	08/14/20 17:27	08/17/20 10:41	1
2-Methylnaphthalene	<0.0067		0.073	0.0067	mg/Kg	☼	08/14/20 17:27	08/17/20 10:41	1
2-Methylphenol	<0.058		0.18	0.058	mg/Kg	☼	08/14/20 17:27	08/17/20 10:41	1
3 & 4 Methylphenol	<0.060		0.18	0.060	mg/Kg	☼	08/14/20 17:27	08/17/20 10:41	1
Naphthalene	<0.0056		0.036	0.0056	mg/Kg	☼	08/14/20 17:27	08/17/20 10:41	1
2-Nitroaniline	<0.049		0.18	0.049	mg/Kg	☼	08/14/20 17:27	08/17/20 10:41	1
3-Nitroaniline	<0.11		0.36	0.11	mg/Kg	☼	08/14/20 17:27	08/17/20 10:41	1
4-Nitroaniline	<0.15		0.36	0.15	mg/Kg	☼	08/14/20 17:27	08/17/20 10:41	1
Nitrobenzene	<0.0090		0.036	0.0090	mg/Kg	☼	08/14/20 17:27	08/17/20 10:41	1
2-Nitrophenol	<0.086		0.36	0.086	mg/Kg	☼	08/14/20 17:27	08/17/20 10:41	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185937-1

Client Sample ID: 2412V2-3-B02 (0-1.1)

Lab Sample ID: 500-185937-2

Date Collected: 08/04/20 13:30

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 91.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.34		0.73	0.34	mg/Kg	☼	08/14/20 17:27	08/17/20 10:41	1
N-Nitrosodi-n-propylamine	<0.044		0.073	0.044	mg/Kg	☼	08/14/20 17:27	08/17/20 10:41	1
N-Nitrosodiphenylamine	<0.043		0.18	0.043	mg/Kg	☼	08/14/20 17:27	08/17/20 10:41	1
2,2'-oxybis[1-chloropropane]	<0.042		0.18	0.042	mg/Kg	☼	08/14/20 17:27	08/17/20 10:41	1
Pentachlorophenol	<0.58		0.73	0.58	mg/Kg	☼	08/14/20 17:27	08/17/20 10:41	1
Phenanthrene	0.015	J	0.036	0.0051	mg/Kg	☼	08/14/20 17:27	08/17/20 10:41	1
Phenol	<0.081		0.18	0.081	mg/Kg	☼	08/14/20 17:27	08/17/20 10:41	1
Pyrene	0.043		0.036	0.0072	mg/Kg	☼	08/14/20 17:27	08/17/20 10:41	1
1,2,4-Trichlorobenzene	<0.039		0.18	0.039	mg/Kg	☼	08/14/20 17:27	08/17/20 10:41	1
2,4,5-Trichlorophenol	<0.083		0.36	0.083	mg/Kg	☼	08/14/20 17:27	08/17/20 10:41	1
2,4,6-Trichlorophenol	<0.12		0.36	0.12	mg/Kg	☼	08/14/20 17:27	08/17/20 10:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	88		43 - 145	08/14/20 17:27	08/17/20 10:41	1
2-Fluorophenol	78		31 - 166	08/14/20 17:27	08/17/20 10:41	1
Nitrobenzene-d5	67		37 - 147	08/14/20 17:27	08/17/20 10:41	1
Phenol-d5	64		30 - 153	08/14/20 17:27	08/17/20 10:41	1
Terphenyl-d14	94		42 - 157	08/14/20 17:27	08/17/20 10:41	1
2,4,6-Tribromophenol	101		31 - 143	08/14/20 17:27	08/17/20 10:41	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.48	J	1.0	0.20	mg/Kg	☼	08/11/20 07:05	08/12/20 01:02	1
Arsenic	4.5		0.52	0.18	mg/Kg	☼	08/11/20 07:05	08/12/20 01:02	1
Barium	77		0.52	0.060	mg/Kg	☼	08/11/20 07:05	08/12/20 01:02	1
Beryllium	0.49		0.21	0.049	mg/Kg	☼	08/11/20 07:05	08/12/20 01:02	1
Cadmium	0.14	B	0.10	0.019	mg/Kg	☼	08/11/20 07:05	08/12/20 01:02	1
Chromium	12		0.52	0.26	mg/Kg	☼	08/11/20 07:05	08/12/20 01:02	1
Cobalt	7.9		0.26	0.068	mg/Kg	☼	08/11/20 07:05	08/12/20 01:02	1
Copper	9.6		0.52	0.15	mg/Kg	☼	08/11/20 07:05	08/12/20 01:02	1
Iron	11000		10	5.4	mg/Kg	☼	08/11/20 07:05	08/12/20 01:02	1
Lead	19		0.26	0.12	mg/Kg	☼	08/11/20 07:05	08/12/20 01:02	1
Magnesium	3300		5.2	2.6	mg/Kg	☼	08/11/20 07:05	08/12/20 01:02	1
Calcium	4600		10	1.8	mg/Kg	☼	08/11/20 07:05	08/12/20 01:02	1
Manganese	610		0.52	0.076	mg/Kg	☼	08/11/20 07:05	08/12/20 01:02	1
Nickel	14		0.52	0.15	mg/Kg	☼	08/11/20 07:05	08/12/20 01:02	1
Selenium	0.38	J	0.52	0.31	mg/Kg	☼	08/11/20 07:05	08/12/20 01:02	1
Silver	<0.067		0.26	0.067	mg/Kg	☼	08/11/20 07:05	08/12/20 01:02	1
Thallium	0.47	J	0.52	0.26	mg/Kg	☼	08/11/20 07:05	08/12/20 01:02	1
Vanadium	20		0.26	0.062	mg/Kg	☼	08/11/20 07:05	08/12/20 01:02	1
Zinc	48		1.0	0.46	mg/Kg	☼	08/11/20 07:05	08/12/20 01:02	1
Potassium	1000		26	9.2	mg/Kg	☼	08/11/20 07:05	08/12/20 01:02	1
Sodium	950		52	7.7	mg/Kg	☼	08/11/20 07:05	08/12/20 01:02	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/17/20 17:21	08/18/20 01:26	1
Barium	0.43	J	0.50	0.050	mg/L		08/17/20 17:21	08/18/20 01:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/17/20 17:21	08/18/20 01:26	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/17/20 17:21	08/18/20 01:26	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185937-1

Client Sample ID: 2412V2-3-B02 (0-1.1)

Lab Sample ID: 500-185937-2

Date Collected: 08/04/20 13:30

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 91.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	200		5.0	0.50	mg/L		08/17/20 17:21	08/18/20 01:26	1
Chromium	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:26	1
Cobalt	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:26	1
Copper	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:26	1
Iron	<0.20		0.40	0.20	mg/L		08/17/20 17:21	08/18/20 01:26	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/17/20 17:21	08/18/20 01:26	1
Magnesium	89		2.5	0.50	mg/L		08/17/20 17:21	08/18/20 01:26	1
Manganese	0.39		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:26	1
Nickel	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:26	1
Potassium	2.3 J		2.5	0.50	mg/L		08/17/20 17:21	08/18/20 01:26	1
Selenium	<0.020		0.050	0.020	mg/L		08/17/20 17:21	08/18/20 01:26	1
Silver	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:26	1
Vanadium	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:26	1
Zinc	0.026 J		0.50	0.020	mg/L		08/17/20 17:21	08/18/20 01:26	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		08/17/20 17:17	08/18/20 03:26	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		08/17/20 17:21	08/18/20 09:27	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		08/17/20 17:21	08/18/20 09:27	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		08/18/20 09:55	08/19/20 09:15	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.017	0.0058	mg/Kg	☼	08/11/20 14:25	08/12/20 07:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.26 J		0.31	0.16	mg/Kg	☼	08/14/20 13:10	08/17/20 10:10	1
pH	8.9		0.2	0.2	SU			08/06/20 20:43	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185937-1

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 exceeds control limits.
F2	MS/MSD RPD exceeds 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
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC 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.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL.
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
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
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185937-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185937-1

GC/MS VOA

Analysis Batch: 556207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185937-1	2412V2-3-B01 (0-1.1)	Total/NA	Solid	8260B	556283
500-185937-2	2412V2-3-B02 (0-1.1)	Total/NA	Solid	8260B	556283
MB 500-556207/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-556207/7	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-556207/8	Lab Control Sample Dup	Total/NA	Solid	8260B	

Prep Batch: 556283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185937-1	2412V2-3-B01 (0-1.1)	Total/NA	Solid	5035	
500-185937-2	2412V2-3-B02 (0-1.1)	Total/NA	Solid	5035	

GC/MS Semi VOA

Prep Batch: 556949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185937-1	2412V2-3-B01 (0-1.1)	Total/NA	Solid	3541	
500-185937-2	2412V2-3-B02 (0-1.1)	Total/NA	Solid	3541	
MB 500-556949/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-556949/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-185937-1 MS	2412V2-3-B01 (0-1.1)	Total/NA	Solid	3541	
500-185937-1 MSD	2412V2-3-B01 (0-1.1)	Total/NA	Solid	3541	

Analysis Batch: 557105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185937-1	2412V2-3-B01 (0-1.1)	Total/NA	Solid	8270D	556949
500-185937-2	2412V2-3-B02 (0-1.1)	Total/NA	Solid	8270D	556949
500-185937-1 MS	2412V2-3-B01 (0-1.1)	Total/NA	Solid	8270D	556949
500-185937-1 MSD	2412V2-3-B01 (0-1.1)	Total/NA	Solid	8270D	556949

Analysis Batch: 557147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-556949/1-A	Method Blank	Total/NA	Solid	8270D	556949
LCS 500-556949/2-A	Lab Control Sample	Total/NA	Solid	8270D	556949

Metals

Prep Batch: 556180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185937-1	2412V2-3-B01 (0-1.1)	Total/NA	Solid	3050B	
500-185937-2	2412V2-3-B02 (0-1.1)	Total/NA	Solid	3050B	
MB 500-556180/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-556180/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-185937-1 MS	2412V2-3-B01 (0-1.1)	Total/NA	Solid	3050B	
500-185937-1 MSD	2412V2-3-B01 (0-1.1)	Total/NA	Solid	3050B	
500-185937-1 DU	2412V2-3-B01 (0-1.1)	Total/NA	Solid	3050B	

Prep Batch: 556263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185937-1	2412V2-3-B01 (0-1.1)	Total/NA	Solid	7471B	
500-185937-2	2412V2-3-B02 (0-1.1)	Total/NA	Solid	7471B	
MB 500-556263/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-556263/13-A	Lab Control Sample	Total/NA	Solid	7471B	

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185937-1

Metals

Analysis Batch: 556360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185937-1	2412V2-3-B01 (0-1.1)	Total/NA	Solid	6010B	556180
500-185937-2	2412V2-3-B02 (0-1.1)	Total/NA	Solid	6010B	556180
MB 500-556180/1-A	Method Blank	Total/NA	Solid	6010B	556180
LCS 500-556180/2-A	Lab Control Sample	Total/NA	Solid	6010B	556180
500-185937-1 MS	2412V2-3-B01 (0-1.1)	Total/NA	Solid	6010B	556180
500-185937-1 MSD	2412V2-3-B01 (0-1.1)	Total/NA	Solid	6010B	556180
500-185937-1 DU	2412V2-3-B01 (0-1.1)	Total/NA	Solid	6010B	556180

Analysis Batch: 556451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185937-1	2412V2-3-B01 (0-1.1)	Total/NA	Solid	7471B	556263
500-185937-2	2412V2-3-B02 (0-1.1)	Total/NA	Solid	7471B	556263
MB 500-556263/12-A	Method Blank	Total/NA	Solid	7471B	556263
LCS 500-556263/13-A	Lab Control Sample	Total/NA	Solid	7471B	556263

Leach Batch: 556907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185937-1	2412V2-3-B01 (0-1.1)	SPLP East	Solid	1312	
500-185937-2	2412V2-3-B02 (0-1.1)	SPLP East	Solid	1312	
LB 500-556907/1-B	Method Blank	SPLP East	Solid	1312	

Leach Batch: 556919

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185937-1	2412V2-3-B01 (0-1.1)	TCLP	Solid	1311	
500-185937-2	2412V2-3-B02 (0-1.1)	TCLP	Solid	1311	
LB 500-556919/1-B	Method Blank	TCLP	Solid	1311	
LB 500-556919/1-C	Method Blank	TCLP	Solid	1311	

Prep Batch: 557242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185937-1	2412V2-3-B01 (0-1.1)	SPLP East	Solid	3010A	556907
500-185937-2	2412V2-3-B02 (0-1.1)	SPLP East	Solid	3010A	556907
LB 500-556907/1-B	Method Blank	SPLP East	Solid	3010A	556907
LCS 500-557242/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 557245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185937-1	2412V2-3-B01 (0-1.1)	TCLP	Solid	3010A	556919
500-185937-2	2412V2-3-B02 (0-1.1)	TCLP	Solid	3010A	556919
LB 500-556919/1-B	Method Blank	TCLP	Solid	3010A	556919
LCS 500-557245/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 557303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185937-1	2412V2-3-B01 (0-1.1)	TCLP	Solid	6010B	557245
500-185937-2	2412V2-3-B02 (0-1.1)	TCLP	Solid	6010B	557245
LB 500-556919/1-B	Method Blank	TCLP	Solid	6010B	557245
LCS 500-557245/2-A	Lab Control Sample	Total/NA	Solid	6010B	557245

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185937-1

Metals

Analysis Batch: 557308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185937-1	2412V2-3-B01 (0-1.1)	SPLP East	Solid	6010B	557242
500-185937-2	2412V2-3-B02 (0-1.1)	SPLP East	Solid	6010B	557242
LB 500-556907/1-B	Method Blank	SPLP East	Solid	6010B	557242
LCS 500-557242/2-A	Lab Control Sample	Total/NA	Solid	6010B	557242

Prep Batch: 557385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185937-1	2412V2-3-B01 (0-1.1)	TCLP	Solid	7470A	556919
500-185937-2	2412V2-3-B02 (0-1.1)	TCLP	Solid	7470A	556919
LB 500-556919/1-C	Method Blank	TCLP	Solid	7470A	556919
MB 500-557385/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-557385/14-A	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 557398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185937-1	2412V2-3-B01 (0-1.1)	TCLP	Solid	6020A	557245
500-185937-2	2412V2-3-B02 (0-1.1)	TCLP	Solid	6020A	557245
LB 500-556919/1-B	Method Blank	TCLP	Solid	6020A	557245
LCS 500-557245/2-A	Lab Control Sample	Total/NA	Solid	6020A	557245

Analysis Batch: 557609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185937-1	2412V2-3-B01 (0-1.1)	TCLP	Solid	7470A	557385
500-185937-2	2412V2-3-B02 (0-1.1)	TCLP	Solid	7470A	557385
LB 500-556919/1-C	Method Blank	TCLP	Solid	7470A	557385
MB 500-557385/12-A	Method Blank	Total/NA	Solid	7470A	557385
LCS 500-557385/14-A	Lab Control Sample	Total/NA	Solid	7470A	557385

General Chemistry

Analysis Batch: 555682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185937-1	2412V2-3-B01 (0-1.1)	Total/NA	Solid	Moisture	
500-185937-2	2412V2-3-B02 (0-1.1)	Total/NA	Solid	Moisture	

Analysis Batch: 555814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185937-1	2412V2-3-B01 (0-1.1)	Total/NA	Solid	9045D	
500-185937-2	2412V2-3-B02 (0-1.1)	Total/NA	Solid	9045D	
LCS 500-555814/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-555814/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Prep Batch: 556845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185937-1	2412V2-3-B01 (0-1.1)	Total/NA	Solid	9010C	
500-185937-2	2412V2-3-B02 (0-1.1)	Total/NA	Solid	9010C	
MB 500-556845/1-A	Method Blank	Total/NA	Solid	9010C	
HLCS 500-556845/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 500-556845/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 500-556845/4-A	Lab Control Sample	Total/NA	Solid	9010C	

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185937-1

General Chemistry

Analysis Batch: 557233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185937-1	2412V2-3-B01 (0-1.1)	Total/NA	Solid	9012B	556845
500-185937-2	2412V2-3-B02 (0-1.1)	Total/NA	Solid	9012B	556845
MB 500-556845/1-A	Method Blank	Total/NA	Solid	9012B	556845
HLCS 500-556845/2-A	Lab Control Sample	Total/NA	Solid	9012B	556845
LCS 500-556845/3-A	Lab Control Sample	Total/NA	Solid	9012B	556845
LLCS 500-556845/4-A	Lab Control Sample	Total/NA	Solid	9012B	556845

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Surrogate Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185937-1

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)
500-185937-1	2412V2-3-B01 (0-1.1)	109	96	96	88
500-185937-2	2412V2-3-B02 (0-1.1)	108	95	95	88
LCS 500-556207/7	Lab Control Sample	97	87	82	95
LCS 500-556207/8	Lab Control Sample Dup	102	87	82	91
MB 500-556207/6	Method Blank	103	89	86	89

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)
500-185937-1	2412V2-3-B01 (0-1.1)	90	79	71	68	97	105
500-185937-1 MS	2412V2-3-B01 (0-1.1)	103	87	84	78	94	118
500-185937-1 MSD	2412V2-3-B01 (0-1.1)	95	83	76	70	88	113
500-185937-2	2412V2-3-B02 (0-1.1)	88	78	67	64	94	101
LCS 500-556949/2-A	Lab Control Sample	92	85	76	71	95	104
MB 500-556949/1-A	Method Blank	90	91	76	74	102	95

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 - Hampshire - WO 074

Job ID: 500-185937-1

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

Lab Sample ID: MB 500-556207/6
Matrix: Solid
Analysis Batch: 556207

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			08/11/20 10:59	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg			08/11/20 10:59	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg			08/11/20 10:59	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg			08/11/20 10:59	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg			08/11/20 10:59	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			08/11/20 10:59	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg			08/11/20 10:59	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg			08/11/20 10:59	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg			08/11/20 10:59	1
Chloroethane	<0.0015		0.0050	0.0015	mg/Kg			08/11/20 10:59	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg			08/11/20 10:59	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg			08/11/20 10:59	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg			08/11/20 10:59	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg			08/11/20 10:59	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg			08/11/20 10:59	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg			08/11/20 10:59	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg			08/11/20 10:59	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg			08/11/20 10:59	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			08/11/20 10:59	1
1,3-Dichloropropene, Total	<0.00070		0.0020	0.00070	mg/Kg			08/11/20 10:59	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg			08/11/20 10:59	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg			08/11/20 10:59	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg			08/11/20 10:59	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg			08/11/20 10:59	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg			08/11/20 10:59	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg			08/11/20 10:59	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg			08/11/20 10:59	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg			08/11/20 10:59	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg			08/11/20 10:59	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg			08/11/20 10:59	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg			08/11/20 10:59	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg			08/11/20 10:59	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg			08/11/20 10:59	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg			08/11/20 10:59	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg			08/11/20 10:59	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg			08/11/20 10:59	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg			08/11/20 10:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		75 - 131		08/11/20 10:59	1
Dibromofluoromethane	89		75 - 126		08/11/20 10:59	1
1,2-Dichloroethane-d4 (Surr)	86		70 - 134		08/11/20 10:59	1
Toluene-d8 (Surr)	89		75 - 124		08/11/20 10:59	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185937-1

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

Lab Sample ID: LCS 500-556207/7

Matrix: Solid

Analysis Batch: 556207

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	0.0487		mg/Kg		97	40 - 150
Benzene	0.0500	0.0542		mg/Kg		108	70 - 125
Bromodichloromethane	0.0500	0.0493		mg/Kg		99	67 - 129
Bromoform	0.0500	0.0455		mg/Kg		91	68 - 136
Bromomethane	0.0500	0.0324	*	mg/Kg		65	70 - 130
2-Butanone (MEK)	0.0500	0.0505		mg/Kg		101	47 - 138
Carbon disulfide	0.0500	0.0555		mg/Kg		111	70 - 129
Carbon tetrachloride	0.0500	0.0530		mg/Kg		106	75 - 125
Chlorobenzene	0.0500	0.0528		mg/Kg		106	50 - 150
Chloroethane	0.0500	0.0382		mg/Kg		76	75 - 125
Chloroform	0.0500	0.0505		mg/Kg		101	57 - 135
Chloromethane	0.0500	0.0676	*	mg/Kg		135	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0513		mg/Kg		103	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0501		mg/Kg		100	70 - 125
Dibromochloromethane	0.0500	0.0482		mg/Kg		96	69 - 125
1,1-Dichloroethane	0.0500	0.0593		mg/Kg		119	70 - 125
1,2-Dichloroethane	0.0500	0.0503		mg/Kg		101	70 - 130
1,1-Dichloroethene	0.0500	0.0532		mg/Kg		106	70 - 120
1,2-Dichloropropane	0.0500	0.0563		mg/Kg		113	70 - 125
Ethylbenzene	0.0500	0.0548		mg/Kg		110	61 - 136
2-Hexanone	0.0500	0.0552		mg/Kg		110	48 - 146
Methylene Chloride	0.0500	0.0501		mg/Kg		100	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0538		mg/Kg		108	50 - 148
Methyl tert-butyl ether	0.0500	0.0457		mg/Kg		91	50 - 140
Styrene	0.0500	0.0523		mg/Kg		105	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0469		mg/Kg		94	70 - 122
Tetrachloroethene	0.0500	0.0513		mg/Kg		103	70 - 124
Toluene	0.0500	0.0536		mg/Kg		107	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0534		mg/Kg		107	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0468		mg/Kg		94	70 - 125
1,1,1-Trichloroethane	0.0500	0.0522		mg/Kg		104	70 - 128
1,1,2-Trichloroethane	0.0500	0.0484		mg/Kg		97	70 - 125
Trichloroethene	0.0500	0.0535		mg/Kg		107	70 - 125
Vinyl acetate	0.0500	0.0608		mg/Kg		122	40 - 153
Vinyl chloride	0.0500	0.0537		mg/Kg		107	70 - 125
Xylenes, Total	0.100	0.106		mg/Kg		106	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	97		75 - 131
Dibromofluoromethane	87		75 - 126
1,2-Dichloroethane-d4 (Surr)	82		70 - 134
Toluene-d8 (Surr)	95		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185937-1

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

Lab Sample ID: LCSD 500-556207/8

Matrix: Solid

Analysis Batch: 556207

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	0.0452		mg/Kg		90	40 - 150	8	30
Benzene	0.0500	0.0524		mg/Kg		105	70 - 125	3	30
Bromodichloromethane	0.0500	0.0478		mg/Kg		96	67 - 129	3	30
Bromoform	0.0500	0.0440		mg/Kg		88	68 - 136	3	30
Bromomethane	0.0500	0.0326	*	mg/Kg		65	70 - 130	1	30
2-Butanone (MEK)	0.0500	0.0451		mg/Kg		90	47 - 138	11	30
Carbon disulfide	0.0500	0.0571		mg/Kg		114	70 - 129	3	30
Carbon tetrachloride	0.0500	0.0535		mg/Kg		107	75 - 125	1	30
Chlorobenzene	0.0500	0.0495		mg/Kg		99	50 - 150	6	30
Chloroethane	0.0500	0.0400		mg/Kg		80	75 - 125	5	30
Chloroform	0.0500	0.0498		mg/Kg		100	57 - 135	1	30
Chloromethane	0.0500	0.0696	*	mg/Kg		139	70 - 125	3	30
cis-1,2-Dichloroethene	0.0500	0.0512		mg/Kg		102	70 - 125	0	30
cis-1,3-Dichloropropene	0.0500	0.0457		mg/Kg		91	70 - 125	9	30
Dibromochloromethane	0.0500	0.0451		mg/Kg		90	69 - 125	7	30
1,1-Dichloroethane	0.0500	0.0594		mg/Kg		119	70 - 125	0	30
1,2-Dichloroethane	0.0500	0.0476		mg/Kg		95	70 - 130	5	30
1,1-Dichloroethene	0.0500	0.0537		mg/Kg		107	70 - 120	1	30
1,2-Dichloropropane	0.0500	0.0574		mg/Kg		115	70 - 125	2	30
Ethylbenzene	0.0500	0.0504		mg/Kg		101	61 - 136	8	30
2-Hexanone	0.0500	0.0519		mg/Kg		104	48 - 146	6	30
Methylene Chloride	0.0500	0.0500		mg/Kg		100	70 - 126	0	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0491		mg/Kg		98	50 - 148	9	30
Methyl tert-butyl ether	0.0500	0.0451		mg/Kg		90	50 - 140	1	30
Styrene	0.0500	0.0495		mg/Kg		99	70 - 125	5	30
1,1,2,2-Tetrachloroethane	0.0500	0.0449		mg/Kg		90	70 - 122	4	30
Tetrachloroethene	0.0500	0.0481		mg/Kg		96	70 - 124	6	30
Toluene	0.0500	0.0496		mg/Kg		99	70 - 125	8	30
trans-1,2-Dichloroethene	0.0500	0.0546		mg/Kg		109	70 - 125	2	30
trans-1,3-Dichloropropene	0.0500	0.0452		mg/Kg		90	70 - 125	4	30
1,1,1-Trichloroethane	0.0500	0.0526		mg/Kg		105	70 - 128	1	30
1,1,2-Trichloroethane	0.0500	0.0440		mg/Kg		88	70 - 125	10	30
Trichloroethene	0.0500	0.0519		mg/Kg		104	70 - 125	3	30
Vinyl acetate	0.0500	0.0541		mg/Kg		108	40 - 153	12	30
Vinyl chloride	0.0500	0.0555		mg/Kg		111	70 - 125	3	30
Xylenes, Total	0.100	0.0992		mg/Kg		99	53 - 147	6	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	102		75 - 131
Dibromofluoromethane	87		75 - 126
1,2-Dichloroethane-d4 (Surr)	82		70 - 134
Toluene-d8 (Surr)	91		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185937-1

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

Lab Sample ID: MB 500-556949/1-A
Matrix: Solid
Analysis Batch: 557147

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 556949

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0060		0.033	0.0060	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Acenaphthylene	<0.0044		0.033	0.0044	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Anthracene	<0.0056		0.033	0.0056	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Benzo[a]anthracene	<0.0045		0.033	0.0045	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Benzo[a]pyrene	<0.0064		0.033	0.0064	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Benzo[b]fluoranthene	<0.0072		0.033	0.0072	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Benzo[g,h,i]perylene	<0.011		0.033	0.011	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Benzo[k]fluoranthene	<0.0098		0.033	0.0098	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Bis(2-chloroethoxy)methane	<0.034		0.17	0.034	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Bis(2-chloroethyl)ether	<0.050		0.17	0.050	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Bis(2-ethylhexyl) phthalate	<0.061		0.17	0.061	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
4-Bromophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Butyl benzyl phthalate	<0.063		0.17	0.063	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Carbazole	<0.083		0.17	0.083	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
4-Chloroaniline	<0.16		0.67	0.16	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
4-Chloro-3-methylphenol	<0.11		0.33	0.11	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
2-Chloronaphthalene	<0.037		0.17	0.037	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
2-Chlorophenol	<0.057		0.17	0.057	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
4-Chlorophenyl phenyl ether	<0.039		0.17	0.039	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Chrysene	<0.0091		0.033	0.0091	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Dibenz(a,h)anthracene	<0.0064		0.033	0.0064	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Dibenzofuran	<0.039		0.17	0.039	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
1,2-Dichlorobenzene	<0.040		0.17	0.040	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
1,3-Dichlorobenzene	<0.037		0.17	0.037	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
1,4-Dichlorobenzene	<0.043		0.17	0.043	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
3,3'-Dichlorobenzidine	<0.047		0.17	0.047	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
2,4-Dichlorophenol	<0.079		0.33	0.079	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Diethyl phthalate	<0.056		0.17	0.056	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
2,4-Dimethylphenol	<0.13		0.33	0.13	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Dimethyl phthalate	<0.043		0.17	0.043	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Di-n-butyl phthalate	<0.051		0.17	0.051	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
4,6-Dinitro-2-methylphenol	<0.27		0.67	0.27	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
2,4-Dinitrophenol	<0.59		0.67	0.59	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
2,4-Dinitrotoluene	<0.053		0.17	0.053	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
2,6-Dinitrotoluene	<0.065		0.17	0.065	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Di-n-octyl phthalate	<0.054		0.17	0.054	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Fluoranthene	<0.0062		0.033	0.0062	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Fluorene	<0.0047		0.033	0.0047	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Hexachlorobenzene	<0.0077		0.067	0.0077	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Hexachlorobutadiene	<0.052		0.17	0.052	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Hexachlorocyclopentadiene	<0.19		0.67	0.19	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Hexachloroethane	<0.051		0.17	0.051	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Indeno[1,2,3-cd]pyrene	<0.0086		0.033	0.0086	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Isophorone	<0.037		0.17	0.037	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
2-Methylnaphthalene	<0.0061		0.067	0.0061	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
2-Methylphenol	<0.053		0.17	0.053	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
3 & 4 Methylphenol	<0.055		0.17	0.055	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Naphthalene	<0.0051		0.033	0.0051	mg/Kg		08/14/20 17:27	08/17/20 11:31	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185937-1

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

Lab Sample ID: MB 500-556949/1-A
Matrix: Solid
Analysis Batch: 557147

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 556949

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2-Nitroaniline	<0.045		0.17	0.045	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
3-Nitroaniline	<0.10		0.33	0.10	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
4-Nitroaniline	<0.14		0.33	0.14	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Nitrobenzene	<0.0083		0.033	0.0083	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
2-Nitrophenol	<0.079		0.33	0.079	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
4-Nitrophenol	<0.32		0.67	0.32	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
N-Nitrosodi-n-propylamine	<0.041		0.067	0.041	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
N-Nitrosodiphenylamine	<0.039		0.17	0.039	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
2,2'-oxybis[1-chloropropane]	<0.039		0.17	0.039	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Pentachlorophenol	<0.53		0.67	0.53	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Phenanthrene	<0.0046		0.033	0.0046	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Phenol	<0.074		0.17	0.074	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Pyrene	<0.0066		0.033	0.0066	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
1,2,4-Trichlorobenzene	<0.036		0.17	0.036	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
2,4,5-Trichlorophenol	<0.076		0.33	0.076	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
2,4,6-Trichlorophenol	<0.11		0.33	0.11	mg/Kg		08/14/20 17:27	08/17/20 11:31	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorobiphenyl	90		43 - 145	08/14/20 17:27	08/17/20 11:31	1
2-Fluorophenol	91		31 - 166	08/14/20 17:27	08/17/20 11:31	1
Nitrobenzene-d5	76		37 - 147	08/14/20 17:27	08/17/20 11:31	1
Phenol-d5	74		30 - 153	08/14/20 17:27	08/17/20 11:31	1
Terphenyl-d14	102		42 - 157	08/14/20 17:27	08/17/20 11:31	1
2,4,6-Tribromophenol	95		31 - 143	08/14/20 17:27	08/17/20 11:31	1

Lab Sample ID: LCS 500-556949/2-A
Matrix: Solid
Analysis Batch: 557147

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556949

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthylene	1.33	1.13		mg/Kg		85	68 - 120
Anthracene	1.33	1.14		mg/Kg		86	70 - 114
Benzo[a]anthracene	1.33	1.20		mg/Kg		90	67 - 122
Benzo[a]pyrene	1.33	1.16		mg/Kg		87	65 - 133
Benzo[b]fluoranthene	1.33	1.25		mg/Kg		94	69 - 129
Benzo[g,h,i]perylene	1.33	1.31		mg/Kg		99	72 - 131
Benzo[k]fluoranthene	1.33	1.10		mg/Kg		82	68 - 127
Bis(2-chloroethoxy)methane	1.33	0.924		mg/Kg		69	60 - 112
Bis(2-chloroethyl)ether	1.33	0.826		mg/Kg		62	55 - 111
Bis(2-ethylhexyl) phthalate	1.33	1.12		mg/Kg		84	72 - 131
4-Bromophenyl phenyl ether	1.33	1.13		mg/Kg		85	68 - 118
Butyl benzyl phthalate	1.33	1.17		mg/Kg		88	71 - 129
Carbazole	1.33	1.08		mg/Kg		81	65 - 142
4-Chloroaniline	1.33	0.840		mg/Kg		63	30 - 150
4-Chloro-3-methylphenol	1.33	0.992		mg/Kg		74	65 - 122
2-Chloronaphthalene	1.33	1.09		mg/Kg		82	69 - 114
2-Chlorophenol	1.33	1.01		mg/Kg		76	64 - 110

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185937-1

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

Lab Sample ID: LCS 500-556949/2-A

Matrix: Solid

Analysis Batch: 557147

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 556949

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorophenyl phenyl ether	1.33	1.20		mg/Kg		90	62 - 119
Chrysene	1.33	1.20		mg/Kg		90	63 - 120
Dibenz(a,h)anthracene	1.33	1.24		mg/Kg		93	64 - 131
Dibenzofuran	1.33	1.17		mg/Kg		88	66 - 115
1,2-Dichlorobenzene	1.33	1.06		mg/Kg		80	62 - 110
1,3-Dichlorobenzene	1.33	1.00		mg/Kg		75	65 - 124
1,4-Dichlorobenzene	1.33	1.02		mg/Kg		76	61 - 110
3,3'-Dichlorobenzidine	1.33	0.888		mg/Kg		67	35 - 128
2,4-Dichlorophenol	1.33	1.17		mg/Kg		88	58 - 120
Diethyl phthalate	1.33	1.10		mg/Kg		82	58 - 120
2,4-Dimethylphenol	1.33	1.01		mg/Kg		76	60 - 110
Dimethyl phthalate	1.33	1.24		mg/Kg		93	69 - 116
Di-n-butyl phthalate	1.33	1.09		mg/Kg		82	65 - 120
4,6-Dinitro-2-methylphenol	2.67	0.808		mg/Kg		30	10 - 110
2,4-Dinitrophenol	2.67	0.637	J	mg/Kg		24	10 - 100
2,4-Dinitrotoluene	1.33	1.34		mg/Kg		100	69 - 124
2,6-Dinitrotoluene	1.33	1.30		mg/Kg		97	70 - 123
Di-n-octyl phthalate	1.33	1.13		mg/Kg		85	68 - 134
Fluoranthene	1.33	1.20		mg/Kg		90	62 - 120
Fluorene	1.33	1.18		mg/Kg		89	62 - 120
Hexachlorobenzene	1.33	1.22		mg/Kg		92	63 - 124
Hexachlorobutadiene	1.33	1.31		mg/Kg		98	56 - 120
Hexachlorocyclopentadiene	1.33	1.02		mg/Kg		76	10 - 133
Hexachloroethane	1.33	0.915		mg/Kg		69	60 - 114
Indeno[1,2,3-cd]pyrene	1.33	1.35		mg/Kg		101	68 - 130
Isophorone	1.33	1.02		mg/Kg		77	55 - 110
2-Methylnaphthalene	1.33	1.22		mg/Kg		92	69 - 112
2-Methylphenol	1.33	1.14		mg/Kg		85	60 - 120
3 & 4 Methylphenol	1.33	1.01		mg/Kg		76	57 - 120
Naphthalene	1.33	1.13		mg/Kg		85	63 - 110
2-Nitroaniline	1.33	0.878		mg/Kg		66	57 - 124
3-Nitroaniline	1.33	0.679		mg/Kg		51	40 - 122
4-Nitroaniline	1.33	0.876		mg/Kg		66	60 - 160
Nitrobenzene	1.33	0.949		mg/Kg		71	60 - 116
2-Nitrophenol	1.33	1.15		mg/Kg		86	60 - 120
4-Nitrophenol	2.67	1.81		mg/Kg		68	30 - 122
N-Nitrosodi-n-propylamine	1.33	1.05		mg/Kg		78	56 - 118
N-Nitrosodiphenylamine	1.33	1.09		mg/Kg		82	65 - 112
2,2'-oxybis[1-chloropropane]	1.33	0.945		mg/Kg		71	40 - 124
Pentachlorophenol	2.67	1.26		mg/Kg		47	13 - 112
Phenanthrene	1.33	1.15		mg/Kg		86	62 - 120
Phenol	1.33	0.914		mg/Kg		69	56 - 122
Pyrene	1.33	1.23		mg/Kg		93	61 - 128
1,2,4-Trichlorobenzene	1.33	1.21		mg/Kg		91	66 - 117
2,4,5-Trichlorophenol	1.33	1.06		mg/Kg		80	50 - 120
2,4,6-Trichlorophenol	1.33	1.11		mg/Kg		83	57 - 120

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185937-1

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

Lab Sample ID: LCS 500-556949/2-A
Matrix: Solid
Analysis Batch: 557147

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556949

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	92		43 - 145
2-Fluorophenol	85		31 - 166
Nitrobenzene-d5	76		37 - 147
Phenol-d5	71		30 - 153
Terphenyl-d14	95		42 - 157
2,4,6-Tribromophenol	104		31 - 143

Lab Sample ID: 500-185937-1 MS
Matrix: Solid
Analysis Batch: 557105

Client Sample ID: 2412V2-3-B01 (0-1.1)
Prep Type: Total/NA
Prep Batch: 556949

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	Limits
				Result	Qualifier				
Acenaphthene	<0.0066		1.47	1.47		mg/Kg	☼	100	65 - 124
Acenaphthylene	<0.0048		1.47	1.33		mg/Kg	☼	90	68 - 120
Anthracene	<0.0061		1.47	1.36		mg/Kg	☼	93	70 - 114
Benzo[a]anthracene	0.023	J	1.47	1.32		mg/Kg	☼	88	67 - 122
Benzo[a]pyrene	0.028	J	1.47	1.31		mg/Kg	☼	87	65 - 133
Benzo[b]fluoranthene	0.021	J	1.47	1.54		mg/Kg	☼	103	69 - 129
Benzo[g,h,i]perylene	0.024	J	1.47	1.25		mg/Kg	☼	83	72 - 131
Benzo[k]fluoranthene	0.039		1.47	1.26		mg/Kg	☼	83	68 - 127
Bis(2-chloroethoxy)methane	<0.038		1.47	1.02		mg/Kg	☼	69	60 - 112
Bis(2-chloroethyl)ether	<0.055		1.47	1.12		mg/Kg	☼	77	55 - 111
Bis(2-ethylhexyl) phthalate	<0.067		1.47	1.33		mg/Kg	☼	91	72 - 131
4-Bromophenyl phenyl ether	<0.048		1.47	1.41		mg/Kg	☼	96	68 - 118
Butyl benzyl phthalate	<0.070		1.47	1.13		mg/Kg	☼	77	71 - 129
Carbazole	<0.092		1.47	1.32		mg/Kg	☼	90	65 - 142
4-Chloroaniline	<0.17		1.47	0.776		mg/Kg	☼	53	30 - 150
4-Chloro-3-methylphenol	<0.13		1.47	1.16		mg/Kg	☼	79	65 - 122
2-Chloronaphthalene	<0.041		1.47	1.32		mg/Kg	☼	90	69 - 114
2-Chlorophenol	<0.063		1.47	1.29		mg/Kg	☼	88	64 - 110
4-Chlorophenyl phenyl ether	<0.043		1.47	1.55		mg/Kg	☼	105	62 - 119
Chrysene	0.027	J	1.47	1.16		mg/Kg	☼	77	63 - 120
Dibenz(a,h)anthracene	<0.0071		1.47	1.24		mg/Kg	☼	84	64 - 131
Dibenzofuran	<0.043		1.47	1.44		mg/Kg	☼	98	66 - 115
1,2-Dichlorobenzene	<0.044		1.47	1.20		mg/Kg	☼	82	62 - 110
1,3-Dichlorobenzene	<0.041		1.47	1.12		mg/Kg	☼	76	60 - 110
1,4-Dichlorobenzene	<0.047		1.47	1.13		mg/Kg	☼	77	61 - 110
3,3'-Dichlorobenzidine	<0.051	F1 F2	1.47	0.180	F1	mg/Kg	☼	12	35 - 128
2,4-Dichlorophenol	<0.087		1.47	1.41		mg/Kg	☼	96	58 - 120
Diethyl phthalate	<0.062		1.47	1.74		mg/Kg	☼	118	58 - 120
2,4-Dimethylphenol	<0.14		1.47	1.15		mg/Kg	☼	78	60 - 110
Dimethyl phthalate	<0.048		1.47	1.46		mg/Kg	☼	99	69 - 116
Di-n-butyl phthalate	<0.056		1.47	1.44		mg/Kg	☼	98	65 - 120
4,6-Dinitro-2-methylphenol	<0.30		2.94	2.27		mg/Kg	☼	77	10 - 110
2,4-Dinitrophenol	<0.65		2.94	2.41		mg/Kg	☼	82	10 - 100
2,4-Dinitrotoluene	<0.058		1.47	1.44		mg/Kg	☼	98	69 - 124
2,6-Dinitrotoluene	<0.072		1.47	1.48		mg/Kg	☼	101	70 - 123
Di-n-octyl phthalate	<0.060		1.47	1.38		mg/Kg	☼	94	68 - 134

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185937-1

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

Lab Sample ID: 500-185937-1 MS

Matrix: Solid

Analysis Batch: 557105

Client Sample ID: 2412V2-3-B01 (0-1.1)

Prep Type: Total/NA

Prep Batch: 556949

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Fluoranthene	0.053		1.47	1.68		mg/Kg	☼	111	62 - 120
Fluorene	<0.0052		1.47	1.54		mg/Kg	☼	105	62 - 120
Hexachlorobenzene	<0.0085		1.47	1.69		mg/Kg	☼	115	63 - 124
Hexachlorobutadiene	<0.058		1.47	1.61		mg/Kg	☼	110	56 - 120
Hexachlorocyclopentadiene	<0.21	F2	1.47	1.41		mg/Kg	☼	96	10 - 133
Hexachloroethane	<0.056		1.47	1.08		mg/Kg	☼	74	60 - 114
Indeno[1,2,3-cd]pyrene	0.021	J	1.47	1.25		mg/Kg	☼	83	68 - 130
Isophorone	<0.041		1.47	1.10		mg/Kg	☼	75	55 - 110
2-Methylnaphthalene	<0.0068		1.47	1.49		mg/Kg	☼	101	69 - 112
2-Methylphenol	<0.059		1.47	1.04		mg/Kg	☼	71	60 - 120
3 & 4 Methylphenol	<0.061		1.47	0.986		mg/Kg	☼	67	57 - 120
Naphthalene	<0.0057		1.47	1.29		mg/Kg	☼	88	63 - 110
2-Nitroaniline	<0.049		1.47	1.05		mg/Kg	☼	72	57 - 124
3-Nitroaniline	<0.11		1.47	0.888		mg/Kg	☼	60	40 - 122
4-Nitroaniline	<0.15	F1	1.47	0.952		mg/Kg	☼	65	60 - 160
Nitrobenzene	<0.0092		1.47	1.10		mg/Kg	☼	75	60 - 116
2-Nitrophenol	<0.087		1.47	1.23		mg/Kg	☼	84	60 - 120
4-Nitrophenol	<0.35		2.94	3.48		mg/Kg	☼	119	30 - 122
N-Nitrosodi-n-propylamine	<0.045		1.47	1.05		mg/Kg	☼	71	56 - 118
N-Nitrosodiphenylamine	<0.043		1.47	1.16		mg/Kg	☼	79	65 - 112
2,2'-oxybis[1-chloropropane]	<0.043		1.47	1.39		mg/Kg	☼	95	40 - 124
Pentachlorophenol	<0.59		2.94	1.96		mg/Kg	☼	67	13 - 112
Phenanthrene	0.018	J	1.47	1.44		mg/Kg	☼	97	62 - 120
Phenol	<0.082		1.47	1.02		mg/Kg	☼	69	56 - 122
Pyrene	0.036	J	1.47	1.22		mg/Kg	☼	80	61 - 128
1,2,4-Trichlorobenzene	<0.040		1.47	1.44		mg/Kg	☼	98	66 - 117
2,4,5-Trichlorophenol	<0.084		1.47	1.40		mg/Kg	☼	95	50 - 120
2,4,6-Trichlorophenol	<0.13		1.47	1.36		mg/Kg	☼	92	57 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorobiphenyl	103		43 - 145
2-Fluorophenol	87		31 - 166
Nitrobenzene-d5	84		37 - 147
Phenol-d5	78		30 - 153
Terphenyl-d14	94		42 - 157
2,4,6-Tribromophenol	118		31 - 143

Lab Sample ID: 500-185937-1 MSD

Matrix: Solid

Analysis Batch: 557105

Client Sample ID: 2412V2-3-B01 (0-1.1)

Prep Type: Total/NA

Prep Batch: 556949

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Acenaphthene	<0.0066		1.47	1.31		mg/Kg	☼	89	65 - 124	11	30
Acenaphthylene	<0.0048		1.47	1.25		mg/Kg	☼	85	68 - 120	6	30
Anthracene	<0.0061		1.47	1.24		mg/Kg	☼	84	70 - 114	10	30
Benzo[a]anthracene	0.023	J	1.47	1.23		mg/Kg	☼	82	67 - 122	7	30
Benzo[a]pyrene	0.028	J	1.47	1.22		mg/Kg	☼	81	65 - 133	7	30
Benzo[b]fluoranthene	0.021	J	1.47	1.41		mg/Kg	☼	95	69 - 129	9	30

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185937-1

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

Lab Sample ID: 500-185937-1 MSD

Matrix: Solid

Analysis Batch: 557105

Client Sample ID: 2412V2-3-B01 (0-1.1)

Prep Type: Total/NA

Prep Batch: 556949

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier						
Benzo[g,h,i]perylene	0.024	J	1.47	1.11		mg/Kg	☼	74	72 - 131	11	30
Benzo[k]fluoranthene	0.039		1.47	1.28		mg/Kg	☼	85	68 - 127	2	30
Bis(2-chloroethoxy)methane	<0.038		1.47	0.920		mg/Kg	☼	63	60 - 112	10	30
Bis(2-chloroethyl)ether	<0.055		1.47	1.00		mg/Kg	☼	68	55 - 111	11	30
Bis(2-ethylhexyl) phthalate	<0.067		1.47	1.22		mg/Kg	☼	83	72 - 131	8	30
4-Bromophenyl phenyl ether	<0.048		1.47	1.32		mg/Kg	☼	90	68 - 118	6	30
Butyl benzyl phthalate	<0.070		1.47	1.05		mg/Kg	☼	72	71 - 129	7	30
Carbazole	<0.092		1.47	1.25		mg/Kg	☼	85	65 - 142	6	30
4-Chloroaniline	<0.17		1.47	0.815		mg/Kg	☼	56	30 - 150	5	30
4-Chloro-3-methylphenol	<0.13		1.47	1.08		mg/Kg	☼	74	65 - 122	7	30
2-Chloronaphthalene	<0.041		1.47	1.20		mg/Kg	☼	82	69 - 114	10	30
2-Chlorophenol	<0.063		1.47	1.20		mg/Kg	☼	82	64 - 110	7	30
4-Chlorophenyl phenyl ether	<0.043		1.47	1.39		mg/Kg	☼	95	62 - 119	11	30
Chrysene	0.027	J	1.47	1.09		mg/Kg	☼	73	63 - 120	5	30
Dibenz(a,h)anthracene	<0.0071		1.47	1.10		mg/Kg	☼	75	64 - 131	12	30
Dibenzofuran	<0.043		1.47	1.30		mg/Kg	☼	88	66 - 115	11	30
1,2-Dichlorobenzene	<0.044		1.47	1.11		mg/Kg	☼	76	62 - 110	8	30
1,3-Dichlorobenzene	<0.041		1.47	1.06		mg/Kg	☼	72	60 - 110	5	30
1,4-Dichlorobenzene	<0.047		1.47	1.06		mg/Kg	☼	72	61 - 110	6	30
3,3'-Dichlorobenzidine	<0.051	F1 F2	1.47	0.264	F1 F2	mg/Kg	☼	18	35 - 128	38	30
2,4-Dichlorophenol	<0.087		1.47	1.27		mg/Kg	☼	87	58 - 120	10	30
Diethyl phthalate	<0.062		1.47	1.55		mg/Kg	☼	105	58 - 120	12	30
2,4-Dimethylphenol	<0.14		1.47	1.04		mg/Kg	☼	71	60 - 110	10	30
Dimethyl phthalate	<0.048		1.47	1.31		mg/Kg	☼	89	69 - 116	11	30
Di-n-butyl phthalate	<0.056		1.47	1.34		mg/Kg	☼	91	65 - 120	7	30
4,6-Dinitro-2-methylphenol	<0.30		2.94	1.74		mg/Kg	☼	59	10 - 110	27	30
2,4-Dinitrophenol	<0.65		2.94	1.86		mg/Kg	☼	63	10 - 100	26	30
2,4-Dinitrotoluene	<0.058		1.47	1.25		mg/Kg	☼	85	69 - 124	14	30
2,6-Dinitrotoluene	<0.072		1.47	1.37		mg/Kg	☼	93	70 - 123	8	30
Di-n-octyl phthalate	<0.060		1.47	1.29		mg/Kg	☼	88	68 - 134	7	30
Fluoranthene	0.053		1.47	1.51		mg/Kg	☼	100	62 - 120	10	30
Fluorene	<0.0052		1.47	1.37		mg/Kg	☼	93	62 - 120	12	30
Hexachlorobenzene	<0.0085		1.47	1.61		mg/Kg	☼	110	63 - 124	5	30
Hexachlorobutadiene	<0.058		1.47	1.47		mg/Kg	☼	100	56 - 120	9	30
Hexachlorocyclopentadiene	<0.21	F2	1.47	1.03	F2	mg/Kg	☼	70	10 - 133	31	30
Hexachloroethane	<0.056		1.47	0.960		mg/Kg	☼	65	60 - 114	12	30
Indeno[1,2,3-cd]pyrene	0.021	J	1.47	1.10		mg/Kg	☼	73	68 - 130	13	30
Isophorone	<0.041		1.47	1.00		mg/Kg	☼	68	55 - 110	9	30
2-Methylnaphthalene	<0.0068		1.47	1.33		mg/Kg	☼	91	69 - 112	11	30
2-Methylphenol	<0.059		1.47	1.06		mg/Kg	☼	72	60 - 120	2	30
3 & 4 Methylphenol	<0.061		1.47	1.00		mg/Kg	☼	68	57 - 120	2	30
Naphthalene	<0.0057		1.47	1.21		mg/Kg	☼	82	63 - 110	7	30
2-Nitroaniline	<0.049		1.47	0.974		mg/Kg	☼	66	57 - 124	8	30
3-Nitroaniline	<0.11		1.47	0.850		mg/Kg	☼	58	40 - 122	4	30
4-Nitroaniline	<0.15	F1	1.47	0.815	F1	mg/Kg	☼	55	60 - 160	16	30
Nitrobenzene	<0.0092		1.47	1.02		mg/Kg	☼	69	60 - 116	7	30
2-Nitrophenol	<0.087		1.47	1.15		mg/Kg	☼	78	60 - 120	7	30
4-Nitrophenol	<0.35		2.94	3.17		mg/Kg	☼	108	30 - 122	10	30
N-Nitrosodi-n-propylamine	<0.045		1.47	0.934		mg/Kg	☼	64	56 - 118	12	30

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185937-1

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

Lab Sample ID: 500-185937-1 MSD

Matrix: Solid

Analysis Batch: 557105

Client Sample ID: 2412V2-3-B01 (0-1.1)

Prep Type: Total/NA

Prep Batch: 556949

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
N-Nitrosodiphenylamine	<0.043		1.47	1.07		mg/Kg	☼	73	65 - 112	8	30
2,2'-oxybis[1-chloropropane]	<0.043		1.47	1.24		mg/Kg	☼	84	40 - 124	12	30
Pentachlorophenol	<0.59		2.94	1.56		mg/Kg	☼	53	13 - 112	23	30
Phenanthrene	0.018	J	1.47	1.29		mg/Kg	☼	87	62 - 120	11	30
Phenol	<0.082		1.47	0.932		mg/Kg	☼	63	56 - 122	9	30
Pyrene	0.036	J	1.47	1.13		mg/Kg	☼	75	61 - 128	7	30
1,2,4-Trichlorobenzene	<0.040		1.47	1.32		mg/Kg	☼	90	66 - 117	9	30
2,4,5-Trichlorophenol	<0.084		1.47	1.30		mg/Kg	☼	89	50 - 120	7	30
2,4,6-Trichlorophenol	<0.13		1.47	1.25		mg/Kg	☼	85	57 - 120	8	30

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
2-Fluorobiphenyl	95		43 - 145
2-Fluorophenol	83		31 - 166
Nitrobenzene-d5	76		37 - 147
Phenol-d5	70		30 - 153
Terphenyl-d14	88		42 - 157
2,4,6-Tribromophenol	113		31 - 143

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-556180/1-A

Matrix: Solid

Analysis Batch: 556360

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 556180

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.39		2.0	0.39	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Arsenic	<0.34		1.0	0.34	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Barium	<0.11		1.0	0.11	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Beryllium	<0.093		0.40	0.093	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Cadmium	0.0441	J	0.20	0.036	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Chromium	<0.50		1.0	0.50	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Cobalt	<0.13		0.50	0.13	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Copper	<0.28		1.0	0.28	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Iron	<10		20	10	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Lead	<0.23		0.50	0.23	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Magnesium	<5.0		10	5.0	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Calcium	<3.4		20	3.4	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Manganese	<0.15		1.0	0.15	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Nickel	<0.29		1.0	0.29	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Selenium	<0.59		1.0	0.59	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Silver	<0.13		0.50	0.13	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Thallium	<0.50		1.0	0.50	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Vanadium	<0.12		0.50	0.12	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Zinc	<0.88		2.0	0.88	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Potassium	<18		50	18	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Sodium	<15		100	15	mg/Kg		08/11/20 07:05	08/12/20 00:26	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185937-1

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

Lab Sample ID: LCS 500-556180/2-A
Matrix: Solid
Analysis Batch: 556360

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556180
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	50.0	44.0		mg/Kg		88	80 - 120
Arsenic	10.0	9.48		mg/Kg		95	80 - 120
Barium	200	192		mg/Kg		96	80 - 120
Beryllium	5.00	4.72		mg/Kg		94	80 - 120
Cadmium	5.00	4.85		mg/Kg		97	80 - 120
Chromium	20.0	19.5		mg/Kg		98	80 - 120
Cobalt	50.0	49.4		mg/Kg		99	80 - 120
Copper	25.0	24.0		mg/Kg		96	80 - 120
Iron	100	108		mg/Kg		108	80 - 120
Lead	10.0	9.76		mg/Kg		98	80 - 120
Magnesium	1000	921		mg/Kg		92	80 - 120
Calcium	1000	949		mg/Kg		95	80 - 120
Manganese	50.0	46.6		mg/Kg		93	80 - 120
Nickel	50.0	49.1		mg/Kg		98	80 - 120
Selenium	10.0	8.64		mg/Kg		86	80 - 120
Silver	5.00	4.67		mg/Kg		93	80 - 120
Thallium	10.0	10.1		mg/Kg		101	80 - 120
Vanadium	50.0	48.6		mg/Kg		97	80 - 120
Zinc	50.0	47.4		mg/Kg		95	80 - 120
Potassium	1000	974		mg/Kg		97	80 - 120
Sodium	1000	982		mg/Kg		98	80 - 120

Lab Sample ID: 500-185937-1 MS
Matrix: Solid
Analysis Batch: 556360

Client Sample ID: 2412V2-3-B01 (0-1.1)
Prep Type: Total/NA
Prep Batch: 556180
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	<0.21	F1	25.8	4.39	F1	mg/Kg	☼	17	75 - 125
Arsenic	4.1		5.17	8.80		mg/Kg	☼	91	75 - 125
Barium	55		103	159		mg/Kg	☼	101	75 - 125
Beryllium	0.46		2.58	2.72		mg/Kg	☼	88	75 - 125
Cadmium	0.15	B	2.58	2.24		mg/Kg	☼	81	75 - 125
Chromium	13		10.3	23.2		mg/Kg	☼	100	75 - 125
Cobalt	6.4		25.8	33.7		mg/Kg	☼	106	75 - 125
Copper	9.1		12.9	21.7		mg/Kg	☼	97	75 - 125
Iron	10000		51.7	12500	4	mg/Kg	☼	4532	75 - 125
Lead	16	F1	5.17	24.5	F1	mg/Kg	☼	165	75 - 125
Magnesium	16000		517	5390	4	mg/Kg	☼	-2019	75 - 125
Calcium	24000		517	7590	4	mg/Kg	☼	-3270	75 - 125
Manganese	370		25.8	474	4	mg/Kg	☼	402	75 - 125
Nickel	13		25.8	41.4		mg/Kg	☼	109	75 - 125
Selenium	<0.31		5.17	4.23		mg/Kg	☼	82	75 - 125
Silver	<0.068	F1	2.58	1.89	F1	mg/Kg	☼	73	75 - 125
Thallium	0.29	J	5.17	5.60		mg/Kg	☼	103	75 - 125
Vanadium	18		25.8	44.8		mg/Kg	☼	102	75 - 125
Zinc	44	F1	25.8	80.6	F1	mg/Kg	☼	141	75 - 125
Potassium	1000	F1	517	2000	F1	mg/Kg	☼	188	75 - 125
Sodium	840		517	1360		mg/Kg	☼	101	75 - 125

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185937-1

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

Lab Sample ID: 500-185937-1 MSD

Matrix: Solid

Analysis Batch: 556360

Client Sample ID: 2412V2-3-B01 (0-1.1)

Prep Type: Total/NA

Prep Batch: 556180

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Antimony	<0.21	F1	25.3	4.05	F1	mg/Kg	☼	16	75 - 125	8	20
Arsenic	4.1		5.06	8.29		mg/Kg	☼	83	75 - 125	6	20
Barium	55		101	157		mg/Kg	☼	101	75 - 125	1	20
Beryllium	0.46		2.53	2.51		mg/Kg	☼	81	75 - 125	8	20
Cadmium	0.15	B	2.53	2.20		mg/Kg	☼	81	75 - 125	2	20
Chromium	13		10.1	21.7		mg/Kg	☼	88	75 - 125	6	20
Cobalt	6.4		25.3	32.5		mg/Kg	☼	103	75 - 125	4	20
Copper	9.1		12.7	20.9		mg/Kg	☼	93	75 - 125	4	20
Iron	10000		50.6	11300	4	mg/Kg	☼	2128	75 - 125	11	20
Lead	16	F1	5.06	25.5	F1	mg/Kg	☼	188	75 - 125	4	20
Magnesium	16000		506	4870	4	mg/Kg	☼	-2162	75 - 125	10	20
Calcium	24000		506	6520	4	mg/Kg	☼	-3548	75 - 125	15	20
Manganese	370		25.3	534	4	mg/Kg	☼	648	75 - 125	12	20
Nickel	13		25.3	39.3		mg/Kg	☼	102	75 - 125	5	20
Selenium	<0.31		5.06	4.05		mg/Kg	☼	80	75 - 125	4	20
Silver	<0.068	F1	2.53	1.78	F1	mg/Kg	☼	70	75 - 125	6	20
Thallium	0.29	J	5.06	5.48		mg/Kg	☼	103	75 - 125	2	20
Vanadium	18		25.3	44.3		mg/Kg	☼	102	75 - 125	1	20
Zinc	44	F1	25.3	81.5	F1	mg/Kg	☼	147	75 - 125	1	20
Potassium	1000	F1	506	1870	F1	mg/Kg	☼	166	75 - 125	7	20
Sodium	840		506	1330		mg/Kg	☼	95	75 - 125	3	20

Lab Sample ID: 500-185937-1 DU

Matrix: Solid

Analysis Batch: 556360

Client Sample ID: 2412V2-3-B01 (0-1.1)

Prep Type: Total/NA

Prep Batch: 556180

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier		Result				
Antimony	<0.21	F1	0.385	J	mg/Kg	☼	NC	20
Arsenic	4.1		4.35		mg/Kg	☼	6	20
Barium	55		71.1	F3	mg/Kg	☼	25	20
Beryllium	0.46		0.464		mg/Kg	☼	0.9	20
Cadmium	0.15	B	0.153		mg/Kg	☼	1	20
Chromium	13		11.3		mg/Kg	☼	13	20
Cobalt	6.4		7.96	F3	mg/Kg	☼	21	20
Copper	9.1		9.94		mg/Kg	☼	9	20
Iron	10000		10700		mg/Kg	☼	4	20
Lead	16	F1	19.2		mg/Kg	☼	19	20
Magnesium	16000		5060	F3	mg/Kg	☼	103	20
Calcium	24000		8180	F3	mg/Kg	☼	100	20
Manganese	370		547	F3	mg/Kg	☼	38	20
Nickel	13		13.7		mg/Kg	☼	3	20
Selenium	<0.31		0.395	J	mg/Kg	☼	NC	20
Silver	<0.068	F1	<0.067		mg/Kg	☼	NC	20
Thallium	0.29	J	0.510	J F5	mg/Kg	☼	54	20
Vanadium	18		18.6		mg/Kg	☼	0.9	20
Zinc	44	F1	50.2		mg/Kg	☼	13	20
Potassium	1000	F1	1010		mg/Kg	☼	1	20
Sodium	840		889		mg/Kg	☼	5	20

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185937-1

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

Lab Sample ID: LCS 500-557242/2-A
Matrix: Solid
Analysis Batch: 557308

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 557242
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Manganese	0.500	0.447		mg/L		89	80 - 120

Lab Sample ID: LCS 500-557245/2-A
Matrix: Solid
Analysis Batch: 557303

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 557245
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.100	0.109		mg/L		109	80 - 120
Barium	0.500	0.496	J	mg/L		99	80 - 120
Beryllium	0.0500	0.0498		mg/L		100	80 - 120
Cadmium	0.0500	0.0511		mg/L		102	80 - 120
Chromium	0.200	0.198		mg/L		99	80 - 120
Cobalt	0.500	0.522		mg/L		104	80 - 120
Copper	0.250	0.259		mg/L		103	80 - 120
Iron	1.00	1.02		mg/L		102	80 - 120
Lead	0.100	0.0961		mg/L		96	80 - 120
Magnesium	10.0	9.26		mg/L		93	80 - 120
Calcium	10.0	9.87		mg/L		99	80 - 120
Manganese	0.500	0.482		mg/L		96	80 - 120
Nickel	0.500	0.517		mg/L		103	80 - 120
Selenium	0.100	0.106		mg/L		106	80 - 120
Silver	0.0500	0.0512		mg/L		102	80 - 120
Vanadium	0.500	0.516		mg/L		103	80 - 120
Zinc	0.500	0.568		mg/L		114	80 - 120
Potassium	10.0	10.4		mg/L		104	80 - 120

Lab Sample ID: LB 500-556919/1-B
Matrix: Solid
Analysis Batch: 557303

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 557245

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/17/20 17:21	08/18/20 01:05	1
Barium	<0.050		0.50	0.050	mg/L		08/17/20 17:21	08/18/20 01:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/17/20 17:21	08/18/20 01:05	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/17/20 17:21	08/18/20 01:05	1
Chromium	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:05	1
Cobalt	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:05	1
Copper	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:05	1
Iron	<0.20		0.40	0.20	mg/L		08/17/20 17:21	08/18/20 01:05	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/17/20 17:21	08/18/20 01:05	1
Magnesium	<0.50		2.5	0.50	mg/L		08/17/20 17:21	08/18/20 01:05	1
Calcium	<0.50		5.0	0.50	mg/L		08/17/20 17:21	08/18/20 01:05	1
Manganese	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:05	1
Nickel	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:05	1
Selenium	<0.020		0.050	0.020	mg/L		08/17/20 17:21	08/18/20 01:05	1
Silver	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:05	1
Vanadium	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:05	1
Zinc	<0.020		0.50	0.020	mg/L		08/17/20 17:21	08/18/20 01:05	1
Potassium	<0.50		2.5	0.50	mg/L		08/17/20 17:21	08/18/20 01:05	1

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185937-1

Method: 6010B - Metals (ICP)

Lab Sample ID: LB 500-556907/1-B
 Matrix: Solid
 Analysis Batch: 557308

Client Sample ID: Method Blank
 Prep Type: SPLP East
 Prep Batch: 557242

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.010		0.025	0.010	mg/L		08/17/20 17:17	08/18/20 03:14	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-557245/2-A
 Matrix: Solid
 Analysis Batch: 557398

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 557245
 %Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.573	^	mg/L		115	80 - 120
Thallium	0.100	0.120	^	mg/L		120	80 - 120

Lab Sample ID: LB 500-556919/1-B
 Matrix: Solid
 Analysis Batch: 557398

Client Sample ID: Method Blank
 Prep Type: TCLP
 Prep Batch: 557245

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		08/17/20 17:21	08/18/20 09:20	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		08/17/20 17:21	08/18/20 09:20	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-557385/12-A
 Matrix: Solid
 Analysis Batch: 557609

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 557385

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/18/20 09:55	08/19/20 09:02	1

Lab Sample ID: LCS 500-557385/14-A
 Matrix: Solid
 Analysis Batch: 557609

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 557385
 %Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00198		mg/L		99	80 - 120

Lab Sample ID: LB 500-556919/1-C
 Matrix: Solid
 Analysis Batch: 557609

Client Sample ID: Method Blank
 Prep Type: TCLP
 Prep Batch: 557385

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/18/20 09:55	08/19/20 09:04	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-556263/12-A
 Matrix: Solid
 Analysis Batch: 556451

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 556263

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		08/11/20 14:25	08/12/20 07:11	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185937-1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: LCS 500-556263/13-A
Matrix: Solid
Analysis Batch: 556451

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556263
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.170		mg/Kg		102	80 - 120

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 500-556845/1-A
Matrix: Solid
Analysis Batch: 557233

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 556845

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.12		0.24	0.12	mg/Kg		08/14/20 13:10	08/17/20 09:49	1

Lab Sample ID: HLCS 500-556845/2-A
Matrix: Solid
Analysis Batch: 557233

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556845
%Rec.

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	12.0	11.9		mg/Kg		99	90 - 110

Lab Sample ID: LCS 500-556845/3-A
Matrix: Solid
Analysis Batch: 557233

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556845
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	2.40	2.49		mg/Kg		104	85 - 115

Lab Sample ID: LLCS 500-556845/4-A
Matrix: Solid
Analysis Batch: 557233

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556845
%Rec.

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	1.20	1.18		mg/Kg		98	75 - 125

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185937-1

Client Sample ID: 2412V2-3-B01 (0-1.1)

Lab Sample ID: 500-185937-1

Date Collected: 08/04/20 13:15

Matrix: Solid

Date Received: 08/04/20 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			556907	08/14/20 12:25	JLC	TAL CHI
SPLP East	Prep	3010A			557242	08/17/20 17:17	BDE	TAL CHI
SPLP East	Analysis	6010B		1	557308	08/18/20 03:22	JEF	TAL CHI
TCLP	Leach	1311			556919	08/14/20 14:05	JLC	TAL CHI
TCLP	Prep	3010A			557245	08/17/20 17:21	BDE	TAL CHI
TCLP	Analysis	6010B		1	557303	08/18/20 01:14	EEN	TAL CHI
TCLP	Leach	1311			556919	08/14/20 14:05	JLC	TAL CHI
TCLP	Prep	3010A			557245	08/17/20 17:21	BDE	TAL CHI
TCLP	Analysis	6020A		1	557398	08/18/20 09:25	FXG	TAL CHI
TCLP	Leach	1311			556919	08/14/20 14:05	JLC	TAL CHI
TCLP	Prep	7470A			557385	08/18/20 09:55	MJG	TAL CHI
TCLP	Analysis	7470A		1	557609	08/19/20 09:13	MJG	TAL CHI
Total/NA	Analysis	9045D		1	555814	08/06/20 20:40	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	555682	08/06/20 12:25	LWN	TAL CHI

Client Sample ID: 2412V2-3-B01 (0-1.1)

Lab Sample ID: 500-185937-1

Date Collected: 08/04/20 13:15

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 90.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			556283	08/05/20 08:30	PMF	TAL CHI
Total/NA	Analysis	8260B		1	556207	08/11/20 18:14	EMA	TAL CHI
Total/NA	Prep	3541			556949	08/14/20 17:27	ACK	TAL CHI
Total/NA	Analysis	8270D		1	557105	08/17/20 10:14	AJD	TAL CHI
Total/NA	Prep	3050B			556180	08/11/20 07:05	LMN	TAL CHI
Total/NA	Analysis	6010B		1	556360	08/12/20 00:34	JEF	TAL CHI
Total/NA	Prep	7471B			556263	08/11/20 14:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	556451	08/12/20 07:32	MJG	TAL CHI
Total/NA	Prep	9010C			556845	08/14/20 13:10	MS	TAL CHI
Total/NA	Analysis	9012B		1	557233	08/17/20 10:09	MS	TAL CHI

Client Sample ID: 2412V2-3-B02 (0-1.1)

Lab Sample ID: 500-185937-2

Date Collected: 08/04/20 13:30

Matrix: Solid

Date Received: 08/04/20 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			556907	08/14/20 12:25	JLC	TAL CHI
SPLP East	Prep	3010A			557242	08/17/20 17:17	BDE	TAL CHI
SPLP East	Analysis	6010B		1	557308	08/18/20 03:26	JEF	TAL CHI
TCLP	Leach	1311			556919	08/14/20 14:05	JLC	TAL CHI
TCLP	Prep	3010A			557245	08/17/20 17:21	BDE	TAL CHI
TCLP	Analysis	6010B		1	557303	08/18/20 01:26	EEN	TAL CHI
TCLP	Leach	1311			556919	08/14/20 14:05	JLC	TAL CHI
TCLP	Prep	3010A			557245	08/17/20 17:21	BDE	TAL CHI
TCLP	Analysis	6020A		1	557398	08/18/20 09:27	FXG	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185937-1

Client Sample ID: 2412V2-3-B02 (0-1.1)

Lab Sample ID: 500-185937-2

Date Collected: 08/04/20 13:30

Matrix: Solid

Date Received: 08/04/20 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			556919	08/14/20 14:05	JLC	TAL CHI
TCLP	Prep	7470A			557385	08/18/20 09:55	MJG	TAL CHI
TCLP	Analysis	7470A		1	557609	08/19/20 09:15	MJG	TAL CHI
Total/NA	Analysis	9045D		1	555814	08/06/20 20:43	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	555682	08/06/20 12:25	LWN	TAL CHI

Client Sample ID: 2412V2-3-B02 (0-1.1)

Lab Sample ID: 500-185937-2

Date Collected: 08/04/20 13:30

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 91.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			556283	08/05/20 08:30	PMF	TAL CHI
Total/NA	Analysis	8260B		1	556207	08/11/20 18:39	EMA	TAL CHI
Total/NA	Prep	3541			556949	08/14/20 17:27	ACK	TAL CHI
Total/NA	Analysis	8270D		1	557105	08/17/20 10:41	AJD	TAL CHI
Total/NA	Prep	3050B			556180	08/11/20 07:05	LMN	TAL CHI
Total/NA	Analysis	6010B		1	556360	08/12/20 01:02	JEF	TAL CHI
Total/NA	Prep	7471B			556263	08/11/20 14:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	556451	08/12/20 07:33	MJG	TAL CHI
Total/NA	Prep	9010C			556845	08/14/20 13:10	MS	TAL CHI
Total/NA	Analysis	9012B		1	557233	08/17/20 10:10	MS	TAL CHI

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185937-1

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-21

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 6041
Phone: 708.534.5200 Fax: 708.534.5



500-185937 COC

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

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

Chain of Custody Record

Lab Job #: 500-185937

Chain of Custody Number: _____

Page 1 of 1

Temperature °C of Cooler: 5.8, 4.3, 5.9, 4.4

Client		Client Project #		Preservative		Parameter		Preservative Key										
<u>Terracon</u>		<u>11207611P</u>						<ol style="list-style-type: none"> 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 										
Project Name		Lab Project #		Sampling		Matrix		Comments										
<u>11207611P</u>																		
Project Location/State		Lab PM		Date		Time												
<u>Hampshire, IL</u>																		
Sampler				# of Containers		Matrix												
<u>D.G. Pt</u>																		
1		<u>2412V2-3-B01 (0-1.1)</u>	<u>8/4/20</u>	<u>1315</u>	<u>6</u>	<u>SO</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		
2		<u>2412V2-3-B02 (0-1.1)</u>	<u>8/4/20</u>	<u>1330</u>	<u>6</u>	<u>SO</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		

Turnaround Time Required (Business Days)

1 Day 2 Days 5 Days 7 Days 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>J. Neel</u> Company: <u>Terracon</u> Date: <u>8/4/20</u> Time: <u>1600</u>	Received By <u>P. Neel</u> Company: <u>TA</u> Date: <u>8/4/20</u> Time: <u>1600</u>
Relinquished By <u>P. Neel</u> Company: <u>TA</u> Date: <u>8/4/20</u> Time: <u>1740</u>	Received By <u>Shirley Scott</u> Company: <u>TA-Off</u> Date: <u>8/5/20</u> Time: <u>0730</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: * STANDARD TURN
* NO ALUMINUM
* HAD SLP 23 INORGANICS PER TERRACON INSTRUCTION

Lab Comments:

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-185937-1

Login Number: 185937

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.8,4.3,5.9,4.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 557-IL Route 72 at State Street/Getzelman Rd Office Phone Number, if available: _____

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

IL Route 72 (Eastbound) IDOT STA 493+60 to 497+20 (ISGS Site 2412V2-4)

City: Hampshire State: IL Zip Code: 60140

County: Kane Township: Hampshire

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

Latitude: 42.08832 Longitude: - 88.53013

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

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

Estimated Volume of debris (cu. Yd.): 400

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

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

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

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

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

Soil from borings B01, B02, B03, and B04 were sampled adjacent to ISGS Site No 2412V2-4. See Exhibit 2 and Table 3 of the Preliminary Site Investigation Report prepared by Terracon.

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

TestAmerica Lab Report No J185870-1.

Also see Preliminary Site Investigation Report prepared by Terracon. CCDD/USFO facility in MSA County.

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

I, Matt Weiss (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51 a] 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

Printed Name: _____

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Date:

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

Comparison of Detected Constituents to MACs-PTB 174-009;Work Order:074A
Preliminary Site Investigation
FAP 557-IL Route 72 at State St./Getzelman Road (PESA #2412V2-4)
Hampshire, Kane Co, IL
Terracon Project No. 11207011P
Page 1 of 10

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2412V2-4-B01 (0-5)	2412V2-4-B01 (5-7.5)
				CCDD	Sample Depth (feet)	(0-5)	(5-7.5)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	8/3/2020	8/3/2020
Volatile Organic Analytical Parameters							
Acetone	mg/kg	---	---	25		<0.0067	<0.0064
2-Butanone	mg/kg	---	---	17		<0.0017	<0.0016
Semivolatile Organic Analytical Parameters							
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		<0.0048	<0.0048
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		<0.0069	<0.0069
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		<0.0077	<0.0076
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		<0.011	<0.011
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		<0.010	<0.010
Chrysene	mg/kg	1.2	2.7	88		<0.0097	<0.0097
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		<0.0069	<0.0068
Fluoranthene	mg/kg	2.7	4.1	3100		<0.0066	<0.0066
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		<0.0092	<0.0092
Phenanthrene	mg/kg	1.3	2.5	210		<0.0050	<0.0049
Pyrene	mg/kg	1.9	3.0	2300		<0.0071	<0.0070
Inorganic Analytical Parameters							
Arsenic	mg/kg	---	13	11.3		4.4	3.5
Barium	mg/kg	---	110	1500		27	29
Cadmium	mg/kg	---	0.6	5.2		0.092	0.1
Chromium, total	mg/kg	---	16.2	21		9.4	10
Lead	mg/kg	---	36	107		6.7	6.1
Mercury	mg/kg	---	0.06	0.89		0.0081	0.014
Selenium	mg/kg	---	0.48	1.3		<0.31	<0.30
Silver	mg/kg	---	0.55	4.4		<0.068	<0.066
Antimony	mg/kg	---	4.0	5		0.45	0.38
Beryllium	mg/kg	---	0.59	22		0.43	0.48
Calcium	mg/kg	---	9,300	---		72000	90000
Cobalt	mg/kg	---	8.9	20		6.7	5.4
Copper	mg/kg	---	19.6	2900		9.7	9.6
Cyanide	mg/kg	---	0.51	---		<0.16	<0.14
Iron	mg/kg	---	15,900	15000		11000	14000
Magnesium	mg/kg	---	4,820	325000		30000	41000
Manganese	mg/kg	---	636	630		230	230
Nickel	mg/kg	---	18	100		13	14
Potassium	mg/kg	---	1,268	---		1200	1400
Sodium	mg/kg	---	130	---		1200	1100
Thallium	mg/kg	---	0.32	2.6		0.29	<0.25
Vanadium	mg/kg	---	25.2	550		14	14
Zinc	mg/kg	---	95	5100		28	29
pH			6.25	9		9	8.9

Preliminary Site Investigation

FAP 557-IL Route 72 at State St./Getzelman Road (PESA #2412V2-4)

Hampshire, Kane Co, IL

Terracon Project No. 11207011P

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2412V2-4-B01 (0-5)	2412V2-4-B01 (5-7.5)
				CCDD	Sample Depth (feet)	(0-5)	(5-7.5)
		mg/kg	Date Collected	8/3/2020	8/3/2020		
		pH 6.25-9.0					
Inorganic Analytical Parameters (SPLP)							
Antimony,SPLP	mg/L	---	---	---		--	--
Arsenic,SPLP	mg/L	---	---	---		--	--
Barium,SPLP	mg/L	---	---	---		--	--
Beryllium,SPLP	mg/L	---	---	---		--	--
Cadmium,SPLP	mg/L	---	---	---		--	--
Calcium,SPLP	mg/L	---	---	---		--	--
Chromium,SPLP	mg/L	---	---	---		--	--
Cobalt,SPLP	mg/L	---	---	---		--	--
Copper,SPLP	mg/L	---	---	---		--	--
Iron,SPLP	mg/L	---	---	---		--	--
Lead,SPLP	mg/L	---	---	---		--	0.06
Magnesium,SPLP	mg/L	---	---	---		--	--
Manganese,SPLP	mg/L	---	---	---		1.2	0.77
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	---	---	---		0.38	0.29
Cadmium,TCLP	mg/L	---	---	---		<0.0020	0.0022
Chromium,TCLP	mg/L	---	---	---		<0.010	<0.010
Lead,TCLP	mg/L	---	---	---		<0.0075	0.0091
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	---	---	---		600	1300
Cobalt,TCLP	mg/L	---	---	---		<0.010	0.019
Copper,TCLP	mg/L	---	---	---		<0.010	<0.010
Cyanide,TCLP	mg/L	---	---	---		--	--
Iron,TCLP	mg/L	---	---	---		<0.20	<0.20
Magnesium,TCLP	mg/L	---	---	---		77	220
Manganese,TCLP	mg/L	---	---	---		0.89	2.9
Nickel,TCLP	mg/L	---	---	---		<0.010	0.031
Potassium,TCLP	mg/L	---	---	---		0.82	1.5
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	<0.020

Comparison of Detected Constituents to MACs-PTB 174-009;Work Order:074A

Preliminary Site Investigation

FAP 557-IL Route 72 at State St./Getzelman Road (PESA #2412V2-4)

Hampshire, Kane Co, IL

Terracon Project No. 11207011P

Page 3 of 10

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2412V2-4-B02 (0-5)	2412V2-4-B02 (5-7.5)
				CCDD	Sample Depth (feet)	(0-5)	(5-7.5)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	8/3/2020	8/3/2020
Volatile Organic Analytical Parameters							
Acetone	mg/kg	---	---	25		0.034	<0.0060
2-Butanone	mg/kg	---	---	17		0.0084	<0.0015
Semivolatile Organic Analytical Parameters							
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		<0.0052	<0.0048
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		<0.0075	<0.0069
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		<0.0083	<0.0076
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		<0.012	<0.011
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		<0.011	<0.010
Chrysene	mg/kg	1.2	2.7	88		<0.010	<0.0097
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		<0.0074	<0.0068
Fluoranthene	mg/kg	2.7	4.1	3100		<0.0071	0.0076
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		<0.010	<0.0092
Phenanthrene	mg/kg	1.3	2.5	210		<0.0054	<0.0049
Pyrene	mg/kg	1.9	3.0	2300		<0.0076	0.0074
Inorganic Analytical Parameters							
Arsenic	mg/kg	---	13	11.3		7	4.7
Barium	mg/kg	---	110	1500		52	26
Cadmium	mg/kg	---	0.6	5.2		0.085	0.11
Chromium, total	mg/kg	---	16.2	21		15	9.9
Lead	mg/kg	---	36	107		14	7.5
Mercury	mg/kg	---	0.06	0.89		0.042	0.0058
Selenium	mg/kg	---	0.48	1.3		<0.33	<0.32
Silver	mg/kg	---	0.55	4.4		<0.073	<0.070
Antimony	mg/kg	---	4.0	5		0.56	0.54
Beryllium	mg/kg	---	0.59	22		0.72	0.45
Calcium	mg/kg	---	9,300	---		14000	77000
Cobalt	mg/kg	---	8.9	20		9	5.6
Copper	mg/kg	---	19.6	2900		15	12
Cyanide	mg/kg	---	0.51	---		<0.14	<0.13
Iron	mg/kg	---	15,900	15000		17000	12000
Magnesium	mg/kg	---	4,820	325000		7600	30000
Manganese	mg/kg	---	636	630		300	260
Nickel	mg/kg	---	18	100		29	14
Potassium	mg/kg	---	1,268	---		1300	1400
Sodium	mg/kg	---	130	---		1500	690
Thallium	mg/kg	---	0.32	2.6		<0.28	<0.27
Vanadium	mg/kg	---	25.2	550		23	14
Zinc	mg/kg	---	95	5100		58	43
pH			6.25	9		8.6	9

Preliminary Site Investigation

FAP 557-IL Route 72 at State St./Getzelman Road (PESA #2412V2-4)

Hampshire, Kane Co, IL

Terracon Project No. 11207011P

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2412V2-4-B02 (0-5)	2412V2-4-B02 (5-7.5)
				CCDD	Sample Depth (feet)	(0-5)	(5-7.5)
		mg/kg	Date Collected	8/3/2020	8/3/2020		
		pH 6.25-9.0					
Inorganic Analytical Parameters (SPLP)							
Antimony,SPLP	mg/L	---	---	---		--	--
Arsenic,SPLP	mg/L	---	---	---		--	--
Barium,SPLP	mg/L	---	---	---		--	--
Beryllium,SPLP	mg/L	---	---	---		--	--
Cadmium,SPLP	mg/L	---	---	---		--	--
Calcium,SPLP	mg/L	---	---	---		--	--
Chromium,SPLP	mg/L	---	---	---		--	--
Cobalt,SPLP	mg/L	---	---	---		--	--
Copper,SPLP	mg/L	---	---	---		--	--
Iron,SPLP	mg/L	---	---	---		--	--
Lead,SPLP	mg/L	---	---	---		--	0.043
Magnesium,SPLP	mg/L	---	---	---		--	--
Manganese,SPLP	mg/L	---	---	---		1.3	0.53
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	---	---	---		0.41	0.29
Cadmium,TCLP	mg/L	---	---	---		<0.0020	<0.0020
Chromium,TCLP	mg/L	---	---	---		<0.010	<0.010
Lead,TCLP	mg/L	---	---	---		<0.0075	0.0088
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	---	---	---		430	830
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	63
Manganese,TCLP	mg/L	---	---	---		1.2	1.2
Nickel,TCLP	mg/L	---	---	---		0.011	<0.010
Potassium,TCLP	mg/L	---	---	---		0.94	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	---	---	---		<0.020	<0.020

Comparison of Detected Constituents to MACs-PTB 174-009;Work Order:074A

Preliminary Site Investigation

FAP 557-IL Route 72 at State St./Getzelman Road (PESA #2412V2-4)

Hampshire, Kane Co, IL

Terracon Project No. 11207011P

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Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2412V2-4-B03 (0-5)	2412V2-4-B03 (5-7.5)
				CCDD	Sample Depth (feet)	(0-5)	(5-7.5)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	8/3/2020	8/3/2020
Volatile Organic Analytical Parameters							
Acetone	mg/kg	---	---	25		0.0099	<0.0072
2-Butanone	mg/kg	---	---	17		<0.0017	<0.0018
Semivolatile Organic Analytical Parameters							
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.038	<0.0052
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.046	<0.0075
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.059	<0.0084
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.034	<0.013
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.026	<0.011
Chrysene	mg/kg	1.2	2.7	88		0.047	<0.011
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		0.0097	<0.0075
Fluoranthene	mg/kg	2.7	4.1	3100		0.094	<0.0072
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.03	<0.010
Phenanthrene	mg/kg	1.3	2.5	210		0.029	<0.0054
Pyrene	mg/kg	1.9	3.0	2300		0.071	<0.0077
Inorganic Analytical Parameters							
Arsenic	mg/kg	---	13	11.3		6.8	9
Barium	mg/kg	---	110	1500		62	60
Cadmium	mg/kg	---	0.6	5.2		0.085	0.079
Chromium, total	mg/kg	---	16.2	21		15	12
Lead	mg/kg	---	36	107		18	14
Mercury	mg/kg	---	0.06	0.89		0.029	0.018
Selenium	mg/kg	---	0.48	1.3		0.34	<0.35
Silver	mg/kg	---	0.55	4.4		<0.073	<0.076
Antimony	mg/kg	---	4.0	5		0.48	0.48
Beryllium	mg/kg	---	0.59	22		0.71	0.6
Calcium	mg/kg	---	9,300	---		3400	11000
Cobalt	mg/kg	---	8.9	20		8.9	9.8
Copper	mg/kg	---	19.6	2900		14	13
Cyanide	mg/kg	---	0.51	---		0.17	<0.13
Iron	mg/kg	---	15,900	15000		17000	15000
Magnesium	mg/kg	---	4,820	325000		3700	7700
Manganese	mg/kg	---	636	630		420	480
Nickel	mg/kg	---	18	100		22	20
Potassium	mg/kg	---	1,268	---		900	790
Sodium	mg/kg	---	130	---		2600	2100
Thallium	mg/kg	---	0.32	2.6		0.47	<0.29
Vanadium	mg/kg	---	25.2	550		26	23
Zinc	mg/kg	---	95	5100		61	50
pH			6.25	9		7.8	8.5

Comparison of Detected Constituents to MACs-PTB 174-009;Work Order:074A
Preliminary Site Investigation
FAP 557-IL Route 72 at State St./Getzelman Road (PESA #2412V2-4)
Hampshire, Kane Co, IL
Terracon Project No. 11207011P
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Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2412V2-4-B03 (0-5)	2412V2-4-B03 (5-7.5)
				CCDD	Sample Depth (feet)	(0-5)	(5-7.5)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	8/3/2020	8/3/2020
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	---	---	---		1.4	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
Barium,TCLP	mg/L	---	---	---		0.51	0.68
Cadmium,TCLP	mg/L	---	---	---		<0.0020	<0.0020
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	---	---	---		200	480
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	---	---	---		98	130
Manganese,TCLP	mg/L	---	---	---		2.1	0.98
Nickel,TCLP	mg/L	---	---	---		0.013	0.01
Potassium,TCLP	mg/L	---	---	---		1.4	0.81
Sodium,TCLP	mg/L	---	---	---		--	--
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.010	<0.010
Zinc,TCLP	mg/L	---	---	---		0.075	<0.020

Comparison of Detected Constituents to MACs-PTB 174-009;Work Order:074A

Preliminary Site Investigation

FAP 557-IL Route 72 at State St./Getzelman Road (PESA #2412V2-4)

Hampshire, Kane Co, IL

Terracon Project No. 11207011P

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Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2412V2-4-B04 (0-5)	2412V2-4-B04 (0-5) Dup
				CCDD	Sample Depth (feet)	(0-5)	(0-5)
		mg/kg	Date Collected	8/3/2020	8/3/2020		
		pH 6.25-9.0					
Volatile Organic Analytical Parameters							
Acetone	mg/kg	---	---	25		<0.0071	<0.0071
2-Butanone	mg/kg	---	---	17		<0.0018	<0.0018
Semivolatile Organic Analytical Parameters							
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.019	0.025
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.023	0.027
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.039	0.045
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		<0.011	0.015
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.012	0.013
Chrysene	mg/kg	1.2	2.7	88		0.023	0.025
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		<0.0067	<0.0067
Fluoranthene	mg/kg	2.7	4.1	3100		0.039	0.054
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.011	0.014
Phenanthrene	mg/kg	1.3	2.5	210		0.013	0.023
Pyrene	mg/kg	1.9	3.0	2300		0.031	0.041
Inorganic Analytical Parameters							
Arsenic	mg/kg	---	13	11.3		5.5	3.7
Barium	mg/kg	---	110	1500		59	61
Cadmium	mg/kg	---	0.6	5.2		0.11	0.15
Chromium, total	mg/kg	---	16.2	21		12	9.4
Lead	mg/kg	---	36	107		15	28
Mercury	mg/kg	---	0.06	0.89		0.018	0.02
Selenium	mg/kg	---	0.48	1.3		<0.31	<0.31
Silver	mg/kg	---	0.55	4.4		<0.068	<0.068
Antimony	mg/kg	---	4.0	5		0.34	0.32
Beryllium	mg/kg	---	0.59	22		0.54	0.46
Calcium	mg/kg	---	9,300	---		20000	25000
Cobalt	mg/kg	---	8.9	20		7.6	5.8
Copper	mg/kg	---	19.6	2900		12	8.8
Cyanide	mg/kg	---	0.51	---		<0.14	0.19
Iron	mg/kg	---	15,900	15000		13000	9600
Magnesium	mg/kg	---	4,820	325000		12000	15000
Manganese	mg/kg	---	636	630		340	450
Nickel	mg/kg	---	18	100		16	12
Potassium	mg/kg	---	1,268	---		1000	940
Sodium	mg/kg	---	130	---		310	210
Thallium	mg/kg	---	0.32	2.6		0.41	0.27
Vanadium	mg/kg	---	25.2	550		21	17
Zinc	mg/kg	---	95	5100		47	45
pH			6.25	9		8.5	8.5

Preliminary Site Investigation

FAP 557-IL Route 72 at State St./Getzelman Road (PESA #2412V2-4)

Hampshire, Kane Co, IL

Terracon Project No. 11207011P

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2412V2-4-B04 (0-5)	2412V2-4-B04 (0-5) Dup
				CCDD	Sample Depth (feet)	(0-5)	(0-5)
		mg/kg	Date Collected	8/3/2020	8/3/2020		
		pH 6.25-9.0					
Inorganic Analytical Parameters (SPLP)							
Antimony,SPLP	mg/L	---	---	---		--	--
Arsenic,SPLP	mg/L	---	---	---		--	--
Barium,SPLP	mg/L	---	---	---		--	--
Beryllium,SPLP	mg/L	---	---	---		--	--
Cadmium,SPLP	mg/L	---	---	---		--	--
Calcium,SPLP	mg/L	---	---	---		--	--
Chromium,SPLP	mg/L	---	---	---		--	--
Cobalt,SPLP	mg/L	---	---	---		--	--
Copper,SPLP	mg/L	---	---	---		--	--
Iron,SPLP	mg/L	---	---	---		--	--
Lead,SPLP	mg/L	---	---	---		--	--
Magnesium,SPLP	mg/L	---	---	---		--	--
Manganese,SPLP	mg/L	---	---	---		0.34	0.34
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	---	---	---		0.5	0.52
Cadmium,TCLP	mg/L	---	---	---		<0.0020	<0.0020
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	---	---	---		430	470
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	---	---	---		140	120
Manganese,TCLP	mg/L	---	---	---		0.64	0.41
Nickel,TCLP	mg/L	---	---	---		<0.010	<0.010
Potassium,TCLP	mg/L	---	---	---		2.1	2.2
Sodium,TCLP	mg/L	---	---	---		--	--
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.010	<0.010
Zinc,TCLP	mg/L	---	---	---		0.03	0.028

Comparison of Detected Constituents to MACs-PTB 174-009;Work Order:074A

Preliminary Site Investigation

FAP 557-IL Route 72 at State St./Getzelman Road (PESA #2412V2-4)

Hampshire, Kane Co, IL

Terracon Project No. 11207011P

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Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2412V2-4-B04 (5-7.5)
				CCDD	Sample Depth (feet)	(5-7.5)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	8/3/2020
Volatile Organic Analytical Parameters						
Acetone	mg/kg	---	---	25		<0.0067
2-Butanone	mg/kg	---	---	17		<0.0017
Semivolatile Organic Analytical Parameters						
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.0053
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		<0.0069
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		<0.0077
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		<0.011
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		<0.010
Chrysene	mg/kg	1.2	2.7	88		<0.0097
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		<0.0069
Fluoranthene	mg/kg	2.7	4.1	3100		0.0081
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		<0.0092
Phenanthrene	mg/kg	1.3	2.5	210		<0.0050
Pyrene	mg/kg	1.9	3.0	2300		<0.0071
Inorganic Analytical Parameters						
Arsenic	mg/kg	---	13	11.3		3.8
Barium	mg/kg	---	110	1500		49
Cadmium	mg/kg	---	0.6	5.2		0.063
Chromium, total	mg/kg	---	16.2	21		13
Lead	mg/kg	---	36	107		9.8
Mercury	mg/kg	---	0.06	0.89		0.019
Selenium	mg/kg	---	0.48	1.3		<0.32
Silver	mg/kg	---	0.55	4.4		<0.070
Antimony	mg/kg	---	4.0	5		<0.21
Beryllium	mg/kg	---	0.59	22		0.55
Calcium	mg/kg	---	9,300	---		2200
Cobalt	mg/kg	---	8.9	20		6.5
Copper	mg/kg	---	19.6	2900		9.3
Cyanide	mg/kg	---	0.51	---		<0.17
Iron	mg/kg	---	15,900	15000		14000
Magnesium	mg/kg	---	4,820	325000		2500
Manganese	mg/kg	---	636	630		260
Nickel	mg/kg	---	18	100		16
Potassium	mg/kg	---	1,268	---		1200
Sodium	mg/kg	---	130	---		270
Thallium	mg/kg	---	0.32	2.6		0.31
Vanadium	mg/kg	---	25.2	550		25
Zinc	mg/kg	---	95	5100		38
pH			6.25	9		8.3

Preliminary Site Investigation

FAP 557-IL Route 72 at State St./Getzelman Road (PESA #2412V2-4)

Hampshire, Kane Co, IL

Terracon Project No. 11207011P

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2412V2-4-B04 (5-7.5)
				CCDD	Sample Depth (feet)	(5-7.5)
		mg/kg	Date Collected	8/3/2020		
		pH 6.25-9.0				
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	---	---	---		1.2
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
Barium,TCLP	mg/L	---	---	---		0.37
Cadmium,TCLP	mg/L	---	---	---		<0.0020
Chromium,TCLP	mg/L	---	---	---		<0.010
Lead,TCLP	mg/L	---	---	---		<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.020
Silver,TCLP	mg/L	---	---	---		<0.010
Antimony,TCLP	mg/L	---	---	---		<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040
Calcium,TCLP	mg/L	---	---	---		57
Cobalt,TCLP	mg/L	---	---	---		<0.010
Copper,TCLP	mg/L	---	---	---		<0.010
Cyanide,TCLP	mg/L	---	---	---		--
Iron,TCLP	mg/L	---	---	---		<0.20
Magnesium,TCLP	mg/L	---	---	---		24
Manganese,TCLP	mg/L	---	---	---		0.19
Nickel,TCLP	mg/L	---	---	---		<0.010
Potassium,TCLP	mg/L	---	---	---		10
Sodium,TCLP	mg/L	---	---	---		--
Thallium,TCLP	mg/L	---	---	---		<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.010
Zinc,TCLP	mg/L	---	---	---		<0.020

ANALYTICAL REPORT

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

Laboratory Job ID: 500-185870-1
Client Project/Site: IDOT - Hampshire - WO 074

For:

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

Attn: Mr. Matthew Weiss



Authorized for release by:
8/17/2020 4:34:17 PM

Richard Wright, Senior Project Manager
(708)746-0045
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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 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 - Hampshire - WO 074

Job ID: 500-185870-1

Job ID: 500-185870-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-185870-1

Receipt

The samples were received on 8/3/2020 6:25 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 5.4° C, 5.7° C and 5.9° C.

GC/MS VOA

Method 8260B: The laboratory control sample (LCS) for 556377 recovered outside control limits for Chloroethane. This poor purging analyte was biased low in the LCS and was not detected in the associated samples; therefore, the data have been reported. 2412V2-4-B01 (0-5) (500-185870-1), 2412V2-4-B01 (5-7.5) (500-185870-2), 2412V2-4-B02 (0-5) (500-185870-3), 2412V2-4-B02 (5-7.5) (500-185870-4), 2412V2-4-B03 (0-5) (500-185870-5), 2412V2-4-B03 (5-7.5) (500-185870-6), 2412V2-4-B04 (0-5) (500-185870-7), 2412V2-4-B04 (0-5) Dup (500-185870-8) and 2412V2-4-B04 (5-7.5) (500-185870-9)

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 6010B: The following sample was diluted due to the abundance of non-target analytes: 2412V2-4-B04 (5-7.5) (500-185870-9). Elevated reporting limits (RLs) are provided.

Method 6010B: The continuing calibration blanks (CCB) contained Iron above the reporting limit (RL). The sample 2412V2-4-B01 (5-7.5) (500-185870-2) associated with this CCB did not contain the target compound; therefore, re-analysis of samples was 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 - Hampshire - WO 074

Job ID: 500-185870-1

Client Sample ID: 2412V2-4-B01 (0-5)

Lab Sample ID: 500-185870-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.45	J F1	1.1	0.20	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.4	F1	0.53	0.18	mg/Kg	1	☼	6010B	Total/NA
Barium	27		0.53	0.060	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.43	F1 F2	0.21	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.092	J B F1 F2	0.11	0.019	mg/Kg	1	☼	6010B	Total/NA
Chromium	9.4	F1 F2	0.53	0.26	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.7		0.26	0.069	mg/Kg	1	☼	6010B	Total/NA
Copper	9.7	F1 F2	0.53	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	11000	F2	11	5.5	mg/Kg	1	☼	6010B	Total/NA
Lead	6.7	F1 F2	0.26	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	30000	F2	5.3	2.6	mg/Kg	1	☼	6010B	Total/NA
Calcium	72000	B	110	18	mg/Kg	10	☼	6010B	Total/NA
Manganese	230	F2	0.53	0.076	mg/Kg	1	☼	6010B	Total/NA
Nickel	13	F1	0.53	0.15	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.29	J F2	0.53	0.26	mg/Kg	1	☼	6010B	Total/NA
Vanadium	14		0.26	0.062	mg/Kg	1	☼	6010B	Total/NA
Zinc	28	F1 F2	1.1	0.46	mg/Kg	1	☼	6010B	Total/NA
Potassium	1200	F1 F2	26	9.3	mg/Kg	1	☼	6010B	Total/NA
Sodium	1200	B F1 F2	53	7.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.38	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	600		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	77		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.89		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.82	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.2		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.0081	J	0.017	0.0057	mg/Kg	1	☼	7471B	Total/NA
pH	9.0		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2412V2-4-B01 (5-7.5)

Lab Sample ID: 500-185870-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.38	J	1.0	0.20	mg/Kg	1	☼	6010B	Total/NA
Arsenic	3.5		0.51	0.17	mg/Kg	1	☼	6010B	Total/NA
Barium	29		0.51	0.058	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.48		0.20	0.048	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.10		0.10	0.018	mg/Kg	1	☼	6010B	Total/NA
Chromium	10		0.51	0.25	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.4		0.25	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	9.6		0.51	0.14	mg/Kg	1	☼	6010B	Total/NA
Iron	14000		100	53	mg/Kg	10	☼	6010B	Total/NA
Lead	6.1		0.25	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	41000		51	25	mg/Kg	10	☼	6010B	Total/NA
Calcium	90000	B	100	17	mg/Kg	10	☼	6010B	Total/NA
Manganese	230		0.51	0.074	mg/Kg	1	☼	6010B	Total/NA
Nickel	14		0.51	0.15	mg/Kg	1	☼	6010B	Total/NA
Vanadium	14		0.25	0.060	mg/Kg	1	☼	6010B	Total/NA
Zinc	29		1.0	0.45	mg/Kg	1	☼	6010B	Total/NA
Potassium	1400		25	9.0	mg/Kg	1	☼	6010B	Total/NA
Sodium	1100		51	7.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.29	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0022	J	0.0050	0.0020	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

Client Sample ID: 2412V2-4-B01 (5-7.5) (Continued)

Lab Sample ID: 500-185870-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	1300		25	2.5	mg/L	5		6010B	TCLP
Cobalt	0.019	J	0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.0091		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	220		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	2.9		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.031		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.5	J	2.5	0.50	mg/L	1		6010B	TCLP
Lead	0.060		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.77		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	8.9		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2412V2-4-B02 (0-5)

Lab Sample ID: 500-185870-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.034		0.016	0.0071	mg/Kg	1	☼	8260B	Total/NA
2-Butanone (MEK)	0.0084		0.0041	0.0018	mg/Kg	1	☼	8260B	Total/NA
Antimony	0.56	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.0		0.56	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	52		0.56	0.064	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.72		0.23	0.053	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.085	J B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.0		0.28	0.074	mg/Kg	1	☼	6010B	Total/NA
Copper	15		0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	17000		11	5.9	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	7600		5.6	2.8	mg/Kg	1	☼	6010B	Total/NA
Calcium	14000	B	11	1.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	300		0.56	0.082	mg/Kg	1	☼	6010B	Total/NA
Nickel	29		0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Vanadium	23		0.28	0.066	mg/Kg	1	☼	6010B	Total/NA
Zinc	58		1.1	0.49	mg/Kg	1	☼	6010B	Total/NA
Potassium	1300		28	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	1500	B	56	8.3	mg/Kg	1	☼	6010B	Total/NA
Barium	0.41	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	430		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
Nickel	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.94	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.3		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.042		0.018	0.0061	mg/Kg	1	☼	7471B	Total/NA
pH	8.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2412V2-4-B02 (5-7.5)

Lab Sample ID: 500-185870-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.0076	J	0.035	0.0066	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.0074	J	0.035	0.0070	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.54	J	1.1	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.7		0.54	0.19	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

Client Sample ID: 2412V2-4-B02 (5-7.5) (Continued)

Lab Sample ID: 500-185870-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	26		0.54	0.062	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.45		0.22	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.11	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	9.9		0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.6		0.27	0.071	mg/Kg	1	☼	6010B	Total/NA
Copper	12		0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	12000		11	5.7	mg/Kg	1	☼	6010B	Total/NA
Lead	7.5		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	30000		5.4	2.7	mg/Kg	1	☼	6010B	Total/NA
Calcium	77000	B	110	18	mg/Kg	10	☼	6010B	Total/NA
Manganese	260		0.54	0.079	mg/Kg	1	☼	6010B	Total/NA
Nickel	14		0.54	0.16	mg/Kg	1	☼	6010B	Total/NA
Vanadium	14		0.27	0.064	mg/Kg	1	☼	6010B	Total/NA
Zinc	43		1.1	0.48	mg/Kg	1	☼	6010B	Total/NA
Potassium	1400		27	9.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	690	B	54	8.1	mg/Kg	1	☼	6010B	Total/NA
Barium	0.29	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	830		25	2.5	mg/L	5		6010B	TCLP
Lead	0.0088		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	63		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.2		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.1	J	2.5	0.50	mg/L	1		6010B	TCLP
Lead	0.043		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.53		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.0058	J	0.017	0.0058	mg/Kg	1	☼	7471B	Total/NA
pH	9.0		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2412V2-4-B03 (0-5)

Lab Sample ID: 500-185870-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0099	J	0.016	0.0068	mg/Kg	1	☼	8260B	Total/NA
Benzo[a]anthracene	0.038	J	0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.046		0.040	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.059		0.040	0.0087	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.034	J	0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.026	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	0.0097	J	0.040	0.0078	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.094		0.040	0.0075	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.030	J	0.040	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.029	J	0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.071		0.040	0.0080	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.48	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.8		0.56	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	62		0.56	0.064	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.71		0.23	0.053	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.085	J B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.9		0.28	0.074	mg/Kg	1	☼	6010B	Total/NA
Copper	14		0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	17000		11	5.9	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

Client Sample ID: 2412V2-4-B03 (0-5) (Continued)

Lab Sample ID: 500-185870-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	18		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	3700		5.6	2.8	mg/Kg	1	☼	6010B	Total/NA
Calcium	3400	B	11	1.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	420		0.56	0.082	mg/Kg	1	☼	6010B	Total/NA
Nickel	22		0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.34	J	0.56	0.33	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.47	J	0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	26		0.28	0.067	mg/Kg	1	☼	6010B	Total/NA
Zinc	61		1.1	0.50	mg/Kg	1	☼	6010B	Total/NA
Potassium	900		28	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	2600	B	56	8.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.51		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	200		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	98		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	2.1		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.4	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.075	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.4		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.029		0.019	0.0063	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.17	J	0.29	0.14	mg/Kg	1	☼	9012B	Total/NA
pH	7.8		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2412V2-4-B03 (5-7.5)

Lab Sample ID: 500-185870-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.48	J	1.2	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.0		0.59	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	60		0.59	0.067	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.60		0.24	0.055	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.079	J B	0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Chromium	12		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.8		0.29	0.077	mg/Kg	1	☼	6010B	Total/NA
Copper	13		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	15000		12	6.1	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	7700		5.9	2.9	mg/Kg	1	☼	6010B	Total/NA
Calcium	11000	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	480		0.59	0.085	mg/Kg	1	☼	6010B	Total/NA
Nickel	20		0.59	0.17	mg/Kg	1	☼	6010B	Total/NA
Vanadium	23		0.29	0.069	mg/Kg	1	☼	6010B	Total/NA
Zinc	50		1.2	0.52	mg/Kg	1	☼	6010B	Total/NA
Potassium	790		29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	2100	B	59	8.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.68		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	480		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
Nickel	0.010	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.81	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

Client Sample ID: 2412V2-4-B03 (5-7.5) (Continued)

Lab Sample ID: 500-185870-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.018		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: 2412V2-4-B04 (0-5)

Lab Sample ID: 500-185870-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.019	J	0.034	0.0046	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.023	J	0.034	0.0067	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.039		0.034	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.012	J	0.034	0.010	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.023	J	0.034	0.0094	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.039		0.034	0.0064	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.011	J	0.034	0.0089	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.013	J	0.034	0.0048	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.031	J	0.034	0.0069	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.34	J	1.1	0.20	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.5		0.53	0.18	mg/Kg	1	☼	6010B	Total/NA
Barium	59		0.53	0.060	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.54		0.21	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.11	B	0.11	0.019	mg/Kg	1	☼	6010B	Total/NA
Chromium	12		0.53	0.26	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.6		0.26	0.069	mg/Kg	1	☼	6010B	Total/NA
Copper	12		0.53	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	13000		11	5.5	mg/Kg	1	☼	6010B	Total/NA
Lead	15		0.26	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	12000		5.3	2.6	mg/Kg	1	☼	6010B	Total/NA
Calcium	20000	B	11	1.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	340		0.53	0.076	mg/Kg	1	☼	6010B	Total/NA
Nickel	16		0.53	0.15	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.41	J	0.53	0.26	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.26	0.062	mg/Kg	1	☼	6010B	Total/NA
Zinc	47		1.1	0.46	mg/Kg	1	☼	6010B	Total/NA
Potassium	1000		26	9.3	mg/Kg	1	☼	6010B	Total/NA
Sodium	310	B	53	7.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.50		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	430		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	140		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.64		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.1	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.030	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.34		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.018		0.018	0.0058	mg/Kg	1	☼	7471B	Total/NA
pH	8.5		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2412V2-4-B04 (0-5) Dup

Lab Sample ID: 500-185870-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.025	J	0.035	0.0047	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.027	J	0.035	0.0067	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.045		0.035	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.015	J	0.035	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.013	J	0.035	0.010	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

Client Sample ID: 2412V2-4-B04 (0-5) Dup (Continued)

Lab Sample ID: 500-185870-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysene	0.025	J	0.035	0.0095	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.054		0.035	0.0065	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.014	J	0.035	0.0090	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.023	J	0.035	0.0049	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.041		0.035	0.0069	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.32	J	1.1	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	3.7		0.53	0.18	mg/Kg	1	☼	6010B	Total/NA
Barium	61		0.53	0.060	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.46		0.21	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.15	B	0.11	0.019	mg/Kg	1	☼	6010B	Total/NA
Chromium	9.4		0.53	0.26	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.8		0.26	0.069	mg/Kg	1	☼	6010B	Total/NA
Copper	8.8		0.53	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	9600		11	5.5	mg/Kg	1	☼	6010B	Total/NA
Lead	28		0.26	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	15000		5.3	2.6	mg/Kg	1	☼	6010B	Total/NA
Calcium	25000	B	11	1.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	450		0.53	0.077	mg/Kg	1	☼	6010B	Total/NA
Nickel	12		0.53	0.15	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.27	J	0.53	0.26	mg/Kg	1	☼	6010B	Total/NA
Vanadium	17		0.26	0.062	mg/Kg	1	☼	6010B	Total/NA
Zinc	45		1.1	0.46	mg/Kg	1	☼	6010B	Total/NA
Potassium	940		26	9.3	mg/Kg	1	☼	6010B	Total/NA
Sodium	210	B	53	7.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.52		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	470		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	120		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.41		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.2	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.028	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.34		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.020		0.017	0.0058	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.19	J	0.27	0.13	mg/Kg	1	☼	9012B	Total/NA
pH	8.5		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2412V2-4-B04 (5-7.5)

Lab Sample ID: 500-185870-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0053	J	0.035	0.0048	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.0081	J	0.035	0.0066	mg/Kg	1	☼	8270D	Total/NA
Arsenic	3.8		0.54	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	49		0.54	0.062	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.55		0.22	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.063	J B	0.11	0.019	mg/Kg	1	☼	6010B	Total/NA
Chromium	13		0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.5		0.54	0.14	mg/Kg	2	☼	6010B	Total/NA
Copper	9.3		0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	14000		11	5.6	mg/Kg	1	☼	6010B	Total/NA
Lead	9.8		0.27	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2500		5.4	2.7	mg/Kg	1	☼	6010B	Total/NA
Calcium	2200	B	11	1.8	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

Client Sample ID: 2412V2-4-B04 (5-7.5) (Continued)

Lab Sample ID: 500-185870-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	260		0.54	0.078	mg/Kg	1	☼	6010B	Total/NA
Nickel	16		0.54	0.16	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.31	J	0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	25		0.27	0.064	mg/Kg	1	☼	6010B	Total/NA
Zinc	38		1.1	0.48	mg/Kg	1	☼	6010B	Total/NA
Potassium	1200		27	9.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	270	B	54	8.0	mg/Kg	1	☼	6010B	Total/NA
Barium	0.37	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	57		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	24		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.19		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	10		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.2		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.019		0.017	0.0057	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.

Eurofins TestAmerica, Chicago



Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-185870-1	2412V2-4-B01 (0-5)	Solid	08/03/20 08:45	08/03/20 18:25	
500-185870-2	2412V2-4-B01 (5-7.5)	Solid	08/03/20 08:50	08/03/20 18:25	
500-185870-3	2412V2-4-B02 (0-5)	Solid	08/03/20 09:10	08/03/20 18:25	
500-185870-4	2412V2-4-B02 (5-7.5)	Solid	08/03/20 09:15	08/03/20 18:25	
500-185870-5	2412V2-4-B03 (0-5)	Solid	08/03/20 09:35	08/03/20 18:25	
500-185870-6	2412V2-4-B03 (5-7.5)	Solid	08/03/20 09:40	08/03/20 18:25	
500-185870-7	2412V2-4-B04 (0-5)	Solid	08/03/20 10:05	08/03/20 18:25	
500-185870-8	2412V2-4-B04 (0-5) Dup	Solid	08/03/20 10:10	08/03/20 18:25	
500-185870-9	2412V2-4-B04 (5-7.5)	Solid	08/03/20 10:15	08/03/20 18:25	

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

Client Sample ID: 2412V2-4-B01 (0-5)

Lab Sample ID: 500-185870-1

Date Collected: 08/03/20 08:45

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 90.1

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	☼	08/04/20 17:04	08/12/20 14:05	1
Benzene	<0.00039		0.0015	0.00039	mg/Kg	☼	08/04/20 17:04	08/12/20 14:05	1
Bromodichloromethane	<0.00031		0.0015	0.00031	mg/Kg	☼	08/04/20 17:04	08/12/20 14:05	1
Bromoform	<0.00045		0.0015	0.00045	mg/Kg	☼	08/04/20 17:04	08/12/20 14:05	1
Bromomethane	<0.0015		0.0039	0.0015	mg/Kg	☼	08/04/20 17:04	08/12/20 14:05	1
2-Butanone (MEK)	<0.0017		0.0039	0.0017	mg/Kg	☼	08/04/20 17:04	08/12/20 14:05	1
Carbon disulfide	<0.00080		0.0039	0.00080	mg/Kg	☼	08/04/20 17:04	08/12/20 14:05	1
Carbon tetrachloride	<0.00045		0.0015	0.00045	mg/Kg	☼	08/04/20 17:04	08/12/20 14:05	1
Chlorobenzene	<0.00057		0.0015	0.00057	mg/Kg	☼	08/04/20 17:04	08/12/20 14:05	1
Chloroethane	<0.0011 *		0.0039	0.0011	mg/Kg	☼	08/04/20 17:04	08/12/20 14:05	1
Chloroform	<0.00054		0.0015	0.00054	mg/Kg	☼	08/04/20 17:04	08/12/20 14:05	1
Chloromethane	<0.0016		0.0039	0.0016	mg/Kg	☼	08/04/20 17:04	08/12/20 14:05	1
cis-1,2-Dichloroethene	<0.00043		0.0015	0.00043	mg/Kg	☼	08/04/20 17:04	08/12/20 14:05	1
cis-1,3-Dichloropropene	<0.00047		0.0015	0.00047	mg/Kg	☼	08/04/20 17:04	08/12/20 14:05	1
Dibromochloromethane	<0.00051		0.0015	0.00051	mg/Kg	☼	08/04/20 17:04	08/12/20 14:05	1
1,1-Dichloroethane	<0.00053		0.0015	0.00053	mg/Kg	☼	08/04/20 17:04	08/12/20 14:05	1
1,2-Dichloroethane	<0.0012		0.0039	0.0012	mg/Kg	☼	08/04/20 17:04	08/12/20 14:05	1
1,1-Dichloroethene	<0.00053		0.0015	0.00053	mg/Kg	☼	08/04/20 17:04	08/12/20 14:05	1
1,2-Dichloropropane	<0.00040		0.0015	0.00040	mg/Kg	☼	08/04/20 17:04	08/12/20 14:05	1
1,3-Dichloropropane, Total	<0.00054		0.0015	0.00054	mg/Kg	☼	08/04/20 17:04	08/12/20 14:05	1
Ethylbenzene	<0.00074		0.0015	0.00074	mg/Kg	☼	08/04/20 17:04	08/12/20 14:05	1
2-Hexanone	<0.0012		0.0039	0.0012	mg/Kg	☼	08/04/20 17:04	08/12/20 14:05	1
Methylene Chloride	<0.0015		0.0039	0.0015	mg/Kg	☼	08/04/20 17:04	08/12/20 14:05	1
4-Methyl-2-pentanone (MIBK)	<0.0011		0.0039	0.0011	mg/Kg	☼	08/04/20 17:04	08/12/20 14:05	1
Methyl tert-butyl ether	<0.00045		0.0015	0.00045	mg/Kg	☼	08/04/20 17:04	08/12/20 14:05	1
Styrene	<0.00047		0.0015	0.00047	mg/Kg	☼	08/04/20 17:04	08/12/20 14:05	1
1,1,2,2-Tetrachloroethane	<0.00049		0.0015	0.00049	mg/Kg	☼	08/04/20 17:04	08/12/20 14:05	1
Tetrachloroethene	<0.00053		0.0015	0.00053	mg/Kg	☼	08/04/20 17:04	08/12/20 14:05	1
Toluene	<0.00039		0.0015	0.00039	mg/Kg	☼	08/04/20 17:04	08/12/20 14:05	1
trans-1,2-Dichloroethene	<0.00068		0.0015	0.00068	mg/Kg	☼	08/04/20 17:04	08/12/20 14:05	1
trans-1,3-Dichloropropene	<0.00054		0.0015	0.00054	mg/Kg	☼	08/04/20 17:04	08/12/20 14:05	1
1,1,1-Trichloroethane	<0.00052		0.0015	0.00052	mg/Kg	☼	08/04/20 17:04	08/12/20 14:05	1
1,1,2-Trichloroethane	<0.00066		0.0015	0.00066	mg/Kg	☼	08/04/20 17:04	08/12/20 14:05	1
Trichloroethene	<0.00052		0.0015	0.00052	mg/Kg	☼	08/04/20 17:04	08/12/20 14:05	1
Vinyl acetate	<0.0013		0.0039	0.0013	mg/Kg	☼	08/04/20 17:04	08/12/20 14:05	1
Vinyl chloride	<0.00068		0.0015	0.00068	mg/Kg	☼	08/04/20 17:04	08/12/20 14:05	1
Xylenes, Total	<0.00049		0.0031	0.00049	mg/Kg	☼	08/04/20 17:04	08/12/20 14:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		75 - 131	08/04/20 17:04	08/12/20 14:05	1
Dibromofluoromethane	102		75 - 126	08/04/20 17:04	08/12/20 14:05	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	08/04/20 17:04	08/12/20 14:05	1
Toluene-d8 (Surr)	90		75 - 124	08/04/20 17:04	08/12/20 14:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0064		0.035	0.0064	mg/Kg	☼	08/13/20 20:59	08/14/20 14:57	1
Acenaphthylene	<0.0047		0.035	0.0047	mg/Kg	☼	08/13/20 20:59	08/14/20 14:57	1
Anthracene	<0.0059		0.035	0.0059	mg/Kg	☼	08/13/20 20:59	08/14/20 14:57	1
Benzo[a]anthracene	<0.0048		0.035	0.0048	mg/Kg	☼	08/13/20 20:59	08/14/20 14:57	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

Client Sample ID: 2412V2-4-B01 (0-5)

Lab Sample ID: 500-185870-1

Date Collected: 08/03/20 08:45

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 90.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.0069		0.035	0.0069	mg/Kg	☼	08/13/20 20:59	08/14/20 14:57	1
Benzo[b]fluoranthene	<0.0077		0.035	0.0077	mg/Kg	☼	08/13/20 20:59	08/14/20 14:57	1
Benzo[g,h,i]perylene	<0.011		0.035	0.011	mg/Kg	☼	08/13/20 20:59	08/14/20 14:57	1
Benzo[k]fluoranthene	<0.010		0.035	0.010	mg/Kg	☼	08/13/20 20:59	08/14/20 14:57	1
Bis(2-chloroethoxy)methane	<0.036		0.18	0.036	mg/Kg	☼	08/13/20 20:59	08/14/20 14:57	1
Bis(2-chloroethyl)ether	<0.053		0.18	0.053	mg/Kg	☼	08/13/20 20:59	08/14/20 14:57	1
Bis(2-ethylhexyl) phthalate	<0.065		0.18	0.065	mg/Kg	☼	08/13/20 20:59	08/14/20 14:57	1
4-Bromophenyl phenyl ether	<0.047		0.18	0.047	mg/Kg	☼	08/13/20 20:59	08/14/20 14:57	1
Butyl benzyl phthalate	<0.068		0.18	0.068	mg/Kg	☼	08/13/20 20:59	08/14/20 14:57	1
Carbazole	<0.089		0.18	0.089	mg/Kg	☼	08/13/20 20:59	08/14/20 14:57	1
4-Chloroaniline	<0.17		0.72	0.17	mg/Kg	☼	08/13/20 20:59	08/14/20 14:57	1
4-Chloro-3-methylphenol	<0.12		0.35	0.12	mg/Kg	☼	08/13/20 20:59	08/14/20 14:57	1
2-Chloronaphthalene	<0.039		0.18	0.039	mg/Kg	☼	08/13/20 20:59	08/14/20 14:57	1
2-Chlorophenol	<0.061		0.18	0.061	mg/Kg	☼	08/13/20 20:59	08/14/20 14:57	1
4-Chlorophenyl phenyl ether	<0.042		0.18	0.042	mg/Kg	☼	08/13/20 20:59	08/14/20 14:57	1
Chrysene	<0.0097		0.035	0.0097	mg/Kg	☼	08/13/20 20:59	08/14/20 14:57	1
Dibenz(a,h)anthracene	<0.0069		0.035	0.0069	mg/Kg	☼	08/13/20 20:59	08/14/20 14:57	1
Dibenzofuran	<0.042		0.18	0.042	mg/Kg	☼	08/13/20 20:59	08/14/20 14:57	1
1,2-Dichlorobenzene	<0.042		0.18	0.042	mg/Kg	☼	08/13/20 20:59	08/14/20 14:57	1
1,3-Dichlorobenzene	<0.040		0.18	0.040	mg/Kg	☼	08/13/20 20:59	08/14/20 14:57	1
1,4-Dichlorobenzene	<0.046		0.18	0.046	mg/Kg	☼	08/13/20 20:59	08/14/20 14:57	1
3,3'-Dichlorobenzidine	<0.050		0.18	0.050	mg/Kg	☼	08/13/20 20:59	08/14/20 14:57	1
2,4-Dichlorophenol	<0.084		0.35	0.084	mg/Kg	☼	08/13/20 20:59	08/14/20 14:57	1
Diethyl phthalate	<0.060		0.18	0.060	mg/Kg	☼	08/13/20 20:59	08/14/20 14:57	1
2,4-Dimethylphenol	<0.13		0.35	0.13	mg/Kg	☼	08/13/20 20:59	08/14/20 14:57	1
Dimethyl phthalate	<0.046		0.18	0.046	mg/Kg	☼	08/13/20 20:59	08/14/20 14:57	1
Di-n-butyl phthalate	<0.054		0.18	0.054	mg/Kg	☼	08/13/20 20:59	08/14/20 14:57	1
4,6-Dinitro-2-methylphenol	<0.29		0.72	0.29	mg/Kg	☼	08/13/20 20:59	08/14/20 14:57	1
2,4-Dinitrophenol	<0.63		0.72	0.63	mg/Kg	☼	08/13/20 20:59	08/14/20 14:57	1
2,4-Dinitrotoluene	<0.056		0.18	0.056	mg/Kg	☼	08/13/20 20:59	08/14/20 14:57	1
2,6-Dinitrotoluene	<0.070		0.18	0.070	mg/Kg	☼	08/13/20 20:59	08/14/20 14:57	1
Di-n-octyl phthalate	<0.058		0.18	0.058	mg/Kg	☼	08/13/20 20:59	08/14/20 14:57	1
Fluoranthene	<0.0066		0.035	0.0066	mg/Kg	☼	08/13/20 20:59	08/14/20 14:57	1
Fluorene	<0.0050		0.035	0.0050	mg/Kg	☼	08/13/20 20:59	08/14/20 14:57	1
Hexachlorobenzene	<0.0082		0.072	0.0082	mg/Kg	☼	08/13/20 20:59	08/14/20 14:57	1
Hexachlorobutadiene	<0.056		0.18	0.056	mg/Kg	☼	08/13/20 20:59	08/14/20 14:57	1
Hexachlorocyclopentadiene	<0.20		0.72	0.20	mg/Kg	☼	08/13/20 20:59	08/14/20 14:57	1
Hexachloroethane	<0.054		0.18	0.054	mg/Kg	☼	08/13/20 20:59	08/14/20 14:57	1
Indeno[1,2,3-cd]pyrene	<0.0092		0.035	0.0092	mg/Kg	☼	08/13/20 20:59	08/14/20 14:57	1
Isophorone	<0.040		0.18	0.040	mg/Kg	☼	08/13/20 20:59	08/14/20 14:57	1
2-Methylnaphthalene	<0.0065		0.072	0.0065	mg/Kg	☼	08/13/20 20:59	08/14/20 14:57	1
2-Methylphenol	<0.057		0.18	0.057	mg/Kg	☼	08/13/20 20:59	08/14/20 14:57	1
3 & 4 Methylphenol	<0.059		0.18	0.059	mg/Kg	☼	08/13/20 20:59	08/14/20 14:57	1
Naphthalene	<0.0055		0.035	0.0055	mg/Kg	☼	08/13/20 20:59	08/14/20 14:57	1
2-Nitroaniline	<0.048		0.18	0.048	mg/Kg	☼	08/13/20 20:59	08/14/20 14:57	1
3-Nitroaniline	<0.11		0.35	0.11	mg/Kg	☼	08/13/20 20:59	08/14/20 14:57	1
4-Nitroaniline	<0.15		0.35	0.15	mg/Kg	☼	08/13/20 20:59	08/14/20 14:57	1
Nitrobenzene	<0.0089		0.035	0.0089	mg/Kg	☼	08/13/20 20:59	08/14/20 14:57	1
2-Nitrophenol	<0.084		0.35	0.084	mg/Kg	☼	08/13/20 20:59	08/14/20 14:57	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

Client Sample ID: 2412V2-4-B01 (0-5)

Lab Sample ID: 500-185870-1

Date Collected: 08/03/20 08:45

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 90.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.34		0.72	0.34	mg/Kg	☼	08/13/20 20:59	08/14/20 14:57	1
N-Nitrosodi-n-propylamine	<0.043		0.072	0.043	mg/Kg	☼	08/13/20 20:59	08/14/20 14:57	1
N-Nitrosodiphenylamine	<0.042		0.18	0.042	mg/Kg	☼	08/13/20 20:59	08/14/20 14:57	1
2,2'-oxybis[1-chloropropane]	<0.041		0.18	0.041	mg/Kg	☼	08/13/20 20:59	08/14/20 14:57	1
Pentachlorophenol	<0.57		0.72	0.57	mg/Kg	☼	08/13/20 20:59	08/14/20 14:57	1
Phenanthrene	<0.0050		0.035	0.0050	mg/Kg	☼	08/13/20 20:59	08/14/20 14:57	1
Phenol	<0.079		0.18	0.079	mg/Kg	☼	08/13/20 20:59	08/14/20 14:57	1
Pyrene	<0.0071		0.035	0.0071	mg/Kg	☼	08/13/20 20:59	08/14/20 14:57	1
1,2,4-Trichlorobenzene	<0.038		0.18	0.038	mg/Kg	☼	08/13/20 20:59	08/14/20 14:57	1
2,4,5-Trichlorophenol	<0.081		0.35	0.081	mg/Kg	☼	08/13/20 20:59	08/14/20 14:57	1
2,4,6-Trichlorophenol	<0.12		0.35	0.12	mg/Kg	☼	08/13/20 20:59	08/14/20 14:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	80		43 - 145	08/13/20 20:59	08/14/20 14:57	1
2-Fluorophenol	93		31 - 166	08/13/20 20:59	08/14/20 14:57	1
Nitrobenzene-d5	77		37 - 147	08/13/20 20:59	08/14/20 14:57	1
Phenol-d5	97		30 - 153	08/13/20 20:59	08/14/20 14:57	1
Terphenyl-d14	99		42 - 157	08/13/20 20:59	08/14/20 14:57	1
2,4,6-Tribromophenol	75		31 - 143	08/13/20 20:59	08/14/20 14:57	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.45	J F1	1.1	0.20	mg/Kg	☼	08/10/20 06:36	08/12/20 15:19	1
Arsenic	4.4	F1	0.53	0.18	mg/Kg	☼	08/10/20 06:36	08/12/20 15:19	1
Barium	27		0.53	0.060	mg/Kg	☼	08/10/20 06:36	08/12/20 15:19	1
Beryllium	0.43	F1 F2	0.21	0.049	mg/Kg	☼	08/10/20 06:36	08/12/20 15:19	1
Cadmium	0.092	J B F1 F2	0.11	0.019	mg/Kg	☼	08/10/20 06:36	08/12/20 15:19	1
Chromium	9.4	F1 F2	0.53	0.26	mg/Kg	☼	08/10/20 06:36	08/12/20 15:19	1
Cobalt	6.7		0.26	0.069	mg/Kg	☼	08/10/20 06:36	08/12/20 15:19	1
Copper	9.7	F1 F2	0.53	0.15	mg/Kg	☼	08/10/20 06:36	08/12/20 15:19	1
Iron	11000	F2	11	5.5	mg/Kg	☼	08/10/20 06:36	08/12/20 15:19	1
Lead	6.7	F1 F2	0.26	0.12	mg/Kg	☼	08/10/20 06:36	08/12/20 15:19	1
Magnesium	30000	F2	5.3	2.6	mg/Kg	☼	08/10/20 06:36	08/12/20 15:19	1
Calcium	72000	B	110	18	mg/Kg	☼	08/10/20 06:36	08/12/20 15:23	10
Manganese	230	F2	0.53	0.076	mg/Kg	☼	08/10/20 06:36	08/12/20 15:19	1
Nickel	13	F1	0.53	0.15	mg/Kg	☼	08/10/20 06:36	08/12/20 15:19	1
Selenium	<0.31	F1 F2	0.53	0.31	mg/Kg	☼	08/10/20 06:36	08/12/20 15:19	1
Silver	<0.068	F1 F2	0.26	0.068	mg/Kg	☼	08/10/20 06:36	08/12/20 15:19	1
Thallium	0.29	J F2	0.53	0.26	mg/Kg	☼	08/10/20 06:36	08/12/20 15:19	1
Vanadium	14		0.26	0.062	mg/Kg	☼	08/10/20 06:36	08/12/20 15:19	1
Zinc	28	F1 F2	1.1	0.46	mg/Kg	☼	08/10/20 06:36	08/12/20 15:19	1
Potassium	1200	F1 F2	26	9.3	mg/Kg	☼	08/10/20 06:36	08/12/20 15:19	1
Sodium	1200	B F1 F2	53	7.8	mg/Kg	☼	08/10/20 06:36	08/12/20 15:19	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		08/13/20 17:12	08/14/20 02:17	1
Barium	0.38	J	0.50	0.050	mg/L		08/13/20 17:12	08/14/20 02:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/13/20 17:12	08/14/20 02:17	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/13/20 17:12	08/14/20 02:17	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

Client Sample ID: 2412V2-4-B01 (0-5)

Lab Sample ID: 500-185870-1

Date Collected: 08/03/20 08:45

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 90.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	600		5.0	0.50	mg/L		08/13/20 17:12	08/14/20 02:17	1
Chromium	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:17	1
Cobalt	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:17	1
Copper	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:17	1
Iron	<0.20		0.40	0.20	mg/L		08/13/20 17:12	08/14/20 02:17	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/13/20 17:12	08/14/20 02:17	1
Magnesium	77		2.5	0.50	mg/L		08/13/20 17:12	08/14/20 02:17	1
Manganese	0.89		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:17	1
Nickel	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:17	1
Potassium	0.82	J	2.5	0.50	mg/L		08/13/20 17:12	08/14/20 02:17	1
Selenium	<0.020		0.050	0.020	mg/L		08/13/20 17:12	08/14/20 02:17	1
Silver	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:17	1
Vanadium	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:17	1
Zinc	<0.020		0.50	0.020	mg/L		08/13/20 17:12	08/14/20 02:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.2		0.025	0.010	mg/L		08/14/20 05:55	08/16/20 21:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/13/20 17:12	08/14/20 09:59	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/13/20 17:12	08/14/20 09:59	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/13/20 14:20	08/14/20 10:10	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0081	J	0.017	0.0057	mg/Kg	☼	08/11/20 14:25	08/12/20 08:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.16		0.32	0.16	mg/Kg	☼	08/14/20 12:10	08/14/20 15:29	1
pH	9.0		0.2	0.2	SU			08/06/20 19:31	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

Client Sample ID: 2412V2-4-B01 (5-7.5)

Lab Sample ID: 500-185870-2

Date Collected: 08/03/20 08:50

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 89.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0064		0.015	0.0064	mg/Kg	☼	08/04/20 17:04	08/12/20 14:31	1
Benzene	<0.00038		0.0015	0.00038	mg/Kg	☼	08/04/20 17:04	08/12/20 14:31	1
Bromodichloromethane	<0.00030		0.0015	0.00030	mg/Kg	☼	08/04/20 17:04	08/12/20 14:31	1
Bromoform	<0.00043		0.0015	0.00043	mg/Kg	☼	08/04/20 17:04	08/12/20 14:31	1
Bromomethane	<0.0014		0.0037	0.0014	mg/Kg	☼	08/04/20 17:04	08/12/20 14:31	1
2-Butanone (MEK)	<0.0016		0.0037	0.0016	mg/Kg	☼	08/04/20 17:04	08/12/20 14:31	1
Carbon disulfide	<0.00077		0.0037	0.00077	mg/Kg	☼	08/04/20 17:04	08/12/20 14:31	1
Carbon tetrachloride	<0.00043		0.0015	0.00043	mg/Kg	☼	08/04/20 17:04	08/12/20 14:31	1
Chlorobenzene	<0.00055		0.0015	0.00055	mg/Kg	☼	08/04/20 17:04	08/12/20 14:31	1
Chloroethane	<0.0011 *		0.0037	0.0011	mg/Kg	☼	08/04/20 17:04	08/12/20 14:31	1
Chloroform	<0.00051		0.0015	0.00051	mg/Kg	☼	08/04/20 17:04	08/12/20 14:31	1
Chloromethane	<0.0015		0.0037	0.0015	mg/Kg	☼	08/04/20 17:04	08/12/20 14:31	1
cis-1,2-Dichloroethene	<0.00041		0.0015	0.00041	mg/Kg	☼	08/04/20 17:04	08/12/20 14:31	1
cis-1,3-Dichloropropene	<0.00045		0.0015	0.00045	mg/Kg	☼	08/04/20 17:04	08/12/20 14:31	1
Dibromochloromethane	<0.00048		0.0015	0.00048	mg/Kg	☼	08/04/20 17:04	08/12/20 14:31	1
1,1-Dichloroethane	<0.00051		0.0015	0.00051	mg/Kg	☼	08/04/20 17:04	08/12/20 14:31	1
1,2-Dichloroethane	<0.0012		0.0037	0.0012	mg/Kg	☼	08/04/20 17:04	08/12/20 14:31	1
1,1-Dichloroethene	<0.00051		0.0015	0.00051	mg/Kg	☼	08/04/20 17:04	08/12/20 14:31	1
1,2-Dichloropropane	<0.00038		0.0015	0.00038	mg/Kg	☼	08/04/20 17:04	08/12/20 14:31	1
1,3-Dichloropropane, Total	<0.00052		0.0015	0.00052	mg/Kg	☼	08/04/20 17:04	08/12/20 14:31	1
Ethylbenzene	<0.00071		0.0015	0.00071	mg/Kg	☼	08/04/20 17:04	08/12/20 14:31	1
2-Hexanone	<0.0012		0.0037	0.0012	mg/Kg	☼	08/04/20 17:04	08/12/20 14:31	1
Methylene Chloride	<0.0015		0.0037	0.0015	mg/Kg	☼	08/04/20 17:04	08/12/20 14:31	1
4-Methyl-2-pentanone (MIBK)	<0.0011		0.0037	0.0011	mg/Kg	☼	08/04/20 17:04	08/12/20 14:31	1
Methyl tert-butyl ether	<0.00043		0.0015	0.00043	mg/Kg	☼	08/04/20 17:04	08/12/20 14:31	1
Styrene	<0.00045		0.0015	0.00045	mg/Kg	☼	08/04/20 17:04	08/12/20 14:31	1
1,1,2,2-Tetrachloroethane	<0.00047		0.0015	0.00047	mg/Kg	☼	08/04/20 17:04	08/12/20 14:31	1
Tetrachloroethene	<0.00050		0.0015	0.00050	mg/Kg	☼	08/04/20 17:04	08/12/20 14:31	1
Toluene	<0.00037		0.0015	0.00037	mg/Kg	☼	08/04/20 17:04	08/12/20 14:31	1
trans-1,2-Dichloroethene	<0.00066		0.0015	0.00066	mg/Kg	☼	08/04/20 17:04	08/12/20 14:31	1
trans-1,3-Dichloropropene	<0.00052		0.0015	0.00052	mg/Kg	☼	08/04/20 17:04	08/12/20 14:31	1
1,1,1-Trichloroethane	<0.00050		0.0015	0.00050	mg/Kg	☼	08/04/20 17:04	08/12/20 14:31	1
1,1,2-Trichloroethane	<0.00064		0.0015	0.00064	mg/Kg	☼	08/04/20 17:04	08/12/20 14:31	1
Trichloroethene	<0.00050		0.0015	0.00050	mg/Kg	☼	08/04/20 17:04	08/12/20 14:31	1
Vinyl acetate	<0.0013		0.0037	0.0013	mg/Kg	☼	08/04/20 17:04	08/12/20 14:31	1
Vinyl chloride	<0.00066		0.0015	0.00066	mg/Kg	☼	08/04/20 17:04	08/12/20 14:31	1
Xylenes, Total	<0.00047		0.0030	0.00047	mg/Kg	☼	08/04/20 17:04	08/12/20 14:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		75 - 131	08/04/20 17:04	08/12/20 14:31	1
Dibromofluoromethane	100		75 - 126	08/04/20 17:04	08/12/20 14:31	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	08/04/20 17:04	08/12/20 14:31	1
Toluene-d8 (Surr)	89		75 - 124	08/04/20 17:04	08/12/20 14:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0064		0.035	0.0064	mg/Kg	☼	08/13/20 20:59	08/14/20 15:22	1
Acenaphthylene	<0.0047		0.035	0.0047	mg/Kg	☼	08/13/20 20:59	08/14/20 15:22	1
Anthracene	<0.0059		0.035	0.0059	mg/Kg	☼	08/13/20 20:59	08/14/20 15:22	1
Benzo[a]anthracene	<0.0048		0.035	0.0048	mg/Kg	☼	08/13/20 20:59	08/14/20 15:22	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

Client Sample ID: 2412V2-4-B01 (5-7.5)

Lab Sample ID: 500-185870-2

Date Collected: 08/03/20 08:50

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 89.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.0069		0.035	0.0069	mg/Kg	☼	08/13/20 20:59	08/14/20 15:22	1
Benzo[b]fluoranthene	<0.0076		0.035	0.0076	mg/Kg	☼	08/13/20 20:59	08/14/20 15:22	1
Benzo[g,h,i]perylene	<0.011		0.035	0.011	mg/Kg	☼	08/13/20 20:59	08/14/20 15:22	1
Benzo[k]fluoranthene	<0.010		0.035	0.010	mg/Kg	☼	08/13/20 20:59	08/14/20 15:22	1
Bis(2-chloroethoxy)methane	<0.036		0.18	0.036	mg/Kg	☼	08/13/20 20:59	08/14/20 15:22	1
Bis(2-chloroethyl)ether	<0.053		0.18	0.053	mg/Kg	☼	08/13/20 20:59	08/14/20 15:22	1
Bis(2-ethylhexyl) phthalate	<0.065		0.18	0.065	mg/Kg	☼	08/13/20 20:59	08/14/20 15:22	1
4-Bromophenyl phenyl ether	<0.047		0.18	0.047	mg/Kg	☼	08/13/20 20:59	08/14/20 15:22	1
Butyl benzyl phthalate	<0.067		0.18	0.067	mg/Kg	☼	08/13/20 20:59	08/14/20 15:22	1
Carbazole	<0.088		0.18	0.088	mg/Kg	☼	08/13/20 20:59	08/14/20 15:22	1
4-Chloroaniline	<0.17		0.71	0.17	mg/Kg	☼	08/13/20 20:59	08/14/20 15:22	1
4-Chloro-3-methylphenol	<0.12		0.35	0.12	mg/Kg	☼	08/13/20 20:59	08/14/20 15:22	1
2-Chloronaphthalene	<0.039		0.18	0.039	mg/Kg	☼	08/13/20 20:59	08/14/20 15:22	1
2-Chlorophenol	<0.060		0.18	0.060	mg/Kg	☼	08/13/20 20:59	08/14/20 15:22	1
4-Chlorophenyl phenyl ether	<0.041		0.18	0.041	mg/Kg	☼	08/13/20 20:59	08/14/20 15:22	1
Chrysene	<0.0097		0.035	0.0097	mg/Kg	☼	08/13/20 20:59	08/14/20 15:22	1
Dibenz(a,h)anthracene	<0.0068		0.035	0.0068	mg/Kg	☼	08/13/20 20:59	08/14/20 15:22	1
Dibenzofuran	<0.041		0.18	0.041	mg/Kg	☼	08/13/20 20:59	08/14/20 15:22	1
1,2-Dichlorobenzene	<0.042		0.18	0.042	mg/Kg	☼	08/13/20 20:59	08/14/20 15:22	1
1,3-Dichlorobenzene	<0.040		0.18	0.040	mg/Kg	☼	08/13/20 20:59	08/14/20 15:22	1
1,4-Dichlorobenzene	<0.045		0.18	0.045	mg/Kg	☼	08/13/20 20:59	08/14/20 15:22	1
3,3'-Dichlorobenzidine	<0.050		0.18	0.050	mg/Kg	☼	08/13/20 20:59	08/14/20 15:22	1
2,4-Dichlorophenol	<0.084		0.35	0.084	mg/Kg	☼	08/13/20 20:59	08/14/20 15:22	1
Diethyl phthalate	<0.060		0.18	0.060	mg/Kg	☼	08/13/20 20:59	08/14/20 15:22	1
2,4-Dimethylphenol	<0.13		0.35	0.13	mg/Kg	☼	08/13/20 20:59	08/14/20 15:22	1
Dimethyl phthalate	<0.046		0.18	0.046	mg/Kg	☼	08/13/20 20:59	08/14/20 15:22	1
Di-n-butyl phthalate	<0.054		0.18	0.054	mg/Kg	☼	08/13/20 20:59	08/14/20 15:22	1
4,6-Dinitro-2-methylphenol	<0.28		0.71	0.28	mg/Kg	☼	08/13/20 20:59	08/14/20 15:22	1
2,4-Dinitrophenol	<0.62		0.71	0.62	mg/Kg	☼	08/13/20 20:59	08/14/20 15:22	1
2,4-Dinitrotoluene	<0.056		0.18	0.056	mg/Kg	☼	08/13/20 20:59	08/14/20 15:22	1
2,6-Dinitrotoluene	<0.070		0.18	0.070	mg/Kg	☼	08/13/20 20:59	08/14/20 15:22	1
Di-n-octyl phthalate	<0.058		0.18	0.058	mg/Kg	☼	08/13/20 20:59	08/14/20 15:22	1
Fluoranthene	<0.0066		0.035	0.0066	mg/Kg	☼	08/13/20 20:59	08/14/20 15:22	1
Fluorene	<0.0050		0.035	0.0050	mg/Kg	☼	08/13/20 20:59	08/14/20 15:22	1
Hexachlorobenzene	<0.0082		0.071	0.0082	mg/Kg	☼	08/13/20 20:59	08/14/20 15:22	1
Hexachlorobutadiene	<0.056		0.18	0.056	mg/Kg	☼	08/13/20 20:59	08/14/20 15:22	1
Hexachlorocyclopentadiene	<0.20		0.71	0.20	mg/Kg	☼	08/13/20 20:59	08/14/20 15:22	1
Hexachloroethane	<0.054		0.18	0.054	mg/Kg	☼	08/13/20 20:59	08/14/20 15:22	1
Indeno[1,2,3-cd]pyrene	<0.0092		0.035	0.0092	mg/Kg	☼	08/13/20 20:59	08/14/20 15:22	1
Isophorone	<0.040		0.18	0.040	mg/Kg	☼	08/13/20 20:59	08/14/20 15:22	1
2-Methylnaphthalene	<0.0065		0.071	0.0065	mg/Kg	☼	08/13/20 20:59	08/14/20 15:22	1
2-Methylphenol	<0.057		0.18	0.057	mg/Kg	☼	08/13/20 20:59	08/14/20 15:22	1
3 & 4 Methylphenol	<0.059		0.18	0.059	mg/Kg	☼	08/13/20 20:59	08/14/20 15:22	1
Naphthalene	<0.0054		0.035	0.0054	mg/Kg	☼	08/13/20 20:59	08/14/20 15:22	1
2-Nitroaniline	<0.048		0.18	0.048	mg/Kg	☼	08/13/20 20:59	08/14/20 15:22	1
3-Nitroaniline	<0.11		0.35	0.11	mg/Kg	☼	08/13/20 20:59	08/14/20 15:22	1
4-Nitroaniline	<0.15		0.35	0.15	mg/Kg	☼	08/13/20 20:59	08/14/20 15:22	1
Nitrobenzene	<0.0088		0.035	0.0088	mg/Kg	☼	08/13/20 20:59	08/14/20 15:22	1
2-Nitrophenol	<0.084		0.35	0.084	mg/Kg	☼	08/13/20 20:59	08/14/20 15:22	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

Client Sample ID: 2412V2-4-B01 (5-7.5)

Lab Sample ID: 500-185870-2

Date Collected: 08/03/20 08:50

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 89.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.34		0.71	0.34	mg/Kg	☼	08/13/20 20:59	08/14/20 15:22	1
N-Nitrosodi-n-propylamine	<0.043		0.071	0.043	mg/Kg	☼	08/13/20 20:59	08/14/20 15:22	1
N-Nitrosodiphenylamine	<0.042		0.18	0.042	mg/Kg	☼	08/13/20 20:59	08/14/20 15:22	1
2,2'-oxybis[1-chloropropane]	<0.041		0.18	0.041	mg/Kg	☼	08/13/20 20:59	08/14/20 15:22	1
Pentachlorophenol	<0.57		0.71	0.57	mg/Kg	☼	08/13/20 20:59	08/14/20 15:22	1
Phenanthrene	<0.0049		0.035	0.0049	mg/Kg	☼	08/13/20 20:59	08/14/20 15:22	1
Phenol	<0.079		0.18	0.079	mg/Kg	☼	08/13/20 20:59	08/14/20 15:22	1
Pyrene	<0.0070		0.035	0.0070	mg/Kg	☼	08/13/20 20:59	08/14/20 15:22	1
1,2,4-Trichlorobenzene	<0.038		0.18	0.038	mg/Kg	☼	08/13/20 20:59	08/14/20 15:22	1
2,4,5-Trichlorophenol	<0.081		0.35	0.081	mg/Kg	☼	08/13/20 20:59	08/14/20 15:22	1
2,4,6-Trichlorophenol	<0.12		0.35	0.12	mg/Kg	☼	08/13/20 20:59	08/14/20 15:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	89		43 - 145				08/13/20 20:59	08/14/20 15:22	1
2-Fluorophenol	96		31 - 166				08/13/20 20:59	08/14/20 15:22	1
Nitrobenzene-d5	87		37 - 147				08/13/20 20:59	08/14/20 15:22	1
Phenol-d5	98		30 - 153				08/13/20 20:59	08/14/20 15:22	1
Terphenyl-d14	97		42 - 157				08/13/20 20:59	08/14/20 15:22	1
2,4,6-Tribromophenol	93		31 - 143				08/13/20 20:59	08/14/20 15:22	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.38	J	1.0	0.20	mg/Kg	☼	08/10/20 06:36	08/12/20 16:07	1
Arsenic	3.5		0.51	0.17	mg/Kg	☼	08/10/20 06:36	08/12/20 16:07	1
Barium	29		0.51	0.058	mg/Kg	☼	08/10/20 06:36	08/12/20 16:07	1
Beryllium	0.48		0.20	0.048	mg/Kg	☼	08/10/20 06:36	08/12/20 16:07	1
Cadmium	0.10		0.10	0.018	mg/Kg	☼	08/10/20 06:36	08/12/20 16:07	1
Chromium	10		0.51	0.25	mg/Kg	☼	08/10/20 06:36	08/12/20 16:07	1
Cobalt	5.4		0.25	0.067	mg/Kg	☼	08/10/20 06:36	08/12/20 16:07	1
Copper	9.6		0.51	0.14	mg/Kg	☼	08/10/20 06:36	08/12/20 16:07	1
Iron	14000		100	53	mg/Kg	☼	08/10/20 06:36	08/12/20 16:12	10
Lead	6.1		0.25	0.12	mg/Kg	☼	08/10/20 06:36	08/12/20 16:07	1
Magnesium	41000		51	25	mg/Kg	☼	08/10/20 06:36	08/12/20 16:12	10
Calcium	90000	B	100	17	mg/Kg	☼	08/10/20 06:36	08/12/20 16:12	10
Manganese	230		0.51	0.074	mg/Kg	☼	08/10/20 06:36	08/12/20 16:07	1
Nickel	14		0.51	0.15	mg/Kg	☼	08/10/20 06:36	08/12/20 16:07	1
Selenium	<0.30		0.51	0.30	mg/Kg	☼	08/10/20 06:36	08/12/20 16:07	1
Silver	<0.066		0.25	0.066	mg/Kg	☼	08/10/20 06:36	08/12/20 16:07	1
Thallium	<0.25		0.51	0.25	mg/Kg	☼	08/10/20 06:36	08/12/20 16:07	1
Vanadium	14		0.25	0.060	mg/Kg	☼	08/10/20 06:36	08/12/20 16:07	1
Zinc	29		1.0	0.45	mg/Kg	☼	08/10/20 06:36	08/12/20 16:07	1
Potassium	1400		25	9.0	mg/Kg	☼	08/10/20 06:36	08/12/20 16:07	1
Sodium	1100		51	7.5	mg/Kg	☼	08/10/20 06:36	08/12/20 16:07	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		08/13/20 17:12	08/14/20 01:13	1
Barium	0.29	J	0.50	0.050	mg/L		08/13/20 17:12	08/14/20 01:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/13/20 17:12	08/14/20 01:13	1
Cadmium	0.0022	J	0.0050	0.0020	mg/L		08/13/20 17:12	08/14/20 01:13	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

Client Sample ID: 2412V2-4-B01 (5-7.5)

Lab Sample ID: 500-185870-2

Date Collected: 08/03/20 08:50

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 89.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	1300		25	2.5	mg/L		08/13/20 17:12	08/14/20 05:23	5
Chromium	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:13	1
Cobalt	0.019	J	0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:13	1
Copper	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:13	1
Iron	<0.20		0.40	0.20	mg/L		08/13/20 17:12	08/14/20 01:13	1
Lead	0.0091		0.0075	0.0075	mg/L		08/13/20 17:12	08/14/20 01:13	1
Magnesium	220		2.5	0.50	mg/L		08/13/20 17:12	08/14/20 01:13	1
Manganese	2.9		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:13	1
Nickel	0.031		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:13	1
Potassium	1.5	J	2.5	0.50	mg/L		08/13/20 17:12	08/14/20 01:13	1
Selenium	<0.020		0.050	0.020	mg/L		08/13/20 17:12	08/14/20 01:13	1
Silver	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:13	1
Vanadium	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:13	1
Zinc	<0.020		0.50	0.020	mg/L		08/13/20 17:12	08/14/20 01:13	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.060		0.0075	0.0075	mg/L		08/14/20 05:55	08/16/20 21:14	1
Manganese	0.77		0.025	0.010	mg/L		08/14/20 05:55	08/16/20 21:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/13/20 17:12	08/14/20 10:36	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/13/20 17:12	08/14/20 10:36	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		08/13/20 14:20	08/14/20 10:12	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	☼	08/11/20 14:25	08/12/20 08:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.14		0.29	0.14	mg/Kg	☼	08/14/20 12:10	08/14/20 15:31	1
pH	8.9		0.2	0.2	SU			08/06/20 19:36	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

Client Sample ID: 2412V2-4-B02 (0-5)

Lab Sample ID: 500-185870-3

Date Collected: 08/03/20 09:10

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.034		0.016	0.0071	mg/Kg	☼	08/04/20 17:04	08/12/20 14:57	1
Benzene	<0.00041		0.0016	0.00041	mg/Kg	☼	08/04/20 17:04	08/12/20 14:57	1
Bromodichloromethane	<0.00033		0.0016	0.00033	mg/Kg	☼	08/04/20 17:04	08/12/20 14:57	1
Bromoform	<0.00047		0.0016	0.00047	mg/Kg	☼	08/04/20 17:04	08/12/20 14:57	1
Bromomethane	<0.0015		0.0041	0.0015	mg/Kg	☼	08/04/20 17:04	08/12/20 14:57	1
2-Butanone (MEK)	0.0084		0.0041	0.0018	mg/Kg	☼	08/04/20 17:04	08/12/20 14:57	1
Carbon disulfide	<0.00084		0.0041	0.00084	mg/Kg	☼	08/04/20 17:04	08/12/20 14:57	1
Carbon tetrachloride	<0.00047		0.0016	0.00047	mg/Kg	☼	08/04/20 17:04	08/12/20 14:57	1
Chlorobenzene	<0.00060		0.0016	0.00060	mg/Kg	☼	08/04/20 17:04	08/12/20 14:57	1
Chloroethane	<0.0012 *		0.0041	0.0012	mg/Kg	☼	08/04/20 17:04	08/12/20 14:57	1
Chloroform	<0.00056		0.0016	0.00056	mg/Kg	☼	08/04/20 17:04	08/12/20 14:57	1
Chloromethane	<0.0016		0.0041	0.0016	mg/Kg	☼	08/04/20 17:04	08/12/20 14:57	1
cis-1,2-Dichloroethene	<0.00045		0.0016	0.00045	mg/Kg	☼	08/04/20 17:04	08/12/20 14:57	1
cis-1,3-Dichloropropene	<0.00049		0.0016	0.00049	mg/Kg	☼	08/04/20 17:04	08/12/20 14:57	1
Dibromochloromethane	<0.00053		0.0016	0.00053	mg/Kg	☼	08/04/20 17:04	08/12/20 14:57	1
1,1-Dichloroethane	<0.00056		0.0016	0.00056	mg/Kg	☼	08/04/20 17:04	08/12/20 14:57	1
1,2-Dichloroethane	<0.0013		0.0041	0.0013	mg/Kg	☼	08/04/20 17:04	08/12/20 14:57	1
1,1-Dichloroethene	<0.00056		0.0016	0.00056	mg/Kg	☼	08/04/20 17:04	08/12/20 14:57	1
1,2-Dichloropropane	<0.00042		0.0016	0.00042	mg/Kg	☼	08/04/20 17:04	08/12/20 14:57	1
1,3-Dichloropropane, Total	<0.00057		0.0016	0.00057	mg/Kg	☼	08/04/20 17:04	08/12/20 14:57	1
Ethylbenzene	<0.00078		0.0016	0.00078	mg/Kg	☼	08/04/20 17:04	08/12/20 14:57	1
2-Hexanone	<0.0013		0.0041	0.0013	mg/Kg	☼	08/04/20 17:04	08/12/20 14:57	1
Methylene Chloride	<0.0016		0.0041	0.0016	mg/Kg	☼	08/04/20 17:04	08/12/20 14:57	1
4-Methyl-2-pentanone (MIBK)	<0.0012		0.0041	0.0012	mg/Kg	☼	08/04/20 17:04	08/12/20 14:57	1
Methyl tert-butyl ether	<0.00048		0.0016	0.00048	mg/Kg	☼	08/04/20 17:04	08/12/20 14:57	1
Styrene	<0.00049		0.0016	0.00049	mg/Kg	☼	08/04/20 17:04	08/12/20 14:57	1
1,1,2,2-Tetrachloroethane	<0.00052		0.0016	0.00052	mg/Kg	☼	08/04/20 17:04	08/12/20 14:57	1
Tetrachloroethene	<0.00055		0.0016	0.00055	mg/Kg	☼	08/04/20 17:04	08/12/20 14:57	1
Toluene	<0.00041		0.0016	0.00041	mg/Kg	☼	08/04/20 17:04	08/12/20 14:57	1
trans-1,2-Dichloroethene	<0.00072		0.0016	0.00072	mg/Kg	☼	08/04/20 17:04	08/12/20 14:57	1
trans-1,3-Dichloropropene	<0.00057		0.0016	0.00057	mg/Kg	☼	08/04/20 17:04	08/12/20 14:57	1
1,1,1-Trichloroethane	<0.00054		0.0016	0.00054	mg/Kg	☼	08/04/20 17:04	08/12/20 14:57	1
1,1,2-Trichloroethane	<0.00070		0.0016	0.00070	mg/Kg	☼	08/04/20 17:04	08/12/20 14:57	1
Trichloroethene	<0.00055		0.0016	0.00055	mg/Kg	☼	08/04/20 17:04	08/12/20 14:57	1
Vinyl acetate	<0.0014		0.0041	0.0014	mg/Kg	☼	08/04/20 17:04	08/12/20 14:57	1
Vinyl chloride	<0.00072		0.0016	0.00072	mg/Kg	☼	08/04/20 17:04	08/12/20 14:57	1
Xylenes, Total	<0.00052		0.0032	0.00052	mg/Kg	☼	08/04/20 17:04	08/12/20 14:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		75 - 131	08/04/20 17:04	08/12/20 14:57	1
Dibromofluoromethane	103		75 - 126	08/04/20 17:04	08/12/20 14:57	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	08/04/20 17:04	08/12/20 14:57	1
Toluene-d8 (Surr)	91		75 - 124	08/04/20 17:04	08/12/20 14:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0069		0.038	0.0069	mg/Kg	☼	08/13/20 20:59	08/14/20 15:47	1
Acenaphthylene	<0.0051		0.038	0.0051	mg/Kg	☼	08/13/20 20:59	08/14/20 15:47	1
Anthracene	<0.0064		0.038	0.0064	mg/Kg	☼	08/13/20 20:59	08/14/20 15:47	1
Benzo[a]anthracene	<0.0052		0.038	0.0052	mg/Kg	☼	08/13/20 20:59	08/14/20 15:47	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

Client Sample ID: 2412V2-4-B02 (0-5)

Lab Sample ID: 500-185870-3

Date Collected: 08/03/20 09:10

Matrix: Solid

Date Received: 08/03/20 18:25

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	<0.0075		0.038	0.0075	mg/Kg	☼	08/13/20 20:59	08/14/20 15:47	1
Benzo[b]fluoranthene	<0.0083		0.038	0.0083	mg/Kg	☼	08/13/20 20:59	08/14/20 15:47	1
Benzo[g,h,i]perylene	<0.012		0.038	0.012	mg/Kg	☼	08/13/20 20:59	08/14/20 15:47	1
Benzo[k]fluoranthene	<0.011		0.038	0.011	mg/Kg	☼	08/13/20 20:59	08/14/20 15:47	1
Bis(2-chloroethoxy)methane	<0.039		0.19	0.039	mg/Kg	☼	08/13/20 20:59	08/14/20 15:47	1
Bis(2-chloroethyl)ether	<0.058		0.19	0.058	mg/Kg	☼	08/13/20 20:59	08/14/20 15:47	1
Bis(2-ethylhexyl) phthalate	<0.070		0.19	0.070	mg/Kg	☼	08/13/20 20:59	08/14/20 15:47	1
4-Bromophenyl phenyl ether	<0.051		0.19	0.051	mg/Kg	☼	08/13/20 20:59	08/14/20 15:47	1
Butyl benzyl phthalate	<0.073		0.19	0.073	mg/Kg	☼	08/13/20 20:59	08/14/20 15:47	1
Carbazole	<0.096		0.19	0.096	mg/Kg	☼	08/13/20 20:59	08/14/20 15:47	1
4-Chloroaniline	<0.18		0.78	0.18	mg/Kg	☼	08/13/20 20:59	08/14/20 15:47	1
4-Chloro-3-methylphenol	<0.13		0.38	0.13	mg/Kg	☼	08/13/20 20:59	08/14/20 15:47	1
2-Chloronaphthalene	<0.043		0.19	0.043	mg/Kg	☼	08/13/20 20:59	08/14/20 15:47	1
2-Chlorophenol	<0.066		0.19	0.066	mg/Kg	☼	08/13/20 20:59	08/14/20 15:47	1
4-Chlorophenyl phenyl ether	<0.045		0.19	0.045	mg/Kg	☼	08/13/20 20:59	08/14/20 15:47	1
Chrysene	<0.010		0.038	0.010	mg/Kg	☼	08/13/20 20:59	08/14/20 15:47	1
Dibenz(a,h)anthracene	<0.0074		0.038	0.0074	mg/Kg	☼	08/13/20 20:59	08/14/20 15:47	1
Dibenzofuran	<0.045		0.19	0.045	mg/Kg	☼	08/13/20 20:59	08/14/20 15:47	1
1,2-Dichlorobenzene	<0.046		0.19	0.046	mg/Kg	☼	08/13/20 20:59	08/14/20 15:47	1
1,3-Dichlorobenzene	<0.043		0.19	0.043	mg/Kg	☼	08/13/20 20:59	08/14/20 15:47	1
1,4-Dichlorobenzene	<0.049		0.19	0.049	mg/Kg	☼	08/13/20 20:59	08/14/20 15:47	1
3,3'-Dichlorobenzidine	<0.054		0.19	0.054	mg/Kg	☼	08/13/20 20:59	08/14/20 15:47	1
2,4-Dichlorophenol	<0.091		0.38	0.091	mg/Kg	☼	08/13/20 20:59	08/14/20 15:47	1
Diethyl phthalate	<0.065		0.19	0.065	mg/Kg	☼	08/13/20 20:59	08/14/20 15:47	1
2,4-Dimethylphenol	<0.15		0.38	0.15	mg/Kg	☼	08/13/20 20:59	08/14/20 15:47	1
Dimethyl phthalate	<0.050		0.19	0.050	mg/Kg	☼	08/13/20 20:59	08/14/20 15:47	1
Di-n-butyl phthalate	<0.059		0.19	0.059	mg/Kg	☼	08/13/20 20:59	08/14/20 15:47	1
4,6-Dinitro-2-methylphenol	<0.31		0.78	0.31	mg/Kg	☼	08/13/20 20:59	08/14/20 15:47	1
2,4-Dinitrophenol	<0.68		0.78	0.68	mg/Kg	☼	08/13/20 20:59	08/14/20 15:47	1
2,4-Dinitrotoluene	<0.061		0.19	0.061	mg/Kg	☼	08/13/20 20:59	08/14/20 15:47	1
2,6-Dinitrotoluene	<0.076		0.19	0.076	mg/Kg	☼	08/13/20 20:59	08/14/20 15:47	1
Di-n-octyl phthalate	<0.063		0.19	0.063	mg/Kg	☼	08/13/20 20:59	08/14/20 15:47	1
Fluoranthene	<0.0071		0.038	0.0071	mg/Kg	☼	08/13/20 20:59	08/14/20 15:47	1
Fluorene	<0.0054		0.038	0.0054	mg/Kg	☼	08/13/20 20:59	08/14/20 15:47	1
Hexachlorobenzene	<0.0089		0.078	0.0089	mg/Kg	☼	08/13/20 20:59	08/14/20 15:47	1
Hexachlorobutadiene	<0.060		0.19	0.060	mg/Kg	☼	08/13/20 20:59	08/14/20 15:47	1
Hexachlorocyclopentadiene	<0.22		0.78	0.22	mg/Kg	☼	08/13/20 20:59	08/14/20 15:47	1
Hexachloroethane	<0.059		0.19	0.059	mg/Kg	☼	08/13/20 20:59	08/14/20 15:47	1
Indeno[1,2,3-cd]pyrene	<0.010		0.038	0.010	mg/Kg	☼	08/13/20 20:59	08/14/20 15:47	1
Isophorone	<0.043		0.19	0.043	mg/Kg	☼	08/13/20 20:59	08/14/20 15:47	1
2-Methylnaphthalene	<0.0071		0.078	0.0071	mg/Kg	☼	08/13/20 20:59	08/14/20 15:47	1
2-Methylphenol	<0.062		0.19	0.062	mg/Kg	☼	08/13/20 20:59	08/14/20 15:47	1
3 & 4 Methylphenol	<0.064		0.19	0.064	mg/Kg	☼	08/13/20 20:59	08/14/20 15:47	1
Naphthalene	<0.0059		0.038	0.0059	mg/Kg	☼	08/13/20 20:59	08/14/20 15:47	1
2-Nitroaniline	<0.052		0.19	0.052	mg/Kg	☼	08/13/20 20:59	08/14/20 15:47	1
3-Nitroaniline	<0.12		0.38	0.12	mg/Kg	☼	08/13/20 20:59	08/14/20 15:47	1
4-Nitroaniline	<0.16		0.38	0.16	mg/Kg	☼	08/13/20 20:59	08/14/20 15:47	1
Nitrobenzene	<0.0096		0.038	0.0096	mg/Kg	☼	08/13/20 20:59	08/14/20 15:47	1
2-Nitrophenol	<0.091		0.38	0.091	mg/Kg	☼	08/13/20 20:59	08/14/20 15:47	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

Client Sample ID: 2412V2-4-B02 (0-5)

Lab Sample ID: 500-185870-3

Date Collected: 08/03/20 09:10

Matrix: Solid

Date Received: 08/03/20 18:25

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		0.78	0.37	mg/Kg	☼	08/13/20 20:59	08/14/20 15:47	1
N-Nitrosodi-n-propylamine	<0.047		0.078	0.047	mg/Kg	☼	08/13/20 20:59	08/14/20 15:47	1
N-Nitrosodiphenylamine	<0.045		0.19	0.045	mg/Kg	☼	08/13/20 20:59	08/14/20 15:47	1
2,2'-oxybis[1-chloropropane]	<0.045		0.19	0.045	mg/Kg	☼	08/13/20 20:59	08/14/20 15:47	1
Pentachlorophenol	<0.62		0.78	0.62	mg/Kg	☼	08/13/20 20:59	08/14/20 15:47	1
Phenanthrene	<0.0054		0.038	0.0054	mg/Kg	☼	08/13/20 20:59	08/14/20 15:47	1
Phenol	<0.086		0.19	0.086	mg/Kg	☼	08/13/20 20:59	08/14/20 15:47	1
Pyrene	<0.0076		0.038	0.0076	mg/Kg	☼	08/13/20 20:59	08/14/20 15:47	1
1,2,4-Trichlorobenzene	<0.041		0.19	0.041	mg/Kg	☼	08/13/20 20:59	08/14/20 15:47	1
2,4,5-Trichlorophenol	<0.088		0.38	0.088	mg/Kg	☼	08/13/20 20:59	08/14/20 15:47	1
2,4,6-Trichlorophenol	<0.13		0.38	0.13	mg/Kg	☼	08/13/20 20:59	08/14/20 15:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	69		43 - 145	08/13/20 20:59	08/14/20 15:47	1
2-Fluorophenol	82		31 - 166	08/13/20 20:59	08/14/20 15:47	1
Nitrobenzene-d5	69		37 - 147	08/13/20 20:59	08/14/20 15:47	1
Phenol-d5	87		30 - 153	08/13/20 20:59	08/14/20 15:47	1
Terphenyl-d14	92		42 - 157	08/13/20 20:59	08/14/20 15:47	1
2,4,6-Tribromophenol	84		31 - 143	08/13/20 20:59	08/14/20 15:47	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.56	J	1.1	0.22	mg/Kg	☼	08/10/20 06:36	08/12/20 16:16	1
Arsenic	7.0		0.56	0.19	mg/Kg	☼	08/10/20 06:36	08/12/20 16:16	1
Barium	52		0.56	0.064	mg/Kg	☼	08/10/20 06:36	08/12/20 16:16	1
Beryllium	0.72		0.23	0.053	mg/Kg	☼	08/10/20 06:36	08/12/20 16:16	1
Cadmium	0.085	J B	0.11	0.020	mg/Kg	☼	08/10/20 06:36	08/12/20 16:16	1
Chromium	15		0.56	0.28	mg/Kg	☼	08/10/20 06:36	08/12/20 16:16	1
Cobalt	9.0		0.28	0.074	mg/Kg	☼	08/10/20 06:36	08/12/20 16:16	1
Copper	15		0.56	0.16	mg/Kg	☼	08/10/20 06:36	08/12/20 16:16	1
Iron	17000		11	5.9	mg/Kg	☼	08/10/20 06:36	08/12/20 16:16	1
Lead	14		0.28	0.13	mg/Kg	☼	08/10/20 06:36	08/12/20 16:16	1
Magnesium	7600		5.6	2.8	mg/Kg	☼	08/10/20 06:36	08/12/20 16:16	1
Calcium	14000	B	11	1.9	mg/Kg	☼	08/10/20 06:36	08/12/20 16:16	1
Manganese	300		0.56	0.082	mg/Kg	☼	08/10/20 06:36	08/12/20 16:16	1
Nickel	29		0.56	0.16	mg/Kg	☼	08/10/20 06:36	08/12/20 16:16	1
Selenium	<0.33		0.56	0.33	mg/Kg	☼	08/10/20 06:36	08/12/20 16:16	1
Silver	<0.073		0.28	0.073	mg/Kg	☼	08/10/20 06:36	08/12/20 16:16	1
Thallium	<0.28		0.56	0.28	mg/Kg	☼	08/10/20 06:36	08/12/20 16:16	1
Vanadium	23		0.28	0.066	mg/Kg	☼	08/10/20 06:36	08/12/20 16:16	1
Zinc	58		1.1	0.49	mg/Kg	☼	08/10/20 06:36	08/12/20 16:16	1
Potassium	1300		28	10	mg/Kg	☼	08/10/20 06:36	08/12/20 16:16	1
Sodium	1500	B	56	8.3	mg/Kg	☼	08/10/20 06:36	08/12/20 16:16	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/13/20 17:12	08/14/20 02:22	1
Barium	0.41	J	0.50	0.050	mg/L		08/13/20 17:12	08/14/20 02:22	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/13/20 17:12	08/14/20 02:22	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/13/20 17:12	08/14/20 02:22	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

Client Sample ID: 2412V2-4-B02 (0-5)

Lab Sample ID: 500-185870-3

Date Collected: 08/03/20 09:10

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	430		5.0	0.50	mg/L		08/13/20 17:12	08/14/20 02:22	1
Chromium	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:22	1
Cobalt	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:22	1
Copper	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:22	1
Iron	<0.20		0.40	0.20	mg/L		08/13/20 17:12	08/14/20 02:22	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/13/20 17:12	08/14/20 02:22	1
Magnesium	170		2.5	0.50	mg/L		08/13/20 17:12	08/14/20 02:22	1
Manganese	1.2		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:22	1
Nickel	0.011	J	0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:22	1
Potassium	0.94	J	2.5	0.50	mg/L		08/13/20 17:12	08/14/20 02:22	1
Selenium	<0.020		0.050	0.020	mg/L		08/13/20 17:12	08/14/20 02:22	1
Silver	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:22	1
Vanadium	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:22	1
Zinc	<0.020		0.50	0.020	mg/L		08/13/20 17:12	08/14/20 02:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.3		0.025	0.010	mg/L		08/14/20 05:55	08/16/20 21:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/13/20 17:12	08/14/20 10:01	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/13/20 17:12	08/14/20 10:01	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/13/20 14:20	08/14/20 10:22	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.042		0.018	0.0061	mg/Kg	☼	08/11/20 14:25	08/12/20 08:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.14		0.28	0.14	mg/Kg	☼	08/14/20 12:10	08/14/20 15:33	1
pH	8.6		0.2	0.2	SU			08/06/20 19:41	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

Client Sample ID: 2412V2-4-B02 (5-7.5)

Lab Sample ID: 500-185870-4

Date Collected: 08/03/20 09:15

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 91.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0060		0.014	0.0060	mg/Kg	☼	08/04/20 17:04	08/12/20 15:22	1
Benzene	<0.00035		0.0014	0.00035	mg/Kg	☼	08/04/20 17:04	08/12/20 15:22	1
Bromodichloromethane	<0.00028		0.0014	0.00028	mg/Kg	☼	08/04/20 17:04	08/12/20 15:22	1
Bromoform	<0.00040		0.0014	0.00040	mg/Kg	☼	08/04/20 17:04	08/12/20 15:22	1
Bromomethane	<0.0013		0.0034	0.0013	mg/Kg	☼	08/04/20 17:04	08/12/20 15:22	1
2-Butanone (MEK)	<0.0015		0.0034	0.0015	mg/Kg	☼	08/04/20 17:04	08/12/20 15:22	1
Carbon disulfide	<0.00071		0.0034	0.00071	mg/Kg	☼	08/04/20 17:04	08/12/20 15:22	1
Carbon tetrachloride	<0.00040		0.0014	0.00040	mg/Kg	☼	08/04/20 17:04	08/12/20 15:22	1
Chlorobenzene	<0.00050		0.0014	0.00050	mg/Kg	☼	08/04/20 17:04	08/12/20 15:22	1
Chloroethane	<0.0010 *		0.0034	0.0010	mg/Kg	☼	08/04/20 17:04	08/12/20 15:22	1
Chloroform	<0.00047		0.0014	0.00047	mg/Kg	☼	08/04/20 17:04	08/12/20 15:22	1
Chloromethane	<0.0014		0.0034	0.0014	mg/Kg	☼	08/04/20 17:04	08/12/20 15:22	1
cis-1,2-Dichloroethene	<0.00038		0.0014	0.00038	mg/Kg	☼	08/04/20 17:04	08/12/20 15:22	1
cis-1,3-Dichloropropene	<0.00041		0.0014	0.00041	mg/Kg	☼	08/04/20 17:04	08/12/20 15:22	1
Dibromochloromethane	<0.00045		0.0014	0.00045	mg/Kg	☼	08/04/20 17:04	08/12/20 15:22	1
1,1-Dichloroethane	<0.00047		0.0014	0.00047	mg/Kg	☼	08/04/20 17:04	08/12/20 15:22	1
1,2-Dichloroethane	<0.0011		0.0034	0.0011	mg/Kg	☼	08/04/20 17:04	08/12/20 15:22	1
1,1-Dichloroethene	<0.00047		0.0014	0.00047	mg/Kg	☼	08/04/20 17:04	08/12/20 15:22	1
1,2-Dichloropropane	<0.00035		0.0014	0.00035	mg/Kg	☼	08/04/20 17:04	08/12/20 15:22	1
1,3-Dichloropropane, Total	<0.00048		0.0014	0.00048	mg/Kg	☼	08/04/20 17:04	08/12/20 15:22	1
Ethylbenzene	<0.00065		0.0014	0.00065	mg/Kg	☼	08/04/20 17:04	08/12/20 15:22	1
2-Hexanone	<0.0011		0.0034	0.0011	mg/Kg	☼	08/04/20 17:04	08/12/20 15:22	1
Methylene Chloride	<0.0013		0.0034	0.0013	mg/Kg	☼	08/04/20 17:04	08/12/20 15:22	1
4-Methyl-2-pentanone (MIBK)	<0.0010		0.0034	0.0010	mg/Kg	☼	08/04/20 17:04	08/12/20 15:22	1
Methyl tert-butyl ether	<0.00040		0.0014	0.00040	mg/Kg	☼	08/04/20 17:04	08/12/20 15:22	1
Styrene	<0.00041		0.0014	0.00041	mg/Kg	☼	08/04/20 17:04	08/12/20 15:22	1
1,1,2,2-Tetrachloroethane	<0.00044		0.0014	0.00044	mg/Kg	☼	08/04/20 17:04	08/12/20 15:22	1
Tetrachloroethene	<0.00047		0.0014	0.00047	mg/Kg	☼	08/04/20 17:04	08/12/20 15:22	1
Toluene	<0.00035		0.0014	0.00035	mg/Kg	☼	08/04/20 17:04	08/12/20 15:22	1
trans-1,2-Dichloroethene	<0.00061		0.0014	0.00061	mg/Kg	☼	08/04/20 17:04	08/12/20 15:22	1
trans-1,3-Dichloropropene	<0.00048		0.0014	0.00048	mg/Kg	☼	08/04/20 17:04	08/12/20 15:22	1
1,1,1-Trichloroethane	<0.00046		0.0014	0.00046	mg/Kg	☼	08/04/20 17:04	08/12/20 15:22	1
1,1,2-Trichloroethane	<0.00059		0.0014	0.00059	mg/Kg	☼	08/04/20 17:04	08/12/20 15:22	1
Trichloroethene	<0.00046		0.0014	0.00046	mg/Kg	☼	08/04/20 17:04	08/12/20 15:22	1
Vinyl acetate	<0.0012		0.0034	0.0012	mg/Kg	☼	08/04/20 17:04	08/12/20 15:22	1
Vinyl chloride	<0.00060		0.0014	0.00060	mg/Kg	☼	08/04/20 17:04	08/12/20 15:22	1
Xylenes, Total	<0.00044		0.0027	0.00044	mg/Kg	☼	08/04/20 17:04	08/12/20 15:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		75 - 131	08/04/20 17:04	08/12/20 15:22	1
Dibromofluoromethane	102		75 - 126	08/04/20 17:04	08/12/20 15:22	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	08/04/20 17:04	08/12/20 15:22	1
Toluene-d8 (Surr)	89		75 - 124	08/04/20 17:04	08/12/20 15:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0064		0.035	0.0064	mg/Kg	☼	08/13/20 20:59	08/14/20 16:12	1
Acenaphthylene	<0.0047		0.035	0.0047	mg/Kg	☼	08/13/20 20:59	08/14/20 16:12	1
Anthracene	<0.0059		0.035	0.0059	mg/Kg	☼	08/13/20 20:59	08/14/20 16:12	1
Benzo[a]anthracene	<0.0048		0.035	0.0048	mg/Kg	☼	08/13/20 20:59	08/14/20 16:12	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

Client Sample ID: 2412V2-4-B02 (5-7.5)

Lab Sample ID: 500-185870-4

Date Collected: 08/03/20 09:15

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 91.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.0069		0.035	0.0069	mg/Kg	☼	08/13/20 20:59	08/14/20 16:12	1
Benzo[b]fluoranthene	<0.0076		0.035	0.0076	mg/Kg	☼	08/13/20 20:59	08/14/20 16:12	1
Benzo[g,h,i]perylene	<0.011		0.035	0.011	mg/Kg	☼	08/13/20 20:59	08/14/20 16:12	1
Benzo[k]fluoranthene	<0.010		0.035	0.010	mg/Kg	☼	08/13/20 20:59	08/14/20 16:12	1
Bis(2-chloroethoxy)methane	<0.036		0.18	0.036	mg/Kg	☼	08/13/20 20:59	08/14/20 16:12	1
Bis(2-chloroethyl)ether	<0.053		0.18	0.053	mg/Kg	☼	08/13/20 20:59	08/14/20 16:12	1
Bis(2-ethylhexyl) phthalate	<0.065		0.18	0.065	mg/Kg	☼	08/13/20 20:59	08/14/20 16:12	1
4-Bromophenyl phenyl ether	<0.047		0.18	0.047	mg/Kg	☼	08/13/20 20:59	08/14/20 16:12	1
Butyl benzyl phthalate	<0.067		0.18	0.067	mg/Kg	☼	08/13/20 20:59	08/14/20 16:12	1
Carbazole	<0.088		0.18	0.088	mg/Kg	☼	08/13/20 20:59	08/14/20 16:12	1
4-Chloroaniline	<0.17		0.71	0.17	mg/Kg	☼	08/13/20 20:59	08/14/20 16:12	1
4-Chloro-3-methylphenol	<0.12		0.35	0.12	mg/Kg	☼	08/13/20 20:59	08/14/20 16:12	1
2-Chloronaphthalene	<0.039		0.18	0.039	mg/Kg	☼	08/13/20 20:59	08/14/20 16:12	1
2-Chlorophenol	<0.060		0.18	0.060	mg/Kg	☼	08/13/20 20:59	08/14/20 16:12	1
4-Chlorophenyl phenyl ether	<0.041		0.18	0.041	mg/Kg	☼	08/13/20 20:59	08/14/20 16:12	1
Chrysene	<0.0097		0.035	0.0097	mg/Kg	☼	08/13/20 20:59	08/14/20 16:12	1
Dibenz(a,h)anthracene	<0.0068		0.035	0.0068	mg/Kg	☼	08/13/20 20:59	08/14/20 16:12	1
Dibenzofuran	<0.041		0.18	0.041	mg/Kg	☼	08/13/20 20:59	08/14/20 16:12	1
1,2-Dichlorobenzene	<0.042		0.18	0.042	mg/Kg	☼	08/13/20 20:59	08/14/20 16:12	1
1,3-Dichlorobenzene	<0.040		0.18	0.040	mg/Kg	☼	08/13/20 20:59	08/14/20 16:12	1
1,4-Dichlorobenzene	<0.045		0.18	0.045	mg/Kg	☼	08/13/20 20:59	08/14/20 16:12	1
3,3'-Dichlorobenzidine	<0.050		0.18	0.050	mg/Kg	☼	08/13/20 20:59	08/14/20 16:12	1
2,4-Dichlorophenol	<0.084		0.35	0.084	mg/Kg	☼	08/13/20 20:59	08/14/20 16:12	1
Diethyl phthalate	<0.060		0.18	0.060	mg/Kg	☼	08/13/20 20:59	08/14/20 16:12	1
2,4-Dimethylphenol	<0.13		0.35	0.13	mg/Kg	☼	08/13/20 20:59	08/14/20 16:12	1
Dimethyl phthalate	<0.046		0.18	0.046	mg/Kg	☼	08/13/20 20:59	08/14/20 16:12	1
Di-n-butyl phthalate	<0.054		0.18	0.054	mg/Kg	☼	08/13/20 20:59	08/14/20 16:12	1
4,6-Dinitro-2-methylphenol	<0.28		0.71	0.28	mg/Kg	☼	08/13/20 20:59	08/14/20 16:12	1
2,4-Dinitrophenol	<0.62		0.71	0.62	mg/Kg	☼	08/13/20 20:59	08/14/20 16:12	1
2,4-Dinitrotoluene	<0.056		0.18	0.056	mg/Kg	☼	08/13/20 20:59	08/14/20 16:12	1
2,6-Dinitrotoluene	<0.070		0.18	0.070	mg/Kg	☼	08/13/20 20:59	08/14/20 16:12	1
Di-n-octyl phthalate	<0.058		0.18	0.058	mg/Kg	☼	08/13/20 20:59	08/14/20 16:12	1
Fluoranthene	0.0076	J	0.035	0.0066	mg/Kg	☼	08/13/20 20:59	08/14/20 16:12	1
Fluorene	<0.0050		0.035	0.0050	mg/Kg	☼	08/13/20 20:59	08/14/20 16:12	1
Hexachlorobenzene	<0.0082		0.071	0.0082	mg/Kg	☼	08/13/20 20:59	08/14/20 16:12	1
Hexachlorobutadiene	<0.056		0.18	0.056	mg/Kg	☼	08/13/20 20:59	08/14/20 16:12	1
Hexachlorocyclopentadiene	<0.20		0.71	0.20	mg/Kg	☼	08/13/20 20:59	08/14/20 16:12	1
Hexachloroethane	<0.054		0.18	0.054	mg/Kg	☼	08/13/20 20:59	08/14/20 16:12	1
Indeno[1,2,3-cd]pyrene	<0.0092		0.035	0.0092	mg/Kg	☼	08/13/20 20:59	08/14/20 16:12	1
Isophorone	<0.040		0.18	0.040	mg/Kg	☼	08/13/20 20:59	08/14/20 16:12	1
2-Methylnaphthalene	<0.0065		0.071	0.0065	mg/Kg	☼	08/13/20 20:59	08/14/20 16:12	1
2-Methylphenol	<0.057		0.18	0.057	mg/Kg	☼	08/13/20 20:59	08/14/20 16:12	1
3 & 4 Methylphenol	<0.059		0.18	0.059	mg/Kg	☼	08/13/20 20:59	08/14/20 16:12	1
Naphthalene	<0.0054		0.035	0.0054	mg/Kg	☼	08/13/20 20:59	08/14/20 16:12	1
2-Nitroaniline	<0.048		0.18	0.048	mg/Kg	☼	08/13/20 20:59	08/14/20 16:12	1
3-Nitroaniline	<0.11		0.35	0.11	mg/Kg	☼	08/13/20 20:59	08/14/20 16:12	1
4-Nitroaniline	<0.15		0.35	0.15	mg/Kg	☼	08/13/20 20:59	08/14/20 16:12	1
Nitrobenzene	<0.0088		0.035	0.0088	mg/Kg	☼	08/13/20 20:59	08/14/20 16:12	1
2-Nitrophenol	<0.084		0.35	0.084	mg/Kg	☼	08/13/20 20:59	08/14/20 16:12	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

Client Sample ID: 2412V2-4-B02 (5-7.5)

Lab Sample ID: 500-185870-4

Date Collected: 08/03/20 09:15

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 91.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.34		0.71	0.34	mg/Kg	☼	08/13/20 20:59	08/14/20 16:12	1
N-Nitrosodi-n-propylamine	<0.043		0.071	0.043	mg/Kg	☼	08/13/20 20:59	08/14/20 16:12	1
N-Nitrosodiphenylamine	<0.042		0.18	0.042	mg/Kg	☼	08/13/20 20:59	08/14/20 16:12	1
2,2'-oxybis[1-chloropropane]	<0.041		0.18	0.041	mg/Kg	☼	08/13/20 20:59	08/14/20 16:12	1
Pentachlorophenol	<0.57		0.71	0.57	mg/Kg	☼	08/13/20 20:59	08/14/20 16:12	1
Phenanthrene	<0.0049		0.035	0.0049	mg/Kg	☼	08/13/20 20:59	08/14/20 16:12	1
Phenol	<0.079		0.18	0.079	mg/Kg	☼	08/13/20 20:59	08/14/20 16:12	1
Pyrene	0.0074	J	0.035	0.0070	mg/Kg	☼	08/13/20 20:59	08/14/20 16:12	1
1,2,4-Trichlorobenzene	<0.038		0.18	0.038	mg/Kg	☼	08/13/20 20:59	08/14/20 16:12	1
2,4,5-Trichlorophenol	<0.081		0.35	0.081	mg/Kg	☼	08/13/20 20:59	08/14/20 16:12	1
2,4,6-Trichlorophenol	<0.12		0.35	0.12	mg/Kg	☼	08/13/20 20:59	08/14/20 16:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	71		43 - 145				08/13/20 20:59	08/14/20 16:12	1
2-Fluorophenol	82		31 - 166				08/13/20 20:59	08/14/20 16:12	1
Nitrobenzene-d5	70		37 - 147				08/13/20 20:59	08/14/20 16:12	1
Phenol-d5	83		30 - 153				08/13/20 20:59	08/14/20 16:12	1
Terphenyl-d14	89		42 - 157				08/13/20 20:59	08/14/20 16:12	1
2,4,6-Tribromophenol	79		31 - 143				08/13/20 20:59	08/14/20 16:12	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.54	J	1.1	0.21	mg/Kg	☼	08/10/20 06:36	08/12/20 16:19	1
Arsenic	4.7		0.54	0.19	mg/Kg	☼	08/10/20 06:36	08/12/20 16:19	1
Barium	26		0.54	0.062	mg/Kg	☼	08/10/20 06:36	08/12/20 16:19	1
Beryllium	0.45		0.22	0.051	mg/Kg	☼	08/10/20 06:36	08/12/20 16:19	1
Cadmium	0.11	B	0.11	0.020	mg/Kg	☼	08/10/20 06:36	08/12/20 16:19	1
Chromium	9.9		0.54	0.27	mg/Kg	☼	08/10/20 06:36	08/12/20 16:19	1
Cobalt	5.6		0.27	0.071	mg/Kg	☼	08/10/20 06:36	08/12/20 16:19	1
Copper	12		0.54	0.15	mg/Kg	☼	08/10/20 06:36	08/12/20 16:19	1
Iron	12000		11	5.7	mg/Kg	☼	08/10/20 06:36	08/12/20 16:19	1
Lead	7.5		0.27	0.13	mg/Kg	☼	08/10/20 06:36	08/12/20 16:19	1
Magnesium	30000		5.4	2.7	mg/Kg	☼	08/10/20 06:36	08/12/20 16:19	1
Calcium	77000	B	110	18	mg/Kg	☼	08/10/20 06:36	08/12/20 16:23	10
Manganese	260		0.54	0.079	mg/Kg	☼	08/10/20 06:36	08/12/20 16:19	1
Nickel	14		0.54	0.16	mg/Kg	☼	08/10/20 06:36	08/12/20 16:19	1
Selenium	<0.32		0.54	0.32	mg/Kg	☼	08/10/20 06:36	08/12/20 16:19	1
Silver	<0.070		0.27	0.070	mg/Kg	☼	08/10/20 06:36	08/12/20 16:19	1
Thallium	<0.27		0.54	0.27	mg/Kg	☼	08/10/20 06:36	08/12/20 16:19	1
Vanadium	14		0.27	0.064	mg/Kg	☼	08/10/20 06:36	08/12/20 16:19	1
Zinc	43		1.1	0.48	mg/Kg	☼	08/10/20 06:36	08/12/20 16:19	1
Potassium	1400		27	9.6	mg/Kg	☼	08/10/20 06:36	08/12/20 16:19	1
Sodium	690	B	54	8.1	mg/Kg	☼	08/10/20 06:36	08/12/20 16:19	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		08/13/20 17:12	08/14/20 02:26	1
Barium	0.29	J	0.50	0.050	mg/L		08/13/20 17:12	08/14/20 02:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/13/20 17:12	08/14/20 02:26	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/13/20 17:12	08/14/20 02:26	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

Client Sample ID: 2412V2-4-B02 (5-7.5)

Lab Sample ID: 500-185870-4

Date Collected: 08/03/20 09:15

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 91.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	830		25	2.5	mg/L		08/13/20 17:12	08/14/20 08:30	5
Chromium	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:26	1
Cobalt	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:26	1
Copper	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:26	1
Iron	<0.20		0.40	0.20	mg/L		08/13/20 17:12	08/14/20 02:26	1
Lead	0.0088		0.0075	0.0075	mg/L		08/13/20 17:12	08/14/20 08:26	1
Magnesium	63		2.5	0.50	mg/L		08/13/20 17:12	08/14/20 02:26	1
Manganese	1.2		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:26	1
Nickel	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:26	1
Potassium	1.1 J		2.5	0.50	mg/L		08/13/20 17:12	08/14/20 02:26	1
Selenium	<0.020		0.050	0.020	mg/L		08/13/20 17:12	08/14/20 02:26	1
Silver	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:26	1
Vanadium	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:26	1
Zinc	<0.020		0.50	0.020	mg/L		08/13/20 17:12	08/14/20 02:26	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.043		0.0075	0.0075	mg/L		08/14/20 05:55	08/16/20 21:22	1
Manganese	0.53		0.025	0.010	mg/L		08/14/20 05:55	08/16/20 21:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/13/20 17:12	08/14/20 10:03	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/13/20 17:12	08/14/20 10:03	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		08/13/20 14:20	08/14/20 10:24	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0058 J		0.017	0.0058	mg/Kg	☼	08/11/20 14:25	08/12/20 08:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.13		0.26	0.13	mg/Kg	☼	08/14/20 12:10	08/14/20 15:38	1
pH	9.0		0.2	0.2	SU			08/06/20 19:43	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

Client Sample ID: 2412V2-4-B03 (0-5)

Lab Sample ID: 500-185870-5

Date Collected: 08/03/20 09:35

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 81.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0099	J	0.016	0.0068	mg/Kg	☼	08/04/20 17:04	08/12/20 15:48	1
Benzene	<0.00040		0.0016	0.00040	mg/Kg	☼	08/04/20 17:04	08/12/20 15:48	1
Bromodichloromethane	<0.00032		0.0016	0.00032	mg/Kg	☼	08/04/20 17:04	08/12/20 15:48	1
Bromoform	<0.00045		0.0016	0.00045	mg/Kg	☼	08/04/20 17:04	08/12/20 15:48	1
Bromomethane	<0.0015		0.0039	0.0015	mg/Kg	☼	08/04/20 17:04	08/12/20 15:48	1
2-Butanone (MEK)	<0.0017		0.0039	0.0017	mg/Kg	☼	08/04/20 17:04	08/12/20 15:48	1
Carbon disulfide	<0.00081		0.0039	0.00081	mg/Kg	☼	08/04/20 17:04	08/12/20 15:48	1
Carbon tetrachloride	<0.00045		0.0016	0.00045	mg/Kg	☼	08/04/20 17:04	08/12/20 15:48	1
Chlorobenzene	<0.00057		0.0016	0.00057	mg/Kg	☼	08/04/20 17:04	08/12/20 15:48	1
Chloroethane	<0.0011	*	0.0039	0.0011	mg/Kg	☼	08/04/20 17:04	08/12/20 15:48	1
Chloroform	<0.00054		0.0016	0.00054	mg/Kg	☼	08/04/20 17:04	08/12/20 15:48	1
Chloromethane	<0.0016		0.0039	0.0016	mg/Kg	☼	08/04/20 17:04	08/12/20 15:48	1
cis-1,2-Dichloroethene	<0.00043		0.0016	0.00043	mg/Kg	☼	08/04/20 17:04	08/12/20 15:48	1
cis-1,3-Dichloropropene	<0.00047		0.0016	0.00047	mg/Kg	☼	08/04/20 17:04	08/12/20 15:48	1
Dibromochloromethane	<0.00051		0.0016	0.00051	mg/Kg	☼	08/04/20 17:04	08/12/20 15:48	1
1,1-Dichloroethane	<0.00053		0.0016	0.00053	mg/Kg	☼	08/04/20 17:04	08/12/20 15:48	1
1,2-Dichloroethane	<0.0012		0.0039	0.0012	mg/Kg	☼	08/04/20 17:04	08/12/20 15:48	1
1,1-Dichloroethene	<0.00053		0.0016	0.00053	mg/Kg	☼	08/04/20 17:04	08/12/20 15:48	1
1,2-Dichloropropene	<0.00040		0.0016	0.00040	mg/Kg	☼	08/04/20 17:04	08/12/20 15:48	1
1,3-Dichloropropene, Total	<0.00054		0.0016	0.00054	mg/Kg	☼	08/04/20 17:04	08/12/20 15:48	1
Ethylbenzene	<0.00074		0.0016	0.00074	mg/Kg	☼	08/04/20 17:04	08/12/20 15:48	1
2-Hexanone	<0.0012		0.0039	0.0012	mg/Kg	☼	08/04/20 17:04	08/12/20 15:48	1
Methylene Chloride	<0.0015		0.0039	0.0015	mg/Kg	☼	08/04/20 17:04	08/12/20 15:48	1
4-Methyl-2-pentanone (MIBK)	<0.0011		0.0039	0.0011	mg/Kg	☼	08/04/20 17:04	08/12/20 15:48	1
Methyl tert-butyl ether	<0.00046		0.0016	0.00046	mg/Kg	☼	08/04/20 17:04	08/12/20 15:48	1
Styrene	<0.00047		0.0016	0.00047	mg/Kg	☼	08/04/20 17:04	08/12/20 15:48	1
1,1,2,2-Tetrachloroethane	<0.00050		0.0016	0.00050	mg/Kg	☼	08/04/20 17:04	08/12/20 15:48	1
Tetrachloroethene	<0.00053		0.0016	0.00053	mg/Kg	☼	08/04/20 17:04	08/12/20 15:48	1
Toluene	<0.00039		0.0016	0.00039	mg/Kg	☼	08/04/20 17:04	08/12/20 15:48	1
trans-1,2-Dichloroethene	<0.00069		0.0016	0.00069	mg/Kg	☼	08/04/20 17:04	08/12/20 15:48	1
trans-1,3-Dichloropropene	<0.00054		0.0016	0.00054	mg/Kg	☼	08/04/20 17:04	08/12/20 15:48	1
1,1,1-Trichloroethane	<0.00052		0.0016	0.00052	mg/Kg	☼	08/04/20 17:04	08/12/20 15:48	1
1,1,2-Trichloroethane	<0.00067		0.0016	0.00067	mg/Kg	☼	08/04/20 17:04	08/12/20 15:48	1
Trichloroethene	<0.00052		0.0016	0.00052	mg/Kg	☼	08/04/20 17:04	08/12/20 15:48	1
Vinyl acetate	<0.0013		0.0039	0.0013	mg/Kg	☼	08/04/20 17:04	08/12/20 15:48	1
Vinyl chloride	<0.00069		0.0016	0.00069	mg/Kg	☼	08/04/20 17:04	08/12/20 15:48	1
Xylenes, Total	<0.00050		0.0031	0.00050	mg/Kg	☼	08/04/20 17:04	08/12/20 15:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		75 - 131	08/04/20 17:04	08/12/20 15:48	1
Dibromofluoromethane	100		75 - 126	08/04/20 17:04	08/12/20 15:48	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	08/04/20 17:04	08/12/20 15:48	1
Toluene-d8 (Surr)	90		75 - 124	08/04/20 17:04	08/12/20 15:48	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	☼	08/13/20 20:59	08/14/20 12:35	1
Acenaphthylene	<0.0053		0.040	0.0053	mg/Kg	☼	08/13/20 20:59	08/14/20 12:35	1
Anthracene	<0.0067		0.040	0.0067	mg/Kg	☼	08/13/20 20:59	08/14/20 12:35	1
Benzo[a]anthracene	0.038	J	0.040	0.0054	mg/Kg	☼	08/13/20 20:59	08/14/20 12:35	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

Client Sample ID: 2412V2-4-B03 (0-5)

Lab Sample ID: 500-185870-5

Date Collected: 08/03/20 09:35

Matrix: Solid

Date Received: 08/03/20 18:25

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	0.046		0.040	0.0078	mg/Kg	☼	08/13/20 20:59	08/14/20 12:35	1
Benzo[b]fluoranthene	0.059		0.040	0.0087	mg/Kg	☼	08/13/20 20:59	08/14/20 12:35	1
Benzo[g,h,i]perylene	0.034	J	0.040	0.013	mg/Kg	☼	08/13/20 20:59	08/14/20 12:35	1
Benzo[k]fluoranthene	0.026	J	0.040	0.012	mg/Kg	☼	08/13/20 20:59	08/14/20 12:35	1
Bis(2-chloroethoxy)methane	<0.041		0.20	0.041	mg/Kg	☼	08/13/20 20:59	08/14/20 12:35	1
Bis(2-chloroethyl)ether	<0.060		0.20	0.060	mg/Kg	☼	08/13/20 20:59	08/14/20 12:35	1
Bis(2-ethylhexyl) phthalate	<0.073		0.20	0.073	mg/Kg	☼	08/13/20 20:59	08/14/20 12:35	1
4-Bromophenyl phenyl ether	<0.053		0.20	0.053	mg/Kg	☼	08/13/20 20:59	08/14/20 12:35	1
Butyl benzyl phthalate	<0.076		0.20	0.076	mg/Kg	☼	08/13/20 20:59	08/14/20 12:35	1
Carbazole	<0.10		0.20	0.10	mg/Kg	☼	08/13/20 20:59	08/14/20 12:35	1
4-Chloroaniline	<0.19		0.81	0.19	mg/Kg	☼	08/13/20 20:59	08/14/20 12:35	1
4-Chloro-3-methylphenol	<0.14		0.40	0.14	mg/Kg	☼	08/13/20 20:59	08/14/20 12:35	1
2-Chloronaphthalene	<0.044		0.20	0.044	mg/Kg	☼	08/13/20 20:59	08/14/20 12:35	1
2-Chlorophenol	<0.069		0.20	0.069	mg/Kg	☼	08/13/20 20:59	08/14/20 12:35	1
4-Chlorophenyl phenyl ether	<0.047		0.20	0.047	mg/Kg	☼	08/13/20 20:59	08/14/20 12:35	1
Chrysene	0.047		0.040	0.011	mg/Kg	☼	08/13/20 20:59	08/14/20 12:35	1
Dibenz(a,h)anthracene	0.0097	J	0.040	0.0078	mg/Kg	☼	08/13/20 20:59	08/14/20 12:35	1
Dibenzofuran	<0.047		0.20	0.047	mg/Kg	☼	08/13/20 20:59	08/14/20 12:35	1
1,2-Dichlorobenzene	<0.048		0.20	0.048	mg/Kg	☼	08/13/20 20:59	08/14/20 12:35	1
1,3-Dichlorobenzene	<0.045		0.20	0.045	mg/Kg	☼	08/13/20 20:59	08/14/20 12:35	1
1,4-Dichlorobenzene	<0.052		0.20	0.052	mg/Kg	☼	08/13/20 20:59	08/14/20 12:35	1
3,3'-Dichlorobenzidine	<0.056		0.20	0.056	mg/Kg	☼	08/13/20 20:59	08/14/20 12:35	1
2,4-Dichlorophenol	<0.095		0.40	0.095	mg/Kg	☼	08/13/20 20:59	08/14/20 12:35	1
Diethyl phthalate	<0.068		0.20	0.068	mg/Kg	☼	08/13/20 20:59	08/14/20 12:35	1
2,4-Dimethylphenol	<0.15		0.40	0.15	mg/Kg	☼	08/13/20 20:59	08/14/20 12:35	1
Dimethyl phthalate	<0.052		0.20	0.052	mg/Kg	☼	08/13/20 20:59	08/14/20 12:35	1
Di-n-butyl phthalate	<0.061		0.20	0.061	mg/Kg	☼	08/13/20 20:59	08/14/20 12:35	1
4,6-Dinitro-2-methylphenol	<0.32		0.81	0.32	mg/Kg	☼	08/13/20 20:59	08/14/20 12:35	1
2,4-Dinitrophenol	<0.71		0.81	0.71	mg/Kg	☼	08/13/20 20:59	08/14/20 12:35	1
2,4-Dinitrotoluene	<0.064		0.20	0.064	mg/Kg	☼	08/13/20 20:59	08/14/20 12:35	1
2,6-Dinitrotoluene	<0.079		0.20	0.079	mg/Kg	☼	08/13/20 20:59	08/14/20 12:35	1
Di-n-octyl phthalate	<0.066		0.20	0.066	mg/Kg	☼	08/13/20 20:59	08/14/20 12:35	1
Fluoranthene	0.094		0.040	0.0075	mg/Kg	☼	08/13/20 20:59	08/14/20 12:35	1
Fluorene	<0.0056		0.040	0.0056	mg/Kg	☼	08/13/20 20:59	08/14/20 12:35	1
Hexachlorobenzene	<0.0093		0.081	0.0093	mg/Kg	☼	08/13/20 20:59	08/14/20 12:35	1
Hexachlorobutadiene	<0.063		0.20	0.063	mg/Kg	☼	08/13/20 20:59	08/14/20 12:35	1
Hexachlorocyclopentadiene	<0.23		0.81	0.23	mg/Kg	☼	08/13/20 20:59	08/14/20 12:35	1
Hexachloroethane	<0.061		0.20	0.061	mg/Kg	☼	08/13/20 20:59	08/14/20 12:35	1
Indeno[1,2,3-cd]pyrene	0.030	J	0.040	0.010	mg/Kg	☼	08/13/20 20:59	08/14/20 12:35	1
Isophorone	<0.045		0.20	0.045	mg/Kg	☼	08/13/20 20:59	08/14/20 12:35	1
2-Methylnaphthalene	<0.0074		0.081	0.0074	mg/Kg	☼	08/13/20 20:59	08/14/20 12:35	1
2-Methylphenol	<0.064		0.20	0.064	mg/Kg	☼	08/13/20 20:59	08/14/20 12:35	1
3 & 4 Methylphenol	<0.067		0.20	0.067	mg/Kg	☼	08/13/20 20:59	08/14/20 12:35	1
Naphthalene	<0.0062		0.040	0.0062	mg/Kg	☼	08/13/20 20:59	08/14/20 12:35	1
2-Nitroaniline	<0.054		0.20	0.054	mg/Kg	☼	08/13/20 20:59	08/14/20 12:35	1
3-Nitroaniline	<0.12		0.40	0.12	mg/Kg	☼	08/13/20 20:59	08/14/20 12:35	1
4-Nitroaniline	<0.17		0.40	0.17	mg/Kg	☼	08/13/20 20:59	08/14/20 12:35	1
Nitrobenzene	<0.010		0.040	0.010	mg/Kg	☼	08/13/20 20:59	08/14/20 12:35	1
2-Nitrophenol	<0.095		0.40	0.095	mg/Kg	☼	08/13/20 20:59	08/14/20 12:35	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

Client Sample ID: 2412V2-4-B03 (0-5)

Lab Sample ID: 500-185870-5

Date Collected: 08/03/20 09:35

Matrix: Solid

Date Received: 08/03/20 18:25

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	<0.38		0.81	0.38	mg/Kg	☼	08/13/20 20:59	08/14/20 12:35	1
N-Nitrosodi-n-propylamine	<0.049		0.081	0.049	mg/Kg	☼	08/13/20 20:59	08/14/20 12:35	1
N-Nitrosodiphenylamine	<0.047		0.20	0.047	mg/Kg	☼	08/13/20 20:59	08/14/20 12:35	1
2,2'-oxybis[1-chloropropane]	<0.047		0.20	0.047	mg/Kg	☼	08/13/20 20:59	08/14/20 12:35	1
Pentachlorophenol	<0.64		0.81	0.64	mg/Kg	☼	08/13/20 20:59	08/14/20 12:35	1
Phenanthrene	0.029	J	0.040	0.0056	mg/Kg	☼	08/13/20 20:59	08/14/20 12:35	1
Phenol	<0.089		0.20	0.089	mg/Kg	☼	08/13/20 20:59	08/14/20 12:35	1
Pyrene	0.071		0.040	0.0080	mg/Kg	☼	08/13/20 20:59	08/14/20 12:35	1
1,2,4-Trichlorobenzene	<0.043		0.20	0.043	mg/Kg	☼	08/13/20 20:59	08/14/20 12:35	1
2,4,5-Trichlorophenol	<0.092		0.40	0.092	mg/Kg	☼	08/13/20 20:59	08/14/20 12:35	1
2,4,6-Trichlorophenol	<0.14		0.40	0.14	mg/Kg	☼	08/13/20 20:59	08/14/20 12:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	87		43 - 145	08/13/20 20:59	08/14/20 12:35	1
2-Fluorophenol	83		31 - 166	08/13/20 20:59	08/14/20 12:35	1
Nitrobenzene-d5	71		37 - 147	08/13/20 20:59	08/14/20 12:35	1
Phenol-d5	71		30 - 153	08/13/20 20:59	08/14/20 12:35	1
Terphenyl-d14	113		42 - 157	08/13/20 20:59	08/14/20 12:35	1
2,4,6-Tribromophenol	102		31 - 143	08/13/20 20:59	08/14/20 12:35	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.48	J	1.1	0.22	mg/Kg	☼	08/10/20 06:36	08/12/20 16:28	1
Arsenic	6.8		0.56	0.19	mg/Kg	☼	08/10/20 06:36	08/12/20 16:28	1
Barium	62		0.56	0.064	mg/Kg	☼	08/10/20 06:36	08/12/20 16:28	1
Beryllium	0.71		0.23	0.053	mg/Kg	☼	08/10/20 06:36	08/12/20 16:28	1
Cadmium	0.085	J B	0.11	0.020	mg/Kg	☼	08/10/20 06:36	08/12/20 16:28	1
Chromium	15		0.56	0.28	mg/Kg	☼	08/10/20 06:36	08/12/20 16:28	1
Cobalt	8.9		0.28	0.074	mg/Kg	☼	08/10/20 06:36	08/12/20 16:28	1
Copper	14		0.56	0.16	mg/Kg	☼	08/10/20 06:36	08/12/20 16:28	1
Iron	17000		11	5.9	mg/Kg	☼	08/10/20 06:36	08/12/20 16:28	1
Lead	18		0.28	0.13	mg/Kg	☼	08/10/20 06:36	08/12/20 16:28	1
Magnesium	3700		5.6	2.8	mg/Kg	☼	08/10/20 06:36	08/12/20 16:28	1
Calcium	3400	B	11	1.9	mg/Kg	☼	08/10/20 06:36	08/12/20 16:28	1
Manganese	420		0.56	0.082	mg/Kg	☼	08/10/20 06:36	08/12/20 16:28	1
Nickel	22		0.56	0.16	mg/Kg	☼	08/10/20 06:36	08/12/20 16:28	1
Selenium	0.34	J	0.56	0.33	mg/Kg	☼	08/10/20 06:36	08/12/20 16:28	1
Silver	<0.073		0.28	0.073	mg/Kg	☼	08/10/20 06:36	08/12/20 16:28	1
Thallium	0.47	J	0.56	0.28	mg/Kg	☼	08/10/20 06:36	08/12/20 16:28	1
Vanadium	26		0.28	0.067	mg/Kg	☼	08/10/20 06:36	08/12/20 16:28	1
Zinc	61		1.1	0.50	mg/Kg	☼	08/10/20 06:36	08/12/20 16:28	1
Potassium	900		28	10	mg/Kg	☼	08/10/20 06:36	08/12/20 16:28	1
Sodium	2600	B	56	8.4	mg/Kg	☼	08/10/20 06:36	08/12/20 16:28	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		08/13/20 17:12	08/14/20 02:30	1
Barium	0.51		0.50	0.050	mg/L		08/13/20 17:12	08/14/20 02:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/13/20 17:12	08/14/20 02:30	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/13/20 17:12	08/14/20 02:30	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

Client Sample ID: 2412V2-4-B03 (0-5)

Lab Sample ID: 500-185870-5

Date Collected: 08/03/20 09:35

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 81.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	200		5.0	0.50	mg/L		08/13/20 17:12	08/14/20 02:30	1
Chromium	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:30	1
Cobalt	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:30	1
Copper	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:30	1
Iron	<0.20		0.40	0.20	mg/L		08/13/20 17:12	08/14/20 02:30	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/13/20 17:12	08/14/20 02:30	1
Magnesium	98		2.5	0.50	mg/L		08/13/20 17:12	08/14/20 02:30	1
Manganese	2.1		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:30	1
Nickel	0.013	J	0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:30	1
Potassium	1.4	J	2.5	0.50	mg/L		08/13/20 17:12	08/14/20 02:30	1
Selenium	<0.020		0.050	0.020	mg/L		08/13/20 17:12	08/14/20 02:30	1
Silver	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:30	1
Vanadium	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:30	1
Zinc	0.075	J	0.50	0.020	mg/L		08/13/20 17:12	08/14/20 02:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.4		0.025	0.010	mg/L		08/14/20 05:55	08/16/20 21:26	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		08/13/20 17:12	08/14/20 10:05	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/13/20 17:12	08/14/20 10:05	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/13/20 14:20	08/14/20 10:27	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.019	0.0063	mg/Kg	☼	08/11/20 14:25	08/12/20 08:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.17	J	0.29	0.14	mg/Kg	☼	08/14/20 12:10	08/14/20 15:40	1
pH	7.8		0.2	0.2	SU			08/06/20 19:46	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

Client Sample ID: 2412V2-4-B03 (5-7.5)

Lab Sample ID: 500-185870-6

Date Collected: 08/03/20 09:40

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0072		0.017	0.0072	mg/Kg	☼	08/04/20 17:04	08/12/20 16:14	1
Benzene	<0.00042		0.0017	0.00042	mg/Kg	☼	08/04/20 17:04	08/12/20 16:14	1
Bromodichloromethane	<0.00034		0.0017	0.00034	mg/Kg	☼	08/04/20 17:04	08/12/20 16:14	1
Bromoform	<0.00049		0.0017	0.00049	mg/Kg	☼	08/04/20 17:04	08/12/20 16:14	1
Bromomethane	<0.0016		0.0042	0.0016	mg/Kg	☼	08/04/20 17:04	08/12/20 16:14	1
2-Butanone (MEK)	<0.0018		0.0042	0.0018	mg/Kg	☼	08/04/20 17:04	08/12/20 16:14	1
Carbon disulfide	<0.00086		0.0042	0.00086	mg/Kg	☼	08/04/20 17:04	08/12/20 16:14	1
Carbon tetrachloride	<0.00048		0.0017	0.00048	mg/Kg	☼	08/04/20 17:04	08/12/20 16:14	1
Chlorobenzene	<0.00061		0.0017	0.00061	mg/Kg	☼	08/04/20 17:04	08/12/20 16:14	1
Chloroethane	<0.0012 *		0.0042	0.0012	mg/Kg	☼	08/04/20 17:04	08/12/20 16:14	1
Chloroform	<0.00058		0.0017	0.00058	mg/Kg	☼	08/04/20 17:04	08/12/20 16:14	1
Chloromethane	<0.0017		0.0042	0.0017	mg/Kg	☼	08/04/20 17:04	08/12/20 16:14	1
cis-1,2-Dichloroethene	<0.00046		0.0017	0.00046	mg/Kg	☼	08/04/20 17:04	08/12/20 16:14	1
cis-1,3-Dichloropropene	<0.00050		0.0017	0.00050	mg/Kg	☼	08/04/20 17:04	08/12/20 16:14	1
Dibromochloromethane	<0.00054		0.0017	0.00054	mg/Kg	☼	08/04/20 17:04	08/12/20 16:14	1
1,1-Dichloroethane	<0.00057		0.0017	0.00057	mg/Kg	☼	08/04/20 17:04	08/12/20 16:14	1
1,2-Dichloroethane	<0.0013		0.0042	0.0013	mg/Kg	☼	08/04/20 17:04	08/12/20 16:14	1
1,1-Dichloroethene	<0.00057		0.0017	0.00057	mg/Kg	☼	08/04/20 17:04	08/12/20 16:14	1
1,2-Dichloropropane	<0.00043		0.0017	0.00043	mg/Kg	☼	08/04/20 17:04	08/12/20 16:14	1
1,3-Dichloropropane, Total	<0.00058		0.0017	0.00058	mg/Kg	☼	08/04/20 17:04	08/12/20 16:14	1
Ethylbenzene	<0.00080		0.0017	0.00080	mg/Kg	☼	08/04/20 17:04	08/12/20 16:14	1
2-Hexanone	<0.0013		0.0042	0.0013	mg/Kg	☼	08/04/20 17:04	08/12/20 16:14	1
Methylene Chloride	<0.0016		0.0042	0.0016	mg/Kg	☼	08/04/20 17:04	08/12/20 16:14	1
4-Methyl-2-pentanone (MIBK)	<0.0012		0.0042	0.0012	mg/Kg	☼	08/04/20 17:04	08/12/20 16:14	1
Methyl tert-butyl ether	<0.00049		0.0017	0.00049	mg/Kg	☼	08/04/20 17:04	08/12/20 16:14	1
Styrene	<0.00050		0.0017	0.00050	mg/Kg	☼	08/04/20 17:04	08/12/20 16:14	1
1,1,2,2-Tetrachloroethane	<0.00053		0.0017	0.00053	mg/Kg	☼	08/04/20 17:04	08/12/20 16:14	1
Tetrachloroethene	<0.00057		0.0017	0.00057	mg/Kg	☼	08/04/20 17:04	08/12/20 16:14	1
Toluene	<0.00042		0.0017	0.00042	mg/Kg	☼	08/04/20 17:04	08/12/20 16:14	1
trans-1,2-Dichloroethene	<0.00074		0.0017	0.00074	mg/Kg	☼	08/04/20 17:04	08/12/20 16:14	1
trans-1,3-Dichloropropene	<0.00058		0.0017	0.00058	mg/Kg	☼	08/04/20 17:04	08/12/20 16:14	1
1,1,1-Trichloroethane	<0.00056		0.0017	0.00056	mg/Kg	☼	08/04/20 17:04	08/12/20 16:14	1
1,1,2-Trichloroethane	<0.00071		0.0017	0.00071	mg/Kg	☼	08/04/20 17:04	08/12/20 16:14	1
Trichloroethene	<0.00056		0.0017	0.00056	mg/Kg	☼	08/04/20 17:04	08/12/20 16:14	1
Vinyl acetate	<0.0014		0.0042	0.0014	mg/Kg	☼	08/04/20 17:04	08/12/20 16:14	1
Vinyl chloride	<0.00074		0.0017	0.00074	mg/Kg	☼	08/04/20 17:04	08/12/20 16:14	1
Xylenes, Total	<0.00053		0.0033	0.00053	mg/Kg	☼	08/04/20 17:04	08/12/20 16:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		75 - 131	08/04/20 17:04	08/12/20 16:14	1
Dibromofluoromethane	106		75 - 126	08/04/20 17:04	08/12/20 16:14	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	08/04/20 17:04	08/12/20 16:14	1
Toluene-d8 (Surr)	82		75 - 124	08/04/20 17:04	08/12/20 16:14	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	☼	08/13/20 20:59	08/14/20 12:08	1
Acenaphthylene	<0.0051		0.039	0.0051	mg/Kg	☼	08/13/20 20:59	08/14/20 12:08	1
Anthracene	<0.0065		0.039	0.0065	mg/Kg	☼	08/13/20 20:59	08/14/20 12:08	1
Benzo[a]anthracene	<0.0052		0.039	0.0052	mg/Kg	☼	08/13/20 20:59	08/14/20 12:08	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

Client Sample ID: 2412V2-4-B03 (5-7.5)

Lab Sample ID: 500-185870-6

Date Collected: 08/03/20 09:40

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.0075		0.039	0.0075	mg/Kg	☼	08/13/20 20:59	08/14/20 12:08	1
Benzo[b]fluoranthene	<0.0084		0.039	0.0084	mg/Kg	☼	08/13/20 20:59	08/14/20 12:08	1
Benzo[g,h,i]perylene	<0.013		0.039	0.013	mg/Kg	☼	08/13/20 20:59	08/14/20 12:08	1
Benzo[k]fluoranthene	<0.011		0.039	0.011	mg/Kg	☼	08/13/20 20:59	08/14/20 12:08	1
Bis(2-chloroethoxy)methane	<0.040		0.20	0.040	mg/Kg	☼	08/13/20 20:59	08/14/20 12:08	1
Bis(2-chloroethyl)ether	<0.058		0.20	0.058	mg/Kg	☼	08/13/20 20:59	08/14/20 12:08	1
Bis(2-ethylhexyl) phthalate	<0.071		0.20	0.071	mg/Kg	☼	08/13/20 20:59	08/14/20 12:08	1
4-Bromophenyl phenyl ether	<0.051		0.20	0.051	mg/Kg	☼	08/13/20 20:59	08/14/20 12:08	1
Butyl benzyl phthalate	<0.074		0.20	0.074	mg/Kg	☼	08/13/20 20:59	08/14/20 12:08	1
Carbazole	<0.097		0.20	0.097	mg/Kg	☼	08/13/20 20:59	08/14/20 12:08	1
4-Chloroaniline	<0.18		0.79	0.18	mg/Kg	☼	08/13/20 20:59	08/14/20 12:08	1
4-Chloro-3-methylphenol	<0.13		0.39	0.13	mg/Kg	☼	08/13/20 20:59	08/14/20 12:08	1
2-Chloronaphthalene	<0.043		0.20	0.043	mg/Kg	☼	08/13/20 20:59	08/14/20 12:08	1
2-Chlorophenol	<0.067		0.20	0.067	mg/Kg	☼	08/13/20 20:59	08/14/20 12:08	1
4-Chlorophenyl phenyl ether	<0.046		0.20	0.046	mg/Kg	☼	08/13/20 20:59	08/14/20 12:08	1
Chrysene	<0.011		0.039	0.011	mg/Kg	☼	08/13/20 20:59	08/14/20 12:08	1
Dibenz(a,h)anthracene	<0.0075		0.039	0.0075	mg/Kg	☼	08/13/20 20:59	08/14/20 12:08	1
Dibenzofuran	<0.046		0.20	0.046	mg/Kg	☼	08/13/20 20:59	08/14/20 12:08	1
1,2-Dichlorobenzene	<0.047		0.20	0.047	mg/Kg	☼	08/13/20 20:59	08/14/20 12:08	1
1,3-Dichlorobenzene	<0.044		0.20	0.044	mg/Kg	☼	08/13/20 20:59	08/14/20 12:08	1
1,4-Dichlorobenzene	<0.050		0.20	0.050	mg/Kg	☼	08/13/20 20:59	08/14/20 12:08	1
3,3'-Dichlorobenzidine	<0.055		0.20	0.055	mg/Kg	☼	08/13/20 20:59	08/14/20 12:08	1
2,4-Dichlorophenol	<0.093		0.39	0.093	mg/Kg	☼	08/13/20 20:59	08/14/20 12:08	1
Diethyl phthalate	<0.066		0.20	0.066	mg/Kg	☼	08/13/20 20:59	08/14/20 12:08	1
2,4-Dimethylphenol	<0.15		0.39	0.15	mg/Kg	☼	08/13/20 20:59	08/14/20 12:08	1
Dimethyl phthalate	<0.051		0.20	0.051	mg/Kg	☼	08/13/20 20:59	08/14/20 12:08	1
Di-n-butyl phthalate	<0.059		0.20	0.059	mg/Kg	☼	08/13/20 20:59	08/14/20 12:08	1
4,6-Dinitro-2-methylphenol	<0.31		0.79	0.31	mg/Kg	☼	08/13/20 20:59	08/14/20 12:08	1
2,4-Dinitrophenol	<0.69		0.79	0.69	mg/Kg	☼	08/13/20 20:59	08/14/20 12:08	1
2,4-Dinitrotoluene	<0.062		0.20	0.062	mg/Kg	☼	08/13/20 20:59	08/14/20 12:08	1
2,6-Dinitrotoluene	<0.077		0.20	0.077	mg/Kg	☼	08/13/20 20:59	08/14/20 12:08	1
Di-n-octyl phthalate	<0.064		0.20	0.064	mg/Kg	☼	08/13/20 20:59	08/14/20 12:08	1
Fluoranthene	<0.0072		0.039	0.0072	mg/Kg	☼	08/13/20 20:59	08/14/20 12:08	1
Fluorene	<0.0055		0.039	0.0055	mg/Kg	☼	08/13/20 20:59	08/14/20 12:08	1
Hexachlorobenzene	<0.0090		0.079	0.0090	mg/Kg	☼	08/13/20 20:59	08/14/20 12:08	1
Hexachlorobutadiene	<0.061		0.20	0.061	mg/Kg	☼	08/13/20 20:59	08/14/20 12:08	1
Hexachlorocyclopentadiene	<0.22		0.79	0.22	mg/Kg	☼	08/13/20 20:59	08/14/20 12:08	1
Hexachloroethane	<0.059		0.20	0.059	mg/Kg	☼	08/13/20 20:59	08/14/20 12:08	1
Indeno[1,2,3-cd]pyrene	<0.010		0.039	0.010	mg/Kg	☼	08/13/20 20:59	08/14/20 12:08	1
Isophorone	<0.044		0.20	0.044	mg/Kg	☼	08/13/20 20:59	08/14/20 12:08	1
2-Methylnaphthalene	<0.0072		0.079	0.0072	mg/Kg	☼	08/13/20 20:59	08/14/20 12:08	1
2-Methylphenol	<0.063		0.20	0.063	mg/Kg	☼	08/13/20 20:59	08/14/20 12:08	1
3 & 4 Methylphenol	<0.065		0.20	0.065	mg/Kg	☼	08/13/20 20:59	08/14/20 12:08	1
Naphthalene	<0.0060		0.039	0.0060	mg/Kg	☼	08/13/20 20:59	08/14/20 12:08	1
2-Nitroaniline	<0.052		0.20	0.052	mg/Kg	☼	08/13/20 20:59	08/14/20 12:08	1
3-Nitroaniline	<0.12		0.39	0.12	mg/Kg	☼	08/13/20 20:59	08/14/20 12:08	1
4-Nitroaniline	<0.16		0.39	0.16	mg/Kg	☼	08/13/20 20:59	08/14/20 12:08	1
Nitrobenzene	<0.0097		0.039	0.0097	mg/Kg	☼	08/13/20 20:59	08/14/20 12:08	1
2-Nitrophenol	<0.092		0.39	0.092	mg/Kg	☼	08/13/20 20:59	08/14/20 12:08	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

Client Sample ID: 2412V2-4-B03 (5-7.5)

Lab Sample ID: 500-185870-6

Date Collected: 08/03/20 09:40

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 84.3

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	☼	08/13/20 20:59	08/14/20 12:08	1
N-Nitrosodi-n-propylamine	<0.048		0.079	0.048	mg/Kg	☼	08/13/20 20:59	08/14/20 12:08	1
N-Nitrosodiphenylamine	<0.046		0.20	0.046	mg/Kg	☼	08/13/20 20:59	08/14/20 12:08	1
2,2'-oxybis[1-chloropropane]	<0.045		0.20	0.045	mg/Kg	☼	08/13/20 20:59	08/14/20 12:08	1
Pentachlorophenol	<0.63		0.79	0.63	mg/Kg	☼	08/13/20 20:59	08/14/20 12:08	1
Phenanthrene	<0.0054		0.039	0.0054	mg/Kg	☼	08/13/20 20:59	08/14/20 12:08	1
Phenol	<0.087		0.20	0.087	mg/Kg	☼	08/13/20 20:59	08/14/20 12:08	1
Pyrene	<0.0077		0.039	0.0077	mg/Kg	☼	08/13/20 20:59	08/14/20 12:08	1
1,2,4-Trichlorobenzene	<0.042		0.20	0.042	mg/Kg	☼	08/13/20 20:59	08/14/20 12:08	1
2,4,5-Trichlorophenol	<0.089		0.39	0.089	mg/Kg	☼	08/13/20 20:59	08/14/20 12:08	1
2,4,6-Trichlorophenol	<0.13		0.39	0.13	mg/Kg	☼	08/13/20 20:59	08/14/20 12:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	70		43 - 145	08/13/20 20:59	08/14/20 12:08	1
2-Fluorophenol	70		31 - 166	08/13/20 20:59	08/14/20 12:08	1
Nitrobenzene-d5	56		37 - 147	08/13/20 20:59	08/14/20 12:08	1
Phenol-d5	62		30 - 153	08/13/20 20:59	08/14/20 12:08	1
Terphenyl-d14	105		42 - 157	08/13/20 20:59	08/14/20 12:08	1
2,4,6-Tribromophenol	101		31 - 143	08/13/20 20:59	08/14/20 12:08	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.48	J	1.2	0.23	mg/Kg	☼	08/10/20 06:36	08/12/20 16:31	1
Arsenic	9.0		0.59	0.20	mg/Kg	☼	08/10/20 06:36	08/12/20 16:31	1
Barium	60		0.59	0.067	mg/Kg	☼	08/10/20 06:36	08/12/20 16:31	1
Beryllium	0.60		0.24	0.055	mg/Kg	☼	08/10/20 06:36	08/12/20 16:31	1
Cadmium	0.079	J B	0.12	0.021	mg/Kg	☼	08/10/20 06:36	08/12/20 16:31	1
Chromium	12		0.59	0.29	mg/Kg	☼	08/10/20 06:36	08/12/20 16:31	1
Cobalt	9.8		0.29	0.077	mg/Kg	☼	08/10/20 06:36	08/12/20 16:31	1
Copper	13		0.59	0.16	mg/Kg	☼	08/10/20 06:36	08/12/20 16:31	1
Iron	15000		12	6.1	mg/Kg	☼	08/10/20 06:36	08/12/20 16:31	1
Lead	14		0.29	0.14	mg/Kg	☼	08/10/20 06:36	08/12/20 16:31	1
Magnesium	7700		5.9	2.9	mg/Kg	☼	08/10/20 06:36	08/12/20 16:31	1
Calcium	11000	B	12	2.0	mg/Kg	☼	08/10/20 06:36	08/12/20 16:31	1
Manganese	480		0.59	0.085	mg/Kg	☼	08/10/20 06:36	08/12/20 16:31	1
Nickel	20		0.59	0.17	mg/Kg	☼	08/10/20 06:36	08/12/20 16:31	1
Selenium	<0.35		0.59	0.35	mg/Kg	☼	08/10/20 06:36	08/12/20 16:31	1
Silver	<0.076		0.29	0.076	mg/Kg	☼	08/10/20 06:36	08/12/20 16:31	1
Thallium	<0.29		0.59	0.29	mg/Kg	☼	08/10/20 06:36	08/12/20 16:31	1
Vanadium	23		0.29	0.069	mg/Kg	☼	08/10/20 06:36	08/12/20 16:31	1
Zinc	50		1.2	0.52	mg/Kg	☼	08/10/20 06:36	08/12/20 16:31	1
Potassium	790		29	10	mg/Kg	☼	08/10/20 06:36	08/12/20 16:31	1
Sodium	2100	B	59	8.7	mg/Kg	☼	08/10/20 06:36	08/12/20 16:31	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		08/13/20 17:12	08/14/20 02:34	1
Barium	0.68		0.50	0.050	mg/L		08/13/20 17:12	08/14/20 02:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/13/20 17:12	08/14/20 02:34	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/13/20 17:12	08/14/20 02:34	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

Client Sample ID: 2412V2-4-B03 (5-7.5)

Lab Sample ID: 500-185870-6

Date Collected: 08/03/20 09:40

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 84.3

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		08/13/20 17:12	08/14/20 02:34	1
Chromium	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:34	1
Cobalt	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:34	1
Copper	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:34	1
Iron	<0.20		0.40	0.20	mg/L		08/13/20 17:12	08/14/20 02:34	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/13/20 17:12	08/14/20 02:34	1
Magnesium	130		2.5	0.50	mg/L		08/13/20 17:12	08/14/20 02:34	1
Manganese	0.98		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:34	1
Nickel	0.010	J	0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:34	1
Potassium	0.81	J	2.5	0.50	mg/L		08/13/20 17:12	08/14/20 02:34	1
Selenium	<0.020		0.050	0.020	mg/L		08/13/20 17:12	08/14/20 02:34	1
Silver	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:34	1
Vanadium	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:34	1
Zinc	<0.020		0.50	0.020	mg/L		08/13/20 17:12	08/14/20 02:34	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		08/14/20 05:55	08/16/20 21:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/13/20 17:12	08/14/20 10:07	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/13/20 17:12	08/14/20 10:07	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		08/13/20 14:20	08/14/20 10:29	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018		0.018	0.0061	mg/Kg	☼	08/11/20 14:25	08/12/20 08:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.13		0.26	0.13	mg/Kg	☼	08/14/20 12:10	08/14/20 15:41	1
pH	8.5		0.2	0.2	SU			08/06/20 19:48	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

Client Sample ID: 2412V2-4-B04 (0-5)

Lab Sample ID: 500-185870-7

Date Collected: 08/03/20 10:05

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 92.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0071		0.016	0.0071	mg/Kg	☼	08/04/20 17:04	08/12/20 16:39	1
Benzene	<0.00042		0.0016	0.00042	mg/Kg	☼	08/04/20 17:04	08/12/20 16:39	1
Bromodichloromethane	<0.00033		0.0016	0.00033	mg/Kg	☼	08/04/20 17:04	08/12/20 16:39	1
Bromoform	<0.00048		0.0016	0.00048	mg/Kg	☼	08/04/20 17:04	08/12/20 16:39	1
Bromomethane	<0.0015		0.0041	0.0015	mg/Kg	☼	08/04/20 17:04	08/12/20 16:39	1
2-Butanone (MEK)	<0.0018		0.0041	0.0018	mg/Kg	☼	08/04/20 17:04	08/12/20 16:39	1
Carbon disulfide	<0.00085		0.0041	0.00085	mg/Kg	☼	08/04/20 17:04	08/12/20 16:39	1
Carbon tetrachloride	<0.00047		0.0016	0.00047	mg/Kg	☼	08/04/20 17:04	08/12/20 16:39	1
Chlorobenzene	<0.00060		0.0016	0.00060	mg/Kg	☼	08/04/20 17:04	08/12/20 16:39	1
Chloroethane	<0.0012 *		0.0041	0.0012	mg/Kg	☼	08/04/20 17:04	08/12/20 16:39	1
Chloroform	<0.00057		0.0016	0.00057	mg/Kg	☼	08/04/20 17:04	08/12/20 16:39	1
Chloromethane	<0.0016		0.0041	0.0016	mg/Kg	☼	08/04/20 17:04	08/12/20 16:39	1
cis-1,2-Dichloroethene	<0.00046		0.0016	0.00046	mg/Kg	☼	08/04/20 17:04	08/12/20 16:39	1
cis-1,3-Dichloropropene	<0.00049		0.0016	0.00049	mg/Kg	☼	08/04/20 17:04	08/12/20 16:39	1
Dibromochloromethane	<0.00054		0.0016	0.00054	mg/Kg	☼	08/04/20 17:04	08/12/20 16:39	1
1,1-Dichloroethane	<0.00056		0.0016	0.00056	mg/Kg	☼	08/04/20 17:04	08/12/20 16:39	1
1,2-Dichloroethane	<0.0013		0.0041	0.0013	mg/Kg	☼	08/04/20 17:04	08/12/20 16:39	1
1,1-Dichloroethene	<0.00056		0.0016	0.00056	mg/Kg	☼	08/04/20 17:04	08/12/20 16:39	1
1,2-Dichloropropane	<0.00042		0.0016	0.00042	mg/Kg	☼	08/04/20 17:04	08/12/20 16:39	1
1,3-Dichloropropane, Total	<0.00057		0.0016	0.00057	mg/Kg	☼	08/04/20 17:04	08/12/20 16:39	1
Ethylbenzene	<0.00078		0.0016	0.00078	mg/Kg	☼	08/04/20 17:04	08/12/20 16:39	1
2-Hexanone	<0.0013		0.0041	0.0013	mg/Kg	☼	08/04/20 17:04	08/12/20 16:39	1
Methylene Chloride	<0.0016		0.0041	0.0016	mg/Kg	☼	08/04/20 17:04	08/12/20 16:39	1
4-Methyl-2-pentanone (MIBK)	<0.0012		0.0041	0.0012	mg/Kg	☼	08/04/20 17:04	08/12/20 16:39	1
Methyl tert-butyl ether	<0.00048		0.0016	0.00048	mg/Kg	☼	08/04/20 17:04	08/12/20 16:39	1
Styrene	<0.00049		0.0016	0.00049	mg/Kg	☼	08/04/20 17:04	08/12/20 16:39	1
1,1,2,2-Tetrachloroethane	<0.00052		0.0016	0.00052	mg/Kg	☼	08/04/20 17:04	08/12/20 16:39	1
Tetrachloroethene	<0.00056		0.0016	0.00056	mg/Kg	☼	08/04/20 17:04	08/12/20 16:39	1
Toluene	<0.00041		0.0016	0.00041	mg/Kg	☼	08/04/20 17:04	08/12/20 16:39	1
trans-1,2-Dichloroethene	<0.00072		0.0016	0.00072	mg/Kg	☼	08/04/20 17:04	08/12/20 16:39	1
trans-1,3-Dichloropropene	<0.00057		0.0016	0.00057	mg/Kg	☼	08/04/20 17:04	08/12/20 16:39	1
1,1,1-Trichloroethane	<0.00055		0.0016	0.00055	mg/Kg	☼	08/04/20 17:04	08/12/20 16:39	1
1,1,2-Trichloroethane	<0.00070		0.0016	0.00070	mg/Kg	☼	08/04/20 17:04	08/12/20 16:39	1
Trichloroethene	<0.00055		0.0016	0.00055	mg/Kg	☼	08/04/20 17:04	08/12/20 16:39	1
Vinyl acetate	<0.0014		0.0041	0.0014	mg/Kg	☼	08/04/20 17:04	08/12/20 16:39	1
Vinyl chloride	<0.00072		0.0016	0.00072	mg/Kg	☼	08/04/20 17:04	08/12/20 16:39	1
Xylenes, Total	<0.00052		0.0033	0.00052	mg/Kg	☼	08/04/20 17:04	08/12/20 16:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		75 - 131	08/04/20 17:04	08/12/20 16:39	1
Dibromofluoromethane	106		75 - 126	08/04/20 17:04	08/12/20 16:39	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	08/04/20 17:04	08/12/20 16:39	1
Toluene-d8 (Surr)	90		75 - 124	08/04/20 17:04	08/12/20 16:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0062		0.034	0.0062	mg/Kg	☼	08/13/20 20:59	08/14/20 15:45	1
Acenaphthylene	<0.0045		0.034	0.0045	mg/Kg	☼	08/13/20 20:59	08/14/20 15:45	1
Anthracene	<0.0058		0.034	0.0058	mg/Kg	☼	08/13/20 20:59	08/14/20 15:45	1
Benzo[a]anthracene	0.019	J	0.034	0.0046	mg/Kg	☼	08/13/20 20:59	08/14/20 15:45	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

Client Sample ID: 2412V2-4-B04 (0-5)

Lab Sample ID: 500-185870-7

Date Collected: 08/03/20 10:05

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 92.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.023	J	0.034	0.0067	mg/Kg	☼	08/13/20 20:59	08/14/20 15:45	1
Benzo[b]fluoranthene	0.039		0.034	0.0074	mg/Kg	☼	08/13/20 20:59	08/14/20 15:45	1
Benzo[g,h,i]perylene	<0.011		0.034	0.011	mg/Kg	☼	08/13/20 20:59	08/14/20 15:45	1
Benzo[k]fluoranthene	0.012	J	0.034	0.010	mg/Kg	☼	08/13/20 20:59	08/14/20 15:45	1
Bis(2-chloroethoxy)methane	<0.035		0.17	0.035	mg/Kg	☼	08/13/20 20:59	08/14/20 15:45	1
Bis(2-chloroethyl)ether	<0.052		0.17	0.052	mg/Kg	☼	08/13/20 20:59	08/14/20 15:45	1
Bis(2-ethylhexyl) phthalate	<0.063		0.17	0.063	mg/Kg	☼	08/13/20 20:59	08/14/20 15:45	1
4-Bromophenyl phenyl ether	<0.045		0.17	0.045	mg/Kg	☼	08/13/20 20:59	08/14/20 15:45	1
Butyl benzyl phthalate	<0.066		0.17	0.066	mg/Kg	☼	08/13/20 20:59	08/14/20 15:45	1
Carbazole	<0.086		0.17	0.086	mg/Kg	☼	08/13/20 20:59	08/14/20 15:45	1
4-Chloroaniline	<0.16		0.70	0.16	mg/Kg	☼	08/13/20 20:59	08/14/20 15:45	1
4-Chloro-3-methylphenol	<0.12		0.34	0.12	mg/Kg	☼	08/13/20 20:59	08/14/20 15:45	1
2-Chloronaphthalene	<0.038		0.17	0.038	mg/Kg	☼	08/13/20 20:59	08/14/20 15:45	1
2-Chlorophenol	<0.059		0.17	0.059	mg/Kg	☼	08/13/20 20:59	08/14/20 15:45	1
4-Chlorophenyl phenyl ether	<0.040		0.17	0.040	mg/Kg	☼	08/13/20 20:59	08/14/20 15:45	1
Chrysene	0.023	J	0.034	0.0094	mg/Kg	☼	08/13/20 20:59	08/14/20 15:45	1
Dibenz(a,h)anthracene	<0.0067		0.034	0.0067	mg/Kg	☼	08/13/20 20:59	08/14/20 15:45	1
Dibenzofuran	<0.040		0.17	0.040	mg/Kg	☼	08/13/20 20:59	08/14/20 15:45	1
1,2-Dichlorobenzene	<0.041		0.17	0.041	mg/Kg	☼	08/13/20 20:59	08/14/20 15:45	1
1,3-Dichlorobenzene	<0.039		0.17	0.039	mg/Kg	☼	08/13/20 20:59	08/14/20 15:45	1
1,4-Dichlorobenzene	<0.044		0.17	0.044	mg/Kg	☼	08/13/20 20:59	08/14/20 15:45	1
3,3'-Dichlorobenzidine	<0.048		0.17	0.048	mg/Kg	☼	08/13/20 20:59	08/14/20 15:45	1
2,4-Dichlorophenol	<0.082		0.34	0.082	mg/Kg	☼	08/13/20 20:59	08/14/20 15:45	1
Diethyl phthalate	<0.058		0.17	0.058	mg/Kg	☼	08/13/20 20:59	08/14/20 15:45	1
2,4-Dimethylphenol	<0.13		0.34	0.13	mg/Kg	☼	08/13/20 20:59	08/14/20 15:45	1
Dimethyl phthalate	<0.045		0.17	0.045	mg/Kg	☼	08/13/20 20:59	08/14/20 15:45	1
Di-n-butyl phthalate	<0.053		0.17	0.053	mg/Kg	☼	08/13/20 20:59	08/14/20 15:45	1
4,6-Dinitro-2-methylphenol	<0.28		0.70	0.28	mg/Kg	☼	08/13/20 20:59	08/14/20 15:45	1
2,4-Dinitrophenol	<0.61		0.70	0.61	mg/Kg	☼	08/13/20 20:59	08/14/20 15:45	1
2,4-Dinitrotoluene	<0.055		0.17	0.055	mg/Kg	☼	08/13/20 20:59	08/14/20 15:45	1
2,6-Dinitrotoluene	<0.068		0.17	0.068	mg/Kg	☼	08/13/20 20:59	08/14/20 15:45	1
Di-n-octyl phthalate	<0.056		0.17	0.056	mg/Kg	☼	08/13/20 20:59	08/14/20 15:45	1
Fluoranthene	0.039		0.034	0.0064	mg/Kg	☼	08/13/20 20:59	08/14/20 15:45	1
Fluorene	<0.0048		0.034	0.0048	mg/Kg	☼	08/13/20 20:59	08/14/20 15:45	1
Hexachlorobenzene	<0.0080		0.070	0.0080	mg/Kg	☼	08/13/20 20:59	08/14/20 15:45	1
Hexachlorobutadiene	<0.054		0.17	0.054	mg/Kg	☼	08/13/20 20:59	08/14/20 15:45	1
Hexachlorocyclopentadiene	<0.20		0.70	0.20	mg/Kg	☼	08/13/20 20:59	08/14/20 15:45	1
Hexachloroethane	<0.052		0.17	0.052	mg/Kg	☼	08/13/20 20:59	08/14/20 15:45	1
Indeno[1,2,3-cd]pyrene	0.011	J	0.034	0.0089	mg/Kg	☼	08/13/20 20:59	08/14/20 15:45	1
Isophorone	<0.039		0.17	0.039	mg/Kg	☼	08/13/20 20:59	08/14/20 15:45	1
2-Methylnaphthalene	<0.0063		0.070	0.0063	mg/Kg	☼	08/13/20 20:59	08/14/20 15:45	1
2-Methylphenol	<0.055		0.17	0.055	mg/Kg	☼	08/13/20 20:59	08/14/20 15:45	1
3 & 4 Methylphenol	<0.058		0.17	0.058	mg/Kg	☼	08/13/20 20:59	08/14/20 15:45	1
Naphthalene	<0.0053		0.034	0.0053	mg/Kg	☼	08/13/20 20:59	08/14/20 15:45	1
2-Nitroaniline	<0.046		0.17	0.046	mg/Kg	☼	08/13/20 20:59	08/14/20 15:45	1
3-Nitroaniline	<0.11		0.34	0.11	mg/Kg	☼	08/13/20 20:59	08/14/20 15:45	1
4-Nitroaniline	<0.14		0.34	0.14	mg/Kg	☼	08/13/20 20:59	08/14/20 15:45	1
Nitrobenzene	<0.0086		0.034	0.0086	mg/Kg	☼	08/13/20 20:59	08/14/20 15:45	1
2-Nitrophenol	<0.082		0.34	0.082	mg/Kg	☼	08/13/20 20:59	08/14/20 15:45	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

Client Sample ID: 2412V2-4-B04 (0-5)

Lab Sample ID: 500-185870-7

Date Collected: 08/03/20 10:05

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 92.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.33		0.70	0.33	mg/Kg	☼	08/13/20 20:59	08/14/20 15:45	1
N-Nitrosodi-n-propylamine	<0.042		0.070	0.042	mg/Kg	☼	08/13/20 20:59	08/14/20 15:45	1
N-Nitrosodiphenylamine	<0.041		0.17	0.041	mg/Kg	☼	08/13/20 20:59	08/14/20 15:45	1
2,2'-oxybis[1-chloropropane]	<0.040		0.17	0.040	mg/Kg	☼	08/13/20 20:59	08/14/20 15:45	1
Pentachlorophenol	<0.55		0.70	0.55	mg/Kg	☼	08/13/20 20:59	08/14/20 15:45	1
Phenanthrene	0.013	J	0.034	0.0048	mg/Kg	☼	08/13/20 20:59	08/14/20 15:45	1
Phenol	<0.077		0.17	0.077	mg/Kg	☼	08/13/20 20:59	08/14/20 15:45	1
Pyrene	0.031	J	0.034	0.0069	mg/Kg	☼	08/13/20 20:59	08/14/20 15:45	1
1,2,4-Trichlorobenzene	<0.037		0.17	0.037	mg/Kg	☼	08/13/20 20:59	08/14/20 15:45	1
2,4,5-Trichlorophenol	<0.079		0.34	0.079	mg/Kg	☼	08/13/20 20:59	08/14/20 15:45	1
2,4,6-Trichlorophenol	<0.12		0.34	0.12	mg/Kg	☼	08/13/20 20:59	08/14/20 15:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	87		43 - 145	08/13/20 20:59	08/14/20 15:45	1
2-Fluorophenol	80		31 - 166	08/13/20 20:59	08/14/20 15:45	1
Nitrobenzene-d5	66		37 - 147	08/13/20 20:59	08/14/20 15:45	1
Phenol-d5	66		30 - 153	08/13/20 20:59	08/14/20 15:45	1
Terphenyl-d14	107		42 - 157	08/13/20 20:59	08/14/20 15:45	1
2,4,6-Tribromophenol	109		31 - 143	08/13/20 20:59	08/14/20 15:45	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.34	J	1.1	0.20	mg/Kg	☼	08/10/20 06:36	08/12/20 16:35	1
Arsenic	5.5		0.53	0.18	mg/Kg	☼	08/10/20 06:36	08/12/20 16:35	1
Barium	59		0.53	0.060	mg/Kg	☼	08/10/20 06:36	08/12/20 16:35	1
Beryllium	0.54		0.21	0.049	mg/Kg	☼	08/10/20 06:36	08/12/20 16:35	1
Cadmium	0.11	B	0.11	0.019	mg/Kg	☼	08/10/20 06:36	08/12/20 16:35	1
Chromium	12		0.53	0.26	mg/Kg	☼	08/10/20 06:36	08/12/20 16:35	1
Cobalt	7.6		0.26	0.069	mg/Kg	☼	08/10/20 06:36	08/12/20 16:35	1
Copper	12		0.53	0.15	mg/Kg	☼	08/10/20 06:36	08/12/20 16:35	1
Iron	13000		11	5.5	mg/Kg	☼	08/10/20 06:36	08/12/20 16:35	1
Lead	15		0.26	0.12	mg/Kg	☼	08/10/20 06:36	08/12/20 16:35	1
Magnesium	12000		5.3	2.6	mg/Kg	☼	08/10/20 06:36	08/12/20 16:35	1
Calcium	20000	B	11	1.8	mg/Kg	☼	08/10/20 06:36	08/12/20 16:35	1
Manganese	340		0.53	0.076	mg/Kg	☼	08/10/20 06:36	08/12/20 16:35	1
Nickel	16		0.53	0.15	mg/Kg	☼	08/10/20 06:36	08/12/20 16:35	1
Selenium	<0.31		0.53	0.31	mg/Kg	☼	08/10/20 06:36	08/12/20 16:35	1
Silver	<0.068		0.26	0.068	mg/Kg	☼	08/10/20 06:36	08/12/20 16:35	1
Thallium	0.41	J	0.53	0.26	mg/Kg	☼	08/10/20 06:36	08/12/20 16:35	1
Vanadium	21		0.26	0.062	mg/Kg	☼	08/10/20 06:36	08/12/20 16:35	1
Zinc	47		1.1	0.46	mg/Kg	☼	08/10/20 06:36	08/12/20 16:35	1
Potassium	1000		26	9.3	mg/Kg	☼	08/10/20 06:36	08/12/20 16:35	1
Sodium	310	B	53	7.8	mg/Kg	☼	08/10/20 06:36	08/12/20 16:35	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/13/20 17:12	08/14/20 02:38	1
Barium	0.50		0.50	0.050	mg/L		08/13/20 17:12	08/14/20 02:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/13/20 17:12	08/14/20 02:38	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/13/20 17:12	08/14/20 02:38	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

Client Sample ID: 2412V2-4-B04 (0-5)

Lab Sample ID: 500-185870-7

Date Collected: 08/03/20 10:05

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 92.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	430		5.0	0.50	mg/L		08/13/20 17:12	08/14/20 02:38	1
Chromium	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:38	1
Cobalt	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:38	1
Copper	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:38	1
Iron	<0.20		0.40	0.20	mg/L		08/13/20 17:12	08/14/20 02:38	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/13/20 17:12	08/14/20 02:38	1
Magnesium	140		2.5	0.50	mg/L		08/13/20 17:12	08/14/20 02:38	1
Manganese	0.64		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:38	1
Nickel	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:38	1
Potassium	2.1 J		2.5	0.50	mg/L		08/13/20 17:12	08/14/20 02:38	1
Selenium	<0.020		0.050	0.020	mg/L		08/13/20 17:12	08/14/20 02:38	1
Silver	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:38	1
Vanadium	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:38	1
Zinc	0.030 J		0.50	0.020	mg/L		08/13/20 17:12	08/14/20 02:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.34		0.025	0.010	mg/L		08/14/20 05:55	08/16/20 21:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/13/20 17:12	08/14/20 10:09	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/13/20 17:12	08/14/20 10:09	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/13/20 14:20	08/14/20 10:31	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018		0.018	0.0058	mg/Kg	☼	08/11/20 14:25	08/12/20 08:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.14		0.28	0.14	mg/Kg	☼	08/14/20 12:10	08/14/20 15:43	1
pH	8.5		0.2	0.2	SU			08/06/20 19:51	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

Client Sample ID: 2412V2-4-B04 (0-5) Dup

Lab Sample ID: 500-185870-8

Date Collected: 08/03/20 10:10

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 93.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0071		0.016	0.0071	mg/Kg	☼	08/04/20 17:04	08/12/20 17:05	1
Benzene	<0.00041		0.0016	0.00041	mg/Kg	☼	08/04/20 17:04	08/12/20 17:05	1
Bromodichloromethane	<0.00033		0.0016	0.00033	mg/Kg	☼	08/04/20 17:04	08/12/20 17:05	1
Bromoform	<0.00047		0.0016	0.00047	mg/Kg	☼	08/04/20 17:04	08/12/20 17:05	1
Bromomethane	<0.0015		0.0041	0.0015	mg/Kg	☼	08/04/20 17:04	08/12/20 17:05	1
2-Butanone (MEK)	<0.0018		0.0041	0.0018	mg/Kg	☼	08/04/20 17:04	08/12/20 17:05	1
Carbon disulfide	<0.00085		0.0041	0.00085	mg/Kg	☼	08/04/20 17:04	08/12/20 17:05	1
Carbon tetrachloride	<0.00047		0.0016	0.00047	mg/Kg	☼	08/04/20 17:04	08/12/20 17:05	1
Chlorobenzene	<0.00060		0.0016	0.00060	mg/Kg	☼	08/04/20 17:04	08/12/20 17:05	1
Chloroethane	<0.0012 *		0.0041	0.0012	mg/Kg	☼	08/04/20 17:04	08/12/20 17:05	1
Chloroform	<0.00056		0.0016	0.00056	mg/Kg	☼	08/04/20 17:04	08/12/20 17:05	1
Chloromethane	<0.0016		0.0041	0.0016	mg/Kg	☼	08/04/20 17:04	08/12/20 17:05	1
cis-1,2-Dichloroethene	<0.00045		0.0016	0.00045	mg/Kg	☼	08/04/20 17:04	08/12/20 17:05	1
cis-1,3-Dichloropropene	<0.00049		0.0016	0.00049	mg/Kg	☼	08/04/20 17:04	08/12/20 17:05	1
Dibromochloromethane	<0.00053		0.0016	0.00053	mg/Kg	☼	08/04/20 17:04	08/12/20 17:05	1
1,1-Dichloroethane	<0.00056		0.0016	0.00056	mg/Kg	☼	08/04/20 17:04	08/12/20 17:05	1
1,2-Dichloroethane	<0.0013		0.0041	0.0013	mg/Kg	☼	08/04/20 17:04	08/12/20 17:05	1
1,1-Dichloroethene	<0.00056		0.0016	0.00056	mg/Kg	☼	08/04/20 17:04	08/12/20 17:05	1
1,2-Dichloropropene	<0.00042		0.0016	0.00042	mg/Kg	☼	08/04/20 17:04	08/12/20 17:05	1
1,3-Dichloropropene, Total	<0.00057		0.0016	0.00057	mg/Kg	☼	08/04/20 17:04	08/12/20 17:05	1
Ethylbenzene	<0.00078		0.0016	0.00078	mg/Kg	☼	08/04/20 17:04	08/12/20 17:05	1
2-Hexanone	<0.0013		0.0041	0.0013	mg/Kg	☼	08/04/20 17:04	08/12/20 17:05	1
Methylene Chloride	<0.0016		0.0041	0.0016	mg/Kg	☼	08/04/20 17:04	08/12/20 17:05	1
4-Methyl-2-pentanone (MIBK)	<0.0012		0.0041	0.0012	mg/Kg	☼	08/04/20 17:04	08/12/20 17:05	1
Methyl tert-butyl ether	<0.00048		0.0016	0.00048	mg/Kg	☼	08/04/20 17:04	08/12/20 17:05	1
Styrene	<0.00049		0.0016	0.00049	mg/Kg	☼	08/04/20 17:04	08/12/20 17:05	1
1,1,2,2-Tetrachloroethane	<0.00052		0.0016	0.00052	mg/Kg	☼	08/04/20 17:04	08/12/20 17:05	1
Tetrachloroethene	<0.00055		0.0016	0.00055	mg/Kg	☼	08/04/20 17:04	08/12/20 17:05	1
Toluene	<0.00041		0.0016	0.00041	mg/Kg	☼	08/04/20 17:04	08/12/20 17:05	1
trans-1,2-Dichloroethene	<0.00072		0.0016	0.00072	mg/Kg	☼	08/04/20 17:04	08/12/20 17:05	1
trans-1,3-Dichloropropene	<0.00057		0.0016	0.00057	mg/Kg	☼	08/04/20 17:04	08/12/20 17:05	1
1,1,1-Trichloroethane	<0.00055		0.0016	0.00055	mg/Kg	☼	08/04/20 17:04	08/12/20 17:05	1
1,1,2-Trichloroethane	<0.00070		0.0016	0.00070	mg/Kg	☼	08/04/20 17:04	08/12/20 17:05	1
Trichloroethene	<0.00055		0.0016	0.00055	mg/Kg	☼	08/04/20 17:04	08/12/20 17:05	1
Vinyl acetate	<0.0014		0.0041	0.0014	mg/Kg	☼	08/04/20 17:04	08/12/20 17:05	1
Vinyl chloride	<0.00072		0.0016	0.00072	mg/Kg	☼	08/04/20 17:04	08/12/20 17:05	1
Xylenes, Total	<0.00052		0.0033	0.00052	mg/Kg	☼	08/04/20 17:04	08/12/20 17:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		75 - 131	08/04/20 17:04	08/12/20 17:05	1
Dibromofluoromethane	104		75 - 126	08/04/20 17:04	08/12/20 17:05	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	08/04/20 17:04	08/12/20 17:05	1
Toluene-d8 (Surr)	89		75 - 124	08/04/20 17:04	08/12/20 17:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0063		0.035	0.0063	mg/Kg	☼	08/13/20 20:59	08/14/20 15:18	1
Acenaphthylene	<0.0046		0.035	0.0046	mg/Kg	☼	08/13/20 20:59	08/14/20 15:18	1
Anthracene	<0.0058		0.035	0.0058	mg/Kg	☼	08/13/20 20:59	08/14/20 15:18	1
Benzo[a]anthracene	0.025	J	0.035	0.0047	mg/Kg	☼	08/13/20 20:59	08/14/20 15:18	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

Client Sample ID: 2412V2-4-B04 (0-5) Dup

Lab Sample ID: 500-185870-8

Date Collected: 08/03/20 10:10

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 93.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.027	J	0.035	0.0067	mg/Kg	☼	08/13/20 20:59	08/14/20 15:18	1
Benzo[b]fluoranthene	0.045		0.035	0.0075	mg/Kg	☼	08/13/20 20:59	08/14/20 15:18	1
Benzo[g,h,i]perylene	0.015	J	0.035	0.011	mg/Kg	☼	08/13/20 20:59	08/14/20 15:18	1
Benzo[k]fluoranthene	0.013	J	0.035	0.010	mg/Kg	☼	08/13/20 20:59	08/14/20 15:18	1
Bis(2-chloroethoxy)methane	<0.036		0.18	0.036	mg/Kg	☼	08/13/20 20:59	08/14/20 15:18	1
Bis(2-chloroethyl)ether	<0.052		0.18	0.052	mg/Kg	☼	08/13/20 20:59	08/14/20 15:18	1
Bis(2-ethylhexyl) phthalate	<0.064		0.18	0.064	mg/Kg	☼	08/13/20 20:59	08/14/20 15:18	1
4-Bromophenyl phenyl ether	<0.046		0.18	0.046	mg/Kg	☼	08/13/20 20:59	08/14/20 15:18	1
Butyl benzyl phthalate	<0.066		0.18	0.066	mg/Kg	☼	08/13/20 20:59	08/14/20 15:18	1
Carbazole	<0.087		0.18	0.087	mg/Kg	☼	08/13/20 20:59	08/14/20 15:18	1
4-Chloroaniline	<0.16		0.70	0.16	mg/Kg	☼	08/13/20 20:59	08/14/20 15:18	1
4-Chloro-3-methylphenol	<0.12		0.35	0.12	mg/Kg	☼	08/13/20 20:59	08/14/20 15:18	1
2-Chloronaphthalene	<0.039		0.18	0.039	mg/Kg	☼	08/13/20 20:59	08/14/20 15:18	1
2-Chlorophenol	<0.059		0.18	0.059	mg/Kg	☼	08/13/20 20:59	08/14/20 15:18	1
4-Chlorophenyl phenyl ether	<0.041		0.18	0.041	mg/Kg	☼	08/13/20 20:59	08/14/20 15:18	1
Chrysene	0.025	J	0.035	0.0095	mg/Kg	☼	08/13/20 20:59	08/14/20 15:18	1
Dibenz(a,h)anthracene	<0.0067		0.035	0.0067	mg/Kg	☼	08/13/20 20:59	08/14/20 15:18	1
Dibenzofuran	<0.041		0.18	0.041	mg/Kg	☼	08/13/20 20:59	08/14/20 15:18	1
1,2-Dichlorobenzene	<0.042		0.18	0.042	mg/Kg	☼	08/13/20 20:59	08/14/20 15:18	1
1,3-Dichlorobenzene	<0.039		0.18	0.039	mg/Kg	☼	08/13/20 20:59	08/14/20 15:18	1
1,4-Dichlorobenzene	<0.045		0.18	0.045	mg/Kg	☼	08/13/20 20:59	08/14/20 15:18	1
3,3'-Dichlorobenzidine	<0.049		0.18	0.049	mg/Kg	☼	08/13/20 20:59	08/14/20 15:18	1
2,4-Dichlorophenol	<0.083		0.35	0.083	mg/Kg	☼	08/13/20 20:59	08/14/20 15:18	1
Diethyl phthalate	<0.059		0.18	0.059	mg/Kg	☼	08/13/20 20:59	08/14/20 15:18	1
2,4-Dimethylphenol	<0.13		0.35	0.13	mg/Kg	☼	08/13/20 20:59	08/14/20 15:18	1
Dimethyl phthalate	<0.046		0.18	0.046	mg/Kg	☼	08/13/20 20:59	08/14/20 15:18	1
Di-n-butyl phthalate	<0.053		0.18	0.053	mg/Kg	☼	08/13/20 20:59	08/14/20 15:18	1
4,6-Dinitro-2-methylphenol	<0.28		0.70	0.28	mg/Kg	☼	08/13/20 20:59	08/14/20 15:18	1
2,4-Dinitrophenol	<0.61		0.70	0.61	mg/Kg	☼	08/13/20 20:59	08/14/20 15:18	1
2,4-Dinitrotoluene	<0.055		0.18	0.055	mg/Kg	☼	08/13/20 20:59	08/14/20 15:18	1
2,6-Dinitrotoluene	<0.069		0.18	0.069	mg/Kg	☼	08/13/20 20:59	08/14/20 15:18	1
Di-n-octyl phthalate	<0.057		0.18	0.057	mg/Kg	☼	08/13/20 20:59	08/14/20 15:18	1
Fluoranthene	0.054		0.035	0.0065	mg/Kg	☼	08/13/20 20:59	08/14/20 15:18	1
Fluorene	<0.0049		0.035	0.0049	mg/Kg	☼	08/13/20 20:59	08/14/20 15:18	1
Hexachlorobenzene	<0.0081		0.070	0.0081	mg/Kg	☼	08/13/20 20:59	08/14/20 15:18	1
Hexachlorobutadiene	<0.055		0.18	0.055	mg/Kg	☼	08/13/20 20:59	08/14/20 15:18	1
Hexachlorocyclopentadiene	<0.20		0.70	0.20	mg/Kg	☼	08/13/20 20:59	08/14/20 15:18	1
Hexachloroethane	<0.053		0.18	0.053	mg/Kg	☼	08/13/20 20:59	08/14/20 15:18	1
Indeno[1,2,3-cd]pyrene	0.014	J	0.035	0.0090	mg/Kg	☼	08/13/20 20:59	08/14/20 15:18	1
Isophorone	<0.039		0.18	0.039	mg/Kg	☼	08/13/20 20:59	08/14/20 15:18	1
2-Methylnaphthalene	<0.0064		0.070	0.0064	mg/Kg	☼	08/13/20 20:59	08/14/20 15:18	1
2-Methylphenol	<0.056		0.18	0.056	mg/Kg	☼	08/13/20 20:59	08/14/20 15:18	1
3 & 4 Methylphenol	<0.058		0.18	0.058	mg/Kg	☼	08/13/20 20:59	08/14/20 15:18	1
Naphthalene	<0.0054		0.035	0.0054	mg/Kg	☼	08/13/20 20:59	08/14/20 15:18	1
2-Nitroaniline	<0.047		0.18	0.047	mg/Kg	☼	08/13/20 20:59	08/14/20 15:18	1
3-Nitroaniline	<0.11		0.35	0.11	mg/Kg	☼	08/13/20 20:59	08/14/20 15:18	1
4-Nitroaniline	<0.15		0.35	0.15	mg/Kg	☼	08/13/20 20:59	08/14/20 15:18	1
Nitrobenzene	<0.0087		0.035	0.0087	mg/Kg	☼	08/13/20 20:59	08/14/20 15:18	1
2-Nitrophenol	<0.082		0.35	0.082	mg/Kg	☼	08/13/20 20:59	08/14/20 15:18	1

Eurolins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

Client Sample ID: 2412V2-4-B04 (0-5) Dup

Lab Sample ID: 500-185870-8

Date Collected: 08/03/20 10:10

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 93.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.33		0.70	0.33	mg/Kg	☼	08/13/20 20:59	08/14/20 15:18	1
N-Nitrosodi-n-propylamine	<0.043		0.070	0.043	mg/Kg	☼	08/13/20 20:59	08/14/20 15:18	1
N-Nitrosodiphenylamine	<0.041		0.18	0.041	mg/Kg	☼	08/13/20 20:59	08/14/20 15:18	1
2,2'-oxybis[1-chloropropane]	<0.040		0.18	0.040	mg/Kg	☼	08/13/20 20:59	08/14/20 15:18	1
Pentachlorophenol	<0.56		0.70	0.56	mg/Kg	☼	08/13/20 20:59	08/14/20 15:18	1
Phenanthrene	0.023	J	0.035	0.0049	mg/Kg	☼	08/13/20 20:59	08/14/20 15:18	1
Phenol	<0.077		0.18	0.077	mg/Kg	☼	08/13/20 20:59	08/14/20 15:18	1
Pyrene	0.041		0.035	0.0069	mg/Kg	☼	08/13/20 20:59	08/14/20 15:18	1
1,2,4-Trichlorobenzene	<0.038		0.18	0.038	mg/Kg	☼	08/13/20 20:59	08/14/20 15:18	1
2,4,5-Trichlorophenol	<0.080		0.35	0.080	mg/Kg	☼	08/13/20 20:59	08/14/20 15:18	1
2,4,6-Trichlorophenol	<0.12		0.35	0.12	mg/Kg	☼	08/13/20 20:59	08/14/20 15:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	89		43 - 145	08/13/20 20:59	08/14/20 15:18	1
2-Fluorophenol	75		31 - 166	08/13/20 20:59	08/14/20 15:18	1
Nitrobenzene-d5	68		37 - 147	08/13/20 20:59	08/14/20 15:18	1
Phenol-d5	66		30 - 153	08/13/20 20:59	08/14/20 15:18	1
Terphenyl-d14	109		42 - 157	08/13/20 20:59	08/14/20 15:18	1
2,4,6-Tribromophenol	107		31 - 143	08/13/20 20:59	08/14/20 15:18	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.32	J	1.1	0.21	mg/Kg	☼	08/10/20 06:36	08/12/20 16:47	1
Arsenic	3.7		0.53	0.18	mg/Kg	☼	08/10/20 06:36	08/12/20 16:47	1
Barium	61		0.53	0.060	mg/Kg	☼	08/10/20 06:36	08/12/20 16:47	1
Beryllium	0.46		0.21	0.049	mg/Kg	☼	08/10/20 06:36	08/12/20 16:47	1
Cadmium	0.15	B	0.11	0.019	mg/Kg	☼	08/10/20 06:36	08/12/20 16:47	1
Chromium	9.4		0.53	0.26	mg/Kg	☼	08/10/20 06:36	08/12/20 16:47	1
Cobalt	5.8		0.26	0.069	mg/Kg	☼	08/10/20 06:36	08/12/20 16:47	1
Copper	8.8		0.53	0.15	mg/Kg	☼	08/10/20 06:36	08/12/20 16:47	1
Iron	9600		11	5.5	mg/Kg	☼	08/10/20 06:36	08/12/20 16:47	1
Lead	28		0.26	0.12	mg/Kg	☼	08/10/20 06:36	08/12/20 16:47	1
Magnesium	15000		5.3	2.6	mg/Kg	☼	08/10/20 06:36	08/12/20 16:47	1
Calcium	25000	B	11	1.8	mg/Kg	☼	08/10/20 06:36	08/12/20 16:47	1
Manganese	450		0.53	0.077	mg/Kg	☼	08/10/20 06:36	08/12/20 16:47	1
Nickel	12		0.53	0.15	mg/Kg	☼	08/10/20 06:36	08/12/20 16:47	1
Selenium	<0.31		0.53	0.31	mg/Kg	☼	08/10/20 06:36	08/12/20 16:47	1
Silver	<0.068		0.26	0.068	mg/Kg	☼	08/10/20 06:36	08/12/20 16:47	1
Thallium	0.27	J	0.53	0.26	mg/Kg	☼	08/10/20 06:36	08/12/20 16:47	1
Vanadium	17		0.26	0.062	mg/Kg	☼	08/10/20 06:36	08/12/20 16:47	1
Zinc	45		1.1	0.46	mg/Kg	☼	08/10/20 06:36	08/12/20 16:47	1
Potassium	940		26	9.3	mg/Kg	☼	08/10/20 06:36	08/12/20 16:47	1
Sodium	210	B	53	7.8	mg/Kg	☼	08/10/20 06:36	08/12/20 16:47	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/13/20 17:12	08/14/20 02:43	1
Barium	0.52		0.50	0.050	mg/L		08/13/20 17:12	08/14/20 02:43	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/13/20 17:12	08/14/20 02:43	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/13/20 17:12	08/14/20 02:43	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

Client Sample ID: 2412V2-4-B04 (0-5) Dup

Lab Sample ID: 500-185870-8

Date Collected: 08/03/20 10:10

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 93.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	470		5.0	0.50	mg/L		08/13/20 17:12	08/14/20 02:43	1
Chromium	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:43	1
Cobalt	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:43	1
Copper	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:43	1
Iron	<0.20		0.40	0.20	mg/L		08/13/20 17:12	08/14/20 02:43	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/13/20 17:12	08/14/20 02:43	1
Magnesium	120		2.5	0.50	mg/L		08/13/20 17:12	08/14/20 02:43	1
Manganese	0.41		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:43	1
Nickel	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:43	1
Potassium	2.2 J		2.5	0.50	mg/L		08/13/20 17:12	08/14/20 02:43	1
Selenium	<0.020		0.050	0.020	mg/L		08/13/20 17:12	08/14/20 02:43	1
Silver	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:43	1
Vanadium	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:43	1
Zinc	0.028 J		0.50	0.020	mg/L		08/13/20 17:12	08/14/20 02:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.34		0.025	0.010	mg/L		08/14/20 05:55	08/16/20 21:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/13/20 17:12	08/14/20 10:11	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/13/20 17:12	08/14/20 10:11	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		08/13/20 14:20	08/14/20 10:33	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.017	0.0058	mg/Kg	☼	08/11/20 14:25	08/12/20 08:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.19 J		0.27	0.13	mg/Kg	☼	08/14/20 12:10	08/14/20 15:45	1
pH	8.5		0.2	0.2	SU			08/06/20 19:53	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

Client Sample ID: 2412V2-4-B04 (5-7.5)

Lab Sample ID: 500-185870-9

Date Collected: 08/03/20 10:15

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 90.5

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	☼	08/04/20 17:04	08/12/20 17:31	1
Benzene	<0.00039		0.0015	0.00039	mg/Kg	☼	08/04/20 17:04	08/12/20 17:31	1
Bromodichloromethane	<0.00031		0.0015	0.00031	mg/Kg	☼	08/04/20 17:04	08/12/20 17:31	1
Bromoform	<0.00045		0.0015	0.00045	mg/Kg	☼	08/04/20 17:04	08/12/20 17:31	1
Bromomethane	<0.0015		0.0038	0.0015	mg/Kg	☼	08/04/20 17:04	08/12/20 17:31	1
2-Butanone (MEK)	<0.0017		0.0038	0.0017	mg/Kg	☼	08/04/20 17:04	08/12/20 17:31	1
Carbon disulfide	<0.00080		0.0038	0.00080	mg/Kg	☼	08/04/20 17:04	08/12/20 17:31	1
Carbon tetrachloride	<0.00045		0.0015	0.00045	mg/Kg	☼	08/04/20 17:04	08/12/20 17:31	1
Chlorobenzene	<0.00057		0.0015	0.00057	mg/Kg	☼	08/04/20 17:04	08/12/20 17:31	1
Chloroethane	<0.0011 *		0.0038	0.0011	mg/Kg	☼	08/04/20 17:04	08/12/20 17:31	1
Chloroform	<0.00053		0.0015	0.00053	mg/Kg	☼	08/04/20 17:04	08/12/20 17:31	1
Chloromethane	<0.0015		0.0038	0.0015	mg/Kg	☼	08/04/20 17:04	08/12/20 17:31	1
cis-1,2-Dichloroethene	<0.00043		0.0015	0.00043	mg/Kg	☼	08/04/20 17:04	08/12/20 17:31	1
cis-1,3-Dichloropropene	<0.00046		0.0015	0.00046	mg/Kg	☼	08/04/20 17:04	08/12/20 17:31	1
Dibromochloromethane	<0.00050		0.0015	0.00050	mg/Kg	☼	08/04/20 17:04	08/12/20 17:31	1
1,1-Dichloroethane	<0.00053		0.0015	0.00053	mg/Kg	☼	08/04/20 17:04	08/12/20 17:31	1
1,2-Dichloroethane	<0.0012		0.0038	0.0012	mg/Kg	☼	08/04/20 17:04	08/12/20 17:31	1
1,1-Dichloroethene	<0.00053		0.0015	0.00053	mg/Kg	☼	08/04/20 17:04	08/12/20 17:31	1
1,2-Dichloropropane	<0.00040		0.0015	0.00040	mg/Kg	☼	08/04/20 17:04	08/12/20 17:31	1
1,3-Dichloropropane, Total	<0.00054		0.0015	0.00054	mg/Kg	☼	08/04/20 17:04	08/12/20 17:31	1
Ethylbenzene	<0.00074		0.0015	0.00074	mg/Kg	☼	08/04/20 17:04	08/12/20 17:31	1
2-Hexanone	<0.0012		0.0038	0.0012	mg/Kg	☼	08/04/20 17:04	08/12/20 17:31	1
Methylene Chloride	<0.0015		0.0038	0.0015	mg/Kg	☼	08/04/20 17:04	08/12/20 17:31	1
4-Methyl-2-pentanone (MIBK)	<0.0011		0.0038	0.0011	mg/Kg	☼	08/04/20 17:04	08/12/20 17:31	1
Methyl tert-butyl ether	<0.00045		0.0015	0.00045	mg/Kg	☼	08/04/20 17:04	08/12/20 17:31	1
Styrene	<0.00046		0.0015	0.00046	mg/Kg	☼	08/04/20 17:04	08/12/20 17:31	1
1,1,2,2-Tetrachloroethane	<0.00049		0.0015	0.00049	mg/Kg	☼	08/04/20 17:04	08/12/20 17:31	1
Tetrachloroethene	<0.00052		0.0015	0.00052	mg/Kg	☼	08/04/20 17:04	08/12/20 17:31	1
Toluene	<0.00039		0.0015	0.00039	mg/Kg	☼	08/04/20 17:04	08/12/20 17:31	1
trans-1,2-Dichloroethene	<0.00068		0.0015	0.00068	mg/Kg	☼	08/04/20 17:04	08/12/20 17:31	1
trans-1,3-Dichloropropene	<0.00054		0.0015	0.00054	mg/Kg	☼	08/04/20 17:04	08/12/20 17:31	1
1,1,1-Trichloroethane	<0.00052		0.0015	0.00052	mg/Kg	☼	08/04/20 17:04	08/12/20 17:31	1
1,1,2-Trichloroethane	<0.00066		0.0015	0.00066	mg/Kg	☼	08/04/20 17:04	08/12/20 17:31	1
Trichloroethene	<0.00052		0.0015	0.00052	mg/Kg	☼	08/04/20 17:04	08/12/20 17:31	1
Vinyl acetate	<0.0013		0.0038	0.0013	mg/Kg	☼	08/04/20 17:04	08/12/20 17:31	1
Vinyl chloride	<0.00068		0.0015	0.00068	mg/Kg	☼	08/04/20 17:04	08/12/20 17:31	1
Xylenes, Total	<0.00049		0.0031	0.00049	mg/Kg	☼	08/04/20 17:04	08/12/20 17:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		75 - 131	08/04/20 17:04	08/12/20 17:31	1
Dibromofluoromethane	97		75 - 126	08/04/20 17:04	08/12/20 17:31	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 134	08/04/20 17:04	08/12/20 17:31	1
Toluene-d8 (Surr)	90		75 - 124	08/04/20 17:04	08/12/20 17:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0064		0.035	0.0064	mg/Kg	☼	08/13/20 20:59	08/14/20 13:02	1
Acenaphthylene	<0.0047		0.035	0.0047	mg/Kg	☼	08/13/20 20:59	08/14/20 13:02	1
Anthracene	<0.0059		0.035	0.0059	mg/Kg	☼	08/13/20 20:59	08/14/20 13:02	1
Benzo[a]anthracene	0.0053	J	0.035	0.0048	mg/Kg	☼	08/13/20 20:59	08/14/20 13:02	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

Client Sample ID: 2412V2-4-B04 (5-7.5)

Lab Sample ID: 500-185870-9

Date Collected: 08/03/20 10:15

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 90.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.0069		0.035	0.0069	mg/Kg	☼	08/13/20 20:59	08/14/20 13:02	1
Benzo[b]fluoranthene	<0.0077		0.035	0.0077	mg/Kg	☼	08/13/20 20:59	08/14/20 13:02	1
Benzo[g,h,i]perylene	<0.011	F1	0.035	0.011	mg/Kg	☼	08/13/20 20:59	08/14/20 13:02	1
Benzo[k]fluoranthene	<0.010		0.035	0.010	mg/Kg	☼	08/13/20 20:59	08/14/20 13:02	1
Bis(2-chloroethoxy)methane	<0.036		0.18	0.036	mg/Kg	☼	08/13/20 20:59	08/14/20 13:02	1
Bis(2-chloroethyl)ether	<0.053		0.18	0.053	mg/Kg	☼	08/13/20 20:59	08/14/20 13:02	1
Bis(2-ethylhexyl) phthalate	<0.065		0.18	0.065	mg/Kg	☼	08/13/20 20:59	08/14/20 13:02	1
4-Bromophenyl phenyl ether	<0.047		0.18	0.047	mg/Kg	☼	08/13/20 20:59	08/14/20 13:02	1
Butyl benzyl phthalate	<0.068		0.18	0.068	mg/Kg	☼	08/13/20 20:59	08/14/20 13:02	1
Carbazole	<0.089		0.18	0.089	mg/Kg	☼	08/13/20 20:59	08/14/20 13:02	1
4-Chloroaniline	<0.17		0.72	0.17	mg/Kg	☼	08/13/20 20:59	08/14/20 13:02	1
4-Chloro-3-methylphenol	<0.12		0.35	0.12	mg/Kg	☼	08/13/20 20:59	08/14/20 13:02	1
2-Chloronaphthalene	<0.039		0.18	0.039	mg/Kg	☼	08/13/20 20:59	08/14/20 13:02	1
2-Chlorophenol	<0.061		0.18	0.061	mg/Kg	☼	08/13/20 20:59	08/14/20 13:02	1
4-Chlorophenyl phenyl ether	<0.042		0.18	0.042	mg/Kg	☼	08/13/20 20:59	08/14/20 13:02	1
Chrysene	<0.0097		0.035	0.0097	mg/Kg	☼	08/13/20 20:59	08/14/20 13:02	1
Dibenz(a,h)anthracene	<0.0069		0.035	0.0069	mg/Kg	☼	08/13/20 20:59	08/14/20 13:02	1
Dibenzofuran	<0.042		0.18	0.042	mg/Kg	☼	08/13/20 20:59	08/14/20 13:02	1
1,2-Dichlorobenzene	<0.043		0.18	0.043	mg/Kg	☼	08/13/20 20:59	08/14/20 13:02	1
1,3-Dichlorobenzene	<0.040		0.18	0.040	mg/Kg	☼	08/13/20 20:59	08/14/20 13:02	1
1,4-Dichlorobenzene	<0.046		0.18	0.046	mg/Kg	☼	08/13/20 20:59	08/14/20 13:02	1
3,3'-Dichlorobenzidine	<0.050		0.18	0.050	mg/Kg	☼	08/13/20 20:59	08/14/20 13:02	1
2,4-Dichlorophenol	<0.085		0.35	0.085	mg/Kg	☼	08/13/20 20:59	08/14/20 13:02	1
Diethyl phthalate	<0.060	F1	0.18	0.060	mg/Kg	☼	08/13/20 20:59	08/14/20 13:02	1
2,4-Dimethylphenol	<0.14		0.35	0.14	mg/Kg	☼	08/13/20 20:59	08/14/20 13:02	1
Dimethyl phthalate	<0.047		0.18	0.047	mg/Kg	☼	08/13/20 20:59	08/14/20 13:02	1
Di-n-butyl phthalate	<0.054		0.18	0.054	mg/Kg	☼	08/13/20 20:59	08/14/20 13:02	1
4,6-Dinitro-2-methylphenol	<0.29		0.72	0.29	mg/Kg	☼	08/13/20 20:59	08/14/20 13:02	1
2,4-Dinitrophenol	<0.63		0.72	0.63	mg/Kg	☼	08/13/20 20:59	08/14/20 13:02	1
2,4-Dinitrotoluene	<0.057		0.18	0.057	mg/Kg	☼	08/13/20 20:59	08/14/20 13:02	1
2,6-Dinitrotoluene	<0.070		0.18	0.070	mg/Kg	☼	08/13/20 20:59	08/14/20 13:02	1
Di-n-octyl phthalate	<0.058		0.18	0.058	mg/Kg	☼	08/13/20 20:59	08/14/20 13:02	1
Fluoranthene	0.0081	J	0.035	0.0066	mg/Kg	☼	08/13/20 20:59	08/14/20 13:02	1
Fluorene	<0.0050		0.035	0.0050	mg/Kg	☼	08/13/20 20:59	08/14/20 13:02	1
Hexachlorobenzene	<0.0083		0.072	0.0083	mg/Kg	☼	08/13/20 20:59	08/14/20 13:02	1
Hexachlorobutadiene	<0.056		0.18	0.056	mg/Kg	☼	08/13/20 20:59	08/14/20 13:02	1
Hexachlorocyclopentadiene	<0.20		0.72	0.20	mg/Kg	☼	08/13/20 20:59	08/14/20 13:02	1
Hexachloroethane	<0.054		0.18	0.054	mg/Kg	☼	08/13/20 20:59	08/14/20 13:02	1
Indeno[1,2,3-cd]pyrene	<0.0092		0.035	0.0092	mg/Kg	☼	08/13/20 20:59	08/14/20 13:02	1
Isophorone	<0.040		0.18	0.040	mg/Kg	☼	08/13/20 20:59	08/14/20 13:02	1
2-Methylnaphthalene	<0.0065		0.072	0.0065	mg/Kg	☼	08/13/20 20:59	08/14/20 13:02	1
2-Methylphenol	<0.057		0.18	0.057	mg/Kg	☼	08/13/20 20:59	08/14/20 13:02	1
3 & 4 Methylphenol	<0.059		0.18	0.059	mg/Kg	☼	08/13/20 20:59	08/14/20 13:02	1
Naphthalene	<0.0055		0.035	0.0055	mg/Kg	☼	08/13/20 20:59	08/14/20 13:02	1
2-Nitroaniline	<0.048		0.18	0.048	mg/Kg	☼	08/13/20 20:59	08/14/20 13:02	1
3-Nitroaniline	<0.11		0.35	0.11	mg/Kg	☼	08/13/20 20:59	08/14/20 13:02	1
4-Nitroaniline	<0.15	F1	0.35	0.15	mg/Kg	☼	08/13/20 20:59	08/14/20 13:02	1
Nitrobenzene	<0.0089		0.035	0.0089	mg/Kg	☼	08/13/20 20:59	08/14/20 13:02	1
2-Nitrophenol	<0.084		0.35	0.084	mg/Kg	☼	08/13/20 20:59	08/14/20 13:02	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

Client Sample ID: 2412V2-4-B04 (5-7.5)

Lab Sample ID: 500-185870-9

Date Collected: 08/03/20 10:15

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 90.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.34		0.72	0.34	mg/Kg	☼	08/13/20 20:59	08/14/20 13:02	1
N-Nitrosodi-n-propylamine	<0.044		0.072	0.044	mg/Kg	☼	08/13/20 20:59	08/14/20 13:02	1
N-Nitrosodiphenylamine	<0.042		0.18	0.042	mg/Kg	☼	08/13/20 20:59	08/14/20 13:02	1
2,2'-oxybis[1-chloropropane]	<0.041		0.18	0.041	mg/Kg	☼	08/13/20 20:59	08/14/20 13:02	1
Pentachlorophenol	<0.57		0.72	0.57	mg/Kg	☼	08/13/20 20:59	08/14/20 13:02	1
Phenanthrene	<0.0050		0.035	0.0050	mg/Kg	☼	08/13/20 20:59	08/14/20 13:02	1
Phenol	<0.079	F1 F2	0.18	0.079	mg/Kg	☼	08/13/20 20:59	08/14/20 13:02	1
Pyrene	<0.0071		0.035	0.0071	mg/Kg	☼	08/13/20 20:59	08/14/20 13:02	1
1,2,4-Trichlorobenzene	<0.038		0.18	0.038	mg/Kg	☼	08/13/20 20:59	08/14/20 13:02	1
2,4,5-Trichlorophenol	<0.081	F2	0.35	0.081	mg/Kg	☼	08/13/20 20:59	08/14/20 13:02	1
2,4,6-Trichlorophenol	<0.12		0.35	0.12	mg/Kg	☼	08/13/20 20:59	08/14/20 13:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	89		43 - 145	08/13/20 20:59	08/14/20 13:02	1
2-Fluorophenol	82		31 - 166	08/13/20 20:59	08/14/20 13:02	1
Nitrobenzene-d5	69		37 - 147	08/13/20 20:59	08/14/20 13:02	1
Phenol-d5	69		30 - 153	08/13/20 20:59	08/14/20 13:02	1
Terphenyl-d14	111		42 - 157	08/13/20 20:59	08/14/20 13:02	1
2,4,6-Tribromophenol	94		31 - 143	08/13/20 20:59	08/14/20 13:02	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.21		1.1	0.21	mg/Kg	☼	08/10/20 06:36	08/12/20 16:51	1
Arsenic	3.8		0.54	0.19	mg/Kg	☼	08/10/20 06:36	08/12/20 16:51	1
Barium	49		0.54	0.062	mg/Kg	☼	08/10/20 06:36	08/12/20 16:51	1
Beryllium	0.55		0.22	0.051	mg/Kg	☼	08/10/20 06:36	08/12/20 16:51	1
Cadmium	0.063	J B	0.11	0.019	mg/Kg	☼	08/10/20 06:36	08/12/20 16:51	1
Chromium	13		0.54	0.27	mg/Kg	☼	08/10/20 06:36	08/12/20 16:51	1
Cobalt	6.5		0.54	0.14	mg/Kg	☼	08/10/20 06:36	08/12/20 16:55	2
Copper	9.3		0.54	0.15	mg/Kg	☼	08/10/20 06:36	08/12/20 16:51	1
Iron	14000		11	5.6	mg/Kg	☼	08/10/20 06:36	08/12/20 16:51	1
Lead	9.8		0.27	0.12	mg/Kg	☼	08/10/20 06:36	08/12/20 16:51	1
Magnesium	2500		5.4	2.7	mg/Kg	☼	08/10/20 06:36	08/12/20 16:51	1
Calcium	2200	B	11	1.8	mg/Kg	☼	08/10/20 06:36	08/12/20 16:51	1
Manganese	260		0.54	0.078	mg/Kg	☼	08/10/20 06:36	08/12/20 16:51	1
Nickel	16		0.54	0.16	mg/Kg	☼	08/10/20 06:36	08/12/20 16:51	1
Selenium	<0.32		0.54	0.32	mg/Kg	☼	08/10/20 06:36	08/12/20 16:51	1
Silver	<0.070		0.27	0.070	mg/Kg	☼	08/10/20 06:36	08/12/20 16:51	1
Thallium	0.31	J	0.54	0.27	mg/Kg	☼	08/10/20 06:36	08/12/20 16:51	1
Vanadium	25		0.27	0.064	mg/Kg	☼	08/10/20 06:36	08/12/20 16:51	1
Zinc	38		1.1	0.48	mg/Kg	☼	08/10/20 06:36	08/12/20 16:51	1
Potassium	1200		27	9.6	mg/Kg	☼	08/10/20 06:36	08/12/20 16:51	1
Sodium	270	B	54	8.0	mg/Kg	☼	08/10/20 06:36	08/12/20 16:51	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/13/20 17:12	08/14/20 02:47	1
Barium	0.37	J	0.50	0.050	mg/L		08/13/20 17:12	08/14/20 02:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/13/20 17:12	08/14/20 02:47	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/13/20 17:12	08/14/20 02:47	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

Client Sample ID: 2412V2-4-B04 (5-7.5)

Lab Sample ID: 500-185870-9

Date Collected: 08/03/20 10:15

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 90.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	57		5.0	0.50	mg/L		08/13/20 17:12	08/14/20 02:47	1
Chromium	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:47	1
Cobalt	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:47	1
Copper	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:47	1
Iron	<0.20		0.40	0.20	mg/L		08/13/20 17:12	08/14/20 02:47	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/13/20 17:12	08/14/20 02:47	1
Magnesium	24		2.5	0.50	mg/L		08/13/20 17:12	08/14/20 02:47	1
Manganese	0.19		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:47	1
Nickel	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:47	1
Potassium	10		2.5	0.50	mg/L		08/13/20 17:12	08/14/20 02:47	1
Selenium	<0.020		0.050	0.020	mg/L		08/13/20 17:12	08/14/20 02:47	1
Silver	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:47	1
Vanadium	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:47	1
Zinc	<0.020		0.50	0.020	mg/L		08/13/20 17:12	08/14/20 02:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.2		0.025	0.010	mg/L		08/14/20 05:55	08/16/20 21:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/13/20 17:12	08/14/20 10:17	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/13/20 17:12	08/14/20 10:17	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/13/20 14:20	08/14/20 10:35	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.017	0.0057	mg/Kg	☼	08/11/20 14:25	08/12/20 08:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.17		0.33	0.17	mg/Kg	☼	08/14/20 12:10	08/14/20 15:47	1
pH	8.3		0.2	0.2	SU			08/06/20 19:56	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

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 exceeds control limits.
F2	MS/MSD RPD exceeds 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
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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)
TNTC	Too Numerous To Count

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

GC/MS VOA

Analysis Batch: 556377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185870-1	2412V2-4-B01 (0-5)	Total/NA	Solid	8260B	556445
500-185870-2	2412V2-4-B01 (5-7.5)	Total/NA	Solid	8260B	556445
500-185870-3	2412V2-4-B02 (0-5)	Total/NA	Solid	8260B	556445
500-185870-4	2412V2-4-B02 (5-7.5)	Total/NA	Solid	8260B	556445
500-185870-5	2412V2-4-B03 (0-5)	Total/NA	Solid	8260B	556445
500-185870-6	2412V2-4-B03 (5-7.5)	Total/NA	Solid	8260B	556445
500-185870-7	2412V2-4-B04 (0-5)	Total/NA	Solid	8260B	556445
500-185870-8	2412V2-4-B04 (0-5) Dup	Total/NA	Solid	8260B	556445
500-185870-9	2412V2-4-B04 (5-7.5)	Total/NA	Solid	8260B	556445
MB 500-556377/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-556377/7	Lab Control Sample	Total/NA	Solid	8260B	

Prep Batch: 556445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185870-1	2412V2-4-B01 (0-5)	Total/NA	Solid	5035	
500-185870-2	2412V2-4-B01 (5-7.5)	Total/NA	Solid	5035	
500-185870-3	2412V2-4-B02 (0-5)	Total/NA	Solid	5035	
500-185870-4	2412V2-4-B02 (5-7.5)	Total/NA	Solid	5035	
500-185870-5	2412V2-4-B03 (0-5)	Total/NA	Solid	5035	
500-185870-6	2412V2-4-B03 (5-7.5)	Total/NA	Solid	5035	
500-185870-7	2412V2-4-B04 (0-5)	Total/NA	Solid	5035	
500-185870-8	2412V2-4-B04 (0-5) Dup	Total/NA	Solid	5035	
500-185870-9	2412V2-4-B04 (5-7.5)	Total/NA	Solid	5035	

GC/MS Semi VOA

Prep Batch: 556759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185870-1	2412V2-4-B01 (0-5)	Total/NA	Solid	3541	
500-185870-2	2412V2-4-B01 (5-7.5)	Total/NA	Solid	3541	
500-185870-3	2412V2-4-B02 (0-5)	Total/NA	Solid	3541	
500-185870-4	2412V2-4-B02 (5-7.5)	Total/NA	Solid	3541	
500-185870-5	2412V2-4-B03 (0-5)	Total/NA	Solid	3541	
500-185870-6	2412V2-4-B03 (5-7.5)	Total/NA	Solid	3541	
500-185870-7	2412V2-4-B04 (0-5)	Total/NA	Solid	3541	
500-185870-8	2412V2-4-B04 (0-5) Dup	Total/NA	Solid	3541	
500-185870-9	2412V2-4-B04 (5-7.5)	Total/NA	Solid	3541	
MB 500-556759/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-556759/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-185870-9 MS	2412V2-4-B04 (5-7.5)	Total/NA	Solid	3541	
500-185870-9 MSD	2412V2-4-B04 (5-7.5)	Total/NA	Solid	3541	

Analysis Batch: 556859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185870-1	2412V2-4-B01 (0-5)	Total/NA	Solid	8270D	556759
500-185870-2	2412V2-4-B01 (5-7.5)	Total/NA	Solid	8270D	556759
500-185870-3	2412V2-4-B02 (0-5)	Total/NA	Solid	8270D	556759
500-185870-4	2412V2-4-B02 (5-7.5)	Total/NA	Solid	8270D	556759
MB 500-556759/1-A	Method Blank	Total/NA	Solid	8270D	556759
LCS 500-556759/2-A	Lab Control Sample	Total/NA	Solid	8270D	556759

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

GC/MS Semi VOA

Analysis Batch: 556865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185870-5	2412V2-4-B03 (0-5)	Total/NA	Solid	8270D	556759
500-185870-6	2412V2-4-B03 (5-7.5)	Total/NA	Solid	8270D	556759
500-185870-7	2412V2-4-B04 (0-5)	Total/NA	Solid	8270D	556759
500-185870-8	2412V2-4-B04 (0-5) Dup	Total/NA	Solid	8270D	556759
500-185870-9	2412V2-4-B04 (5-7.5)	Total/NA	Solid	8270D	556759
500-185870-9 MS	2412V2-4-B04 (5-7.5)	Total/NA	Solid	8270D	556759
500-185870-9 MSD	2412V2-4-B04 (5-7.5)	Total/NA	Solid	8270D	556759

Metals

Prep Batch: 555964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185870-1	2412V2-4-B01 (0-5)	Total/NA	Solid	3050B	
500-185870-2	2412V2-4-B01 (5-7.5)	Total/NA	Solid	3050B	
500-185870-3	2412V2-4-B02 (0-5)	Total/NA	Solid	3050B	
500-185870-4	2412V2-4-B02 (5-7.5)	Total/NA	Solid	3050B	
500-185870-5	2412V2-4-B03 (0-5)	Total/NA	Solid	3050B	
500-185870-6	2412V2-4-B03 (5-7.5)	Total/NA	Solid	3050B	
500-185870-7	2412V2-4-B04 (0-5)	Total/NA	Solid	3050B	
500-185870-8	2412V2-4-B04 (0-5) Dup	Total/NA	Solid	3050B	
500-185870-9	2412V2-4-B04 (5-7.5)	Total/NA	Solid	3050B	
MB 500-555964/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-555964/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-185870-1 MS	2412V2-4-B01 (0-5)	Total/NA	Solid	3050B	
500-185870-1 MSD	2412V2-4-B01 (0-5)	Total/NA	Solid	3050B	
500-185870-1 DU	2412V2-4-B01 (0-5)	Total/NA	Solid	3050B	

Prep Batch: 556274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185870-1	2412V2-4-B01 (0-5)	Total/NA	Solid	7471B	
500-185870-2	2412V2-4-B01 (5-7.5)	Total/NA	Solid	7471B	
500-185870-3	2412V2-4-B02 (0-5)	Total/NA	Solid	7471B	
500-185870-4	2412V2-4-B02 (5-7.5)	Total/NA	Solid	7471B	
500-185870-5	2412V2-4-B03 (0-5)	Total/NA	Solid	7471B	
500-185870-6	2412V2-4-B03 (5-7.5)	Total/NA	Solid	7471B	
500-185870-7	2412V2-4-B04 (0-5)	Total/NA	Solid	7471B	
500-185870-8	2412V2-4-B04 (0-5) Dup	Total/NA	Solid	7471B	
500-185870-9	2412V2-4-B04 (5-7.5)	Total/NA	Solid	7471B	
MB 500-556274/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-556274/13-A	Lab Control Sample	Total/NA	Solid	7471B	
500-185870-9 MS	2412V2-4-B04 (5-7.5)	Total/NA	Solid	7471B	
500-185870-9 MSD	2412V2-4-B04 (5-7.5)	Total/NA	Solid	7471B	
500-185870-9 DU	2412V2-4-B04 (5-7.5)	Total/NA	Solid	7471B	

Prep Batch: 556318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-556318/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-556318/2-A	Lab Control Sample	Total/NA	Solid	3050B	

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

Metals

Analysis Batch: 556451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185870-1	2412V2-4-B01 (0-5)	Total/NA	Solid	7471B	556274
500-185870-2	2412V2-4-B01 (5-7.5)	Total/NA	Solid	7471B	556274
500-185870-3	2412V2-4-B02 (0-5)	Total/NA	Solid	7471B	556274
500-185870-4	2412V2-4-B02 (5-7.5)	Total/NA	Solid	7471B	556274
500-185870-5	2412V2-4-B03 (0-5)	Total/NA	Solid	7471B	556274
500-185870-6	2412V2-4-B03 (5-7.5)	Total/NA	Solid	7471B	556274
500-185870-7	2412V2-4-B04 (0-5)	Total/NA	Solid	7471B	556274
500-185870-8	2412V2-4-B04 (0-5) Dup	Total/NA	Solid	7471B	556274
500-185870-9	2412V2-4-B04 (5-7.5)	Total/NA	Solid	7471B	556274
MB 500-556274/12-A	Method Blank	Total/NA	Solid	7471B	556274
LCS 500-556274/13-A	Lab Control Sample	Total/NA	Solid	7471B	556274
500-185870-9 MS	2412V2-4-B04 (5-7.5)	Total/NA	Solid	7471B	556274
500-185870-9 MSD	2412V2-4-B04 (5-7.5)	Total/NA	Solid	7471B	556274
500-185870-9 DU	2412V2-4-B04 (5-7.5)	Total/NA	Solid	7471B	556274

Leach Batch: 556478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185870-1	2412V2-4-B01 (0-5)	SPLP East	Solid	1312	
500-185870-2	2412V2-4-B01 (5-7.5)	SPLP East	Solid	1312	
500-185870-3	2412V2-4-B02 (0-5)	SPLP East	Solid	1312	
500-185870-4	2412V2-4-B02 (5-7.5)	SPLP East	Solid	1312	
500-185870-5	2412V2-4-B03 (0-5)	SPLP East	Solid	1312	
500-185870-6	2412V2-4-B03 (5-7.5)	SPLP East	Solid	1312	
500-185870-7	2412V2-4-B04 (0-5)	SPLP East	Solid	1312	
500-185870-8	2412V2-4-B04 (0-5) Dup	SPLP East	Solid	1312	
500-185870-9	2412V2-4-B04 (5-7.5)	SPLP East	Solid	1312	
LB 500-556478/2-B	Method Blank	SPLP East	Solid	1312	

Leach Batch: 556488

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185870-1	2412V2-4-B01 (0-5)	TCLP	Solid	1311	
500-185870-2	2412V2-4-B01 (5-7.5)	TCLP	Solid	1311	
500-185870-3	2412V2-4-B02 (0-5)	TCLP	Solid	1311	
500-185870-4	2412V2-4-B02 (5-7.5)	TCLP	Solid	1311	
500-185870-5	2412V2-4-B03 (0-5)	TCLP	Solid	1311	
500-185870-6	2412V2-4-B03 (5-7.5)	TCLP	Solid	1311	
500-185870-7	2412V2-4-B04 (0-5)	TCLP	Solid	1311	
500-185870-8	2412V2-4-B04 (0-5) Dup	TCLP	Solid	1311	
500-185870-9	2412V2-4-B04 (5-7.5)	TCLP	Solid	1311	
LB 500-556488/2-B	Method Blank	TCLP	Solid	1311	
LB 500-556488/2-C	Method Blank	TCLP	Solid	1311	
500-185870-2 MS	2412V2-4-B01 (5-7.5)	TCLP	Solid	1311	
500-185870-2 DU	2412V2-4-B01 (5-7.5)	TCLP	Solid	1311	

Leach Batch: 556490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB2 500-556490/2-C	Method Blank	TCLP	Solid	1311	

Analysis Batch: 556556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185870-1	2412V2-4-B01 (0-5)	Total/NA	Solid	6010B	555964

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

Metals (Continued)

Analysis Batch: 556556 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185870-1	2412V2-4-B01 (0-5)	Total/NA	Solid	6010B	555964
500-185870-2	2412V2-4-B01 (5-7.5)	Total/NA	Solid	6010B	555964
500-185870-2	2412V2-4-B01 (5-7.5)	Total/NA	Solid	6010B	555964
500-185870-3	2412V2-4-B02 (0-5)	Total/NA	Solid	6010B	555964
500-185870-4	2412V2-4-B02 (5-7.5)	Total/NA	Solid	6010B	555964
500-185870-4	2412V2-4-B02 (5-7.5)	Total/NA	Solid	6010B	555964
500-185870-5	2412V2-4-B03 (0-5)	Total/NA	Solid	6010B	555964
500-185870-6	2412V2-4-B03 (5-7.5)	Total/NA	Solid	6010B	555964
500-185870-7	2412V2-4-B04 (0-5)	Total/NA	Solid	6010B	555964
500-185870-8	2412V2-4-B04 (0-5) Dup	Total/NA	Solid	6010B	555964
500-185870-9	2412V2-4-B04 (5-7.5)	Total/NA	Solid	6010B	555964
500-185870-9	2412V2-4-B04 (5-7.5)	Total/NA	Solid	6010B	555964
MB 500-555964/1-A	Method Blank	Total/NA	Solid	6010B	555964
LCS 500-555964/2-A	Lab Control Sample	Total/NA	Solid	6010B	555964
500-185870-1 MS	2412V2-4-B01 (0-5)	Total/NA	Solid	6010B	555964
500-185870-1 MS	2412V2-4-B01 (0-5)	Total/NA	Solid	6010B	555964
500-185870-1 MSD	2412V2-4-B01 (0-5)	Total/NA	Solid	6010B	555964
500-185870-1 MSD	2412V2-4-B01 (0-5)	Total/NA	Solid	6010B	555964
500-185870-1 DU	2412V2-4-B01 (0-5)	Total/NA	Solid	6010B	555964
500-185870-1 DU	2412V2-4-B01 (0-5)	Total/NA	Solid	6010B	555964

Analysis Batch: 556571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-556318/1-A	Method Blank	Total/NA	Solid	6010B	556318
LCS 500-556318/2-A	Lab Control Sample	Total/NA	Solid	6010B	556318

Prep Batch: 556702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185870-1	2412V2-4-B01 (0-5)	TCLP	Solid	7470A	556488
500-185870-2	2412V2-4-B01 (5-7.5)	TCLP	Solid	7470A	556488
500-185870-3	2412V2-4-B02 (0-5)	TCLP	Solid	7470A	556488
500-185870-4	2412V2-4-B02 (5-7.5)	TCLP	Solid	7470A	556488
500-185870-5	2412V2-4-B03 (0-5)	TCLP	Solid	7470A	556488
500-185870-6	2412V2-4-B03 (5-7.5)	TCLP	Solid	7470A	556488
500-185870-7	2412V2-4-B04 (0-5)	TCLP	Solid	7470A	556488
500-185870-8	2412V2-4-B04 (0-5) Dup	TCLP	Solid	7470A	556488
500-185870-9	2412V2-4-B04 (5-7.5)	TCLP	Solid	7470A	556488
LB 500-556488/2-B	Method Blank	TCLP	Solid	7470A	556488
MB 500-556702/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-556702/14-A	Lab Control Sample	Total/NA	Solid	7470A	
500-185870-2 MS	2412V2-4-B01 (5-7.5)	TCLP	Solid	7470A	556488
500-185870-2 DU	2412V2-4-B01 (5-7.5)	TCLP	Solid	7470A	556488

Prep Batch: 556726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185870-1	2412V2-4-B01 (0-5)	TCLP	Solid	3010A	556488
500-185870-2	2412V2-4-B01 (5-7.5)	TCLP	Solid	3010A	556488
500-185870-3	2412V2-4-B02 (0-5)	TCLP	Solid	3010A	556488
500-185870-4	2412V2-4-B02 (5-7.5)	TCLP	Solid	3010A	556488
500-185870-5	2412V2-4-B03 (0-5)	TCLP	Solid	3010A	556488
500-185870-6	2412V2-4-B03 (5-7.5)	TCLP	Solid	3010A	556488

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

Metals (Continued)

Prep Batch: 556726 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185870-7	2412V2-4-B04 (0-5)	TCLP	Solid	3010A	556488
500-185870-8	2412V2-4-B04 (0-5) Dup	TCLP	Solid	3010A	556488
500-185870-9	2412V2-4-B04 (5-7.5)	TCLP	Solid	3010A	556488
LB 500-556488/2-C	Method Blank	TCLP	Solid	3010A	556488
LB2 500-556490/2-C	Method Blank	TCLP	Solid	3010A	556490
LCS 500-556726/24-A	Lab Control Sample	Total/NA	Solid	3010A	
LCS 500-556726/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 556778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185870-2	2412V2-4-B01 (5-7.5)	TCLP	Solid	6010B	556726
LB2 500-556490/2-C	Method Blank	TCLP	Solid	6010B	556726
LCS 500-556726/24-A	Lab Control Sample	Total/NA	Solid	6010B	556726

Prep Batch: 556796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185870-1	2412V2-4-B01 (0-5)	SPLP East	Solid	3010A	556478
500-185870-2	2412V2-4-B01 (5-7.5)	SPLP East	Solid	3010A	556478
500-185870-3	2412V2-4-B02 (0-5)	SPLP East	Solid	3010A	556478
500-185870-4	2412V2-4-B02 (5-7.5)	SPLP East	Solid	3010A	556478
500-185870-5	2412V2-4-B03 (0-5)	SPLP East	Solid	3010A	556478
500-185870-6	2412V2-4-B03 (5-7.5)	SPLP East	Solid	3010A	556478
500-185870-7	2412V2-4-B04 (0-5)	SPLP East	Solid	3010A	556478
500-185870-8	2412V2-4-B04 (0-5) Dup	SPLP East	Solid	3010A	556478
500-185870-9	2412V2-4-B04 (5-7.5)	SPLP East	Solid	3010A	556478
LB 500-556478/2-B	Method Blank	SPLP East	Solid	3010A	556478
LCS 500-556796/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 556800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185870-1	2412V2-4-B01 (0-5)	TCLP	Solid	6010B	556726
500-185870-2	2412V2-4-B01 (5-7.5)	TCLP	Solid	6010B	556726
500-185870-3	2412V2-4-B02 (0-5)	TCLP	Solid	6010B	556726
500-185870-4	2412V2-4-B02 (5-7.5)	TCLP	Solid	6010B	556726
500-185870-5	2412V2-4-B03 (0-5)	TCLP	Solid	6010B	556726
500-185870-6	2412V2-4-B03 (5-7.5)	TCLP	Solid	6010B	556726
500-185870-7	2412V2-4-B04 (0-5)	TCLP	Solid	6010B	556726
500-185870-8	2412V2-4-B04 (0-5) Dup	TCLP	Solid	6010B	556726
500-185870-9	2412V2-4-B04 (5-7.5)	TCLP	Solid	6010B	556726
LB 500-556488/2-C	Method Blank	TCLP	Solid	6010B	556726
LCS 500-556726/2-A	Lab Control Sample	Total/NA	Solid	6010B	556726

Analysis Batch: 556891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185870-1	2412V2-4-B01 (0-5)	TCLP	Solid	6020A	556726
500-185870-2	2412V2-4-B01 (5-7.5)	TCLP	Solid	6020A	556726
500-185870-3	2412V2-4-B02 (0-5)	TCLP	Solid	6020A	556726
500-185870-4	2412V2-4-B02 (5-7.5)	TCLP	Solid	6020A	556726
500-185870-5	2412V2-4-B03 (0-5)	TCLP	Solid	6020A	556726
500-185870-6	2412V2-4-B03 (5-7.5)	TCLP	Solid	6020A	556726
500-185870-7	2412V2-4-B04 (0-5)	TCLP	Solid	6020A	556726

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

Metals (Continued)

Analysis Batch: 556891 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185870-8	2412V2-4-B04 (0-5) Dup	TCLP	Solid	6020A	556726
500-185870-9	2412V2-4-B04 (5-7.5)	TCLP	Solid	6020A	556726
LB 500-556488/2-C	Method Blank	TCLP	Solid	6020A	556726
LCS 500-556726/24-A	Lab Control Sample	Total/NA	Solid	6020A	556726
LCS 500-556726/2-A	Lab Control Sample	Total/NA	Solid	6020A	556726

Analysis Batch: 556902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185870-4	2412V2-4-B02 (5-7.5)	TCLP	Solid	6010B	556726
500-185870-4	2412V2-4-B02 (5-7.5)	TCLP	Solid	6010B	556726

Analysis Batch: 556904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185870-1	2412V2-4-B01 (0-5)	TCLP	Solid	7470A	556702
500-185870-2	2412V2-4-B01 (5-7.5)	TCLP	Solid	7470A	556702
500-185870-3	2412V2-4-B02 (0-5)	TCLP	Solid	7470A	556702
500-185870-4	2412V2-4-B02 (5-7.5)	TCLP	Solid	7470A	556702
500-185870-5	2412V2-4-B03 (0-5)	TCLP	Solid	7470A	556702
500-185870-6	2412V2-4-B03 (5-7.5)	TCLP	Solid	7470A	556702
500-185870-7	2412V2-4-B04 (0-5)	TCLP	Solid	7470A	556702
500-185870-8	2412V2-4-B04 (0-5) Dup	TCLP	Solid	7470A	556702
500-185870-9	2412V2-4-B04 (5-7.5)	TCLP	Solid	7470A	556702
LB 500-556488/2-B	Method Blank	TCLP	Solid	7470A	556702
MB 500-556702/12-A	Method Blank	Total/NA	Solid	7470A	556702
LCS 500-556702/14-A	Lab Control Sample	Total/NA	Solid	7470A	556702
500-185870-2 MS	2412V2-4-B01 (5-7.5)	TCLP	Solid	7470A	556702
500-185870-2 DU	2412V2-4-B01 (5-7.5)	TCLP	Solid	7470A	556702

Analysis Batch: 557084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185870-1	2412V2-4-B01 (0-5)	SPLP East	Solid	6010B	556796
500-185870-2	2412V2-4-B01 (5-7.5)	SPLP East	Solid	6010B	556796
500-185870-3	2412V2-4-B02 (0-5)	SPLP East	Solid	6010B	556796
500-185870-4	2412V2-4-B02 (5-7.5)	SPLP East	Solid	6010B	556796
500-185870-5	2412V2-4-B03 (0-5)	SPLP East	Solid	6010B	556796
500-185870-6	2412V2-4-B03 (5-7.5)	SPLP East	Solid	6010B	556796
500-185870-7	2412V2-4-B04 (0-5)	SPLP East	Solid	6010B	556796
500-185870-8	2412V2-4-B04 (0-5) Dup	SPLP East	Solid	6010B	556796
500-185870-9	2412V2-4-B04 (5-7.5)	SPLP East	Solid	6010B	556796
LB 500-556478/2-B	Method Blank	SPLP East	Solid	6010B	556796
LCS 500-556796/2-A	Lab Control Sample	Total/NA	Solid	6010B	556796

General Chemistry

Analysis Batch: 555660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185870-1	2412V2-4-B01 (0-5)	Total/NA	Solid	Moisture	
500-185870-2	2412V2-4-B01 (5-7.5)	Total/NA	Solid	Moisture	
500-185870-3	2412V2-4-B02 (0-5)	Total/NA	Solid	Moisture	
500-185870-4	2412V2-4-B02 (5-7.5)	Total/NA	Solid	Moisture	
500-185870-5	2412V2-4-B03 (0-5)	Total/NA	Solid	Moisture	

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

General Chemistry (Continued)

Analysis Batch: 555660 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185870-6	2412V2-4-B03 (5-7.5)	Total/NA	Solid	Moisture	
500-185870-7	2412V2-4-B04 (0-5)	Total/NA	Solid	Moisture	
500-185870-8	2412V2-4-B04 (0-5) Dup	Total/NA	Solid	Moisture	
500-185870-9	2412V2-4-B04 (5-7.5)	Total/NA	Solid	Moisture	
500-185870-8 DU	2412V2-4-B04 (0-5) Dup	Total/NA	Solid	Moisture	

Analysis Batch: 555814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185870-1	2412V2-4-B01 (0-5)	Total/NA	Solid	9045D	
500-185870-2	2412V2-4-B01 (5-7.5)	Total/NA	Solid	9045D	
500-185870-3	2412V2-4-B02 (0-5)	Total/NA	Solid	9045D	
500-185870-4	2412V2-4-B02 (5-7.5)	Total/NA	Solid	9045D	
500-185870-5	2412V2-4-B03 (0-5)	Total/NA	Solid	9045D	
500-185870-6	2412V2-4-B03 (5-7.5)	Total/NA	Solid	9045D	
500-185870-7	2412V2-4-B04 (0-5)	Total/NA	Solid	9045D	
500-185870-8	2412V2-4-B04 (0-5) Dup	Total/NA	Solid	9045D	
500-185870-9	2412V2-4-B04 (5-7.5)	Total/NA	Solid	9045D	
LCS 500-555814/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-555814/3	Lab Control Sample Dup	Total/NA	Solid	9045D	
500-185870-2 DU	2412V2-4-B01 (5-7.5)	Total/NA	Solid	9045D	

Prep Batch: 556842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185870-1	2412V2-4-B01 (0-5)	Total/NA	Solid	9010C	
500-185870-2	2412V2-4-B01 (5-7.5)	Total/NA	Solid	9010C	
500-185870-3	2412V2-4-B02 (0-5)	Total/NA	Solid	9010C	
500-185870-4	2412V2-4-B02 (5-7.5)	Total/NA	Solid	9010C	
500-185870-5	2412V2-4-B03 (0-5)	Total/NA	Solid	9010C	
500-185870-6	2412V2-4-B03 (5-7.5)	Total/NA	Solid	9010C	
500-185870-7	2412V2-4-B04 (0-5)	Total/NA	Solid	9010C	
500-185870-8	2412V2-4-B04 (0-5) Dup	Total/NA	Solid	9010C	
500-185870-9	2412V2-4-B04 (5-7.5)	Total/NA	Solid	9010C	
MB 500-556842/1-A	Method Blank	Total/NA	Solid	9010C	
HLCS 500-556842/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 500-556842/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 500-556842/4-A	Lab Control Sample	Total/NA	Solid	9010C	

Analysis Batch: 557133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185870-1	2412V2-4-B01 (0-5)	Total/NA	Solid	9012B	556842
500-185870-2	2412V2-4-B01 (5-7.5)	Total/NA	Solid	9012B	556842
500-185870-3	2412V2-4-B02 (0-5)	Total/NA	Solid	9012B	556842
500-185870-4	2412V2-4-B02 (5-7.5)	Total/NA	Solid	9012B	556842
500-185870-5	2412V2-4-B03 (0-5)	Total/NA	Solid	9012B	556842
500-185870-6	2412V2-4-B03 (5-7.5)	Total/NA	Solid	9012B	556842
500-185870-7	2412V2-4-B04 (0-5)	Total/NA	Solid	9012B	556842
500-185870-8	2412V2-4-B04 (0-5) Dup	Total/NA	Solid	9012B	556842
500-185870-9	2412V2-4-B04 (5-7.5)	Total/NA	Solid	9012B	556842
MB 500-556842/1-A	Method Blank	Total/NA	Solid	9012B	556842
HLCS 500-556842/2-A	Lab Control Sample	Total/NA	Solid	9012B	556842
LCS 500-556842/3-A	Lab Control Sample	Total/NA	Solid	9012B	556842

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

General Chemistry (Continued)

Analysis Batch: 557133 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LLCS 500-556842/4-A	Lab Control Sample	Total/NA	Solid	9012B	556842

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

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)
500-185870-1	2412V2-4-B01 (0-5)	93	102	92	90
500-185870-2	2412V2-4-B01 (5-7.5)	92	100	95	89
500-185870-3	2412V2-4-B02 (0-5)	94	103	95	91
500-185870-4	2412V2-4-B02 (5-7.5)	104	102	92	89
500-185870-5	2412V2-4-B03 (0-5)	90	100	95	90
500-185870-6	2412V2-4-B03 (5-7.5)	88	106	95	82
500-185870-7	2412V2-4-B04 (0-5)	92	106	92	90
500-185870-8	2412V2-4-B04 (0-5) Dup	92	104	91	89
500-185870-9	2412V2-4-B04 (5-7.5)	90	97	89	90
LCS 500-556377/7	Lab Control Sample	85	96	81	91
MB 500-556377/6	Method Blank	88	97	84	92

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)
500-185870-1	2412V2-4-B01 (0-5)	80	93	77	97	99	75
500-185870-2	2412V2-4-B01 (5-7.5)	89	96	87	98	97	93
500-185870-3	2412V2-4-B02 (0-5)	69	82	69	87	92	84
500-185870-4	2412V2-4-B02 (5-7.5)	71	82	70	83	89	79
500-185870-5	2412V2-4-B03 (0-5)	87	83	71	71	113	102
500-185870-6	2412V2-4-B03 (5-7.5)	70	70	56	62	105	101
500-185870-7	2412V2-4-B04 (0-5)	87	80	66	66	107	109
500-185870-8	2412V2-4-B04 (0-5) Dup	89	75	68	66	109	107
500-185870-9	2412V2-4-B04 (5-7.5)	89	82	69	69	111	94
500-185870-9 MS	2412V2-4-B04 (5-7.5)	77	70	65	64	82	105
500-185870-9 MSD	2412V2-4-B04 (5-7.5)	96	84	75	78	99	122
LCS 500-556759/2-A	Lab Control Sample	87	104	88	95	93	98
MB 500-556759/1-A	Method Blank	89	99	87	96	89	70

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 - Hampshire - WO 074

Job ID: 500-185870-1

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

Lab Sample ID: MB 500-556377/6
Matrix: Solid
Analysis Batch: 556377

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			08/12/20 09:47	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg			08/12/20 09:47	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg			08/12/20 09:47	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg			08/12/20 09:47	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg			08/12/20 09:47	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			08/12/20 09:47	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg			08/12/20 09:47	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg			08/12/20 09:47	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg			08/12/20 09:47	1
Chloroethane	<0.0015		0.0050	0.0015	mg/Kg			08/12/20 09:47	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg			08/12/20 09:47	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg			08/12/20 09:47	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg			08/12/20 09:47	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg			08/12/20 09:47	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg			08/12/20 09:47	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg			08/12/20 09:47	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg			08/12/20 09:47	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg			08/12/20 09:47	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			08/12/20 09:47	1
1,3-Dichloropropene, Total	<0.00070		0.0020	0.00070	mg/Kg			08/12/20 09:47	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg			08/12/20 09:47	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg			08/12/20 09:47	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg			08/12/20 09:47	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg			08/12/20 09:47	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg			08/12/20 09:47	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg			08/12/20 09:47	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg			08/12/20 09:47	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg			08/12/20 09:47	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg			08/12/20 09:47	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg			08/12/20 09:47	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg			08/12/20 09:47	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg			08/12/20 09:47	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg			08/12/20 09:47	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg			08/12/20 09:47	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg			08/12/20 09:47	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg			08/12/20 09:47	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg			08/12/20 09:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		75 - 131		08/12/20 09:47	1
Dibromofluoromethane	97		75 - 126		08/12/20 09:47	1
1,2-Dichloroethane-d4 (Surr)	84		70 - 134		08/12/20 09:47	1
Toluene-d8 (Surr)	92		75 - 124		08/12/20 09:47	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

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

Lab Sample ID: LCS 500-556377/7

Matrix: Solid

Analysis Batch: 556377

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	0.0467		mg/Kg		93	40 - 150
Benzene	0.0500	0.0468		mg/Kg		94	70 - 125
Bromodichloromethane	0.0500	0.0447		mg/Kg		89	67 - 129
Bromoform	0.0500	0.0504		mg/Kg		101	68 - 136
Bromomethane	0.0500	0.0408		mg/Kg		82	70 - 130
2-Butanone (MEK)	0.0500	0.0408		mg/Kg		82	47 - 138
Carbon disulfide	0.0500	0.0457		mg/Kg		91	70 - 129
Carbon tetrachloride	0.0500	0.0505		mg/Kg		101	75 - 125
Chlorobenzene	0.0500	0.0491		mg/Kg		98	50 - 150
Chloroethane	0.0500	0.0317	*	mg/Kg		63	75 - 125
Chloroform	0.0500	0.0453		mg/Kg		91	57 - 135
Chloromethane	0.0500	0.0573		mg/Kg		115	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0492		mg/Kg		98	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0454		mg/Kg		91	70 - 125
Dibromochloromethane	0.0500	0.0507		mg/Kg		101	69 - 125
1,1-Dichloroethane	0.0500	0.0453		mg/Kg		91	70 - 125
1,2-Dichloroethane	0.0500	0.0426		mg/Kg		85	70 - 130
1,1-Dichloroethene	0.0500	0.0483		mg/Kg		97	70 - 120
1,2-Dichloropropane	0.0500	0.0446		mg/Kg		89	70 - 125
Ethylbenzene	0.0500	0.0483		mg/Kg		97	61 - 136
2-Hexanone	0.0500	0.0388		mg/Kg		78	48 - 146
Methylene Chloride	0.0500	0.0464		mg/Kg		93	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0396		mg/Kg		79	50 - 148
Methyl tert-butyl ether	0.0500	0.0467		mg/Kg		93	50 - 140
Styrene	0.0500	0.0495		mg/Kg		99	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0434		mg/Kg		87	70 - 122
Tetrachloroethene	0.0500	0.0536		mg/Kg		107	70 - 124
Toluene	0.0500	0.0456		mg/Kg		91	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0501		mg/Kg		100	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0460		mg/Kg		92	70 - 125
1,1,1-Trichloroethane	0.0500	0.0472		mg/Kg		94	70 - 128
1,1,2-Trichloroethane	0.0500	0.0460		mg/Kg		92	70 - 125
Trichloroethene	0.0500	0.0571		mg/Kg		114	70 - 125
Vinyl acetate	0.0500	0.0460		mg/Kg		92	40 - 153
Vinyl chloride	0.0500	0.0561		mg/Kg		112	70 - 125
Xylenes, Total	0.100	0.0936		mg/Kg		94	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	85		75 - 131
Dibromofluoromethane	96		75 - 126
1,2-Dichloroethane-d4 (Surr)	81		70 - 134
Toluene-d8 (Surr)	91		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

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

Lab Sample ID: MB 500-556759/1-A

Matrix: Solid

Analysis Batch: 556859

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 556759

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0060		0.033	0.0060	mg/Kg		08/13/20 20:59	08/14/20 12:25	1
Acenaphthylene	<0.0044		0.033	0.0044	mg/Kg		08/13/20 20:59	08/14/20 12:25	1
Anthracene	<0.0056		0.033	0.0056	mg/Kg		08/13/20 20:59	08/14/20 12:25	1
Benzo[a]anthracene	<0.0045		0.033	0.0045	mg/Kg		08/13/20 20:59	08/14/20 12:25	1
Benzo[a]pyrene	<0.0064		0.033	0.0064	mg/Kg		08/13/20 20:59	08/14/20 12:25	1
Benzo[b]fluoranthene	<0.0072		0.033	0.0072	mg/Kg		08/13/20 20:59	08/14/20 12:25	1
Benzo[g,h,i]perylene	<0.011		0.033	0.011	mg/Kg		08/13/20 20:59	08/14/20 12:25	1
Benzo[k]fluoranthene	<0.0098		0.033	0.0098	mg/Kg		08/13/20 20:59	08/14/20 12:25	1
Bis(2-chloroethoxy)methane	<0.034		0.17	0.034	mg/Kg		08/13/20 20:59	08/14/20 12:25	1
Bis(2-chloroethyl)ether	<0.050		0.17	0.050	mg/Kg		08/13/20 20:59	08/14/20 12:25	1
Bis(2-ethylhexyl) phthalate	<0.061		0.17	0.061	mg/Kg		08/13/20 20:59	08/14/20 12:25	1
4-Bromophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		08/13/20 20:59	08/14/20 12:25	1
Butyl benzyl phthalate	<0.063		0.17	0.063	mg/Kg		08/13/20 20:59	08/14/20 12:25	1
Carbazole	<0.083		0.17	0.083	mg/Kg		08/13/20 20:59	08/14/20 12:25	1
4-Chloroaniline	<0.16		0.67	0.16	mg/Kg		08/13/20 20:59	08/14/20 12:25	1
4-Chloro-3-methylphenol	<0.11		0.33	0.11	mg/Kg		08/13/20 20:59	08/14/20 12:25	1
2-Chloronaphthalene	<0.037		0.17	0.037	mg/Kg		08/13/20 20:59	08/14/20 12:25	1
2-Chlorophenol	<0.057		0.17	0.057	mg/Kg		08/13/20 20:59	08/14/20 12:25	1
4-Chlorophenyl phenyl ether	<0.039		0.17	0.039	mg/Kg		08/13/20 20:59	08/14/20 12:25	1
Chrysene	<0.0091		0.033	0.0091	mg/Kg		08/13/20 20:59	08/14/20 12:25	1
Dibenz(a,h)anthracene	<0.0064		0.033	0.0064	mg/Kg		08/13/20 20:59	08/14/20 12:25	1
Dibenzofuran	<0.039		0.17	0.039	mg/Kg		08/13/20 20:59	08/14/20 12:25	1
1,2-Dichlorobenzene	<0.040		0.17	0.040	mg/Kg		08/13/20 20:59	08/14/20 12:25	1
1,3-Dichlorobenzene	<0.037		0.17	0.037	mg/Kg		08/13/20 20:59	08/14/20 12:25	1
1,4-Dichlorobenzene	<0.043		0.17	0.043	mg/Kg		08/13/20 20:59	08/14/20 12:25	1
3,3'-Dichlorobenzidine	<0.047		0.17	0.047	mg/Kg		08/13/20 20:59	08/14/20 12:25	1
2,4-Dichlorophenol	<0.079		0.33	0.079	mg/Kg		08/13/20 20:59	08/14/20 12:25	1
Diethyl phthalate	<0.056		0.17	0.056	mg/Kg		08/13/20 20:59	08/14/20 12:25	1
2,4-Dimethylphenol	<0.13		0.33	0.13	mg/Kg		08/13/20 20:59	08/14/20 12:25	1
Dimethyl phthalate	<0.043		0.17	0.043	mg/Kg		08/13/20 20:59	08/14/20 12:25	1
Di-n-butyl phthalate	<0.051		0.17	0.051	mg/Kg		08/13/20 20:59	08/14/20 12:25	1
4,6-Dinitro-2-methylphenol	<0.27		0.67	0.27	mg/Kg		08/13/20 20:59	08/14/20 12:25	1
2,4-Dinitrophenol	<0.59		0.67	0.59	mg/Kg		08/13/20 20:59	08/14/20 12:25	1
2,4-Dinitrotoluene	<0.053		0.17	0.053	mg/Kg		08/13/20 20:59	08/14/20 12:25	1
2,6-Dinitrotoluene	<0.065		0.17	0.065	mg/Kg		08/13/20 20:59	08/14/20 12:25	1
Di-n-octyl phthalate	<0.054		0.17	0.054	mg/Kg		08/13/20 20:59	08/14/20 12:25	1
Fluoranthene	<0.0062		0.033	0.0062	mg/Kg		08/13/20 20:59	08/14/20 12:25	1
Fluorene	<0.0047		0.033	0.0047	mg/Kg		08/13/20 20:59	08/14/20 12:25	1
Hexachlorobenzene	<0.0077		0.067	0.0077	mg/Kg		08/13/20 20:59	08/14/20 12:25	1
Hexachlorobutadiene	<0.052		0.17	0.052	mg/Kg		08/13/20 20:59	08/14/20 12:25	1
Hexachlorocyclopentadiene	<0.19		0.67	0.19	mg/Kg		08/13/20 20:59	08/14/20 12:25	1
Hexachloroethane	<0.051		0.17	0.051	mg/Kg		08/13/20 20:59	08/14/20 12:25	1
Indeno[1,2,3-cd]pyrene	<0.0086		0.033	0.0086	mg/Kg		08/13/20 20:59	08/14/20 12:25	1
Isophorone	<0.037		0.17	0.037	mg/Kg		08/13/20 20:59	08/14/20 12:25	1
2-Methylnaphthalene	<0.0061		0.067	0.0061	mg/Kg		08/13/20 20:59	08/14/20 12:25	1
2-Methylphenol	<0.053		0.17	0.053	mg/Kg		08/13/20 20:59	08/14/20 12:25	1
3 & 4 Methylphenol	<0.055		0.17	0.055	mg/Kg		08/13/20 20:59	08/14/20 12:25	1
Naphthalene	<0.0051		0.033	0.0051	mg/Kg		08/13/20 20:59	08/14/20 12:25	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

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

Lab Sample ID: MB 500-556759/1-A
Matrix: Solid
Analysis Batch: 556859

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 556759

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	<0.045		0.17	0.045	mg/Kg		08/13/20 20:59	08/14/20 12:25	1
3-Nitroaniline	<0.10		0.33	0.10	mg/Kg		08/13/20 20:59	08/14/20 12:25	1
4-Nitroaniline	<0.14		0.33	0.14	mg/Kg		08/13/20 20:59	08/14/20 12:25	1
Nitrobenzene	<0.0083		0.033	0.0083	mg/Kg		08/13/20 20:59	08/14/20 12:25	1
2-Nitrophenol	<0.079		0.33	0.079	mg/Kg		08/13/20 20:59	08/14/20 12:25	1
4-Nitrophenol	<0.32		0.67	0.32	mg/Kg		08/13/20 20:59	08/14/20 12:25	1
N-Nitrosodi-n-propylamine	<0.041		0.067	0.041	mg/Kg		08/13/20 20:59	08/14/20 12:25	1
N-Nitrosodiphenylamine	<0.039		0.17	0.039	mg/Kg		08/13/20 20:59	08/14/20 12:25	1
2,2'-oxybis[1-chloropropane]	<0.039		0.17	0.039	mg/Kg		08/13/20 20:59	08/14/20 12:25	1
Pentachlorophenol	<0.53		0.67	0.53	mg/Kg		08/13/20 20:59	08/14/20 12:25	1
Phenanthrene	<0.0046		0.033	0.0046	mg/Kg		08/13/20 20:59	08/14/20 12:25	1
Phenol	<0.074		0.17	0.074	mg/Kg		08/13/20 20:59	08/14/20 12:25	1
Pyrene	<0.0066		0.033	0.0066	mg/Kg		08/13/20 20:59	08/14/20 12:25	1
1,2,4-Trichlorobenzene	<0.036		0.17	0.036	mg/Kg		08/13/20 20:59	08/14/20 12:25	1
2,4,5-Trichlorophenol	<0.076		0.33	0.076	mg/Kg		08/13/20 20:59	08/14/20 12:25	1
2,4,6-Trichlorophenol	<0.11		0.33	0.11	mg/Kg		08/13/20 20:59	08/14/20 12:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	89		43 - 145	08/13/20 20:59	08/14/20 12:25	1
2-Fluorophenol	99		31 - 166	08/13/20 20:59	08/14/20 12:25	1
Nitrobenzene-d5	87		37 - 147	08/13/20 20:59	08/14/20 12:25	1
Phenol-d5	96		30 - 153	08/13/20 20:59	08/14/20 12:25	1
Terphenyl-d14	89		42 - 157	08/13/20 20:59	08/14/20 12:25	1
2,4,6-Tribromophenol	70		31 - 143	08/13/20 20:59	08/14/20 12:25	1

Lab Sample ID: LCS 500-556759/2-A
Matrix: Solid
Analysis Batch: 556859

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556759

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1.33	1.21		mg/Kg		90	65 - 124
Acenaphthylene	1.33	1.25		mg/Kg		94	68 - 120
Anthracene	1.33	1.26		mg/Kg		94	70 - 114
Benzo[a]anthracene	1.33	1.22		mg/Kg		92	67 - 122
Benzo[a]pyrene	1.33	1.26		mg/Kg		94	65 - 133
Benzo[b]fluoranthene	1.33	1.23		mg/Kg		93	69 - 129
Benzo[g,h,i]perylene	1.33	1.32		mg/Kg		99	72 - 131
Benzo[k]fluoranthene	1.33	1.20		mg/Kg		90	68 - 127
Bis(2-chloroethoxy)methane	1.33	1.24		mg/Kg		93	60 - 112
Bis(2-chloroethyl)ether	1.33	1.29		mg/Kg		97	55 - 111
Bis(2-ethylhexyl) phthalate	1.33	1.25		mg/Kg		94	72 - 131
4-Bromophenyl phenyl ether	1.33	1.29		mg/Kg		97	68 - 118
Butyl benzyl phthalate	1.33	1.30		mg/Kg		97	71 - 129
Carbazole	1.33	1.62		mg/Kg		122	65 - 142
4-Chloroaniline	1.33	1.26		mg/Kg		94	30 - 150
4-Chloro-3-methylphenol	1.33	1.28		mg/Kg		96	65 - 122
2-Chloronaphthalene	1.33	1.21		mg/Kg		91	69 - 114
2-Chlorophenol	1.33	1.22		mg/Kg		92	64 - 110

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

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

Lab Sample ID: LCS 500-556759/2-A

Matrix: Solid

Analysis Batch: 556859

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 556759

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorophenyl phenyl ether	1.33	1.24		mg/Kg		93	62 - 119
Chrysene	1.33	1.30		mg/Kg		98	63 - 120
Dibenz(a,h)anthracene	1.33	1.33		mg/Kg		100	64 - 131
Dibenzofuran	1.33	1.19		mg/Kg		89	66 - 115
1,2-Dichlorobenzene	1.33	1.22		mg/Kg		91	62 - 110
1,3-Dichlorobenzene	1.33	1.19		mg/Kg		89	65 - 124
1,4-Dichlorobenzene	1.33	1.20		mg/Kg		90	61 - 110
3,3'-Dichlorobenzidine	1.33	1.21		mg/Kg		91	35 - 128
2,4-Dichlorophenol	1.33	1.27		mg/Kg		95	58 - 120
Diethyl phthalate	1.33	1.17		mg/Kg		88	58 - 120
2,4-Dimethylphenol	1.33	1.29		mg/Kg		97	60 - 110
Dimethyl phthalate	1.33	1.26		mg/Kg		94	69 - 116
Di-n-butyl phthalate	1.33	1.25		mg/Kg		94	65 - 120
4,6-Dinitro-2-methylphenol	2.67	1.10		mg/Kg		41	10 - 110
2,4-Dinitrophenol	2.67	<0.59		mg/Kg		19	10 - 100
2,4-Dinitrotoluene	1.33	1.22		mg/Kg		91	69 - 124
2,6-Dinitrotoluene	1.33	1.28		mg/Kg		96	70 - 123
Di-n-octyl phthalate	1.33	1.24		mg/Kg		93	68 - 134
Fluoranthene	1.33	1.31		mg/Kg		98	62 - 120
Fluorene	1.33	1.23		mg/Kg		92	62 - 120
Hexachlorobenzene	1.33	1.31		mg/Kg		98	63 - 124
Hexachlorobutadiene	1.33	1.22		mg/Kg		91	56 - 120
Hexachlorocyclopentadiene	1.33	0.942		mg/Kg		71	10 - 133
Hexachloroethane	1.33	1.14		mg/Kg		85	60 - 114
Indeno[1,2,3-cd]pyrene	1.33	1.35		mg/Kg		101	68 - 130
Isophorone	1.33	1.27		mg/Kg		95	55 - 110
2-Methylnaphthalene	1.33	1.24		mg/Kg		93	69 - 112
2-Methylphenol	1.33	1.16		mg/Kg		87	60 - 120
3 & 4 Methylphenol	1.33	1.34		mg/Kg		101	57 - 120
Naphthalene	1.33	1.22		mg/Kg		92	63 - 110
2-Nitroaniline	1.33	1.22		mg/Kg		92	57 - 124
3-Nitroaniline	1.33	1.26		mg/Kg		94	40 - 122
4-Nitroaniline	1.33	1.17		mg/Kg		87	60 - 160
Nitrobenzene	1.33	1.25		mg/Kg		93	60 - 116
2-Nitrophenol	1.33	1.22		mg/Kg		92	60 - 120
4-Nitrophenol	2.67	2.13		mg/Kg		80	30 - 122
N-Nitrosodi-n-propylamine	1.33	1.26		mg/Kg		95	56 - 118
N-Nitrosodiphenylamine	1.33	1.36		mg/Kg		102	65 - 112
2,2'-oxybis[1-chloropropane]	1.33	1.04		mg/Kg		78	40 - 124
Pentachlorophenol	2.67	1.75		mg/Kg		66	13 - 112
Phenanthrene	1.33	1.25		mg/Kg		94	62 - 120
Phenol	1.33	1.28		mg/Kg		96	56 - 122
Pyrene	1.33	1.38		mg/Kg		103	61 - 128
1,2,4-Trichlorobenzene	1.33	1.21		mg/Kg		91	66 - 117
2,4,5-Trichlorophenol	1.33	1.19		mg/Kg		89	50 - 120
2,4,6-Trichlorophenol	1.33	1.26		mg/Kg		95	57 - 120

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

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

Lab Sample ID: LCS 500-556759/2-A
Matrix: Solid
Analysis Batch: 556859

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556759

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	87		43 - 145
2-Fluorophenol	104		31 - 166
Nitrobenzene-d5	88		37 - 147
Phenol-d5	95		30 - 153
Terphenyl-d14	93		42 - 157
2,4,6-Tribromophenol	98		31 - 143

Lab Sample ID: 500-185870-9 MS
Matrix: Solid
Analysis Batch: 556865

Client Sample ID: 2412V2-4-B04 (5-7.5)
Prep Type: Total/NA
Prep Batch: 556759

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
Acenaphthene	<0.0064		1.39	1.13		mg/Kg	☼	81	65 - 124
Acenaphthylene	<0.0047		1.39	1.09		mg/Kg	☼	78	68 - 120
Anthracene	<0.0059		1.39	1.13		mg/Kg	☼	81	70 - 114
Benzo[a]anthracene	0.0053	J	1.39	1.13		mg/Kg	☼	81	67 - 122
Benzo[a]pyrene	<0.0069		1.39	1.10		mg/Kg	☼	79	65 - 133
Benzo[b]fluoranthene	<0.0077		1.39	1.20		mg/Kg	☼	86	69 - 129
Benzo[g,h,i]perylene	<0.011	F1	1.39	0.915	F1	mg/Kg	☼	66	72 - 131
Benzo[k]fluoranthene	<0.010		1.39	1.14		mg/Kg	☼	82	68 - 127
Bis(2-chloroethoxy)methane	<0.036		1.39	0.847		mg/Kg	☼	61	60 - 112
Bis(2-chloroethyl)ether	<0.053		1.39	0.870		mg/Kg	☼	62	55 - 111
Bis(2-ethylhexyl) phthalate	<0.065		1.39	1.15		mg/Kg	☼	82	72 - 131
4-Bromophenyl phenyl ether	<0.047		1.39	1.17		mg/Kg	☼	84	68 - 118
Butyl benzyl phthalate	<0.068		1.39	1.01		mg/Kg	☼	72	71 - 129
Carbazole	<0.089		1.39	1.14		mg/Kg	☼	82	65 - 142
4-Chloroaniline	<0.17		1.39	0.924		mg/Kg	☼	66	30 - 150
4-Chloro-3-methylphenol	<0.12		1.39	0.961		mg/Kg	☼	69	65 - 122
2-Chloronaphthalene	<0.039		1.39	1.05		mg/Kg	☼	75	69 - 114
2-Chlorophenol	<0.061		1.39	1.07		mg/Kg	☼	76	64 - 110
4-Chlorophenyl phenyl ether	<0.042		1.39	1.22		mg/Kg	☼	87	62 - 119
Chrysene	<0.0097		1.39	0.991		mg/Kg	☼	71	63 - 120
Dibenz(a,h)anthracene	<0.0069		1.39	0.987		mg/Kg	☼	71	64 - 131
Dibenzofuran	<0.042		1.39	1.14		mg/Kg	☼	82	66 - 115
1,2-Dichlorobenzene	<0.043		1.39	0.987		mg/Kg	☼	71	62 - 110
1,3-Dichlorobenzene	<0.040		1.39	0.927		mg/Kg	☼	66	60 - 110
1,4-Dichlorobenzene	<0.046		1.39	0.934		mg/Kg	☼	67	61 - 110
3,3'-Dichlorobenzidine	<0.050		1.39	0.602		mg/Kg	☼	43	35 - 128
2,4-Dichlorophenol	<0.085		1.39	1.14		mg/Kg	☼	82	58 - 120
Diethyl phthalate	<0.060	F1	1.39	1.37		mg/Kg	☼	98	58 - 120
2,4-Dimethylphenol	<0.14		1.39	0.981		mg/Kg	☼	70	60 - 110
Dimethyl phthalate	<0.047		1.39	1.18		mg/Kg	☼	85	69 - 116
Di-n-butyl phthalate	<0.054		1.39	1.21		mg/Kg	☼	87	65 - 120
4,6-Dinitro-2-methylphenol	<0.29		2.79	1.20		mg/Kg	☼	43	10 - 110
2,4-Dinitrophenol	<0.63		2.79	1.04		mg/Kg	☼	37	10 - 100
2,4-Dinitrotoluene	<0.057		1.39	1.17		mg/Kg	☼	84	69 - 124
2,6-Dinitrotoluene	<0.070		1.39	1.21		mg/Kg	☼	87	70 - 123
Di-n-octyl phthalate	<0.058		1.39	1.16		mg/Kg	☼	83	68 - 134

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

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

Lab Sample ID: 500-185870-9 MS

Matrix: Solid

Analysis Batch: 556865

Client Sample ID: 2412V2-4-B04 (5-7.5)

Prep Type: Total/NA

Prep Batch: 556759

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Fluoranthene	0.0081	J	1.39	1.26		mg/Kg	☼	90	62 - 120
Fluorene	<0.0050		1.39	1.20		mg/Kg	☼	86	62 - 120
Hexachlorobenzene	<0.0083		1.39	1.42		mg/Kg	☼	102	63 - 124
Hexachlorobutadiene	<0.056		1.39	1.35		mg/Kg	☼	97	56 - 120
Hexachlorocyclopentadiene	<0.20		1.39	0.769		mg/Kg	☼	55	10 - 133
Hexachloroethane	<0.054		1.39	0.881		mg/Kg	☼	63	60 - 114
Indeno[1,2,3-cd]pyrene	<0.0092		1.39	0.957		mg/Kg	☼	69	68 - 130
Isophorone	<0.040		1.39	0.915		mg/Kg	☼	66	55 - 110
2-Methylnaphthalene	<0.0065		1.39	1.22		mg/Kg	☼	88	69 - 112
2-Methylphenol	<0.057		1.39	0.945		mg/Kg	☼	68	60 - 120
3 & 4 Methylphenol	<0.059		1.39	0.829		mg/Kg	☼	59	57 - 120
Naphthalene	<0.0055		1.39	1.08		mg/Kg	☼	77	63 - 110
2-Nitroaniline	<0.048		1.39	0.870		mg/Kg	☼	62	57 - 124
3-Nitroaniline	<0.11		1.39	0.752		mg/Kg	☼	54	40 - 122
4-Nitroaniline	<0.15	F1	1.39	0.821	F1	mg/Kg	☼	59	60 - 160
Nitrobenzene	<0.0089		1.39	0.942		mg/Kg	☼	68	60 - 116
2-Nitrophenol	<0.084		1.39	1.07		mg/Kg	☼	76	60 - 120
4-Nitrophenol	<0.34		2.79	2.46		mg/Kg	☼	88	30 - 122
N-Nitrosodi-n-propylamine	<0.044		1.39	0.839		mg/Kg	☼	60	56 - 118
N-Nitrosodiphenylamine	<0.042		1.39	0.973		mg/Kg	☼	70	65 - 112
2,2'-oxybis[1-chloropropane]	<0.041		1.39	1.06		mg/Kg	☼	76	40 - 124
Pentachlorophenol	<0.57		2.79	1.35		mg/Kg	☼	48	13 - 112
Phenanthrene	<0.0050		1.39	1.12		mg/Kg	☼	80	62 - 120
Phenol	<0.079	F1 F2	1.39	0.726	F1	mg/Kg	☼	52	56 - 122
Pyrene	<0.0071		1.39	1.03		mg/Kg	☼	74	61 - 128
1,2,4-Trichlorobenzene	<0.038		1.39	1.20		mg/Kg	☼	86	66 - 117
2,4,5-Trichlorophenol	<0.081	F2	1.39	0.998		mg/Kg	☼	72	50 - 120
2,4,6-Trichlorophenol	<0.12		1.39	1.12		mg/Kg	☼	80	57 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorobiphenyl	77		43 - 145
2-Fluorophenol	70		31 - 166
Nitrobenzene-d5	65		37 - 147
Phenol-d5	64		30 - 153
Terphenyl-d14	82		42 - 157
2,4,6-Tribromophenol	105		31 - 143

Lab Sample ID: 500-185870-9 MSD

Matrix: Solid

Analysis Batch: 556865

Client Sample ID: 2412V2-4-B04 (5-7.5)

Prep Type: Total/NA

Prep Batch: 556759

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Acenaphthene	<0.0064		1.41	1.40		mg/Kg	☼	99	65 - 124	21	30
Acenaphthylene	<0.0047		1.41	1.34		mg/Kg	☼	95	68 - 120	21	30
Anthracene	<0.0059		1.41	1.36		mg/Kg	☼	96	70 - 114	19	30
Benzo[a]anthracene	0.0053	J	1.41	1.35		mg/Kg	☼	95	67 - 122	17	30
Benzo[a]pyrene	<0.0069		1.41	1.35		mg/Kg	☼	95	65 - 133	20	30
Benzo[b]fluoranthene	<0.0077		1.41	1.50		mg/Kg	☼	106	69 - 129	22	30

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

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

Lab Sample ID: 500-185870-9 MSD

Matrix: Solid

Analysis Batch: 556865

Client Sample ID: 2412V2-4-B04 (5-7.5)

Prep Type: Total/NA

Prep Batch: 556759

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		
Benzo[g,h,i]perylene	<0.011	F1	1.41	1.08		mg/Kg	*	76	72 - 131	16	30
Benzo[k]fluoranthene	<0.010		1.41	1.40		mg/Kg	*	99	68 - 127	21	30
Bis(2-chloroethoxy)methane	<0.036		1.41	0.989		mg/Kg	*	70	60 - 112	15	30
Bis(2-chloroethyl)ether	<0.053		1.41	1.07		mg/Kg	*	75	55 - 111	20	30
Bis(2-ethylhexyl) phthalate	<0.065		1.41	1.37		mg/Kg	*	97	72 - 131	18	30
4-Bromophenyl phenyl ether	<0.047		1.41	1.46		mg/Kg	*	104	68 - 118	22	30
Butyl benzyl phthalate	<0.068		1.41	1.21		mg/Kg	*	85	71 - 129	18	30
Carbazole	<0.089		1.41	1.42		mg/Kg	*	101	65 - 142	22	30
4-Chloroaniline	<0.17		1.41	1.12		mg/Kg	*	79	30 - 150	19	30
4-Chloro-3-methylphenol	<0.12		1.41	1.18		mg/Kg	*	84	65 - 122	21	30
2-Chloronaphthalene	<0.039		1.41	1.33		mg/Kg	*	94	69 - 114	24	30
2-Chlorophenol	<0.061		1.41	1.31		mg/Kg	*	93	64 - 110	20	30
4-Chlorophenyl phenyl ether	<0.042		1.41	1.57		mg/Kg	*	111	62 - 119	25	30
Chrysene	<0.0097		1.41	1.21		mg/Kg	*	86	63 - 120	20	30
Dibenz(a,h)anthracene	<0.0069		1.41	1.15		mg/Kg	*	82	64 - 131	16	30
Dibenzofuran	<0.042		1.41	1.43		mg/Kg	*	101	66 - 115	22	30
1,2-Dichlorobenzene	<0.043		1.41	1.25		mg/Kg	*	88	62 - 110	24	30
1,3-Dichlorobenzene	<0.040		1.41	1.16		mg/Kg	*	82	60 - 110	23	30
1,4-Dichlorobenzene	<0.046		1.41	1.14		mg/Kg	*	81	61 - 110	20	30
3,3'-Dichlorobenzidine	<0.050		1.41	0.699		mg/Kg	*	49	35 - 128	15	30
2,4-Dichlorophenol	<0.085		1.41	1.37		mg/Kg	*	97	58 - 120	19	30
Diethyl phthalate	<0.060	F1	1.41	1.71	F1	mg/Kg	*	121	58 - 120	22	30
2,4-Dimethylphenol	<0.14		1.41	1.19		mg/Kg	*	84	60 - 110	19	30
Dimethyl phthalate	<0.047		1.41	1.48		mg/Kg	*	104	69 - 116	22	30
Di-n-butyl phthalate	<0.054		1.41	1.48		mg/Kg	*	105	65 - 120	20	30
4,6-Dinitro-2-methylphenol	<0.29		2.83	1.52		mg/Kg	*	54	10 - 110	23	30
2,4-Dinitrophenol	<0.63		2.83	1.32		mg/Kg	*	47	10 - 100	24	30
2,4-Dinitrotoluene	<0.057		1.41	1.45		mg/Kg	*	103	69 - 124	21	30
2,6-Dinitrotoluene	<0.070		1.41	1.50		mg/Kg	*	106	70 - 123	21	30
Di-n-octyl phthalate	<0.058		1.41	1.40		mg/Kg	*	99	68 - 134	19	30
Fluoranthene	0.0081	J	1.41	1.58		mg/Kg	*	111	62 - 120	23	30
Fluorene	<0.0050		1.41	1.51		mg/Kg	*	107	62 - 120	23	30
Hexachlorobenzene	<0.0083		1.41	1.72		mg/Kg	*	121	63 - 124	19	30
Hexachlorobutadiene	<0.056		1.41	1.63		mg/Kg	*	115	56 - 120	19	30
Hexachlorocyclopentadiene	<0.20		1.41	0.994		mg/Kg	*	70	10 - 133	25	30
Hexachloroethane	<0.054		1.41	1.10		mg/Kg	*	78	60 - 114	22	30
Indeno[1,2,3-cd]pyrene	<0.0092		1.41	1.13		mg/Kg	*	80	68 - 130	16	30
Isophorone	<0.040		1.41	1.08		mg/Kg	*	76	55 - 110	17	30
2-Methylnaphthalene	<0.0065		1.41	1.47		mg/Kg	*	104	69 - 112	18	30
2-Methylphenol	<0.057		1.41	1.14		mg/Kg	*	81	60 - 120	19	30
3 & 4 Methylphenol	<0.059		1.41	1.08		mg/Kg	*	76	57 - 120	26	30
Naphthalene	<0.0055		1.41	1.31		mg/Kg	*	93	63 - 110	20	30
2-Nitroaniline	<0.048		1.41	1.05		mg/Kg	*	74	57 - 124	19	30
3-Nitroaniline	<0.11		1.41	0.886		mg/Kg	*	63	40 - 122	16	30
4-Nitroaniline	<0.15	F1	1.41	0.970		mg/Kg	*	69	60 - 160	17	30
Nitrobenzene	<0.0089		1.41	1.08		mg/Kg	*	77	60 - 116	14	30
2-Nitrophenol	<0.084		1.41	1.26		mg/Kg	*	89	60 - 120	17	30
4-Nitrophenol	<0.34		2.83	3.06		mg/Kg	*	108	30 - 122	22	30
N-Nitrosodi-n-propylamine	<0.044		1.41	1.03		mg/Kg	*	73	56 - 118	20	30

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

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

Lab Sample ID: 500-185870-9 MSD

Matrix: Solid

Analysis Batch: 556865

Client Sample ID: 2412V2-4-B04 (5-7.5)

Prep Type: Total/NA

Prep Batch: 556759

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier						
N-Nitrosodiphenylamine	<0.042		1.41	1.22		mg/Kg	☼	86	65 - 112	22	30
2,2'-oxybis[1-chloropropane]	<0.041		1.41	1.30		mg/Kg	☼	92	40 - 124	20	30
Pentachlorophenol	<0.57		2.83	1.49		mg/Kg	☼	53	13 - 112	10	30
Phenanthrene	<0.0050		1.41	1.39		mg/Kg	☼	99	62 - 120	22	30
Phenol	<0.079	F1 F2	1.41	1.00	F2	mg/Kg	☼	71	56 - 122	32	30
Pyrene	<0.0071		1.41	1.23		mg/Kg	☼	87	61 - 128	18	30
1,2,4-Trichlorobenzene	<0.038		1.41	1.41		mg/Kg	☼	99	66 - 117	16	30
2,4,5-Trichlorophenol	<0.081	F2	1.41	1.36	F2	mg/Kg	☼	96	50 - 120	31	30
2,4,6-Trichlorophenol	<0.12		1.41	1.36		mg/Kg	☼	96	57 - 120	20	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorobiphenyl	96		43 - 145
2-Fluorophenol	84		31 - 166
Nitrobenzene-d5	75		37 - 147
Phenol-d5	78		30 - 153
Terphenyl-d14	99		42 - 157
2,4,6-Tribromophenol	122		31 - 143

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-555964/1-A

Matrix: Solid

Analysis Batch: 556556

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 555964

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.39		2.0	0.39	mg/Kg		08/10/20 06:36	08/12/20 15:11	1
Arsenic	<0.34		1.0	0.34	mg/Kg		08/10/20 06:36	08/12/20 15:11	1
Barium	<0.11		1.0	0.11	mg/Kg		08/10/20 06:36	08/12/20 15:11	1
Beryllium	<0.093		0.40	0.093	mg/Kg		08/10/20 06:36	08/12/20 15:11	1
Cadmium	<0.036		0.20	0.036	mg/Kg		08/10/20 06:36	08/12/20 15:11	1
Chromium	<0.50		1.0	0.50	mg/Kg		08/10/20 06:36	08/12/20 15:11	1
Cobalt	<0.13		0.50	0.13	mg/Kg		08/10/20 06:36	08/12/20 15:11	1
Copper	<0.28		1.0	0.28	mg/Kg		08/10/20 06:36	08/12/20 15:11	1
Lead	<0.23		0.50	0.23	mg/Kg		08/10/20 06:36	08/12/20 15:11	1
Magnesium	<5.0		10	5.0	mg/Kg		08/10/20 06:36	08/12/20 15:11	1
Calcium	9.31	J	20	3.4	mg/Kg		08/10/20 06:36	08/12/20 15:11	1
Manganese	<0.15		1.0	0.15	mg/Kg		08/10/20 06:36	08/12/20 15:11	1
Nickel	<0.29		1.0	0.29	mg/Kg		08/10/20 06:36	08/12/20 15:11	1
Selenium	<0.59		1.0	0.59	mg/Kg		08/10/20 06:36	08/12/20 15:11	1
Silver	<0.13		0.50	0.13	mg/Kg		08/10/20 06:36	08/12/20 15:11	1
Thallium	<0.50		1.0	0.50	mg/Kg		08/10/20 06:36	08/12/20 15:11	1
Vanadium	<0.12		0.50	0.12	mg/Kg		08/10/20 06:36	08/12/20 15:11	1
Zinc	<0.88		2.0	0.88	mg/Kg		08/10/20 06:36	08/12/20 15:11	1
Potassium	<18		50	18	mg/Kg		08/10/20 06:36	08/12/20 15:11	1
Sodium	<15		100	15	mg/Kg		08/10/20 06:36	08/12/20 15:11	1

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

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

Lab Sample ID: LCS 500-555964/2-A
Matrix: Solid
Analysis Batch: 556556

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 555964
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	50.0	43.7		mg/Kg		87	80 - 120
Arsenic	10.0	9.24		mg/Kg		92	80 - 120
Barium	200	192		mg/Kg		96	80 - 120
Beryllium	5.00	4.86		mg/Kg		97	80 - 120
Cadmium	5.00	4.62		mg/Kg		92	80 - 120
Chromium	20.0	19.5		mg/Kg		98	80 - 120
Cobalt	50.0	49.5		mg/Kg		99	80 - 120
Copper	25.0	24.1		mg/Kg		96	80 - 120
Lead	10.0	9.92		mg/Kg		99	80 - 120
Magnesium	1000	950		mg/Kg		95	80 - 120
Calcium	1000	984		mg/Kg		98	80 - 120
Manganese	50.0	48.8		mg/Kg		98	80 - 120
Nickel	50.0	49.6		mg/Kg		99	80 - 120
Selenium	10.0	8.48		mg/Kg		85	80 - 120
Silver	5.00	4.67		mg/Kg		93	80 - 120
Thallium	10.0	9.96		mg/Kg		100	80 - 120
Vanadium	50.0	49.2		mg/Kg		98	80 - 120
Zinc	50.0	48.6		mg/Kg		97	80 - 120
Potassium	1000	944		mg/Kg		94	80 - 120
Sodium	1000	962		mg/Kg		96	80 - 120

Lab Sample ID: 500-185870-1 MS
Matrix: Solid
Analysis Batch: 556556

Client Sample ID: 2412V2-4-B01 (0-5)
Prep Type: Total/NA
Prep Batch: 555964
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	0.45	J F1	27.2	7.17	F1	mg/Kg	☼	25	75 - 125
Arsenic	4.4	F1	5.43	10.2		mg/Kg	☼	106	75 - 125
Barium	27		109	134		mg/Kg	☼	99	75 - 125
Beryllium	0.43	F1 F2	2.72	2.89		mg/Kg	☼	91	75 - 125
Cadmium	0.092	J B F1 F2	2.72	2.30		mg/Kg	☼	81	75 - 125
Chromium	9.4	F1 F2	10.9	21.4		mg/Kg	☼	110	75 - 125
Cobalt	6.7		27.2	33.6		mg/Kg	☼	99	75 - 125
Copper	9.7	F1 F2	13.6	23.1		mg/Kg	☼	99	75 - 125
Iron	11000	F2	54.3	13100	4	mg/Kg	☼	4099	75 - 125
Lead	6.7	F1 F2	5.43	16.8	F1	mg/Kg	☼	186	75 - 125
Magnesium	30000	F2	543	28200	4	mg/Kg	☼	-344	75 - 125
Manganese	230	F2	27.2	306	4	mg/Kg	☼	288	75 - 125
Nickel	13	F1	27.2	42.9		mg/Kg	☼	110	75 - 125
Selenium	<0.31	F1 F2	5.43	3.95	F1	mg/Kg	☼	73	75 - 125
Silver	<0.068	F1 F2	2.72	2.24		mg/Kg	☼	82	75 - 125
Thallium	0.29	J F2	5.43	5.33		mg/Kg	☼	93	75 - 125
Vanadium	14		27.2	43.9		mg/Kg	☼	110	75 - 125
Zinc	28	F1 F2	27.2	67.0	F1	mg/Kg	☼	142	75 - 125
Potassium	1200	F1 F2	543	2190	F1	mg/Kg	☼	190	75 - 125
Sodium	1200	B F1 F2	543	2090	F1	mg/Kg	☼	170	75 - 125

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

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

Lab Sample ID: 500-185870-1 MS

Matrix: Solid

Analysis Batch: 556556

Client Sample ID: 2412V2-4-B01 (0-5)

Prep Type: Total/NA

Prep Batch: 555964

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Calcium	72000	B	543	66900	4	mg/Kg	☼	-870	75 - 125

Lab Sample ID: 500-185870-1 MSD

Matrix: Solid

Analysis Batch: 556556

Client Sample ID: 2412V2-4-B01 (0-5)

Prep Type: Total/NA

Prep Batch: 555964

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Antimony	0.45	J F1	25.7	6.48	F1	mg/Kg	☼	23	75 - 125	10	20
Arsenic	4.4	F1	5.15	11.5	F1	mg/Kg	☼	139	75 - 125	13	20
Barium	27		103	125		mg/Kg	☼	96	75 - 125	7	20
Beryllium	0.43	F1 F2	2.57	2.14	F1 F2	mg/Kg	☼	66	75 - 125	30	20
Cadmium	0.092	J B F1 F2	2.57	1.68	F1 F2	mg/Kg	☼	62	75 - 125	31	20
Chromium	9.4	F1 F2	10.3	16.6	F1 F2	mg/Kg	☼	70	75 - 125	25	20
Cobalt	6.7		25.7	36.2		mg/Kg	☼	115	75 - 125	7	20
Copper	9.7	F1 F2	12.9	16.9	F1 F2	mg/Kg	☼	56	75 - 125	31	20
Iron	11000	F2	51.5	27500	E 4 F2	mg/Kg	☼	32313	75 - 125	71	20
Lead	6.7	F1 F2	5.15	26.4	F1 F2	mg/Kg	☼	382	75 - 125	44	20
Magnesium	30000	F2	515	14200	4 F2	mg/Kg	☼	-3079	75 - 125	66	20
Manganese	230	F2	25.7	827	4 F2	mg/Kg	☼	2327	75 - 125	92	20
Nickel	13	F1	25.7	51.3	F1	mg/Kg	☼	148	75 - 125	18	20
Selenium	<0.31	F1 F2	5.15	3.12	F1 F2	mg/Kg	☼	61	75 - 125	24	20
Silver	<0.068	F1 F2	2.57	1.41	F1 F2	mg/Kg	☼	55	75 - 125	45	20
Thallium	0.29	J F2	5.15	4.29	F2	mg/Kg	☼	78	75 - 125	22	20
Vanadium	14		25.7	36.3		mg/Kg	☼	86	75 - 125	19	20
Zinc	28	F1 F2	25.7	92.5	F1 F2	mg/Kg	☼	249	75 - 125	32	20
Potassium	1200	F1 F2	515	1600	F2	mg/Kg	☼	86	75 - 125	31	20
Sodium	1200	B F1 F2	515	1670	F2	mg/Kg	☼	97	75 - 125	22	20

Lab Sample ID: 500-185870-1 MSD

Matrix: Solid

Analysis Batch: 556556

Client Sample ID: 2412V2-4-B01 (0-5)

Prep Type: Total/NA

Prep Batch: 555964

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Calcium	72000	B	515	67400	4	mg/Kg	☼	-825	75 - 125	1	20

Lab Sample ID: 500-185870-1 DU

Matrix: Solid

Analysis Batch: 556556

Client Sample ID: 2412V2-4-B01 (0-5)

Prep Type: Total/NA

Prep Batch: 555964

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Antimony	0.45	J F1	0.405	J	mg/Kg	☼	11	20
Arsenic	4.4	F1	4.13		mg/Kg	☼	7	20
Barium	27		35.8	F3	mg/Kg	☼	30	20
Beryllium	0.43	F1 F2	0.449		mg/Kg	☼	4	20
Cadmium	0.092	J B F1 F2	0.0938	J	mg/Kg	☼	2	20
Chromium	9.4	F1 F2	10.2		mg/Kg	☼	8	20
Cobalt	6.7		5.52		mg/Kg	☼	19	20
Copper	9.7	F1 F2	10.4		mg/Kg	☼	7	20
Iron	11000	F2	10700		mg/Kg	☼	1	20

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

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

Lab Sample ID: 500-185870-1 DU

Matrix: Solid

Analysis Batch: 556556

Client Sample ID: 2412V2-4-B01 (0-5)

Prep Type: Total/NA

Prep Batch: 555964

Analyte	Sample		DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Lead	6.7	F1 F2	7.07		mg/Kg	☼	5	20
Magnesium	30000	F2	28500		mg/Kg	☼	5	20
Manganese	230	F2	247		mg/Kg	☼	8	20
Nickel	13	F1	14.5		mg/Kg	☼	10	20
Selenium	<0.31	F1 F2	<0.32		mg/Kg	☼	NC	20
Silver	<0.068	F1 F2	<0.070		mg/Kg	☼	NC	20
Thallium	0.29	J F2	<0.27		mg/Kg	☼	NC	20
Vanadium	14		15.1		mg/Kg	☼	7	20
Zinc	28	F1 F2	33.5		mg/Kg	☼	16	20
Potassium	1200	F1 F2	1240		mg/Kg	☼	7	20
Sodium	1200	B F1 F2	1320		mg/Kg	☼	12	20

Lab Sample ID: 500-185870-1 DU

Matrix: Solid

Analysis Batch: 556556

Client Sample ID: 2412V2-4-B01 (0-5)

Prep Type: Total/NA

Prep Batch: 555964

Analyte	Sample		DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Calcium	72000	B	80800		mg/Kg	☼	12	20

Lab Sample ID: MB 500-556318/1-A

Matrix: Solid

Analysis Batch: 556571

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 556318

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.34		1.0	0.34	mg/Kg		08/11/20 17:37	08/12/20 23:25	1
Barium	<0.11		1.0	0.11	mg/Kg		08/11/20 17:37	08/12/20 23:25	1
Beryllium	<0.093		0.40	0.093	mg/Kg		08/11/20 17:37	08/12/20 23:25	1
Cadmium	0.0424	J	0.20	0.036	mg/Kg		08/11/20 17:37	08/12/20 23:25	1
Chromium	<0.50		1.0	0.50	mg/Kg		08/11/20 17:37	08/12/20 23:25	1
Cobalt	<0.13		0.50	0.13	mg/Kg		08/11/20 17:37	08/12/20 23:25	1
Copper	<0.28		1.0	0.28	mg/Kg		08/11/20 17:37	08/12/20 23:25	1
Iron	<10		20	10	mg/Kg		08/11/20 17:37	08/12/20 23:25	1
Lead	<0.23		0.50	0.23	mg/Kg		08/11/20 17:37	08/12/20 23:25	1
Magnesium	<5.0		10	5.0	mg/Kg		08/11/20 17:37	08/12/20 23:25	1
Calcium	<3.4		20	3.4	mg/Kg		08/11/20 17:37	08/12/20 23:25	1
Manganese	<0.15		1.0	0.15	mg/Kg		08/11/20 17:37	08/12/20 23:25	1
Nickel	<0.29		1.0	0.29	mg/Kg		08/11/20 17:37	08/12/20 23:25	1
Selenium	<0.59		1.0	0.59	mg/Kg		08/11/20 17:37	08/12/20 23:25	1
Silver	<0.13		0.50	0.13	mg/Kg		08/11/20 17:37	08/12/20 23:25	1
Thallium	<0.50		1.0	0.50	mg/Kg		08/11/20 17:37	08/12/20 23:25	1
Vanadium	<0.12		0.50	0.12	mg/Kg		08/11/20 17:37	08/12/20 23:25	1
Zinc	<0.88		2.0	0.88	mg/Kg		08/11/20 17:37	08/12/20 23:25	1
Potassium	<18		50	18	mg/Kg		08/11/20 17:37	08/12/20 23:25	1
Sodium	31.0	J	100	15	mg/Kg		08/11/20 17:37	08/12/20 23:25	1

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

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

Lab Sample ID: LCS 500-556318/2-A
Matrix: Solid
Analysis Batch: 556571

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556318
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	10.0	8.72		mg/Kg		87	80 - 120
Barium	200	190		mg/Kg		95	80 - 120
Beryllium	5.00	4.84		mg/Kg		97	80 - 120
Cadmium	5.00	4.35		mg/Kg		87	80 - 120
Chromium	20.0	19.0		mg/Kg		95	80 - 120
Cobalt	50.0	46.0		mg/Kg		92	80 - 120
Copper	25.0	23.1		mg/Kg		92	80 - 120
Iron	100	111		mg/Kg		111	80 - 120
Lead	10.0	8.77		mg/Kg		88	80 - 120
Magnesium	1000	919		mg/Kg		92	80 - 120
Calcium	1000	953		mg/Kg		95	80 - 120
Manganese	50.0	47.5		mg/Kg		95	80 - 120
Nickel	50.0	45.5		mg/Kg		91	80 - 120
Selenium	10.0	7.98		mg/Kg		80	80 - 120
Silver	5.00	4.40		mg/Kg		88	80 - 120
Thallium	10.0	8.70		mg/Kg		87	80 - 120
Vanadium	50.0	49.0		mg/Kg		98	80 - 120
Zinc	50.0	44.8		mg/Kg		90	80 - 120
Potassium	1000	944		mg/Kg		94	80 - 120
Sodium	1000	943		mg/Kg		94	80 - 120

Lab Sample ID: LCS 500-556726/24-A
Matrix: Solid
Analysis Batch: 556778

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556726
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.100	0.0991		mg/L		99	80 - 120
Barium	0.500	0.510		mg/L		102	80 - 120
Beryllium	0.0500	0.0458		mg/L		92	80 - 120
Cadmium	0.0500	0.0486		mg/L		97	80 - 120
Chromium	0.200	0.192		mg/L		96	80 - 120
Cobalt	0.500	0.485		mg/L		97	80 - 120
Copper	0.250	0.250		mg/L		100	80 - 120
Iron	1.00	1.09		mg/L		109	80 - 120
Lead	0.100	0.0981		mg/L		98	80 - 120
Magnesium	10.0	9.24		mg/L		92	80 - 120
Calcium	10.0	9.75		mg/L		98	80 - 120
Manganese	0.500	0.474		mg/L		95	80 - 120
Nickel	0.500	0.483		mg/L		97	80 - 120
Selenium	0.100	0.0940		mg/L		94	80 - 120
Silver	0.0500	0.0466		mg/L		93	80 - 120
Vanadium	0.500	0.490		mg/L		98	80 - 120
Zinc	0.500	0.463	J	mg/L		93	80 - 120
Potassium	10.0	10.1		mg/L		101	80 - 120

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

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

Lab Sample ID: LCS 500-556726/2-A
Matrix: Solid
Analysis Batch: 556800

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556726
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.100	0.110		mg/L		110	80 - 120
Barium	0.500	0.491	J	mg/L		98	80 - 120
Beryllium	0.0500	0.0487		mg/L		97	80 - 120
Cadmium	0.0500	0.0505		mg/L		101	80 - 120
Chromium	0.200	0.200		mg/L		100	80 - 120
Cobalt	0.500	0.526		mg/L		105	80 - 120
Copper	0.250	0.259		mg/L		104	80 - 120
Iron	1.00	1.04		mg/L		104	80 - 120
Lead	0.100	0.0997		mg/L		100	80 - 120
Magnesium	10.0	9.28		mg/L		93	80 - 120
Calcium	10.0	9.83		mg/L		98	80 - 120
Manganese	0.500	0.479		mg/L		96	80 - 120
Nickel	0.500	0.519		mg/L		104	80 - 120
Selenium	0.100	0.110		mg/L		110	80 - 120
Silver	0.0500	0.0512		mg/L		102	80 - 120
Vanadium	0.500	0.506		mg/L		101	80 - 120
Zinc	0.500	0.574		mg/L		115	80 - 120
Potassium	10.0	10.2		mg/L		102	80 - 120

Lab Sample ID: LCS 500-556796/2-A
Matrix: Solid
Analysis Batch: 557084

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556796
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Lead	0.100	0.103		mg/L		103	80 - 120
Manganese	0.500	0.495		mg/L		99	80 - 120

Lab Sample ID: LB 500-556488/2-C
Matrix: Solid
Analysis Batch: 556800

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 556726

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/13/20 17:12	08/14/20 01:28	1
Barium	<0.050		0.50	0.050	mg/L		08/13/20 17:12	08/14/20 01:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/13/20 17:12	08/14/20 01:28	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/13/20 17:12	08/14/20 01:28	1
Chromium	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:28	1
Cobalt	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:28	1
Copper	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:28	1
Iron	<0.20		0.40	0.20	mg/L		08/13/20 17:12	08/14/20 01:28	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/13/20 17:12	08/14/20 01:28	1
Magnesium	<0.50		2.5	0.50	mg/L		08/13/20 17:12	08/14/20 01:28	1
Calcium	<0.50		5.0	0.50	mg/L		08/13/20 17:12	08/14/20 01:28	1
Manganese	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:28	1
Nickel	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:28	1
Selenium	<0.020		0.050	0.020	mg/L		08/13/20 17:12	08/14/20 01:28	1
Silver	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:28	1
Vanadium	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:28	1
Zinc	<0.020		0.50	0.020	mg/L		08/13/20 17:12	08/14/20 01:28	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

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

Lab Sample ID: LB 500-556488/2-C
Matrix: Solid
Analysis Batch: 556800

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 556726

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	<0.50		2.5	0.50	mg/L		08/13/20 17:12	08/14/20 01:28	1

Lab Sample ID: LB2 500-556490/2-C
Matrix: Solid
Analysis Batch: 556778

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 556726

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/13/20 17:12	08/14/20 01:01	1
Barium	<0.050		0.50	0.050	mg/L		08/13/20 17:12	08/14/20 01:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/13/20 17:12	08/14/20 01:01	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/13/20 17:12	08/14/20 01:01	1
Chromium	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:01	1
Cobalt	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:01	1
Copper	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:01	1
Iron	0.279	J	0.40	0.20	mg/L		08/13/20 17:12	08/14/20 01:01	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/13/20 17:12	08/14/20 01:01	1
Magnesium	<0.50		2.5	0.50	mg/L		08/13/20 17:12	08/14/20 01:01	1
Calcium	<0.50		5.0	0.50	mg/L		08/13/20 17:12	08/14/20 01:01	1
Manganese	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:01	1
Nickel	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:01	1
Selenium	<0.020		0.050	0.020	mg/L		08/13/20 17:12	08/14/20 01:01	1
Silver	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:01	1
Vanadium	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:01	1
Zinc	<0.020		0.50	0.020	mg/L		08/13/20 17:12	08/14/20 01:01	1
Potassium	<0.50		2.5	0.50	mg/L		08/13/20 17:12	08/14/20 01:01	1

Lab Sample ID: LB 500-556478/2-B
Matrix: Solid
Analysis Batch: 557084

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 556796

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		08/14/20 05:55	08/16/20 20:19	1
Manganese	<0.010		0.025	0.010	mg/L		08/14/20 05:55	08/16/20 20:19	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-556726/24-A
Matrix: Solid
Analysis Batch: 556891

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556726
%Rec. Limits

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.469		mg/L		94	80 - 120
Thallium	0.100	0.0994		mg/L		99	80 - 120

Lab Sample ID: LCS 500-556726/2-A
Matrix: Solid
Analysis Batch: 556891

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556726
%Rec. Limits

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.456		mg/L		91	80 - 120

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

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

Lab Sample ID: LCS 500-556726/2-A
Matrix: Solid
Analysis Batch: 556891

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556726

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	0.100	0.104		mg/L		104	80 - 120

Lab Sample ID: LB 500-556488/2-C
Matrix: Solid
Analysis Batch: 556891

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 556726

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/13/20 17:12	08/14/20 09:33	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/13/20 17:12	08/14/20 09:33	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-556702/12-A
Matrix: Solid
Analysis Batch: 556904

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 556702

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/13/20 14:20	08/14/20 09:42	1

Lab Sample ID: LCS 500-556702/14-A
Matrix: Solid
Analysis Batch: 556904

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556702

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00216		mg/L		108	80 - 120

Lab Sample ID: LB 500-556488/2-B
Matrix: Solid
Analysis Batch: 556904

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 556702

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/13/20 14:20	08/14/20 09:44	1

Lab Sample ID: 500-185870-2 MS
Matrix: Solid
Analysis Batch: 556904

Client Sample ID: 2412V2-4-B01 (5-7.5)
Prep Type: TCLP
Prep Batch: 556702

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	<0.00020		0.00100	0.00102		mg/L		102	75 - 125

Lab Sample ID: 500-185870-2 DU
Matrix: Solid
Analysis Batch: 556904

Client Sample ID: 2412V2-4-B01 (5-7.5)
Prep Type: TCLP
Prep Batch: 556702

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	<0.00020		<0.00020		mg/L		NC	20

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-556274/12-A
Matrix: Solid
Analysis Batch: 556451

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 556274

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		08/11/20 14:25	08/12/20 08:06	1

Lab Sample ID: LCS 500-556274/13-A
Matrix: Solid
Analysis Batch: 556451

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556274

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.177		mg/Kg		106	80 - 120

Lab Sample ID: 500-185870-9 MS
Matrix: Solid
Analysis Batch: 556451

Client Sample ID: 2412V2-4-B04 (5-7.5)
Prep Type: Total/NA
Prep Batch: 556274

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	0.019		0.0860	0.117		mg/Kg	☼	113	75 - 125

Lab Sample ID: 500-185870-9 MSD
Matrix: Solid
Analysis Batch: 556451

Client Sample ID: 2412V2-4-B04 (5-7.5)
Prep Type: Total/NA
Prep Batch: 556274

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.019		0.0861	0.110		mg/Kg	☼	106	75 - 125	6	20

Lab Sample ID: 500-185870-9 DU
Matrix: Solid
Analysis Batch: 556451

Client Sample ID: 2412V2-4-B04 (5-7.5)
Prep Type: Total/NA
Prep Batch: 556274

Analyte	Sample Result	Sample Qualifier	Spike Added	DU Result	DU Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.019			0.0188		mg/Kg	☼			2	20

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 500-556842/1-A
Matrix: Solid
Analysis Batch: 557133

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 556842

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.12		0.24	0.12	mg/Kg		08/14/20 12:10	08/14/20 15:17	1

Lab Sample ID: HLCS 500-556842/2-A
Matrix: Solid
Analysis Batch: 557133

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556842

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	12.0	12.3		mg/Kg		103	90 - 110

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

Method: 9012B - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: LCS 500-556842/3-A
Matrix: Solid
Analysis Batch: 557133

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556842
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	2.40	2.33		mg/Kg		97	85 - 115

Lab Sample ID: LLCS 500-556842/4-A
Matrix: Solid
Analysis Batch: 557133

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556842
%Rec.

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	1.20	0.943		mg/Kg		79	75 - 125

Method: 9045D - pH

Lab Sample ID: 500-185870-2 DU
Matrix: Solid
Analysis Batch: 555814

Client Sample ID: 2412V2-4-B01 (5-7.5)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	8.9		8.9		SU		0.7	

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

Client Sample ID: 2412V2-4-B01 (0-5)

Lab Sample ID: 500-185870-1

Date Collected: 08/03/20 08:45

Matrix: Solid

Date Received: 08/03/20 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			556478	08/12/20 12:07	JLC	TAL CHI
SPLP East	Prep	3010A			556796	08/14/20 05:55	LMN	TAL CHI
SPLP East	Analysis	6010B		1	557084	08/16/20 21:10	EEN	TAL CHI
TCLP	Leach	1311			556488	08/12/20 13:50	JLC	TAL CHI
TCLP	Prep	3010A			556726	08/13/20 17:12	BDE	TAL CHI
TCLP	Analysis	6010B		1	556800	08/14/20 02:17	JEF	TAL CHI
TCLP	Leach	1311			556488	08/12/20 13:50	JLC	TAL CHI
TCLP	Prep	3010A			556726	08/13/20 17:12	BDE	TAL CHI
TCLP	Analysis	6020A		1	556891	08/14/20 09:59	FXG	TAL CHI
TCLP	Leach	1311			556488	08/12/20 13:50	JLC	TAL CHI
TCLP	Prep	7470A			556702	08/13/20 14:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	556904	08/14/20 10:10	MJG	TAL CHI
Total/NA	Analysis	9045D		1	555814	08/06/20 19:31	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	555660	08/06/20 10:44	LWN	TAL CHI

Client Sample ID: 2412V2-4-B01 (0-5)

Lab Sample ID: 500-185870-1

Date Collected: 08/03/20 08:45

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 90.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			556445	08/04/20 17:04	PMF	TAL CHI
Total/NA	Analysis	8260B		1	556377	08/12/20 14:05	PMF	TAL CHI
Total/NA	Prep	3541			556759	08/13/20 20:59	JP1	TAL CHI
Total/NA	Analysis	8270D		1	556859	08/14/20 14:57	AJD	TAL CHI
Total/NA	Prep	3050B			555964	08/10/20 06:36	LMN	TAL CHI
Total/NA	Analysis	6010B		1	556556	08/12/20 15:19	EEN	TAL CHI
Total/NA	Prep	3050B			555964	08/10/20 06:36	LMN	TAL CHI
Total/NA	Analysis	6010B		10	556556	08/12/20 15:23	EEN	TAL CHI
Total/NA	Prep	7471B			556274	08/11/20 14:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	556451	08/12/20 08:09	MJG	TAL CHI
Total/NA	Prep	9010C			556842	08/14/20 12:10	MS	TAL CHI
Total/NA	Analysis	9012B		1	557133	08/14/20 15:29	MS	TAL CHI

Client Sample ID: 2412V2-4-B01 (5-7.5)

Lab Sample ID: 500-185870-2

Date Collected: 08/03/20 08:50

Matrix: Solid

Date Received: 08/03/20 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			556478	08/12/20 12:07	JLC	TAL CHI
SPLP East	Prep	3010A			556796	08/14/20 05:55	LMN	TAL CHI
SPLP East	Analysis	6010B		1	557084	08/16/20 21:14	EEN	TAL CHI
TCLP	Leach	1311			556488	08/12/20 13:50	JLC	TAL CHI
TCLP	Prep	3010A			556726	08/13/20 17:12	BDE	TAL CHI
TCLP	Analysis	6010B		1	556778	08/14/20 01:13	EEN	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

Client Sample ID: 2412V2-4-B01 (5-7.5)

Lab Sample ID: 500-185870-2

Date Collected: 08/03/20 08:50

Matrix: Solid

Date Received: 08/03/20 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			556488	08/12/20 13:50	JLC	TAL CHI
TCLP	Prep	3010A			556726	08/13/20 17:12	BDE	TAL CHI
TCLP	Analysis	6010B		5	556800	08/14/20 05:23	JEF	TAL CHI
TCLP	Leach	1311			556488	08/12/20 13:50	JLC	TAL CHI
TCLP	Prep	3010A			556726	08/13/20 17:12	BDE	TAL CHI
TCLP	Analysis	6020A		1	556891	08/14/20 10:36	FXG	TAL CHI
TCLP	Leach	1311			556488	08/12/20 13:50	JLC	TAL CHI
TCLP	Prep	7470A			556702	08/13/20 14:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	556904	08/14/20 10:12	MJG	TAL CHI
Total/NA	Analysis	9045D		1	555814	08/06/20 19:36	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	555660	08/06/20 10:44	LWN	TAL CHI

Client Sample ID: 2412V2-4-B01 (5-7.5)

Lab Sample ID: 500-185870-2

Date Collected: 08/03/20 08:50

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 89.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			556445	08/04/20 17:04	PMF	TAL CHI
Total/NA	Analysis	8260B		1	556377	08/12/20 14:31	PMF	TAL CHI
Total/NA	Prep	3541			556759	08/13/20 20:59	JP1	TAL CHI
Total/NA	Analysis	8270D		1	556859	08/14/20 15:22	AJD	TAL CHI
Total/NA	Prep	3050B			555964	08/10/20 06:36	LMN	TAL CHI
Total/NA	Analysis	6010B		1	556556	08/12/20 16:07	EEN	TAL CHI
Total/NA	Prep	3050B			555964	08/10/20 06:36	LMN	TAL CHI
Total/NA	Analysis	6010B		10	556556	08/12/20 16:12	EEN	TAL CHI
Total/NA	Prep	7471B			556274	08/11/20 14:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	556451	08/12/20 08:11	MJG	TAL CHI
Total/NA	Prep	9010C			556842	08/14/20 12:10	MS	TAL CHI
Total/NA	Analysis	9012B		1	557133	08/14/20 15:31	MS	TAL CHI

Client Sample ID: 2412V2-4-B02 (0-5)

Lab Sample ID: 500-185870-3

Date Collected: 08/03/20 09:10

Matrix: Solid

Date Received: 08/03/20 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			556478	08/12/20 12:07	JLC	TAL CHI
SPLP East	Prep	3010A			556796	08/14/20 05:55	LMN	TAL CHI
SPLP East	Analysis	6010B		1	557084	08/16/20 21:18	EEN	TAL CHI
TCLP	Leach	1311			556488	08/12/20 13:50	JLC	TAL CHI
TCLP	Prep	3010A			556726	08/13/20 17:12	BDE	TAL CHI
TCLP	Analysis	6010B		1	556800	08/14/20 02:22	JEF	TAL CHI
TCLP	Leach	1311			556488	08/12/20 13:50	JLC	TAL CHI
TCLP	Prep	3010A			556726	08/13/20 17:12	BDE	TAL CHI
TCLP	Analysis	6020A		1	556891	08/14/20 10:01	FXG	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

Client Sample ID: 2412V2-4-B02 (0-5)

Date Collected: 08/03/20 09:10

Date Received: 08/03/20 18:25

Lab Sample ID: 500-185870-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			556488	08/12/20 13:50	JLC	TAL CHI
TCLP	Prep	7470A			556702	08/13/20 14:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	556904	08/14/20 10:22	MJG	TAL CHI
Total/NA	Analysis	9045D		1	555814	08/06/20 19:41	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	555660	08/06/20 10:44	LWN	TAL CHI

Client Sample ID: 2412V2-4-B02 (0-5)

Date Collected: 08/03/20 09:10

Date Received: 08/03/20 18:25

Lab Sample ID: 500-185870-3

Matrix: Solid

Percent Solids: 84.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			556445	08/04/20 17:04	PMF	TAL CHI
Total/NA	Analysis	8260B		1	556377	08/12/20 14:57	PMF	TAL CHI
Total/NA	Prep	3541			556759	08/13/20 20:59	JP1	TAL CHI
Total/NA	Analysis	8270D		1	556859	08/14/20 15:47	AJD	TAL CHI
Total/NA	Prep	3050B			555964	08/10/20 06:36	LMN	TAL CHI
Total/NA	Analysis	6010B		1	556556	08/12/20 16:16	EEN	TAL CHI
Total/NA	Prep	7471B			556274	08/11/20 14:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	556451	08/12/20 08:22	MJG	TAL CHI
Total/NA	Prep	9010C			556842	08/14/20 12:10	MS	TAL CHI
Total/NA	Analysis	9012B		1	557133	08/14/20 15:33	MS	TAL CHI

Client Sample ID: 2412V2-4-B02 (5-7.5)

Date Collected: 08/03/20 09:15

Date Received: 08/03/20 18:25

Lab Sample ID: 500-185870-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			556478	08/12/20 12:07	JLC	TAL CHI
SPLP East	Prep	3010A			556796	08/14/20 05:55	LMN	TAL CHI
SPLP East	Analysis	6010B		1	557084	08/16/20 21:22	EEN	TAL CHI
TCLP	Leach	1311			556488	08/12/20 13:50	JLC	TAL CHI
TCLP	Prep	3010A			556726	08/13/20 17:12	BDE	TAL CHI
TCLP	Analysis	6010B		1	556902	08/14/20 08:26	JEF	TAL CHI
TCLP	Leach	1311			556488	08/12/20 13:50	JLC	TAL CHI
TCLP	Prep	3010A			556726	08/13/20 17:12	BDE	TAL CHI
TCLP	Analysis	6010B		5	556902	08/14/20 08:30	JEF	TAL CHI
TCLP	Leach	1311			556488	08/12/20 13:50	JLC	TAL CHI
TCLP	Prep	3010A			556726	08/13/20 17:12	BDE	TAL CHI
TCLP	Analysis	6010B		1	556800	08/14/20 02:26	JEF	TAL CHI
TCLP	Leach	1311			556488	08/12/20 13:50	JLC	TAL CHI
TCLP	Prep	3010A			556726	08/13/20 17:12	BDE	TAL CHI
TCLP	Analysis	6020A		1	556891	08/14/20 10:03	FXG	TAL CHI
TCLP	Leach	1311			556488	08/12/20 13:50	JLC	TAL CHI
TCLP	Prep	7470A			556702	08/13/20 14:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	556904	08/14/20 10:24	MJG	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

Client Sample ID: 2412V2-4-B02 (5-7.5)

Lab Sample ID: 500-185870-4

Date Collected: 08/03/20 09:15

Matrix: Solid

Date Received: 08/03/20 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	555814	08/06/20 19:43	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	555660	08/06/20 10:44	LWN	TAL CHI

Client Sample ID: 2412V2-4-B02 (5-7.5)

Lab Sample ID: 500-185870-4

Date Collected: 08/03/20 09:15

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 91.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			556445	08/04/20 17:04	PMF	TAL CHI
Total/NA	Analysis	8260B		1	556377	08/12/20 15:22	PMF	TAL CHI
Total/NA	Prep	3541			556759	08/13/20 20:59	JP1	TAL CHI
Total/NA	Analysis	8270D		1	556859	08/14/20 16:12	AJD	TAL CHI
Total/NA	Prep	3050B			555964	08/10/20 06:36	LMN	TAL CHI
Total/NA	Analysis	6010B		1	556556	08/12/20 16:19	EEN	TAL CHI
Total/NA	Prep	3050B			555964	08/10/20 06:36	LMN	TAL CHI
Total/NA	Analysis	6010B		10	556556	08/12/20 16:23	EEN	TAL CHI
Total/NA	Prep	7471B			556274	08/11/20 14:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	556451	08/12/20 08:23	MJG	TAL CHI
Total/NA	Prep	9010C			556842	08/14/20 12:10	MS	TAL CHI
Total/NA	Analysis	9012B		1	557133	08/14/20 15:38	MS	TAL CHI

Client Sample ID: 2412V2-4-B03 (0-5)

Lab Sample ID: 500-185870-5

Date Collected: 08/03/20 09:35

Matrix: Solid

Date Received: 08/03/20 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			556478	08/12/20 12:07	JLC	TAL CHI
SPLP East	Prep	3010A			556796	08/14/20 05:55	LMN	TAL CHI
SPLP East	Analysis	6010B		1	557084	08/16/20 21:26	EEN	TAL CHI
TCLP	Leach	1311			556488	08/12/20 13:50	JLC	TAL CHI
TCLP	Prep	3010A			556726	08/13/20 17:12	BDE	TAL CHI
TCLP	Analysis	6010B		1	556800	08/14/20 02:30	JEF	TAL CHI
TCLP	Leach	1311			556488	08/12/20 13:50	JLC	TAL CHI
TCLP	Prep	3010A			556726	08/13/20 17:12	BDE	TAL CHI
TCLP	Analysis	6020A		1	556891	08/14/20 10:05	FXG	TAL CHI
TCLP	Leach	1311			556488	08/12/20 13:50	JLC	TAL CHI
TCLP	Prep	7470A			556702	08/13/20 14:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	556904	08/14/20 10:27	MJG	TAL CHI
Total/NA	Analysis	9045D		1	555814	08/06/20 19:46	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	555660	08/06/20 10:44	LWN	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

Client Sample ID: 2412V2-4-B03 (0-5)

Lab Sample ID: 500-185870-5

Date Collected: 08/03/20 09:35

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 81.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			556445	08/04/20 17:04	PMF	TAL CHI
Total/NA	Analysis	8260B		1	556377	08/12/20 15:48	PMF	TAL CHI
Total/NA	Prep	3541			556759	08/13/20 20:59	JP1	TAL CHI
Total/NA	Analysis	8270D		1	556865	08/14/20 12:35	AJD	TAL CHI
Total/NA	Prep	3050B			555964	08/10/20 06:36	LMN	TAL CHI
Total/NA	Analysis	6010B		1	556556	08/12/20 16:28	EEN	TAL CHI
Total/NA	Prep	7471B			556274	08/11/20 14:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	556451	08/12/20 08:25	MJG	TAL CHI
Total/NA	Prep	9010C			556842	08/14/20 12:10	MS	TAL CHI
Total/NA	Analysis	9012B		1	557133	08/14/20 15:40	MS	TAL CHI

Client Sample ID: 2412V2-4-B03 (5-7.5)

Lab Sample ID: 500-185870-6

Date Collected: 08/03/20 09:40

Matrix: Solid

Date Received: 08/03/20 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			556478	08/12/20 12:07	JLC	TAL CHI
SPLP East	Prep	3010A			556796	08/14/20 05:55	LMN	TAL CHI
SPLP East	Analysis	6010B		1	557084	08/16/20 21:30	EEN	TAL CHI
TCLP	Leach	1311			556488	08/12/20 13:50	JLC	TAL CHI
TCLP	Prep	3010A			556726	08/13/20 17:12	BDE	TAL CHI
TCLP	Analysis	6010B		1	556800	08/14/20 02:34	JEF	TAL CHI
TCLP	Leach	1311			556488	08/12/20 13:50	JLC	TAL CHI
TCLP	Prep	3010A			556726	08/13/20 17:12	BDE	TAL CHI
TCLP	Analysis	6020A		1	556891	08/14/20 10:07	FXG	TAL CHI
TCLP	Leach	1311			556488	08/12/20 13:50	JLC	TAL CHI
TCLP	Prep	7470A			556702	08/13/20 14:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	556904	08/14/20 10:29	MJG	TAL CHI
Total/NA	Analysis	9045D		1	555814	08/06/20 19:48	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	555660	08/06/20 10:44	LWN	TAL CHI

Client Sample ID: 2412V2-4-B03 (5-7.5)

Lab Sample ID: 500-185870-6

Date Collected: 08/03/20 09:40

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 84.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			556445	08/04/20 17:04	PMF	TAL CHI
Total/NA	Analysis	8260B		1	556377	08/12/20 16:14	PMF	TAL CHI
Total/NA	Prep	3541			556759	08/13/20 20:59	JP1	TAL CHI
Total/NA	Analysis	8270D		1	556865	08/14/20 12:08	AJD	TAL CHI
Total/NA	Prep	3050B			555964	08/10/20 06:36	LMN	TAL CHI
Total/NA	Analysis	6010B		1	556556	08/12/20 16:31	EEN	TAL CHI
Total/NA	Prep	7471B			556274	08/11/20 14:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	556451	08/12/20 08:27	MJG	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

Client Sample ID: 2412V2-4-B03 (5-7.5)

Lab Sample ID: 500-185870-6

Date Collected: 08/03/20 09:40

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 84.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	9010C			556842	08/14/20 12:10	MS	TAL CHI
Total/NA	Analysis	9012B		1	557133	08/14/20 15:41	MS	TAL CHI

Client Sample ID: 2412V2-4-B04 (0-5)

Lab Sample ID: 500-185870-7

Date Collected: 08/03/20 10:05

Matrix: Solid

Date Received: 08/03/20 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			556478	08/12/20 12:07	JLC	TAL CHI
SPLP East	Prep	3010A			556796	08/14/20 05:55	LMN	TAL CHI
SPLP East	Analysis	6010B		1	557084	08/16/20 21:34	EEN	TAL CHI
TCLP	Leach	1311			556488	08/12/20 13:50	JLC	TAL CHI
TCLP	Prep	3010A			556726	08/13/20 17:12	BDE	TAL CHI
TCLP	Analysis	6010B		1	556800	08/14/20 02:38	JEF	TAL CHI
TCLP	Leach	1311			556488	08/12/20 13:50	JLC	TAL CHI
TCLP	Prep	3010A			556726	08/13/20 17:12	BDE	TAL CHI
TCLP	Analysis	6020A		1	556891	08/14/20 10:09	FXG	TAL CHI
TCLP	Leach	1311			556488	08/12/20 13:50	JLC	TAL CHI
TCLP	Prep	7470A			556702	08/13/20 14:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	556904	08/14/20 10:31	MJG	TAL CHI
Total/NA	Analysis	9045D		1	555814	08/06/20 19:51	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	555660	08/06/20 10:44	LWN	TAL CHI

Client Sample ID: 2412V2-4-B04 (0-5)

Lab Sample ID: 500-185870-7

Date Collected: 08/03/20 10:05

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 92.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			556445	08/04/20 17:04	PMF	TAL CHI
Total/NA	Analysis	8260B		1	556377	08/12/20 16:39	PMF	TAL CHI
Total/NA	Prep	3541			556759	08/13/20 20:59	JP1	TAL CHI
Total/NA	Analysis	8270D		1	556865	08/14/20 15:45	AJD	TAL CHI
Total/NA	Prep	3050B			555964	08/10/20 06:36	LMN	TAL CHI
Total/NA	Analysis	6010B		1	556556	08/12/20 16:35	EEN	TAL CHI
Total/NA	Prep	7471B			556274	08/11/20 14:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	556451	08/12/20 08:29	MJG	TAL CHI
Total/NA	Prep	9010C			556842	08/14/20 12:10	MS	TAL CHI
Total/NA	Analysis	9012B		1	557133	08/14/20 15:43	MS	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

Client Sample ID: 2412V2-4-B04 (0-5) Dup

Lab Sample ID: 500-185870-8

Date Collected: 08/03/20 10:10

Matrix: Solid

Date Received: 08/03/20 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			556478	08/12/20 12:07	JLC	TAL CHI
SPLP East	Prep	3010A			556796	08/14/20 05:55	LMN	TAL CHI
SPLP East	Analysis	6010B		1	557084	08/16/20 21:38	EEN	TAL CHI
TCLP	Leach	1311			556488	08/12/20 13:50	JLC	TAL CHI
TCLP	Prep	3010A			556726	08/13/20 17:12	BDE	TAL CHI
TCLP	Analysis	6010B		1	556800	08/14/20 02:43	JEF	TAL CHI
TCLP	Leach	1311			556488	08/12/20 13:50	JLC	TAL CHI
TCLP	Prep	3010A			556726	08/13/20 17:12	BDE	TAL CHI
TCLP	Analysis	6020A		1	556891	08/14/20 10:11	FXG	TAL CHI
TCLP	Leach	1311			556488	08/12/20 13:50	JLC	TAL CHI
TCLP	Prep	7470A			556702	08/13/20 14:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	556904	08/14/20 10:33	MJG	TAL CHI
Total/NA	Analysis	9045D		1	555814	08/06/20 19:53	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	555660	08/06/20 10:44	LWN	TAL CHI

Client Sample ID: 2412V2-4-B04 (0-5) Dup

Lab Sample ID: 500-185870-8

Date Collected: 08/03/20 10:10

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 93.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			556445	08/04/20 17:04	PMF	TAL CHI
Total/NA	Analysis	8260B		1	556377	08/12/20 17:05	PMF	TAL CHI
Total/NA	Prep	3541			556759	08/13/20 20:59	JP1	TAL CHI
Total/NA	Analysis	8270D		1	556865	08/14/20 15:18	AJD	TAL CHI
Total/NA	Prep	3050B			555964	08/10/20 06:36	LMN	TAL CHI
Total/NA	Analysis	6010B		1	556556	08/12/20 16:47	EEN	TAL CHI
Total/NA	Prep	7471B			556274	08/11/20 14:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	556451	08/12/20 08:30	MJG	TAL CHI
Total/NA	Prep	9010C			556842	08/14/20 12:10	MS	TAL CHI
Total/NA	Analysis	9012B		1	557133	08/14/20 15:45	MS	TAL CHI

Client Sample ID: 2412V2-4-B04 (5-7.5)

Lab Sample ID: 500-185870-9

Date Collected: 08/03/20 10:15

Matrix: Solid

Date Received: 08/03/20 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			556478	08/12/20 12:07	JLC	TAL CHI
SPLP East	Prep	3010A			556796	08/14/20 05:55	LMN	TAL CHI
SPLP East	Analysis	6010B		1	557084	08/16/20 21:42	EEN	TAL CHI
TCLP	Leach	1311			556488	08/12/20 13:50	JLC	TAL CHI
TCLP	Prep	3010A			556726	08/13/20 17:12	BDE	TAL CHI
TCLP	Analysis	6010B		1	556800	08/14/20 02:47	JEF	TAL CHI
TCLP	Leach	1311			556488	08/12/20 13:50	JLC	TAL CHI
TCLP	Prep	3010A			556726	08/13/20 17:12	BDE	TAL CHI
TCLP	Analysis	6020A		1	556891	08/14/20 10:17	FXG	TAL CHI

Eurofins TestAmerica, Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

Client Sample ID: 2412V2-4-B04 (5-7.5)

Lab Sample ID: 500-185870-9

Date Collected: 08/03/20 10:15

Matrix: Solid

Date Received: 08/03/20 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			556488	08/12/20 13:50	JLC	TAL CHI
TCLP	Prep	7470A			556702	08/13/20 14:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	556904	08/14/20 10:35	MJG	TAL CHI
Total/NA	Analysis	9045D		1	555814	08/06/20 19:56	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	555660	08/06/20 10:44	LWN	TAL CHI

Client Sample ID: 2412V2-4-B04 (5-7.5)

Lab Sample ID: 500-185870-9

Date Collected: 08/03/20 10:15

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 90.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			556445	08/04/20 17:04	PMF	TAL CHI
Total/NA	Analysis	8260B		1	556377	08/12/20 17:31	PMF	TAL CHI
Total/NA	Prep	3541			556759	08/13/20 20:59	JP1	TAL CHI
Total/NA	Analysis	8270D		1	556865	08/14/20 13:02	AJD	TAL CHI
Total/NA	Prep	3050B			555964	08/10/20 06:36	LMN	TAL CHI
Total/NA	Analysis	6010B		1	556556	08/12/20 16:51	EEN	TAL CHI
Total/NA	Prep	3050B			555964	08/10/20 06:36	LMN	TAL CHI
Total/NA	Analysis	6010B		2	556556	08/12/20 16:55	EEN	TAL CHI
Total/NA	Prep	7471B			556274	08/11/20 14:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	556451	08/12/20 08:32	MJG	TAL CHI
Total/NA	Prep	9010C			556842	08/14/20 12:10	MS	TAL CHI
Total/NA	Analysis	9012B		1	557133	08/14/20 15:47	MS	TAL CHI

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185870-1

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-21

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
9012B	9010C	Solid	Cyanide, 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



500-185870 COC

Report To (optional)
Contact: MATT WEISS
Company: TERRACON
Address: 197 Exchange Blvd
Glendale Heights, IL
Address: 630-445-0160
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 #: 500-185870

Chain of Custody Number: _____

Page 1 of 1

Temperature °C of Cooler: 5, 5.7, 5.4

Client		Client Project #		Preservative		Parameter		Matrix		Comments	
<u>Terracon</u>		<u>11170701P</u>									
Project Name		Lab Project #		Date		Time		# of Containers		Matrix	
<u>11170701P</u>											
Project Location/State		Lab PM		Date		Time		# of Containers		Matrix	
<u>Hempshire, IL</u>											
Sampler		Lab PM		Date		Time		# of Containers		Matrix	
<u>D.G.F.</u>											
Lab ID	MS/MSD	Sample ID		Date	Time	# of Containers	Matrix	Vols		Subs	
								<u>Total 23</u>		<u>Inorganics</u>	
								<u>PH</u>		<u>TOTAL 23</u>	
								<u>Inorganics</u>		<u>SPLP 23</u>	
								<u>Inorganics</u>			
<u>1</u>		<u>2412V2-4-B01 (0-5)</u>		<u>8/03/20</u>	<u>0845</u>	<u>6</u>	<u>SO</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>2</u>		<u>2412V2-4-B01 (5-7.5)</u>		<u>8/03/20</u>	<u>0850</u>	<u>6</u>	<u>SO</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>3</u>		<u>2412V2-4-B02 (0-5)</u>		<u>8/03/20</u>	<u>0910</u>	<u>6</u>	<u>SO</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>4</u>		<u>2412V2-4-B02 (5-7.5)</u>		<u>8/03/20</u>	<u>0915</u>	<u>6</u>	<u>SO</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>5</u>		<u>2412V2-4-B03 (0-5)</u>		<u>8/03/20</u>	<u>0935</u>	<u>6</u>	<u>SO</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>6</u>		<u>2412V2-4-B03 (5-7.5)</u>		<u>8/03/20</u>	<u>0940</u>	<u>6</u>	<u>SO</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>7</u>		<u>2412V2-4-B04 (0-5)</u>		<u>8/03/20</u>	<u>1005</u>	<u>6</u>	<u>SO</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>8</u>		<u>2412V2-4-B04 (0-5) Dup</u>		<u>8/03/20</u>	<u>1010</u>	<u>6</u>	<u>SO</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>9</u>		<u>2412V2-4-B04 (5-7.5)</u>		<u>8/03/20</u>	<u>1015</u>	<u>6</u>	<u>SO</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>D. Neel</u>	Company <u>Terracon</u>	Date <u>8/03/20</u>	Time <u>1630</u>	Received By <u>A. Neel</u>	Company <u>TA</u>	Date <u>8/3/20</u>	Time <u>1630</u>
Relinquished By <u>A. Neel</u>	Company <u>TA</u>	Date <u>8/3/20</u>	Time <u>1825</u>	Received By <u>Shirley Scott</u>	Company <u>TA-CRT</u>	Date <u>8/4/20</u>	Time <u>0800</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
* STANDARD TURN
* NO ALUMINUM
* HOLD SPLP 23 INORGANICS PER TERRACON INSTRUCTIONS

Lab Comments:

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-185870-1

Login Number: 185870

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.9,5.7,5.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 557-IL Route 72 at State Street/Getzelman Rd Office Phone Number, if available: _____

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

IL Route 72 (Westbound) IDOT STA 497+20 to 497+90 (ISGS Site 2412V2-6)

City: Hampshire State: IL Zip Code: 60140

County: Kane Township: Hampshire

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

Latitude: 42.08832 Longitude: - 88.53013

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

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

Estimated Volume of debris (cu. Yd.): 87

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

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

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

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

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

Soil from boring B01 was sampled adjacent to ISGS Site No 2412V2-6.

See Exhibit 2 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 No J185872-1.

Also see Preliminary Site Investigation Report prepared by Terracon. CCDD/USFO facility in MSA County.

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

I, Matt Weiss (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51 a] 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

Printed Name: _____

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Date:

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

Comparison of Detected Constituents to MACs-PTB 174-009;Work Order:074A
Preliminary Site Investigation
FAP 557-IL Route 72 at State St./Getzelman Road (PESA #2412V2-6)
Hampshire, Kane Co, IL
Terracon Project No. 11207011P
Page 1 of 2

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2412V2-6-B01 (0-5)	2412V2-6-B01 (5-7.5)
				CCDD	Sample Depth (feet)	(0-5)	(5-7.5)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	8/3/2020	8/3/2020
Inorganic Analytical Parameters							
Arsenic	mg/kg	---	13	11.3		6.8	3.5
Barium	mg/kg	---	110	1500		58	16
Cadmium	mg/kg	---	0.6	5.2		0.11	0.11
Chromium, total	mg/kg	---	16.2	21		13	5.7
Lead	mg/kg	---	36	107		17	5.4
Mercury	mg/kg	---	0.06	0.89		0.047	0.0077
Selenium	mg/kg	---	0.48	1.3		0.43	<0.29
Silver	mg/kg	---	0.55	4.4		<0.070	<0.065
Antimony	mg/kg	---	4.0	5		0.63	<0.19
Beryllium	mg/kg	---	0.59	22		0.67	0.29
Calcium	mg/kg	---	9,300	---		12000	62000
Cobalt	mg/kg	---	8.9	20		9.4	3.5
Copper	mg/kg	---	19.6	2900		14	8.7
Cyanide	mg/kg	---	0.51	---		0.2	<0.15
Iron	mg/kg	---	15,900	15000		17000	9600
Magnesium	mg/kg	---	4,820	325000		7200	36000
Manganese	mg/kg	---	636	630		410	300
Nickel	mg/kg	---	18	100		18	9.8
Potassium	mg/kg	---	1,268	---		930	630
Sodium	mg/kg	---	130	---		3100	1200
Thallium	mg/kg	---	0.32	2.6		0.29	<0.25
Vanadium	mg/kg	---	25.2	550		25	12
Zinc	mg/kg	---	95	5100		59	27
pH			6.25	9		8.5	8.9

Comparison of Detected Constituents to MACs-PTB 174-009;Work Order:074A

Preliminary Site Investigation

FAP 557-IL Route 72 at State St./Getzelman Road (PESA #2412V2-6)

Hampshire, Kane Co, IL

Terracon Project No. 11207011P

Page 2 of 2

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2412V2-6-B01 (0-5)	2412V2-6-B01 (5-7.5)
				CCDD	Sample Depth (feet)	(0-5)	(5-7.5)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	8/3/2020	8/3/2020
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	---	---	---		1.7	0.31
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	---	---	---		0.49	0.15
Cadmium,TCLP	mg/L	---	---	---		<0.0020	<0.0020
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	---	---	---		250	430
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	---	---	---		110	170
Manganese,TCLP	mg/L	---	---	---		0.95	1.3
Nickel,TCLP	mg/L	---	---	---		<0.010	0.015
Potassium,TCLP	mg/L	---	---	---		2.1	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	---	---	---		<0.020	<0.020

ANALYTICAL REPORT

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

Laboratory Job ID: 500-185872-1
Client Project/Site: IDOT - Hampshire - WO 074

For:

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

Attn: Mr. Matthew Weiss



Authorized for release by:
8/17/2020 4:40:29 PM

Richard Wright, Senior Project Manager
(708)746-0045
Richard.Wright@Eurofinset.com

LINKS

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results through
TotalAccess

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 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 - Hampshire - WO 074

Job ID: 500-185872-1

Job ID: 500-185872-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-185872-1

Receipt

The samples were received on 8/3/2020 6:25 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 5.4° C, 5.7° C and 5.9° C.

GC/MS VOA

Method 8260B: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for 556446 recovered outside control limits for the following analytes: Bromomethane and Chloromethane. These analytes were not detected in the associated samples; therefore, the data have been reported. 2412V2-6-B01 (0-5) (500-185872-1) and 2412V2-6-B01 (5-7.5) (500-185872-2)

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

GC/MS Semi VOA

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-556958 was outside the method criteria for the following analyte(s): 2,2'-oxybis[1-chloropropane]. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

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

Metals

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

General Chemistry

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

Organic Prep

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

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185872-1

Client Sample ID: 2412V2-6-B01 (0-5)

Lab Sample ID: 500-185872-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.63	J	1.1	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.8		0.54	0.18	mg/Kg	1	☼	6010B	Total/NA
Barium	58		0.54	0.062	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.67		0.22	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.11	B	0.11	0.019	mg/Kg	1	☼	6010B	Total/NA
Chromium	13		0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.4		0.27	0.071	mg/Kg	1	☼	6010B	Total/NA
Copper	14		0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	17000		11	5.6	mg/Kg	1	☼	6010B	Total/NA
Lead	17		0.27	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	7200		5.4	2.7	mg/Kg	1	☼	6010B	Total/NA
Calcium	12000	B	11	1.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	410		0.54	0.078	mg/Kg	1	☼	6010B	Total/NA
Nickel	18		0.54	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.43	J	0.54	0.32	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.29	J	0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	25		0.27	0.064	mg/Kg	1	☼	6010B	Total/NA
Zinc	59		1.1	0.47	mg/Kg	1	☼	6010B	Total/NA
Potassium	930		27	9.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	3100	B	54	8.0	mg/Kg	1	☼	6010B	Total/NA
Barium	0.49	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	250		5.0	0.50	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	2.1	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.7		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.047		0.018	0.0060	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.20	J	0.28	0.14	mg/Kg	1	☼	9012B	Total/NA
pH	8.5		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2412V2-6-B01 (5-7.5)

Lab Sample ID: 500-185872-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.5		0.50	0.17	mg/Kg	1	☼	6010B	Total/NA
Barium	16		0.50	0.057	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.29		0.20	0.047	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.11		0.10	0.018	mg/Kg	1	☼	6010B	Total/NA
Chromium	5.7		0.50	0.25	mg/Kg	1	☼	6010B	Total/NA
Cobalt	3.5		0.25	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	8.7		0.50	0.14	mg/Kg	1	☼	6010B	Total/NA
Iron	9600		100	52	mg/Kg	10	☼	6010B	Total/NA
Lead	5.4		0.25	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	36000		50	25	mg/Kg	10	☼	6010B	Total/NA
Calcium	62000	B	100	17	mg/Kg	10	☼	6010B	Total/NA
Manganese	300		0.50	0.073	mg/Kg	1	☼	6010B	Total/NA
Nickel	9.8		0.50	0.15	mg/Kg	1	☼	6010B	Total/NA
Vanadium	12		0.25	0.059	mg/Kg	1	☼	6010B	Total/NA
Zinc	27		1.0	0.44	mg/Kg	1	☼	6010B	Total/NA
Potassium	630		25	8.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	1200		50	7.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.15	J	0.50	0.050	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185872-1

Client Sample ID: 2412V2-6-B01 (5-7.5) (Continued)

Lab Sample ID: 500-185872-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	430		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	170		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.3		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.0	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.31		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.0077	J	0.017	0.0058	mg/Kg	1	*	7471B	Total/NA
pH	8.9		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185872-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-185872-1	2412V2-6-B01 (0-5)	Solid	08/03/20 14:30	08/03/20 18:25	
500-185872-2	2412V2-6-B01 (5-7.5)	Solid	08/03/20 14:35	08/03/20 18:25	

- 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 - Hampshire - WO 074

Job ID: 500-185872-1

Client Sample ID: 2412V2-6-B01 (0-5)

Lab Sample ID: 500-185872-1

Date Collected: 08/03/20 14:30

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 87.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0062		0.014	0.0062	mg/Kg	☼	08/04/20 17:04	08/12/20 13:49	1
Benzene	<0.00037		0.0014	0.00037	mg/Kg	☼	08/04/20 17:04	08/12/20 13:49	1
Bromodichloromethane	<0.00029		0.0014	0.00029	mg/Kg	☼	08/04/20 17:04	08/12/20 13:49	1
Bromoform	<0.00042		0.0014	0.00042	mg/Kg	☼	08/04/20 17:04	08/12/20 13:49	1
Bromomethane	<0.0014 *		0.0036	0.0014	mg/Kg	☼	08/04/20 17:04	08/12/20 13:49	1
2-Butanone (MEK)	<0.0016		0.0036	0.0016	mg/Kg	☼	08/04/20 17:04	08/12/20 13:49	1
Carbon disulfide	<0.00075		0.0036	0.00075	mg/Kg	☼	08/04/20 17:04	08/12/20 13:49	1
Carbon tetrachloride	<0.00042		0.0014	0.00042	mg/Kg	☼	08/04/20 17:04	08/12/20 13:49	1
Chlorobenzene	<0.00053		0.0014	0.00053	mg/Kg	☼	08/04/20 17:04	08/12/20 13:49	1
Chloroethane	<0.0011		0.0036	0.0011	mg/Kg	☼	08/04/20 17:04	08/12/20 13:49	1
Chloroform	<0.00050		0.0014	0.00050	mg/Kg	☼	08/04/20 17:04	08/12/20 13:49	1
Chloromethane	<0.0014 *		0.0036	0.0014	mg/Kg	☼	08/04/20 17:04	08/12/20 13:49	1
cis-1,2-Dichloroethene	<0.00040		0.0014	0.00040	mg/Kg	☼	08/04/20 17:04	08/12/20 13:49	1
cis-1,3-Dichloropropene	<0.00043		0.0014	0.00043	mg/Kg	☼	08/04/20 17:04	08/12/20 13:49	1
Dibromochloromethane	<0.00047		0.0014	0.00047	mg/Kg	☼	08/04/20 17:04	08/12/20 13:49	1
1,1-Dichloroethane	<0.00049		0.0014	0.00049	mg/Kg	☼	08/04/20 17:04	08/12/20 13:49	1
1,2-Dichloroethane	<0.0011		0.0036	0.0011	mg/Kg	☼	08/04/20 17:04	08/12/20 13:49	1
1,1-Dichloroethene	<0.00049		0.0014	0.00049	mg/Kg	☼	08/04/20 17:04	08/12/20 13:49	1
1,2-Dichloropropane	<0.00037		0.0014	0.00037	mg/Kg	☼	08/04/20 17:04	08/12/20 13:49	1
1,3-Dichloropropane, Total	<0.00050		0.0014	0.00050	mg/Kg	☼	08/04/20 17:04	08/12/20 13:49	1
Ethylbenzene	<0.00069		0.0014	0.00069	mg/Kg	☼	08/04/20 17:04	08/12/20 13:49	1
2-Hexanone	<0.0011		0.0036	0.0011	mg/Kg	☼	08/04/20 17:04	08/12/20 13:49	1
Methylene Chloride	<0.0014		0.0036	0.0014	mg/Kg	☼	08/04/20 17:04	08/12/20 13:49	1
4-Methyl-2-pentanone (MIBK)	<0.0011		0.0036	0.0011	mg/Kg	☼	08/04/20 17:04	08/12/20 13:49	1
Methyl tert-butyl ether	<0.00042		0.0014	0.00042	mg/Kg	☼	08/04/20 17:04	08/12/20 13:49	1
Styrene	<0.00043		0.0014	0.00043	mg/Kg	☼	08/04/20 17:04	08/12/20 13:49	1
1,1,2,2-Tetrachloroethane	<0.00046		0.0014	0.00046	mg/Kg	☼	08/04/20 17:04	08/12/20 13:49	1
Tetrachloroethene	<0.00049		0.0014	0.00049	mg/Kg	☼	08/04/20 17:04	08/12/20 13:49	1
Toluene	<0.00036		0.0014	0.00036	mg/Kg	☼	08/04/20 17:04	08/12/20 13:49	1
trans-1,2-Dichloroethene	<0.00063		0.0014	0.00063	mg/Kg	☼	08/04/20 17:04	08/12/20 13:49	1
trans-1,3-Dichloropropene	<0.00050		0.0014	0.00050	mg/Kg	☼	08/04/20 17:04	08/12/20 13:49	1
1,1,1-Trichloroethane	<0.00048		0.0014	0.00048	mg/Kg	☼	08/04/20 17:04	08/12/20 13:49	1
1,1,2-Trichloroethane	<0.00061		0.0014	0.00061	mg/Kg	☼	08/04/20 17:04	08/12/20 13:49	1
Trichloroethene	<0.00048		0.0014	0.00048	mg/Kg	☼	08/04/20 17:04	08/12/20 13:49	1
Vinyl acetate	<0.0012		0.0036	0.0012	mg/Kg	☼	08/04/20 17:04	08/12/20 13:49	1
Vinyl chloride	<0.00063		0.0014	0.00063	mg/Kg	☼	08/04/20 17:04	08/12/20 13:49	1
Xylenes, Total	<0.00046		0.0029	0.00046	mg/Kg	☼	08/04/20 17:04	08/12/20 13:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		75 - 131	08/04/20 17:04	08/12/20 13:49	1
Dibromofluoromethane	90		75 - 126	08/04/20 17:04	08/12/20 13:49	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 134	08/04/20 17:04	08/12/20 13:49	1
Toluene-d8 (Surr)	91		75 - 124	08/04/20 17:04	08/12/20 13:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0064		0.036	0.0064	mg/Kg	☼	08/14/20 06:11	08/14/20 19:09	1
Acenaphthylene	<0.0047		0.036	0.0047	mg/Kg	☼	08/14/20 06:11	08/14/20 19:09	1
Anthracene	<0.0060		0.036	0.0060	mg/Kg	☼	08/14/20 06:11	08/14/20 19:09	1
Benzof[a]anthracene	<0.0048		0.036	0.0048	mg/Kg	☼	08/14/20 06:11	08/14/20 19:09	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185872-1

Client Sample ID: 2412V2-6-B01 (0-5)

Lab Sample ID: 500-185872-1

Date Collected: 08/03/20 14:30

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 87.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.0069		0.036	0.0069	mg/Kg	☼	08/14/20 06:11	08/14/20 19:09	1
Benzo[b]fluoranthene	<0.0077		0.036	0.0077	mg/Kg	☼	08/14/20 06:11	08/14/20 19:09	1
Benzo[g,h,i]perylene	<0.012		0.036	0.012	mg/Kg	☼	08/14/20 06:11	08/14/20 19:09	1
Benzo[k]fluoranthene	<0.011		0.036	0.011	mg/Kg	☼	08/14/20 06:11	08/14/20 19:09	1
Bis(2-chloroethoxy)methane	<0.037		0.18	0.037	mg/Kg	☼	08/14/20 06:11	08/14/20 19:09	1
Bis(2-chloroethyl)ether	<0.054		0.18	0.054	mg/Kg	☼	08/14/20 06:11	08/14/20 19:09	1
Bis(2-ethylhexyl) phthalate	<0.066		0.18	0.066	mg/Kg	☼	08/14/20 06:11	08/14/20 19:09	1
4-Bromophenyl phenyl ether	<0.047		0.18	0.047	mg/Kg	☼	08/14/20 06:11	08/14/20 19:09	1
Butyl benzyl phthalate	<0.068		0.18	0.068	mg/Kg	☼	08/14/20 06:11	08/14/20 19:09	1
Carbazole	<0.090		0.18	0.090	mg/Kg	☼	08/14/20 06:11	08/14/20 19:09	1
4-Chloroaniline	<0.17		0.72	0.17	mg/Kg	☼	08/14/20 06:11	08/14/20 19:09	1
4-Chloro-3-methylphenol	<0.12		0.36	0.12	mg/Kg	☼	08/14/20 06:11	08/14/20 19:09	1
2-Chloronaphthalene	<0.040		0.18	0.040	mg/Kg	☼	08/14/20 06:11	08/14/20 19:09	1
2-Chlorophenol	<0.061		0.18	0.061	mg/Kg	☼	08/14/20 06:11	08/14/20 19:09	1
4-Chlorophenyl phenyl ether	<0.042		0.18	0.042	mg/Kg	☼	08/14/20 06:11	08/14/20 19:09	1
Chrysene	<0.0098		0.036	0.0098	mg/Kg	☼	08/14/20 06:11	08/14/20 19:09	1
Dibenz(a,h)anthracene	<0.0069		0.036	0.0069	mg/Kg	☼	08/14/20 06:11	08/14/20 19:09	1
Dibenzofuran	<0.042		0.18	0.042	mg/Kg	☼	08/14/20 06:11	08/14/20 19:09	1
1,2-Dichlorobenzene	<0.043		0.18	0.043	mg/Kg	☼	08/14/20 06:11	08/14/20 19:09	1
1,3-Dichlorobenzene	<0.040		0.18	0.040	mg/Kg	☼	08/14/20 06:11	08/14/20 19:09	1
1,4-Dichlorobenzene	<0.046		0.18	0.046	mg/Kg	☼	08/14/20 06:11	08/14/20 19:09	1
3,3'-Dichlorobenzidine	<0.050		0.18	0.050	mg/Kg	☼	08/14/20 06:11	08/14/20 19:09	1
2,4-Dichlorophenol	<0.085		0.36	0.085	mg/Kg	☼	08/14/20 06:11	08/14/20 19:09	1
Diethyl phthalate	<0.061		0.18	0.061	mg/Kg	☼	08/14/20 06:11	08/14/20 19:09	1
2,4-Dimethylphenol	<0.14		0.36	0.14	mg/Kg	☼	08/14/20 06:11	08/14/20 19:09	1
Dimethyl phthalate	<0.047		0.18	0.047	mg/Kg	☼	08/14/20 06:11	08/14/20 19:09	1
Di-n-butyl phthalate	<0.055		0.18	0.055	mg/Kg	☼	08/14/20 06:11	08/14/20 19:09	1
4,6-Dinitro-2-methylphenol	<0.29		0.72	0.29	mg/Kg	☼	08/14/20 06:11	08/14/20 19:09	1
2,4-Dinitrophenol	<0.63		0.72	0.63	mg/Kg	☼	08/14/20 06:11	08/14/20 19:09	1
2,4-Dinitrotoluene	<0.057		0.18	0.057	mg/Kg	☼	08/14/20 06:11	08/14/20 19:09	1
2,6-Dinitrotoluene	<0.070		0.18	0.070	mg/Kg	☼	08/14/20 06:11	08/14/20 19:09	1
Di-n-octyl phthalate	<0.059		0.18	0.059	mg/Kg	☼	08/14/20 06:11	08/14/20 19:09	1
Fluoranthene	<0.0066		0.036	0.0066	mg/Kg	☼	08/14/20 06:11	08/14/20 19:09	1
Fluorene	<0.0050		0.036	0.0050	mg/Kg	☼	08/14/20 06:11	08/14/20 19:09	1
Hexachlorobenzene	<0.0083		0.072	0.0083	mg/Kg	☼	08/14/20 06:11	08/14/20 19:09	1
Hexachlorobutadiene	<0.056		0.18	0.056	mg/Kg	☼	08/14/20 06:11	08/14/20 19:09	1
Hexachlorocyclopentadiene	<0.21		0.72	0.21	mg/Kg	☼	08/14/20 06:11	08/14/20 19:09	1
Hexachloroethane	<0.055		0.18	0.055	mg/Kg	☼	08/14/20 06:11	08/14/20 19:09	1
Indeno[1,2,3-cd]pyrene	<0.0093		0.036	0.0093	mg/Kg	☼	08/14/20 06:11	08/14/20 19:09	1
Isophorone	<0.040		0.18	0.040	mg/Kg	☼	08/14/20 06:11	08/14/20 19:09	1
2-Methylnaphthalene	<0.0066		0.072	0.0066	mg/Kg	☼	08/14/20 06:11	08/14/20 19:09	1
2-Methylphenol	<0.058		0.18	0.058	mg/Kg	☼	08/14/20 06:11	08/14/20 19:09	1
3 & 4 Methylphenol	<0.060		0.18	0.060	mg/Kg	☼	08/14/20 06:11	08/14/20 19:09	1
Naphthalene	<0.0055		0.036	0.0055	mg/Kg	☼	08/14/20 06:11	08/14/20 19:09	1
2-Nitroaniline	<0.048		0.18	0.048	mg/Kg	☼	08/14/20 06:11	08/14/20 19:09	1
3-Nitroaniline	<0.11		0.36	0.11	mg/Kg	☼	08/14/20 06:11	08/14/20 19:09	1
4-Nitroaniline	<0.15		0.36	0.15	mg/Kg	☼	08/14/20 06:11	08/14/20 19:09	1
Nitrobenzene	<0.0089		0.036	0.0089	mg/Kg	☼	08/14/20 06:11	08/14/20 19:09	1
2-Nitrophenol	<0.085		0.36	0.085	mg/Kg	☼	08/14/20 06:11	08/14/20 19:09	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185872-1

Client Sample ID: 2412V2-6-B01 (0-5)

Lab Sample ID: 500-185872-1

Date Collected: 08/03/20 14:30

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 87.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.34		0.72	0.34	mg/Kg	☼	08/14/20 06:11	08/14/20 19:09	1
N-Nitrosodi-n-propylamine	<0.044		0.072	0.044	mg/Kg	☼	08/14/20 06:11	08/14/20 19:09	1
N-Nitrosodiphenylamine	<0.042		0.18	0.042	mg/Kg	☼	08/14/20 06:11	08/14/20 19:09	1
2,2'-oxybis[1-chloropropane]	<0.042		0.18	0.042	mg/Kg	☼	08/14/20 06:11	08/14/20 19:09	1
Pentachlorophenol	<0.58		0.72	0.58	mg/Kg	☼	08/14/20 06:11	08/14/20 19:09	1
Phenanthrene	<0.0050		0.036	0.0050	mg/Kg	☼	08/14/20 06:11	08/14/20 19:09	1
Phenol	<0.080		0.18	0.080	mg/Kg	☼	08/14/20 06:11	08/14/20 19:09	1
Pyrene	<0.0071		0.036	0.0071	mg/Kg	☼	08/14/20 06:11	08/14/20 19:09	1
1,2,4-Trichlorobenzene	<0.039		0.18	0.039	mg/Kg	☼	08/14/20 06:11	08/14/20 19:09	1
2,4,5-Trichlorophenol	<0.082		0.36	0.082	mg/Kg	☼	08/14/20 06:11	08/14/20 19:09	1
2,4,6-Trichlorophenol	<0.12		0.36	0.12	mg/Kg	☼	08/14/20 06:11	08/14/20 19:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	85		43 - 145	08/14/20 06:11	08/14/20 19:09	1
2-Fluorophenol	89		31 - 166	08/14/20 06:11	08/14/20 19:09	1
Nitrobenzene-d5	83		37 - 147	08/14/20 06:11	08/14/20 19:09	1
Phenol-d5	85		30 - 153	08/14/20 06:11	08/14/20 19:09	1
Terphenyl-d14	93		42 - 157	08/14/20 06:11	08/14/20 19:09	1
2,4,6-Tribromophenol	89		31 - 143	08/14/20 06:11	08/14/20 19:09	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.63	J	1.1	0.21	mg/Kg	☼	08/10/20 06:36	08/12/20 16:59	1
Arsenic	6.8		0.54	0.18	mg/Kg	☼	08/10/20 06:36	08/12/20 16:59	1
Barium	58		0.54	0.062	mg/Kg	☼	08/10/20 06:36	08/12/20 16:59	1
Beryllium	0.67		0.22	0.050	mg/Kg	☼	08/10/20 06:36	08/12/20 16:59	1
Cadmium	0.11	B	0.11	0.019	mg/Kg	☼	08/10/20 06:36	08/12/20 16:59	1
Chromium	13		0.54	0.27	mg/Kg	☼	08/10/20 06:36	08/12/20 16:59	1
Cobalt	9.4		0.27	0.071	mg/Kg	☼	08/10/20 06:36	08/12/20 16:59	1
Copper	14		0.54	0.15	mg/Kg	☼	08/10/20 06:36	08/12/20 16:59	1
Iron	17000		11	5.6	mg/Kg	☼	08/10/20 06:36	08/12/20 16:59	1
Lead	17		0.27	0.12	mg/Kg	☼	08/10/20 06:36	08/12/20 16:59	1
Magnesium	7200		5.4	2.7	mg/Kg	☼	08/10/20 06:36	08/12/20 16:59	1
Calcium	12000	B	11	1.8	mg/Kg	☼	08/10/20 06:36	08/12/20 16:59	1
Manganese	410		0.54	0.078	mg/Kg	☼	08/10/20 06:36	08/12/20 16:59	1
Nickel	18		0.54	0.16	mg/Kg	☼	08/10/20 06:36	08/12/20 16:59	1
Selenium	0.43	J	0.54	0.32	mg/Kg	☼	08/10/20 06:36	08/12/20 16:59	1
Silver	<0.070		0.27	0.070	mg/Kg	☼	08/10/20 06:36	08/12/20 16:59	1
Thallium	0.29	J	0.54	0.27	mg/Kg	☼	08/10/20 06:36	08/12/20 16:59	1
Vanadium	25		0.27	0.064	mg/Kg	☼	08/10/20 06:36	08/12/20 16:59	1
Zinc	59		1.1	0.47	mg/Kg	☼	08/10/20 06:36	08/12/20 16:59	1
Potassium	930		27	9.6	mg/Kg	☼	08/10/20 06:36	08/12/20 16:59	1
Sodium	3100	B	54	8.0	mg/Kg	☼	08/10/20 06:36	08/12/20 16:59	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/13/20 17:12	08/14/20 02:01	1
Barium	0.49	J	0.50	0.050	mg/L		08/13/20 17:12	08/14/20 02:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/13/20 17:12	08/14/20 02:01	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/13/20 17:12	08/14/20 02:01	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185872-1

Client Sample ID: 2412V2-6-B01 (0-5)

Lab Sample ID: 500-185872-1

Date Collected: 08/03/20 14:30

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 87.0

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		08/13/20 17:12	08/14/20 02:01	1
Chromium	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:01	1
Cobalt	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:01	1
Copper	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:01	1
Iron	<0.20		0.40	0.20	mg/L		08/13/20 17:12	08/14/20 02:01	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/13/20 17:12	08/14/20 02:01	1
Magnesium	110		2.5	0.50	mg/L		08/13/20 17:12	08/14/20 02:01	1
Manganese	0.95		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:01	1
Nickel	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:01	1
Potassium	2.1 J		2.5	0.50	mg/L		08/13/20 17:12	08/14/20 02:01	1
Selenium	<0.020		0.050	0.020	mg/L		08/13/20 17:12	08/14/20 02:01	1
Silver	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:01	1
Vanadium	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:01	1
Zinc	<0.020		0.50	0.020	mg/L		08/13/20 17:12	08/14/20 02:01	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		08/14/20 05:55	08/16/20 20:54	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		08/13/20 17:12	08/14/20 09:55	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/13/20 17:12	08/14/20 09:55	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/13/20 14:20	08/14/20 10:05	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.047		0.018	0.0060	mg/Kg	☼	08/10/20 13:50	08/11/20 07:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.20 J		0.28	0.14	mg/Kg	☼	08/14/20 13:10	08/17/20 09:55	1
pH	8.5		0.2	0.2	SU			08/06/20 20:06	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185872-1

Client Sample ID: 2412V2-6-B01 (5-7.5)

Lab Sample ID: 500-185872-2

Date Collected: 08/03/20 14:35

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 92.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0077		0.018	0.0077	mg/Kg	☼	08/04/20 17:04	08/12/20 14:15	1
Benzene	<0.00045		0.0018	0.00045	mg/Kg	☼	08/04/20 17:04	08/12/20 14:15	1
Bromodichloromethane	<0.00036		0.0018	0.00036	mg/Kg	☼	08/04/20 17:04	08/12/20 14:15	1
Bromoform	<0.00052		0.0018	0.00052	mg/Kg	☼	08/04/20 17:04	08/12/20 14:15	1
Bromomethane	<0.0017	*	0.0044	0.0017	mg/Kg	☼	08/04/20 17:04	08/12/20 14:15	1
2-Butanone (MEK)	<0.0020		0.0044	0.0020	mg/Kg	☼	08/04/20 17:04	08/12/20 14:15	1
Carbon disulfide	<0.00092		0.0044	0.00092	mg/Kg	☼	08/04/20 17:04	08/12/20 14:15	1
Carbon tetrachloride	<0.00051		0.0018	0.00051	mg/Kg	☼	08/04/20 17:04	08/12/20 14:15	1
Chlorobenzene	<0.00065		0.0018	0.00065	mg/Kg	☼	08/04/20 17:04	08/12/20 14:15	1
Chloroethane	<0.0013		0.0044	0.0013	mg/Kg	☼	08/04/20 17:04	08/12/20 14:15	1
Chloroform	<0.00061		0.0018	0.00061	mg/Kg	☼	08/04/20 17:04	08/12/20 14:15	1
Chloromethane	<0.0018	*	0.0044	0.0018	mg/Kg	☼	08/04/20 17:04	08/12/20 14:15	1
cis-1,2-Dichloroethene	<0.00050		0.0018	0.00050	mg/Kg	☼	08/04/20 17:04	08/12/20 14:15	1
cis-1,3-Dichloropropene	<0.00053		0.0018	0.00053	mg/Kg	☼	08/04/20 17:04	08/12/20 14:15	1
Dibromochloromethane	<0.00058		0.0018	0.00058	mg/Kg	☼	08/04/20 17:04	08/12/20 14:15	1
1,1-Dichloroethane	<0.00061		0.0018	0.00061	mg/Kg	☼	08/04/20 17:04	08/12/20 14:15	1
1,2-Dichloroethane	<0.0014		0.0044	0.0014	mg/Kg	☼	08/04/20 17:04	08/12/20 14:15	1
1,1-Dichloroethene	<0.00061		0.0018	0.00061	mg/Kg	☼	08/04/20 17:04	08/12/20 14:15	1
1,2-Dichloropropane	<0.00046		0.0018	0.00046	mg/Kg	☼	08/04/20 17:04	08/12/20 14:15	1
1,3-Dichloropropane, Total	<0.00062		0.0018	0.00062	mg/Kg	☼	08/04/20 17:04	08/12/20 14:15	1
Ethylbenzene	<0.00085		0.0018	0.00085	mg/Kg	☼	08/04/20 17:04	08/12/20 14:15	1
2-Hexanone	<0.0014		0.0044	0.0014	mg/Kg	☼	08/04/20 17:04	08/12/20 14:15	1
Methylene Chloride	<0.0017		0.0044	0.0017	mg/Kg	☼	08/04/20 17:04	08/12/20 14:15	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0044	0.0013	mg/Kg	☼	08/04/20 17:04	08/12/20 14:15	1
Methyl tert-butyl ether	<0.00052		0.0018	0.00052	mg/Kg	☼	08/04/20 17:04	08/12/20 14:15	1
Styrene	<0.00053		0.0018	0.00053	mg/Kg	☼	08/04/20 17:04	08/12/20 14:15	1
1,1,2,2-Tetrachloroethane	<0.00057		0.0018	0.00057	mg/Kg	☼	08/04/20 17:04	08/12/20 14:15	1
Tetrachloroethene	<0.00060		0.0018	0.00060	mg/Kg	☼	08/04/20 17:04	08/12/20 14:15	1
Toluene	<0.00045		0.0018	0.00045	mg/Kg	☼	08/04/20 17:04	08/12/20 14:15	1
trans-1,2-Dichloroethene	<0.00078		0.0018	0.00078	mg/Kg	☼	08/04/20 17:04	08/12/20 14:15	1
trans-1,3-Dichloropropene	<0.00062		0.0018	0.00062	mg/Kg	☼	08/04/20 17:04	08/12/20 14:15	1
1,1,1-Trichloroethane	<0.00059		0.0018	0.00059	mg/Kg	☼	08/04/20 17:04	08/12/20 14:15	1
1,1,2-Trichloroethane	<0.00076		0.0018	0.00076	mg/Kg	☼	08/04/20 17:04	08/12/20 14:15	1
Trichloroethene	<0.00060		0.0018	0.00060	mg/Kg	☼	08/04/20 17:04	08/12/20 14:15	1
Vinyl acetate	<0.0015		0.0044	0.0015	mg/Kg	☼	08/04/20 17:04	08/12/20 14:15	1
Vinyl chloride	<0.00078		0.0018	0.00078	mg/Kg	☼	08/04/20 17:04	08/12/20 14:15	1
Xylenes, Total	<0.00057		0.0035	0.00057	mg/Kg	☼	08/04/20 17:04	08/12/20 14:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		75 - 131	08/04/20 17:04	08/12/20 14:15	1
Dibromofluoromethane	86		75 - 126	08/04/20 17:04	08/12/20 14:15	1
1,2-Dichloroethane-d4 (Surr)	83		70 - 134	08/04/20 17:04	08/12/20 14:15	1
Toluene-d8 (Surr)	93		75 - 124	08/04/20 17:04	08/12/20 14:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0062		0.034	0.0062	mg/Kg	☼	08/14/20 06:11	08/14/20 19:34	1
Acenaphthylene	<0.0045		0.034	0.0045	mg/Kg	☼	08/14/20 06:11	08/14/20 19:34	1
Anthracene	<0.0057		0.034	0.0057	mg/Kg	☼	08/14/20 06:11	08/14/20 19:34	1
Benzo[a]anthracene	<0.0046		0.034	0.0046	mg/Kg	☼	08/14/20 06:11	08/14/20 19:34	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185872-1

Client Sample ID: 2412V2-6-B01 (5-7.5)

Lab Sample ID: 500-185872-2

Date Collected: 08/03/20 14:35

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 92.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.0066		0.034	0.0066	mg/Kg	☼	08/14/20 06:11	08/14/20 19:34	1
Benzo[b]fluoranthene	<0.0074		0.034	0.0074	mg/Kg	☼	08/14/20 06:11	08/14/20 19:34	1
Benzo[g,h,i]perylene	<0.011		0.034	0.011	mg/Kg	☼	08/14/20 06:11	08/14/20 19:34	1
Benzo[k]fluoranthene	<0.010		0.034	0.010	mg/Kg	☼	08/14/20 06:11	08/14/20 19:34	1
Bis(2-chloroethoxy)methane	<0.035		0.17	0.035	mg/Kg	☼	08/14/20 06:11	08/14/20 19:34	1
Bis(2-chloroethyl)ether	<0.051		0.17	0.051	mg/Kg	☼	08/14/20 06:11	08/14/20 19:34	1
Bis(2-ethylhexyl) phthalate	<0.063		0.17	0.063	mg/Kg	☼	08/14/20 06:11	08/14/20 19:34	1
4-Bromophenyl phenyl ether	<0.045		0.17	0.045	mg/Kg	☼	08/14/20 06:11	08/14/20 19:34	1
Butyl benzyl phthalate	<0.065		0.17	0.065	mg/Kg	☼	08/14/20 06:11	08/14/20 19:34	1
Carbazole	<0.086		0.17	0.086	mg/Kg	☼	08/14/20 06:11	08/14/20 19:34	1
4-Chloroaniline	<0.16		0.69	0.16	mg/Kg	☼	08/14/20 06:11	08/14/20 19:34	1
4-Chloro-3-methylphenol	<0.12		0.34	0.12	mg/Kg	☼	08/14/20 06:11	08/14/20 19:34	1
2-Chloronaphthalene	<0.038		0.17	0.038	mg/Kg	☼	08/14/20 06:11	08/14/20 19:34	1
2-Chlorophenol	<0.059		0.17	0.059	mg/Kg	☼	08/14/20 06:11	08/14/20 19:34	1
4-Chlorophenyl phenyl ether	<0.040		0.17	0.040	mg/Kg	☼	08/14/20 06:11	08/14/20 19:34	1
Chrysene	<0.0094		0.034	0.0094	mg/Kg	☼	08/14/20 06:11	08/14/20 19:34	1
Dibenz(a,h)anthracene	<0.0066		0.034	0.0066	mg/Kg	☼	08/14/20 06:11	08/14/20 19:34	1
Dibenzofuran	<0.040		0.17	0.040	mg/Kg	☼	08/14/20 06:11	08/14/20 19:34	1
1,2-Dichlorobenzene	<0.041		0.17	0.041	mg/Kg	☼	08/14/20 06:11	08/14/20 19:34	1
1,3-Dichlorobenzene	<0.039		0.17	0.039	mg/Kg	☼	08/14/20 06:11	08/14/20 19:34	1
1,4-Dichlorobenzene	<0.044		0.17	0.044	mg/Kg	☼	08/14/20 06:11	08/14/20 19:34	1
3,3'-Dichlorobenzidine	<0.048		0.17	0.048	mg/Kg	☼	08/14/20 06:11	08/14/20 19:34	1
2,4-Dichlorophenol	<0.081		0.34	0.081	mg/Kg	☼	08/14/20 06:11	08/14/20 19:34	1
Diethyl phthalate	<0.058		0.17	0.058	mg/Kg	☼	08/14/20 06:11	08/14/20 19:34	1
2,4-Dimethylphenol	<0.13		0.34	0.13	mg/Kg	☼	08/14/20 06:11	08/14/20 19:34	1
Dimethyl phthalate	<0.045		0.17	0.045	mg/Kg	☼	08/14/20 06:11	08/14/20 19:34	1
Di-n-butyl phthalate	<0.052		0.17	0.052	mg/Kg	☼	08/14/20 06:11	08/14/20 19:34	1
4,6-Dinitro-2-methylphenol	<0.28		0.69	0.28	mg/Kg	☼	08/14/20 06:11	08/14/20 19:34	1
2,4-Dinitrophenol	<0.60		0.69	0.60	mg/Kg	☼	08/14/20 06:11	08/14/20 19:34	1
2,4-Dinitrotoluene	<0.055		0.17	0.055	mg/Kg	☼	08/14/20 06:11	08/14/20 19:34	1
2,6-Dinitrotoluene	<0.067		0.17	0.067	mg/Kg	☼	08/14/20 06:11	08/14/20 19:34	1
Di-n-octyl phthalate	<0.056		0.17	0.056	mg/Kg	☼	08/14/20 06:11	08/14/20 19:34	1
Fluoranthene	<0.0064		0.034	0.0064	mg/Kg	☼	08/14/20 06:11	08/14/20 19:34	1
Fluorene	<0.0048		0.034	0.0048	mg/Kg	☼	08/14/20 06:11	08/14/20 19:34	1
Hexachlorobenzene	<0.0079		0.069	0.0079	mg/Kg	☼	08/14/20 06:11	08/14/20 19:34	1
Hexachlorobutadiene	<0.054		0.17	0.054	mg/Kg	☼	08/14/20 06:11	08/14/20 19:34	1
Hexachlorocyclopentadiene	<0.20		0.69	0.20	mg/Kg	☼	08/14/20 06:11	08/14/20 19:34	1
Hexachloroethane	<0.052		0.17	0.052	mg/Kg	☼	08/14/20 06:11	08/14/20 19:34	1
Indeno[1,2,3-cd]pyrene	<0.0089		0.034	0.0089	mg/Kg	☼	08/14/20 06:11	08/14/20 19:34	1
Isophorone	<0.039		0.17	0.039	mg/Kg	☼	08/14/20 06:11	08/14/20 19:34	1
2-Methylnaphthalene	<0.0063		0.069	0.0063	mg/Kg	☼	08/14/20 06:11	08/14/20 19:34	1
2-Methylphenol	<0.055		0.17	0.055	mg/Kg	☼	08/14/20 06:11	08/14/20 19:34	1
3 & 4 Methylphenol	<0.057		0.17	0.057	mg/Kg	☼	08/14/20 06:11	08/14/20 19:34	1
Naphthalene	<0.0053		0.034	0.0053	mg/Kg	☼	08/14/20 06:11	08/14/20 19:34	1
2-Nitroaniline	<0.046		0.17	0.046	mg/Kg	☼	08/14/20 06:11	08/14/20 19:34	1
3-Nitroaniline	<0.11		0.34	0.11	mg/Kg	☼	08/14/20 06:11	08/14/20 19:34	1
4-Nitroaniline	<0.14		0.34	0.14	mg/Kg	☼	08/14/20 06:11	08/14/20 19:34	1
Nitrobenzene	<0.0086		0.034	0.0086	mg/Kg	☼	08/14/20 06:11	08/14/20 19:34	1
2-Nitrophenol	<0.081		0.34	0.081	mg/Kg	☼	08/14/20 06:11	08/14/20 19:34	1

Euofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185872-1

Client Sample ID: 2412V2-6-B01 (5-7.5)

Lab Sample ID: 500-185872-2

Date Collected: 08/03/20 14:35

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 92.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.33		0.69	0.33	mg/Kg	☼	08/14/20 06:11	08/14/20 19:34	1
N-Nitrosodi-n-propylamine	<0.042		0.069	0.042	mg/Kg	☼	08/14/20 06:11	08/14/20 19:34	1
N-Nitrosodiphenylamine	<0.040		0.17	0.040	mg/Kg	☼	08/14/20 06:11	08/14/20 19:34	1
2,2'-oxybis[1-chloropropane]	<0.040		0.17	0.040	mg/Kg	☼	08/14/20 06:11	08/14/20 19:34	1
Pentachlorophenol	<0.55		0.69	0.55	mg/Kg	☼	08/14/20 06:11	08/14/20 19:34	1
Phenanthrene	<0.0048		0.034	0.0048	mg/Kg	☼	08/14/20 06:11	08/14/20 19:34	1
Phenol	<0.076		0.17	0.076	mg/Kg	☼	08/14/20 06:11	08/14/20 19:34	1
Pyrene	<0.0068		0.034	0.0068	mg/Kg	☼	08/14/20 06:11	08/14/20 19:34	1
1,2,4-Trichlorobenzene	<0.037		0.17	0.037	mg/Kg	☼	08/14/20 06:11	08/14/20 19:34	1
2,4,5-Trichlorophenol	<0.078		0.34	0.078	mg/Kg	☼	08/14/20 06:11	08/14/20 19:34	1
2,4,6-Trichlorophenol	<0.12		0.34	0.12	mg/Kg	☼	08/14/20 06:11	08/14/20 19:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	85		43 - 145				08/14/20 06:11	08/14/20 19:34	1
2-Fluorophenol	88		31 - 166				08/14/20 06:11	08/14/20 19:34	1
Nitrobenzene-d5	84		37 - 147				08/14/20 06:11	08/14/20 19:34	1
Phenol-d5	87		30 - 153				08/14/20 06:11	08/14/20 19:34	1
Terphenyl-d14	87		42 - 157				08/14/20 06:11	08/14/20 19:34	1
2,4,6-Tribromophenol	83		31 - 143				08/14/20 06:11	08/14/20 19:34	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.19		1.0	0.19	mg/Kg	☼	08/10/20 06:36	08/12/20 17:03	1
Arsenic	3.5		0.50	0.17	mg/Kg	☼	08/10/20 06:36	08/12/20 17:03	1
Barium	16		0.50	0.057	mg/Kg	☼	08/10/20 06:36	08/12/20 17:03	1
Beryllium	0.29		0.20	0.047	mg/Kg	☼	08/10/20 06:36	08/12/20 17:03	1
Cadmium	0.11		0.10	0.018	mg/Kg	☼	08/10/20 06:36	08/12/20 17:03	1
Chromium	5.7		0.50	0.25	mg/Kg	☼	08/10/20 06:36	08/12/20 17:03	1
Cobalt	3.5		0.25	0.066	mg/Kg	☼	08/10/20 06:36	08/12/20 17:03	1
Copper	8.7		0.50	0.14	mg/Kg	☼	08/10/20 06:36	08/12/20 17:03	1
Iron	9600		100	52	mg/Kg	☼	08/10/20 06:36	08/12/20 17:07	10
Lead	5.4		0.25	0.12	mg/Kg	☼	08/10/20 06:36	08/12/20 17:03	1
Magnesium	36000		50	25	mg/Kg	☼	08/10/20 06:36	08/12/20 17:07	10
Calcium	62000	B	100	17	mg/Kg	☼	08/10/20 06:36	08/12/20 17:07	10
Manganese	300		0.50	0.073	mg/Kg	☼	08/10/20 06:36	08/12/20 17:03	1
Nickel	9.8		0.50	0.15	mg/Kg	☼	08/10/20 06:36	08/12/20 17:03	1
Selenium	<0.29		0.50	0.29	mg/Kg	☼	08/10/20 06:36	08/12/20 17:03	1
Silver	<0.065		0.25	0.065	mg/Kg	☼	08/10/20 06:36	08/12/20 17:03	1
Thallium	<0.25		0.50	0.25	mg/Kg	☼	08/10/20 06:36	08/12/20 17:03	1
Vanadium	12		0.25	0.059	mg/Kg	☼	08/10/20 06:36	08/12/20 17:03	1
Zinc	27		1.0	0.44	mg/Kg	☼	08/10/20 06:36	08/12/20 17:03	1
Potassium	630		25	8.9	mg/Kg	☼	08/10/20 06:36	08/12/20 17:03	1
Sodium	1200		50	7.4	mg/Kg	☼	08/10/20 06:36	08/12/20 17:03	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/13/20 17:12	08/14/20 02:05	1
Barium	0.15	J	0.50	0.050	mg/L		08/13/20 17:12	08/14/20 02:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/13/20 17:12	08/14/20 02:05	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/13/20 17:12	08/14/20 02:05	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185872-1

Client Sample ID: 2412V2-6-B01 (5-7.5)

Lab Sample ID: 500-185872-2

Date Collected: 08/03/20 14:35

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 92.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	430		5.0	0.50	mg/L		08/13/20 17:12	08/14/20 02:05	1
Chromium	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:05	1
Cobalt	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:05	1
Copper	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:05	1
Iron	<0.20		0.40	0.20	mg/L		08/13/20 17:12	08/14/20 02:05	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/13/20 17:12	08/14/20 02:05	1
Magnesium	170		2.5	0.50	mg/L		08/13/20 17:12	08/14/20 02:05	1
Manganese	1.3		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:05	1
Nickel	0.015	J	0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:05	1
Potassium	1.0	J	2.5	0.50	mg/L		08/13/20 17:12	08/14/20 02:05	1
Selenium	<0.020		0.050	0.020	mg/L		08/13/20 17:12	08/14/20 02:05	1
Silver	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:05	1
Vanadium	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 02:05	1
Zinc	<0.020		0.50	0.020	mg/L		08/13/20 17:12	08/14/20 02:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.31		0.025	0.010	mg/L		08/14/20 05:55	08/16/20 21:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/13/20 17:12	08/14/20 09:57	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/13/20 17:12	08/14/20 09:57	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		08/13/20 14:20	08/14/20 10:07	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0077	J	0.017	0.0058	mg/Kg	☼	08/10/20 13:50	08/11/20 07:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.15		0.30	0.15	mg/Kg	☼	08/14/20 13:10	08/17/20 10:07	1
pH	8.9		0.2	0.2	SU			08/06/20 20:08	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185872-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD 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
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
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185872-1

GC/MS VOA

Analysis Batch: 556446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185872-1	2412V2-6-B01 (0-5)	Total/NA	Solid	8260B	556455
500-185872-2	2412V2-6-B01 (5-7.5)	Total/NA	Solid	8260B	556455
MB 500-556446/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-556446/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-556446/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

Prep Batch: 556455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185872-1	2412V2-6-B01 (0-5)	Total/NA	Solid	5035	
500-185872-2	2412V2-6-B01 (5-7.5)	Total/NA	Solid	5035	

GC/MS Semi VOA

Prep Batch: 556799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185872-1	2412V2-6-B01 (0-5)	Total/NA	Solid	3541	
500-185872-2	2412V2-6-B01 (5-7.5)	Total/NA	Solid	3541	
MB 500-556799/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-556799/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 556859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185872-1	2412V2-6-B01 (0-5)	Total/NA	Solid	8270D	556799
500-185872-2	2412V2-6-B01 (5-7.5)	Total/NA	Solid	8270D	556799

Analysis Batch: 556958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-556799/1-A	Method Blank	Total/NA	Solid	8270D	556799
LCS 500-556799/2-A	Lab Control Sample	Total/NA	Solid	8270D	556799

Metals

Prep Batch: 555964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185872-1	2412V2-6-B01 (0-5)	Total/NA	Solid	3050B	
500-185872-2	2412V2-6-B01 (5-7.5)	Total/NA	Solid	3050B	
MB 500-555964/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-555964/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 556140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185872-1	2412V2-6-B01 (0-5)	Total/NA	Solid	7471B	
500-185872-2	2412V2-6-B01 (5-7.5)	Total/NA	Solid	7471B	
MB 500-556140/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-556140/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 556251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185872-1	2412V2-6-B01 (0-5)	Total/NA	Solid	7471B	556140
500-185872-2	2412V2-6-B01 (5-7.5)	Total/NA	Solid	7471B	556140
MB 500-556140/12-A	Method Blank	Total/NA	Solid	7471B	556140
LCS 500-556140/13-A	Lab Control Sample	Total/NA	Solid	7471B	556140

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185872-1

Metals

Prep Batch: 556318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-556318/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-556318/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Leach Batch: 556478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185872-1	2412V2-6-B01 (0-5)	SPLP East	Solid	1312	
500-185872-2	2412V2-6-B01 (5-7.5)	SPLP East	Solid	1312	
LB 500-556478/2-B	Method Blank	SPLP East	Solid	1312	

Leach Batch: 556488

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185872-1	2412V2-6-B01 (0-5)	TCLP	Solid	1311	
500-185872-2	2412V2-6-B01 (5-7.5)	TCLP	Solid	1311	
LB 500-556488/2-B	Method Blank	TCLP	Solid	1311	
LB 500-556488/2-C	Method Blank	TCLP	Solid	1311	

Analysis Batch: 556556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185872-1	2412V2-6-B01 (0-5)	Total/NA	Solid	6010B	555964
500-185872-2	2412V2-6-B01 (5-7.5)	Total/NA	Solid	6010B	555964
500-185872-2	2412V2-6-B01 (5-7.5)	Total/NA	Solid	6010B	555964
MB 500-555964/1-A	Method Blank	Total/NA	Solid	6010B	555964
LCS 500-555964/2-A	Lab Control Sample	Total/NA	Solid	6010B	555964

Analysis Batch: 556571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-556318/1-A	Method Blank	Total/NA	Solid	6010B	556318
LCS 500-556318/2-A	Lab Control Sample	Total/NA	Solid	6010B	556318

Prep Batch: 556702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185872-1	2412V2-6-B01 (0-5)	TCLP	Solid	7470A	556488
500-185872-2	2412V2-6-B01 (5-7.5)	TCLP	Solid	7470A	556488
LB 500-556488/2-B	Method Blank	TCLP	Solid	7470A	556488
MB 500-556702/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-556702/14-A	Lab Control Sample	Total/NA	Solid	7470A	

Prep Batch: 556726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185872-1	2412V2-6-B01 (0-5)	TCLP	Solid	3010A	556488
500-185872-2	2412V2-6-B01 (5-7.5)	TCLP	Solid	3010A	556488
LB 500-556488/2-C	Method Blank	TCLP	Solid	3010A	556488
LCS 500-556726/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 556796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185872-1	2412V2-6-B01 (0-5)	SPLP East	Solid	3010A	556478
500-185872-2	2412V2-6-B01 (5-7.5)	SPLP East	Solid	3010A	556478
LB 500-556478/2-B	Method Blank	SPLP East	Solid	3010A	556478
LCS 500-556796/2-A	Lab Control Sample	Total/NA	Solid	3010A	

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185872-1

Metals

Analysis Batch: 556800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185872-1	2412V2-6-B01 (0-5)	TCLP	Solid	6010B	556726
500-185872-2	2412V2-6-B01 (5-7.5)	TCLP	Solid	6010B	556726
LB 500-556488/2-C	Method Blank	TCLP	Solid	6010B	556726
LCS 500-556726/2-A	Lab Control Sample	Total/NA	Solid	6010B	556726

Analysis Batch: 556891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185872-1	2412V2-6-B01 (0-5)	TCLP	Solid	6020A	556726
500-185872-2	2412V2-6-B01 (5-7.5)	TCLP	Solid	6020A	556726
LB 500-556488/2-C	Method Blank	TCLP	Solid	6020A	556726
LCS 500-556726/2-A	Lab Control Sample	Total/NA	Solid	6020A	556726

Analysis Batch: 556904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185872-1	2412V2-6-B01 (0-5)	TCLP	Solid	7470A	556702
500-185872-2	2412V2-6-B01 (5-7.5)	TCLP	Solid	7470A	556702
LB 500-556488/2-B	Method Blank	TCLP	Solid	7470A	556702
MB 500-556702/12-A	Method Blank	Total/NA	Solid	7470A	556702
LCS 500-556702/14-A	Lab Control Sample	Total/NA	Solid	7470A	556702

Analysis Batch: 557084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185872-1	2412V2-6-B01 (0-5)	SPLP East	Solid	6010B	556796
500-185872-2	2412V2-6-B01 (5-7.5)	SPLP East	Solid	6010B	556796
LB 500-556478/2-B	Method Blank	SPLP East	Solid	6010B	556796
LCS 500-556796/2-A	Lab Control Sample	Total/NA	Solid	6010B	556796

General Chemistry

Analysis Batch: 555660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185872-1	2412V2-6-B01 (0-5)	Total/NA	Solid	Moisture	
500-185872-2	2412V2-6-B01 (5-7.5)	Total/NA	Solid	Moisture	

Analysis Batch: 555814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185872-1	2412V2-6-B01 (0-5)	Total/NA	Solid	9045D	
500-185872-2	2412V2-6-B01 (5-7.5)	Total/NA	Solid	9045D	
LCS 500-555814/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-555814/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Prep Batch: 556845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185872-1	2412V2-6-B01 (0-5)	Total/NA	Solid	9010C	
500-185872-2	2412V2-6-B01 (5-7.5)	Total/NA	Solid	9010C	
MB 500-556845/1-A	Method Blank	Total/NA	Solid	9010C	
HLCS 500-556845/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 500-556845/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 500-556845/4-A	Lab Control Sample	Total/NA	Solid	9010C	
500-185872-1 MS	2412V2-6-B01 (0-5)	Total/NA	Solid	9010C	
500-185872-1 MSD	2412V2-6-B01 (0-5)	Total/NA	Solid	9010C	

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185872-1

General Chemistry

Analysis Batch: 557233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185872-1	2412V2-6-B01 (0-5)	Total/NA	Solid	9012B	556845
500-185872-2	2412V2-6-B01 (5-7.5)	Total/NA	Solid	9012B	556845
MB 500-556845/1-A	Method Blank	Total/NA	Solid	9012B	556845
HLCS 500-556845/2-A	Lab Control Sample	Total/NA	Solid	9012B	556845
LCS 500-556845/3-A	Lab Control Sample	Total/NA	Solid	9012B	556845
LLCS 500-556845/4-A	Lab Control Sample	Total/NA	Solid	9012B	556845
500-185872-1 MS	2412V2-6-B01 (0-5)	Total/NA	Solid	9012B	556845
500-185872-1 MSD	2412V2-6-B01 (0-5)	Total/NA	Solid	9012B	556845

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185872-1

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)
500-185872-1	2412V2-6-B01 (0-5)	113	90	90	91
500-185872-2	2412V2-6-B01 (5-7.5)	111	86	83	93
LCS 500-556446/4	Lab Control Sample	108	87	81	91
LCS 500-556446/5	Lab Control Sample Dup	108	89	81	90
MB 500-556446/7	Method Blank	108	85	82	93

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)
500-185872-1	2412V2-6-B01 (0-5)	85	89	83	85	93	89
500-185872-2	2412V2-6-B01 (5-7.5)	85	88	84	87	87	83
LCS 500-556799/2-A	Lab Control Sample	96	99	100	89	110	114
MB 500-556799/1-A	Method Blank	83	90	86	75	100	62

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 - Hampshire - WO 074

Job ID: 500-185872-1

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

Lab Sample ID: MB 500-556446/7

Matrix: Solid

Analysis Batch: 556446

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			08/12/20 12:33	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg			08/12/20 12:33	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg			08/12/20 12:33	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg			08/12/20 12:33	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg			08/12/20 12:33	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			08/12/20 12:33	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg			08/12/20 12:33	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg			08/12/20 12:33	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg			08/12/20 12:33	1
Chloroethane	<0.0015		0.0050	0.0015	mg/Kg			08/12/20 12:33	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg			08/12/20 12:33	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg			08/12/20 12:33	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg			08/12/20 12:33	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg			08/12/20 12:33	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg			08/12/20 12:33	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg			08/12/20 12:33	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg			08/12/20 12:33	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg			08/12/20 12:33	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			08/12/20 12:33	1
1,3-Dichloropropene, Total	<0.00070		0.0020	0.00070	mg/Kg			08/12/20 12:33	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg			08/12/20 12:33	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg			08/12/20 12:33	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg			08/12/20 12:33	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg			08/12/20 12:33	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg			08/12/20 12:33	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg			08/12/20 12:33	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg			08/12/20 12:33	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg			08/12/20 12:33	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg			08/12/20 12:33	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg			08/12/20 12:33	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg			08/12/20 12:33	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg			08/12/20 12:33	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg			08/12/20 12:33	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg			08/12/20 12:33	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg			08/12/20 12:33	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg			08/12/20 12:33	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg			08/12/20 12:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		75 - 131		08/12/20 12:33	1
Dibromofluoromethane	85		75 - 126		08/12/20 12:33	1
1,2-Dichloroethane-d4 (Surr)	82		70 - 134		08/12/20 12:33	1
Toluene-d8 (Surr)	93		75 - 124		08/12/20 12:33	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185872-1

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

Lab Sample ID: LCS 500-556446/4

Matrix: Solid

Analysis Batch: 556446

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	0.0453		mg/Kg		91	40 - 150
Benzene	0.0500	0.0554		mg/Kg		111	70 - 125
Bromodichloromethane	0.0500	0.0504		mg/Kg		101	67 - 129
Bromoform	0.0500	0.0458		mg/Kg		92	68 - 136
Bromomethane	0.0500	0.0359		mg/Kg		72	70 - 130
2-Butanone (MEK)	0.0500	0.0470		mg/Kg		94	47 - 138
Carbon disulfide	0.0500	0.0548		mg/Kg		110	70 - 129
Carbon tetrachloride	0.0500	0.0536		mg/Kg		107	75 - 125
Chlorobenzene	0.0500	0.0544		mg/Kg		109	50 - 150
Chloroethane	0.0500	0.0408		mg/Kg		82	75 - 125
Chloroform	0.0500	0.0522		mg/Kg		104	57 - 135
Chloromethane	0.0500	0.0684	*	mg/Kg		137	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0534		mg/Kg		107	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0500		mg/Kg		100	70 - 125
Dibromochloromethane	0.0500	0.0491		mg/Kg		98	69 - 125
1,1-Dichloroethane	0.0500	0.0610		mg/Kg		122	70 - 125
1,2-Dichloroethane	0.0500	0.0485		mg/Kg		97	70 - 130
1,1-Dichloroethene	0.0500	0.0553		mg/Kg		111	70 - 120
1,2-Dichloropropane	0.0500	0.0611		mg/Kg		122	70 - 125
Ethylbenzene	0.0500	0.0551		mg/Kg		110	61 - 136
2-Hexanone	0.0500	0.0510		mg/Kg		102	48 - 146
Methylene Chloride	0.0500	0.0512		mg/Kg		102	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0490		mg/Kg		98	50 - 148
Methyl tert-butyl ether	0.0500	0.0505		mg/Kg		101	50 - 140
Styrene	0.0500	0.0541		mg/Kg		108	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0543		mg/Kg		109	70 - 122
Tetrachloroethene	0.0500	0.0518		mg/Kg		104	70 - 124
Toluene	0.0500	0.0539		mg/Kg		108	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0553		mg/Kg		111	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0496		mg/Kg		99	70 - 125
1,1,1-Trichloroethane	0.0500	0.0540		mg/Kg		108	70 - 128
1,1,2-Trichloroethane	0.0500	0.0497		mg/Kg		99	70 - 125
Trichloroethene	0.0500	0.0547		mg/Kg		109	70 - 125
Vinyl acetate	0.0500	0.0578		mg/Kg		116	40 - 153
Vinyl chloride	0.0500	0.0585		mg/Kg		117	70 - 125
Xylenes, Total	0.100	0.109		mg/Kg		109	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	108		75 - 131
Dibromofluoromethane	87		75 - 126
1,2-Dichloroethane-d4 (Surr)	81		70 - 134
Toluene-d8 (Surr)	91		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185872-1

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

Lab Sample ID: LCSD 500-556446/5
Matrix: Solid
Analysis Batch: 556446

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	0.0461		mg/Kg		92	40 - 150	2	30
Benzene	0.0500	0.0473		mg/Kg		95	70 - 125	16	30
Bromodichloromethane	0.0500	0.0425		mg/Kg		85	67 - 129	17	30
Bromoform	0.0500	0.0371		mg/Kg		74	68 - 136	21	30
Bromomethane	0.0500	0.0322	*	mg/Kg		64	70 - 130	11	30
2-Butanone (MEK)	0.0500	0.0486		mg/Kg		97	47 - 138	3	30
Carbon disulfide	0.0500	0.0490		mg/Kg		98	70 - 129	11	30
Carbon tetrachloride	0.0500	0.0478		mg/Kg		96	75 - 125	11	30
Chlorobenzene	0.0500	0.0455		mg/Kg		91	50 - 150	18	30
Chloroethane	0.0500	0.0395		mg/Kg		79	75 - 125	3	30
Chloroform	0.0500	0.0461		mg/Kg		92	57 - 135	12	30
Chloromethane	0.0500	0.0605		mg/Kg		121	70 - 125	12	30
cis-1,2-Dichloroethene	0.0500	0.0484		mg/Kg		97	70 - 125	10	30
cis-1,3-Dichloropropene	0.0500	0.0409		mg/Kg		82	70 - 125	20	30
Dibromochloromethane	0.0500	0.0395		mg/Kg		79	69 - 125	22	30
1,1-Dichloroethane	0.0500	0.0537		mg/Kg		107	70 - 125	13	30
1,2-Dichloroethane	0.0500	0.0413		mg/Kg		83	70 - 130	16	30
1,1-Dichloroethene	0.0500	0.0492		mg/Kg		98	70 - 120	12	30
1,2-Dichloropropane	0.0500	0.0517		mg/Kg		103	70 - 125	17	30
Ethylbenzene	0.0500	0.0469		mg/Kg		94	61 - 136	16	30
2-Hexanone	0.0500	0.0517		mg/Kg		103	48 - 146	1	30
Methylene Chloride	0.0500	0.0460		mg/Kg		92	70 - 126	11	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0492		mg/Kg		98	50 - 148	0	30
Methyl tert-butyl ether	0.0500	0.0423		mg/Kg		85	50 - 140	18	30
Styrene	0.0500	0.0452		mg/Kg		90	70 - 125	18	30
1,1,2,2-Tetrachloroethane	0.0500	0.0434		mg/Kg		87	70 - 122	22	30
Tetrachloroethene	0.0500	0.0431		mg/Kg		86	70 - 124	18	30
Toluene	0.0500	0.0448		mg/Kg		90	70 - 125	19	30
trans-1,2-Dichloroethene	0.0500	0.0492		mg/Kg		98	70 - 125	12	30
trans-1,3-Dichloropropene	0.0500	0.0405		mg/Kg		81	70 - 125	20	30
1,1,1-Trichloroethane	0.0500	0.0471		mg/Kg		94	70 - 128	14	30
1,1,2-Trichloroethane	0.0500	0.0405		mg/Kg		81	70 - 125	20	30
Trichloroethene	0.0500	0.0460		mg/Kg		92	70 - 125	17	30
Vinyl acetate	0.0500	0.0525		mg/Kg		105	40 - 153	10	30
Vinyl chloride	0.0500	0.0519		mg/Kg		104	70 - 125	12	30
Xylenes, Total	0.100	0.0907		mg/Kg		91	53 - 147	18	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	108		75 - 131
Dibromofluoromethane	89		75 - 126
1,2-Dichloroethane-d4 (Surr)	81		70 - 134
Toluene-d8 (Surr)	90		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185872-1

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

Lab Sample ID: MB 500-556799/1-A
Matrix: Solid
Analysis Batch: 556958

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 556799

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0060		0.033	0.0060	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Acenaphthylene	<0.0044		0.033	0.0044	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Anthracene	<0.0056		0.033	0.0056	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Benzo[a]anthracene	<0.0045		0.033	0.0045	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Benzo[a]pyrene	<0.0064		0.033	0.0064	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Benzo[b]fluoranthene	<0.0072		0.033	0.0072	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Benzo[g,h,i]perylene	<0.011		0.033	0.011	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Benzo[k]fluoranthene	<0.0098		0.033	0.0098	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Bis(2-chloroethoxy)methane	<0.034		0.17	0.034	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Bis(2-chloroethyl)ether	<0.050		0.17	0.050	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Bis(2-ethylhexyl) phthalate	<0.061		0.17	0.061	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
4-Bromophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Butyl benzyl phthalate	<0.063		0.17	0.063	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Carbazole	<0.083		0.17	0.083	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
4-Chloroaniline	<0.16		0.67	0.16	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
4-Chloro-3-methylphenol	<0.11		0.33	0.11	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
2-Chloronaphthalene	<0.037		0.17	0.037	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
2-Chlorophenol	<0.057		0.17	0.057	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
4-Chlorophenyl phenyl ether	<0.039		0.17	0.039	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Chrysene	<0.0091		0.033	0.0091	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Dibenz(a,h)anthracene	<0.0064		0.033	0.0064	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Dibenzofuran	<0.039		0.17	0.039	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
1,2-Dichlorobenzene	<0.040		0.17	0.040	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
1,3-Dichlorobenzene	<0.037		0.17	0.037	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
1,4-Dichlorobenzene	<0.043		0.17	0.043	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
3,3'-Dichlorobenzidine	<0.047		0.17	0.047	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
2,4-Dichlorophenol	<0.079		0.33	0.079	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Diethyl phthalate	<0.056		0.17	0.056	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
2,4-Dimethylphenol	<0.13		0.33	0.13	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Dimethyl phthalate	<0.043		0.17	0.043	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Di-n-butyl phthalate	<0.051		0.17	0.051	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
4,6-Dinitro-2-methylphenol	<0.27		0.67	0.27	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
2,4-Dinitrophenol	<0.59		0.67	0.59	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
2,4-Dinitrotoluene	<0.053		0.17	0.053	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
2,6-Dinitrotoluene	<0.065		0.17	0.065	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Di-n-octyl phthalate	<0.054		0.17	0.054	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Fluoranthene	<0.0062		0.033	0.0062	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Fluorene	<0.0047		0.033	0.0047	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Hexachlorobenzene	<0.0077		0.067	0.0077	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Hexachlorobutadiene	<0.052		0.17	0.052	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Hexachlorocyclopentadiene	<0.19		0.67	0.19	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Hexachloroethane	<0.051		0.17	0.051	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Indeno[1,2,3-cd]pyrene	<0.0086		0.033	0.0086	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Isophorone	<0.037		0.17	0.037	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
2-Methylnaphthalene	<0.0061		0.067	0.0061	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
2-Methylphenol	<0.053		0.17	0.053	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
3 & 4 Methylphenol	<0.055		0.17	0.055	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Naphthalene	<0.0051		0.033	0.0051	mg/Kg		08/14/20 06:11	08/14/20 23:06	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185872-1

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

Lab Sample ID: MB 500-556799/1-A
Matrix: Solid
Analysis Batch: 556958

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 556799

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2-Nitroaniline	<0.045		0.17	0.045	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
3-Nitroaniline	<0.10		0.33	0.10	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
4-Nitroaniline	<0.14		0.33	0.14	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Nitrobenzene	<0.0083		0.033	0.0083	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
2-Nitrophenol	<0.079		0.33	0.079	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
4-Nitrophenol	<0.32		0.67	0.32	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
N-Nitrosodi-n-propylamine	<0.041		0.067	0.041	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
N-Nitrosodiphenylamine	<0.039		0.17	0.039	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
2,2'-oxybis[1-chloropropane]	<0.039		0.17	0.039	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Pentachlorophenol	<0.53		0.67	0.53	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Phenanthrene	<0.0046		0.033	0.0046	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Phenol	<0.074		0.17	0.074	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Pyrene	<0.0066		0.033	0.0066	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
1,2,4-Trichlorobenzene	<0.036		0.17	0.036	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
2,4,5-Trichlorophenol	<0.076		0.33	0.076	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
2,4,6-Trichlorophenol	<0.11		0.33	0.11	mg/Kg		08/14/20 06:11	08/14/20 23:06	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorobiphenyl	83		43 - 145	08/14/20 06:11	08/14/20 23:06	1
2-Fluorophenol	90		31 - 166	08/14/20 06:11	08/14/20 23:06	1
Nitrobenzene-d5	86		37 - 147	08/14/20 06:11	08/14/20 23:06	1
Phenol-d5	75		30 - 153	08/14/20 06:11	08/14/20 23:06	1
Terphenyl-d14	100		42 - 157	08/14/20 06:11	08/14/20 23:06	1
2,4,6-Tribromophenol	62		31 - 143	08/14/20 06:11	08/14/20 23:06	1

Lab Sample ID: LCS 500-556799/2-A
Matrix: Solid
Analysis Batch: 556958

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556799

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthylene	1.33	1.32		mg/Kg		99	68 - 120
Anthracene	1.33	1.14		mg/Kg		86	70 - 114
Benzo[a]anthracene	1.33	1.30		mg/Kg		98	67 - 122
Benzo[a]pyrene	1.33	1.32		mg/Kg		99	65 - 133
Benzo[b]fluoranthene	1.33	1.27		mg/Kg		95	69 - 129
Benzo[g,h,i]perylene	1.33	1.28		mg/Kg		96	72 - 131
Benzo[k]fluoranthene	1.33	1.35		mg/Kg		101	68 - 127
Bis(2-chloroethoxy)methane	1.33	1.20		mg/Kg		90	60 - 112
Bis(2-chloroethyl)ether	1.33	1.08		mg/Kg		81	55 - 111
Bis(2-ethylhexyl) phthalate	1.33	1.17		mg/Kg		88	72 - 131
4-Bromophenyl phenyl ether	1.33	1.30		mg/Kg		97	68 - 118
Butyl benzyl phthalate	1.33	1.30		mg/Kg		97	71 - 129
Carbazole	1.33	1.39		mg/Kg		104	65 - 142
4-Chloroaniline	1.33	0.701		mg/Kg		53	30 - 150
4-Chloro-3-methylphenol	1.33	1.14		mg/Kg		85	65 - 122
2-Chloronaphthalene	1.33	1.32		mg/Kg		99	69 - 114
2-Chlorophenol	1.33	0.979		mg/Kg		73	64 - 110

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185872-1

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

Lab Sample ID: LCS 500-556799/2-A
Matrix: Solid
Analysis Batch: 556958

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556799

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorophenyl phenyl ether	1.33	1.28		mg/Kg		96	62 - 119
Chrysene	1.33	1.34		mg/Kg		100	63 - 120
Dibenz(a,h)anthracene	1.33	1.31		mg/Kg		98	64 - 131
Dibenzofuran	1.33	1.30		mg/Kg		97	66 - 115
1,2-Dichlorobenzene	1.33	1.17		mg/Kg		88	62 - 110
1,3-Dichlorobenzene	1.33	1.19		mg/Kg		89	65 - 124
1,4-Dichlorobenzene	1.33	1.15		mg/Kg		87	61 - 110
3,3'-Dichlorobenzidine	1.33	0.641		mg/Kg		48	35 - 128
2,4-Dichlorophenol	1.33	1.11		mg/Kg		84	58 - 120
Diethyl phthalate	1.33	1.26		mg/Kg		95	58 - 120
2,4-Dimethylphenol	1.33	1.16		mg/Kg		87	60 - 110
Dimethyl phthalate	1.33	1.37		mg/Kg		103	69 - 116
Di-n-butyl phthalate	1.33	1.32		mg/Kg		99	65 - 120
4,6-Dinitro-2-methylphenol	2.67	2.29		mg/Kg		86	10 - 110
2,4-Dinitrophenol	2.67	2.35		mg/Kg		88	10 - 100
2,4-Dinitrotoluene	1.33	1.16		mg/Kg		87	69 - 124
2,6-Dinitrotoluene	1.33	1.37		mg/Kg		103	70 - 123
Di-n-octyl phthalate	1.33	1.29		mg/Kg		97	68 - 134
Fluoranthene	1.33	1.23		mg/Kg		92	62 - 120
Fluorene	1.33	1.34		mg/Kg		100	62 - 120
Hexachlorobenzene	1.33	1.29		mg/Kg		97	63 - 124
Hexachlorobutadiene	1.33	1.29		mg/Kg		97	56 - 120
Hexachlorocyclopentadiene	1.33	0.789		mg/Kg		59	10 - 133
Hexachloroethane	1.33	1.08		mg/Kg		81	60 - 114
Indeno[1,2,3-cd]pyrene	1.33	1.29		mg/Kg		97	68 - 130
Isophorone	1.33	1.42		mg/Kg		107	55 - 110
2-Methylnaphthalene	1.33	1.24		mg/Kg		93	69 - 112
2-Methylphenol	1.33	1.20		mg/Kg		90	60 - 120
3 & 4 Methylphenol	1.33	1.24		mg/Kg		93	57 - 120
Naphthalene	1.33	1.21		mg/Kg		91	63 - 110
2-Nitroaniline	1.33	1.23		mg/Kg		92	57 - 124
3-Nitroaniline	1.33	0.640		mg/Kg		48	40 - 122
4-Nitroaniline	1.33	1.07		mg/Kg		80	60 - 160
Nitrobenzene	1.33	1.25		mg/Kg		94	60 - 116
2-Nitrophenol	1.33	1.29		mg/Kg		96	60 - 120
4-Nitrophenol	2.67	2.29		mg/Kg		86	30 - 122
N-Nitrosodi-n-propylamine	1.33	1.13		mg/Kg		85	56 - 118
N-Nitrosodiphenylamine	1.33	1.32		mg/Kg		99	65 - 112
2,2'-oxybis[1-chloropropane]	1.33	0.971		mg/Kg		73	40 - 124
Pentachlorophenol	2.67	2.21		mg/Kg		83	13 - 112
Phenanthrene	1.33	1.14		mg/Kg		85	62 - 120
Phenol	1.33	1.14		mg/Kg		85	56 - 122
Pyrene	1.33	1.39		mg/Kg		104	61 - 128
1,2,4-Trichlorobenzene	1.33	1.21		mg/Kg		90	66 - 117
2,4,5-Trichlorophenol	1.33	1.30		mg/Kg		98	50 - 120
2,4,6-Trichlorophenol	1.33	1.28		mg/Kg		96	57 - 120

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185872-1

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

Lab Sample ID: LCS 500-556799/2-A
Matrix: Solid
Analysis Batch: 556958

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556799

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	96		43 - 145
2-Fluorophenol	99		31 - 166
Nitrobenzene-d5	100		37 - 147
Phenol-d5	89		30 - 153
Terphenyl-d14	110		42 - 157
2,4,6-Tribromophenol	114		31 - 143

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-555964/1-A
Matrix: Solid
Analysis Batch: 556556

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 555964

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.39		2.0	0.39	mg/Kg		08/10/20 06:36	08/12/20 15:11	1
Arsenic	<0.34		1.0	0.34	mg/Kg		08/10/20 06:36	08/12/20 15:11	1
Barium	<0.11		1.0	0.11	mg/Kg		08/10/20 06:36	08/12/20 15:11	1
Beryllium	<0.093		0.40	0.093	mg/Kg		08/10/20 06:36	08/12/20 15:11	1
Cadmium	<0.036		0.20	0.036	mg/Kg		08/10/20 06:36	08/12/20 15:11	1
Chromium	<0.50		1.0	0.50	mg/Kg		08/10/20 06:36	08/12/20 15:11	1
Cobalt	<0.13		0.50	0.13	mg/Kg		08/10/20 06:36	08/12/20 15:11	1
Copper	<0.28		1.0	0.28	mg/Kg		08/10/20 06:36	08/12/20 15:11	1
Lead	<0.23		0.50	0.23	mg/Kg		08/10/20 06:36	08/12/20 15:11	1
Magnesium	<5.0		10	5.0	mg/Kg		08/10/20 06:36	08/12/20 15:11	1
Calcium	9.31	J	20	3.4	mg/Kg		08/10/20 06:36	08/12/20 15:11	1
Manganese	<0.15		1.0	0.15	mg/Kg		08/10/20 06:36	08/12/20 15:11	1
Nickel	<0.29		1.0	0.29	mg/Kg		08/10/20 06:36	08/12/20 15:11	1
Selenium	<0.59		1.0	0.59	mg/Kg		08/10/20 06:36	08/12/20 15:11	1
Silver	<0.13		0.50	0.13	mg/Kg		08/10/20 06:36	08/12/20 15:11	1
Thallium	<0.50		1.0	0.50	mg/Kg		08/10/20 06:36	08/12/20 15:11	1
Vanadium	<0.12		0.50	0.12	mg/Kg		08/10/20 06:36	08/12/20 15:11	1
Zinc	<0.88		2.0	0.88	mg/Kg		08/10/20 06:36	08/12/20 15:11	1
Potassium	<18		50	18	mg/Kg		08/10/20 06:36	08/12/20 15:11	1
Sodium	<15		100	15	mg/Kg		08/10/20 06:36	08/12/20 15:11	1

Lab Sample ID: LCS 500-555964/2-A
Matrix: Solid
Analysis Batch: 556556

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 555964

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Antimony	50.0	43.7		mg/Kg		87	80 - 120
Arsenic	10.0	9.24		mg/Kg		92	80 - 120
Barium	200	192		mg/Kg		96	80 - 120
Beryllium	5.00	4.86		mg/Kg		97	80 - 120
Cadmium	5.00	4.62		mg/Kg		92	80 - 120
Chromium	20.0	19.5		mg/Kg		98	80 - 120
Cobalt	50.0	49.5		mg/Kg		99	80 - 120
Copper	25.0	24.1		mg/Kg		96	80 - 120
Lead	10.0	9.92		mg/Kg		99	80 - 120

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185872-1

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

Lab Sample ID: LCS 500-555964/2-A
Matrix: Solid
Analysis Batch: 556556

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 555964

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Magnesium	1000	950		mg/Kg		95	80 - 120
Calcium	1000	984		mg/Kg		98	80 - 120
Manganese	50.0	48.8		mg/Kg		98	80 - 120
Nickel	50.0	49.6		mg/Kg		99	80 - 120
Selenium	10.0	8.48		mg/Kg		85	80 - 120
Silver	5.00	4.67		mg/Kg		93	80 - 120
Thallium	10.0	9.96		mg/Kg		100	80 - 120
Vanadium	50.0	49.2		mg/Kg		98	80 - 120
Zinc	50.0	48.6		mg/Kg		97	80 - 120
Potassium	1000	944		mg/Kg		94	80 - 120
Sodium	1000	962		mg/Kg		96	80 - 120

Lab Sample ID: MB 500-556318/1-A
Matrix: Solid
Analysis Batch: 556571

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 556318

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.34		1.0	0.34	mg/Kg		08/11/20 17:37	08/12/20 23:25	1
Barium	<0.11		1.0	0.11	mg/Kg		08/11/20 17:37	08/12/20 23:25	1
Beryllium	<0.093		0.40	0.093	mg/Kg		08/11/20 17:37	08/12/20 23:25	1
Cadmium	0.0424	J	0.20	0.036	mg/Kg		08/11/20 17:37	08/12/20 23:25	1
Chromium	<0.50		1.0	0.50	mg/Kg		08/11/20 17:37	08/12/20 23:25	1
Cobalt	<0.13		0.50	0.13	mg/Kg		08/11/20 17:37	08/12/20 23:25	1
Copper	<0.28		1.0	0.28	mg/Kg		08/11/20 17:37	08/12/20 23:25	1
Iron	<10		20	10	mg/Kg		08/11/20 17:37	08/12/20 23:25	1
Lead	<0.23		0.50	0.23	mg/Kg		08/11/20 17:37	08/12/20 23:25	1
Magnesium	<5.0		10	5.0	mg/Kg		08/11/20 17:37	08/12/20 23:25	1
Calcium	<3.4		20	3.4	mg/Kg		08/11/20 17:37	08/12/20 23:25	1
Manganese	<0.15		1.0	0.15	mg/Kg		08/11/20 17:37	08/12/20 23:25	1
Nickel	<0.29		1.0	0.29	mg/Kg		08/11/20 17:37	08/12/20 23:25	1
Selenium	<0.59		1.0	0.59	mg/Kg		08/11/20 17:37	08/12/20 23:25	1
Silver	<0.13		0.50	0.13	mg/Kg		08/11/20 17:37	08/12/20 23:25	1
Thallium	<0.50		1.0	0.50	mg/Kg		08/11/20 17:37	08/12/20 23:25	1
Vanadium	<0.12		0.50	0.12	mg/Kg		08/11/20 17:37	08/12/20 23:25	1
Zinc	<0.88		2.0	0.88	mg/Kg		08/11/20 17:37	08/12/20 23:25	1
Potassium	<18		50	18	mg/Kg		08/11/20 17:37	08/12/20 23:25	1
Sodium	31.0	J	100	15	mg/Kg		08/11/20 17:37	08/12/20 23:25	1

Lab Sample ID: LCS 500-556318/2-A
Matrix: Solid
Analysis Batch: 556571

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556318

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	10.0	8.72		mg/Kg		87	80 - 120
Barium	200	190		mg/Kg		95	80 - 120
Beryllium	5.00	4.84		mg/Kg		97	80 - 120
Cadmium	5.00	4.35		mg/Kg		87	80 - 120
Chromium	20.0	19.0		mg/Kg		95	80 - 120
Cobalt	50.0	46.0		mg/Kg		92	80 - 120

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185872-1

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

Lab Sample ID: LCS 500-556318/2-A
Matrix: Solid
Analysis Batch: 556571

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556318

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	25.0	23.1		mg/Kg		92	80 - 120
Iron	100	111		mg/Kg		111	80 - 120
Lead	10.0	8.77		mg/Kg		88	80 - 120
Magnesium	1000	919		mg/Kg		92	80 - 120
Calcium	1000	953		mg/Kg		95	80 - 120
Manganese	50.0	47.5		mg/Kg		95	80 - 120
Nickel	50.0	45.5		mg/Kg		91	80 - 120
Selenium	10.0	7.98		mg/Kg		80	80 - 120
Silver	5.00	4.40		mg/Kg		88	80 - 120
Thallium	10.0	8.70		mg/Kg		87	80 - 120
Vanadium	50.0	49.0		mg/Kg		98	80 - 120
Zinc	50.0	44.8		mg/Kg		90	80 - 120
Potassium	1000	944		mg/Kg		94	80 - 120
Sodium	1000	943		mg/Kg		94	80 - 120

Lab Sample ID: LCS 500-556726/2-A
Matrix: Solid
Analysis Batch: 556800

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556726

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.110		mg/L		110	80 - 120
Barium	0.500	0.491	J	mg/L		98	80 - 120
Beryllium	0.0500	0.0487		mg/L		97	80 - 120
Cadmium	0.0500	0.0505		mg/L		101	80 - 120
Chromium	0.200	0.200		mg/L		100	80 - 120
Cobalt	0.500	0.526		mg/L		105	80 - 120
Copper	0.250	0.259		mg/L		104	80 - 120
Iron	1.00	1.04		mg/L		104	80 - 120
Lead	0.100	0.0997		mg/L		100	80 - 120
Magnesium	10.0	9.28		mg/L		93	80 - 120
Calcium	10.0	9.83		mg/L		98	80 - 120
Manganese	0.500	0.479		mg/L		96	80 - 120
Nickel	0.500	0.519		mg/L		104	80 - 120
Selenium	0.100	0.110		mg/L		110	80 - 120
Silver	0.0500	0.0512		mg/L		102	80 - 120
Vanadium	0.500	0.506		mg/L		101	80 - 120
Zinc	0.500	0.574		mg/L		115	80 - 120
Potassium	10.0	10.2		mg/L		102	80 - 120

Lab Sample ID: LCS 500-556796/2-A
Matrix: Solid
Analysis Batch: 557084

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556796

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	0.500	0.495		mg/L		99	80 - 120

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185872-1

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

Lab Sample ID: LB 500-556488/2-C
Matrix: Solid
Analysis Batch: 556800

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 556726

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/13/20 17:12	08/14/20 01:28	1
Barium	<0.050		0.50	0.050	mg/L		08/13/20 17:12	08/14/20 01:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/13/20 17:12	08/14/20 01:28	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/13/20 17:12	08/14/20 01:28	1
Chromium	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:28	1
Cobalt	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:28	1
Copper	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:28	1
Iron	<0.20		0.40	0.20	mg/L		08/13/20 17:12	08/14/20 01:28	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/13/20 17:12	08/14/20 01:28	1
Magnesium	<0.50		2.5	0.50	mg/L		08/13/20 17:12	08/14/20 01:28	1
Calcium	<0.50		5.0	0.50	mg/L		08/13/20 17:12	08/14/20 01:28	1
Manganese	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:28	1
Nickel	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:28	1
Selenium	<0.020		0.050	0.020	mg/L		08/13/20 17:12	08/14/20 01:28	1
Silver	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:28	1
Vanadium	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:28	1
Zinc	<0.020		0.50	0.020	mg/L		08/13/20 17:12	08/14/20 01:28	1
Potassium	<0.50		2.5	0.50	mg/L		08/13/20 17:12	08/14/20 01:28	1

Lab Sample ID: LB 500-556478/2-B
Matrix: Solid
Analysis Batch: 557084

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 556796

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.010		0.025	0.010	mg/L		08/14/20 05:55	08/16/20 20:19	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-556726/2-A
Matrix: Solid
Analysis Batch: 556891

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556726

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.456		mg/L		91	80 - 120
Thallium	0.100	0.104		mg/L		104	80 - 120

Lab Sample ID: LB 500-556488/2-C
Matrix: Solid
Analysis Batch: 556891

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 556726

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/13/20 17:12	08/14/20 09:33	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/13/20 17:12	08/14/20 09:33	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185872-1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-556702/12-A
 Matrix: Solid
 Analysis Batch: 556904

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 556702

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/13/20 14:20	08/14/20 09:42	1

Lab Sample ID: LCS 500-556702/14-A
 Matrix: Solid
 Analysis Batch: 556904

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 556702
 %Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00216		mg/L		108	80 - 120

Lab Sample ID: LB 500-556488/2-B
 Matrix: Solid
 Analysis Batch: 556904

Client Sample ID: Method Blank
 Prep Type: TCLP
 Prep Batch: 556702

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/13/20 14:20	08/14/20 09:44	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-556140/12-A
 Matrix: Solid
 Analysis Batch: 556251

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 556140

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		08/10/20 13:50	08/11/20 06:40	1

Lab Sample ID: LCS 500-556140/13-A
 Matrix: Solid
 Analysis Batch: 556251

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 556140
 %Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.181		mg/Kg		108	80 - 120

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 500-556845/1-A
 Matrix: Solid
 Analysis Batch: 557233

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 556845

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.12		0.24	0.12	mg/Kg		08/14/20 13:10	08/17/20 09:49	1

Lab Sample ID: HLCS 500-556845/2-A
 Matrix: Solid
 Analysis Batch: 557233

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 556845
 %Rec.

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	12.0	11.9		mg/Kg		99	90 - 110

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185872-1

Method: 9012B - Cyanide, Total andor Amenable (Continued)

Lab Sample ID: LCS 500-556845/3-A
Matrix: Solid
Analysis Batch: 557233

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556845
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	2.40	2.49		mg/Kg		104	85 - 115

Lab Sample ID: LLCS 500-556845/4-A
Matrix: Solid
Analysis Batch: 557233

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556845
%Rec.

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	1.20	1.18		mg/Kg		98	75 - 125

Lab Sample ID: 500-185872-1 MS
Matrix: Solid
Analysis Batch: 557233

Client Sample ID: 2412V2-6-B01 (0-5)
Prep Type: Total/NA
Prep Batch: 556845
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	0.20	J	1.48	1.40		mg/Kg	✳	81	75 - 125

Lab Sample ID: 500-185872-1 MSD
Matrix: Solid
Analysis Batch: 557233

Client Sample ID: 2412V2-6-B01 (0-5)
Prep Type: Total/NA
Prep Batch: 556845
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Cyanide, Total	0.20	J	1.46	1.29		mg/Kg	✳	75	75 - 125	8	20

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185872-1

Client Sample ID: 2412V2-6-B01 (0-5)

Lab Sample ID: 500-185872-1

Date Collected: 08/03/20 14:30

Matrix: Solid

Date Received: 08/03/20 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			556478	08/12/20 12:07	JLC	TAL CHI
SPLP East	Prep	3010A			556796	08/14/20 05:55	LMN	TAL CHI
SPLP East	Analysis	6010B		1	557084	08/16/20 20:54	EEN	TAL CHI
TCLP	Leach	1311			556488	08/12/20 13:50	JLC	TAL CHI
TCLP	Prep	3010A			556726	08/13/20 17:12	BDE	TAL CHI
TCLP	Analysis	6010B		1	556800	08/14/20 02:01	JEF	TAL CHI
TCLP	Leach	1311			556488	08/12/20 13:50	JLC	TAL CHI
TCLP	Prep	3010A			556726	08/13/20 17:12	BDE	TAL CHI
TCLP	Analysis	6020A		1	556891	08/14/20 09:55	FXG	TAL CHI
TCLP	Leach	1311			556488	08/12/20 13:50	JLC	TAL CHI
TCLP	Prep	7470A			556702	08/13/20 14:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	556904	08/14/20 10:05	MJG	TAL CHI
Total/NA	Analysis	9045D		1	555814	08/06/20 20:06	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	555660	08/06/20 10:44	LWN	TAL CHI

Client Sample ID: 2412V2-6-B01 (0-5)

Lab Sample ID: 500-185872-1

Date Collected: 08/03/20 14:30

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 87.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			556455	08/04/20 17:04	PMF	TAL CHI
Total/NA	Analysis	8260B		1	556446	08/12/20 13:49	PMF	TAL CHI
Total/NA	Prep	3541			556799	08/14/20 06:11	DAK	TAL CHI
Total/NA	Analysis	8270D		1	556859	08/14/20 19:09	AJD	TAL CHI
Total/NA	Prep	3050B			555964	08/10/20 06:36	LMN	TAL CHI
Total/NA	Analysis	6010B		1	556556	08/12/20 16:59	EEN	TAL CHI
Total/NA	Prep	7471B			556140	08/10/20 13:50	MJG	TAL CHI
Total/NA	Analysis	7471B		1	556251	08/11/20 07:11	MJG	TAL CHI
Total/NA	Prep	9010C			556845	08/14/20 13:10	MS	TAL CHI
Total/NA	Analysis	9012B		1	557233	08/17/20 09:55	MS	TAL CHI

Client Sample ID: 2412V2-6-B01 (5-7.5)

Lab Sample ID: 500-185872-2

Date Collected: 08/03/20 14:35

Matrix: Solid

Date Received: 08/03/20 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			556478	08/12/20 12:07	JLC	TAL CHI
SPLP East	Prep	3010A			556796	08/14/20 05:55	LMN	TAL CHI
SPLP East	Analysis	6010B		1	557084	08/16/20 21:06	EEN	TAL CHI
TCLP	Leach	1311			556488	08/12/20 13:50	JLC	TAL CHI
TCLP	Prep	3010A			556726	08/13/20 17:12	BDE	TAL CHI
TCLP	Analysis	6010B		1	556800	08/14/20 02:05	JEF	TAL CHI
TCLP	Leach	1311			556488	08/12/20 13:50	JLC	TAL CHI
TCLP	Prep	3010A			556726	08/13/20 17:12	BDE	TAL CHI
TCLP	Analysis	6020A		1	556891	08/14/20 09:57	FXG	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185872-1

Client Sample ID: 2412V2-6-B01 (5-7.5)

Lab Sample ID: 500-185872-2

Date Collected: 08/03/20 14:35

Matrix: Solid

Date Received: 08/03/20 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			556488	08/12/20 13:50	JLC	TAL CHI
TCLP	Prep	7470A			556702	08/13/20 14:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	556904	08/14/20 10:07	MJG	TAL CHI
Total/NA	Analysis	9045D		1	555814	08/06/20 20:08	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	555660	08/06/20 10:44	LWN	TAL CHI

Client Sample ID: 2412V2-6-B01 (5-7.5)

Lab Sample ID: 500-185872-2

Date Collected: 08/03/20 14:35

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 92.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			556455	08/04/20 17:04	PMF	TAL CHI
Total/NA	Analysis	8260B		1	556446	08/12/20 14:15	PMF	TAL CHI
Total/NA	Prep	3541			556799	08/14/20 06:11	DAK	TAL CHI
Total/NA	Analysis	8270D		1	556859	08/14/20 19:34	AJD	TAL CHI
Total/NA	Prep	3050B			555964	08/10/20 06:36	LMN	TAL CHI
Total/NA	Analysis	6010B		1	556556	08/12/20 17:03	EEN	TAL CHI
Total/NA	Prep	3050B			555964	08/10/20 06:36	LMN	TAL CHI
Total/NA	Analysis	6010B		10	556556	08/12/20 17:07	EEN	TAL CHI
Total/NA	Prep	7471B			556140	08/10/20 13:50	MJG	TAL CHI
Total/NA	Analysis	7471B		1	556251	08/11/20 07:13	MJG	TAL CHI
Total/NA	Prep	9010C			556845	08/14/20 13:10	MS	TAL CHI
Total/NA	Analysis	9012B		1	557233	08/17/20 10:07	MS	TAL CHI

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185872-1

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-21

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
9012B	9010C	Solid	Cyanide, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL T

2417 Bond Street, University Park, IL 6048
Phone: 708.534.5200 Fax: 708.534.5



500-185872 COC

Report To (optional)
Contact: Matt Weiss
Company: Terracon
Address: 192 Exchange Blvd
Address: Glendale Heights, IL
Phone: 630-445-0660
Fax:
E-Mail: matt.weiss@terracon.com

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

Chain of Custody Record

Lab Job #: 500-185872

Chain of Custody Number: _____

Page 1 of 1

Temperature °C of Cooler: 5.9, 5.7, 5.4

Client		Client Project #		Preservative		Parameter		Matrix		Comments					
<u>Terracon</u>		<u>11/20/2018</u>													
Project Name		Lab Project #		Date		Time		# of Containers		Matrix					
<u>11/20/2018</u>															
Project Location/State		Lab PM		Date		Time		# of Containers		Matrix					
<u>Hempshire, IL</u>															
Sampler		Lab Project #		Date		Time		# of Containers		Matrix					
<u>D.G. Ft</u>															
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	Ubc's	SUOC's	Total 23	Inorganics	PH	TECP 23	Inorganics	SPCP 23	Inorganics
<u>1</u>		<u>241202-6-B01 (0.5)</u>	<u>8/3/20</u>	<u>1430</u>	<u>6</u>	<u>SO</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>2</u>		<u>241202-6-B01 (5-7.5)</u>	<u>8/3/20</u>	<u>1435</u>	<u>6</u>	<u>SO</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>

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

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

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

Relinquished By <u>P. Neal</u> Company <u>Terracon</u> Date <u>8/3/20</u> Time <u>1630</u>	Received By <u>P. Neal</u> Company <u>TA</u> Date <u>8/3/20</u> Time <u>1630</u>	Lab Courier <u>TA</u>
Relinquished By <u>P. Neal</u> Company <u>TA</u> Date <u>8/3/20</u> Time <u>1525</u>	Received By <u>Shirley</u> Company <u>TA-CHT</u> Date <u>8/4/20</u> Time <u>0800</u>	Shipped
Relinquished By	Received By	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
* STANDARD TURN
* NO ALUMINUM
* HOLD SPCP 23 Inorganics per Terracon Instructions

Lab Comments:

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-185872-1

Login Number: 185872

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.9,5.7,5.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 557-IL Route 72 at State Street/Getzelman Rd Office Phone Number, if available: _____

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

S State St (Southbound) IDOT STA 202+20 to 204+00; (Northbound) IDOT STA 202+80 to 204+00 (ISGS Site 2412V2-7)

City: Hampshire State: IL Zip Code: 60140

County: Kane Township: Hampshire

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

Latitude: 42.08832 Longitude: - 88.53013

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

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

Estimated Volume of debris (cu. Yd.): 59

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

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

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

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

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

Soil from borings B01 and B02 were sampled adjacent to ISGS Site No 2412V2-7.
See Exhibit 2 and Table 9 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 J185939-1.
Also see Preliminary Site Investigation Report prepared by Terracon. CCDD/USFO facility in MSA County.

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

I, Matt Weiss (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51 a] 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

Printed Name: _____

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Date:

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

Comparison of Detected Constituents to MACs-PTB 174-009;Work Order:074A
Preliminary Site Investigation
FAP 557-IL Route 72 at State St./Getzelman Road (PESA #2412V2-7)
Hampshire, Kane Co, IL
Terracon Project No. 11207011P
Page 1 of 2

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2412V2-7-B01 (0-1.8)	2412V2-7-B02 (0-1.8)
				CCDD	Sample Depth (feet)	(0-1.8)	(0-1.8)
				mg/kg pH 6.25-9.0	Date Collected	8/4/2020	8/4/2020
Chicago	MSAs						
Semivolatile Organic Analytical Parameters							
Anthracene	mg/kg	0.25	0.4	12000		0.023	0.04
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.18	0.21
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.22	0.27
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.39	0.48
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.095	0.14
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.12	0.11
Chrysene	mg/kg	1.2	2.7	88		0.2	0.29
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		0.023	<0.0077
Fluoranthene	mg/kg	2.7	4.1	3100		0.43	0.61
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.081	0.098
Naphthalene	mg/kg	0.04	0.2	1.8		<0.0056	0.012
Phenanthrene	mg/kg	1.3	2.5	210		0.13	0.36
Pyrene	mg/kg	1.9	3.0	2300		0.32	0.56
bis(2-Ethylhexyl)phthalate	mg/kg	---	---	46		0.075	<0.073
Butylbenzylphthalate	mg/kg	---	---	930		0.083	<0.076
2-Methylnaphthalene	mg/kg	---	0.14	---		<0.0067	0.021
Inorganic Analytical Parameters							
Arsenic	mg/kg	---	13	11.3		6.5	6.9
Barium	mg/kg	---	110	1500		78	91
Cadmium	mg/kg	---	0.6	5.2		0.3	0.32
Chromium, total	mg/kg	---	16.2	21		13	15
Lead	mg/kg	---	36	107		91	79
Mercury	mg/kg	---	0.06	0.89		0.03	0.081
Selenium	mg/kg	---	0.48	1.3		0.36	0.36
Silver	mg/kg	---	0.55	4.4		<0.070	<0.076
Antimony	mg/kg	---	4.0	5		0.46	0.51
Beryllium	mg/kg	---	0.59	22		0.56	0.75
Calcium	mg/kg	---	9,300	---		24000	11000
Cobalt	mg/kg	---	8.9	20		7.5	9.8
Copper	mg/kg	---	19.6	2900		13	21
Cyanide	mg/kg	---	0.51	---		0.2	0.31
Iron	mg/kg	---	15,900	15000		14000	16000
Magnesium	mg/kg	---	4,820	325000		15000	7400
Manganese	mg/kg	---	636	630		620	480
Nickel	mg/kg	---	18	100		20	22
Potassium	mg/kg	---	1,268	---		1200	1400
Sodium	mg/kg	---	130	---		230	610
Thallium	mg/kg	---	0.32	2.6		<0.27	0.54
Vanadium	mg/kg	---	25.2	550		23	27
Zinc	mg/kg	---	95	5100		72	100
pH			6.25	9		8.2	8.6

Preliminary Site Investigation

FAP 557-IL Route 72 at State St./Getzelman Road (PESA #2412V2-7)

Hampshire, Kane Co, IL

Terracon Project No. 11207011P

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2412V2-7-B01 (0-1.8)	2412V2-7-B02 (0-1.8)
				CCDD	Sample Depth (feet)	(0-1.8)	(0-1.8)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	8/4/2020	8/4/2020
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	---	---	---		--	0.28
Magnesium,SPLP	mg/L	---	---	---		--	--
Manganese,SPLP	mg/L	---	---	---		0.33	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
Barium,TCLP	mg/L	---	---	---		0.56	0.67
Cadmium,TCLP	mg/L	---	---	---		<0.0020	0.002
Chromium,TCLP	mg/L	---	---	---		<0.010	<0.010
Lead,TCLP	mg/L	---	---	---		<0.0075	0.0091
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	230
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	---	---	---		140	110
Manganese,TCLP	mg/L	---	---	---		0.18	0.27
Nickel,TCLP	mg/L	---	---	---		<0.010	<0.010
Potassium,TCLP	mg/L	---	---	---		6.5	8.9
Sodium,TCLP	mg/L	---	---	---		--	--
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.010	<0.010
Zinc,TCLP	mg/L	---	---	---		0.04	0.096

ANALYTICAL REPORT

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

Laboratory Job ID: 500-185939-1
Client Project/Site: IDOT - Hampshire - WO 074

For:

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

Attn: Mr. Matthew Weiss



Authorized for release by:
8/19/2020 3:20:53 PM

Richard Wright, Senior Project Manager
(708)746-0045
Richard.Wright@Eurofinset.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 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 - Hampshire - WO 074

Job ID: 500-185939-1

Job ID: 500-185939-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-185939-1

Receipt

The samples were received on 8/4/2020 5:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 4.3° C, 4.4° C, 5.8° C and 5.9° C.

GC/MS VOA

Method 8260B: The laboratory control sample (LCS) for 556377 recovered outside control limits for Chloroethane. This poor purging analyte was biased low in the LCS and was not detected in the associated samples; therefore, the data have been reported.2412V2-7-B01 (0-1.8) (500-185939-1)

Method 8260B: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for 556207 recovered outside control limits for the following analytes: Bromomethane and Chloromethane. These analytes were not detected in the associated samples; therefore, the data have been reported.2412V2-7-B02 (0-1.8) (500-185939-2)

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 6020A: The continuing calibration verification (CCV) associated with batch 500-557398 recovered above the upper control limit for Antimony and Thallium. The samples associated with this CCV were non-detects for the affected analytes; 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.

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 - Hampshire - WO 074

Job ID: 500-185939-1

Client Sample ID: 2412V2-7-B01 (0-1.8)

Lab Sample ID: 500-185939-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.023	J	0.036	0.0061	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.18		0.036	0.0049	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.22		0.036	0.0071	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.39		0.036	0.0079	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.095		0.036	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.12		0.036	0.011	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.075	J	0.18	0.067	mg/Kg	1	☼	8270D	Total/NA
Butyl benzyl phthalate	0.083	J	0.18	0.069	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.20		0.036	0.0099	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.023	J	0.036	0.0070	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.43		0.036	0.0068	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.081		0.036	0.0094	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.13		0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.32		0.036	0.0072	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.46	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	78		0.54	0.062	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.56		0.22	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.30	B	0.11	0.019	mg/Kg	1	☼	6010B	Total/NA
Chromium	13		0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.5		0.27	0.071	mg/Kg	1	☼	6010B	Total/NA
Copper	13		0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	14000		11	5.6	mg/Kg	1	☼	6010B	Total/NA
Lead	91		0.27	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	15000		5.4	2.7	mg/Kg	1	☼	6010B	Total/NA
Calcium	24000		11	1.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	620		0.54	0.078	mg/Kg	1	☼	6010B	Total/NA
Nickel	20		0.54	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.36	J	0.54	0.32	mg/Kg	1	☼	6010B	Total/NA
Vanadium	23		0.27	0.064	mg/Kg	1	☼	6010B	Total/NA
Zinc	72		1.1	0.48	mg/Kg	1	☼	6010B	Total/NA
Potassium	1200		27	9.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	230		54	8.0	mg/Kg	1	☼	6010B	Total/NA
Barium	0.56		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	370		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	140		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.18		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	6.5		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.040	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.33		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.030		0.017	0.0056	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.20	J	0.30	0.15	mg/Kg	1	☼	9012B	Total/NA
pH	8.2		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2412V2-7-B02 (0-1.8)

Lab Sample ID: 500-185939-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.040		0.040	0.0067	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.21		0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.27		0.040	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.48		0.040	0.0086	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185939-1

Client Sample ID: 2412V2-7-B02 (0-1.8) (Continued)

Lab Sample ID: 500-185939-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Benzo[g,h,i]perylene	0.14		0.040	0.013	mg/Kg	1		☼	8270D	Total/NA
Benzo[k]fluoranthene	0.11		0.040	0.012	mg/Kg	1		☼	8270D	Total/NA
Chrysene	0.29		0.040	0.011	mg/Kg	1		☼	8270D	Total/NA
Fluoranthene	0.61		0.040	0.0074	mg/Kg	1		☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.098		0.040	0.010	mg/Kg	1		☼	8270D	Total/NA
2-Methylnaphthalene	0.021	J	0.081	0.0073	mg/Kg	1		☼	8270D	Total/NA
Naphthalene	0.012	J	0.040	0.0061	mg/Kg	1		☼	8270D	Total/NA
Phenanthrene	0.36		0.040	0.0056	mg/Kg	1		☼	8270D	Total/NA
Pyrene	0.56		0.040	0.0079	mg/Kg	1		☼	8270D	Total/NA
Antimony	0.51	J	1.2	0.23	mg/Kg	1		☼	6010B	Total/NA
Arsenic	6.9		0.59	0.20	mg/Kg	1		☼	6010B	Total/NA
Barium	91		0.59	0.067	mg/Kg	1		☼	6010B	Total/NA
Beryllium	0.75		0.23	0.055	mg/Kg	1		☼	6010B	Total/NA
Cadmium	0.32	B	0.12	0.021	mg/Kg	1		☼	6010B	Total/NA
Chromium	15		0.59	0.29	mg/Kg	1		☼	6010B	Total/NA
Cobalt	9.8		0.29	0.077	mg/Kg	1		☼	6010B	Total/NA
Copper	21		0.59	0.16	mg/Kg	1		☼	6010B	Total/NA
Iron	16000		12	6.1	mg/Kg	1		☼	6010B	Total/NA
Lead	79		0.29	0.14	mg/Kg	1		☼	6010B	Total/NA
Magnesium	7400		5.9	2.9	mg/Kg	1		☼	6010B	Total/NA
Calcium	11000		12	2.0	mg/Kg	1		☼	6010B	Total/NA
Manganese	480		0.59	0.085	mg/Kg	1		☼	6010B	Total/NA
Nickel	22		0.59	0.17	mg/Kg	1		☼	6010B	Total/NA
Selenium	0.36	J	0.59	0.34	mg/Kg	1		☼	6010B	Total/NA
Thallium	0.54	J	0.59	0.29	mg/Kg	1		☼	6010B	Total/NA
Vanadium	27		0.29	0.069	mg/Kg	1		☼	6010B	Total/NA
Zinc	100		1.2	0.51	mg/Kg	1		☼	6010B	Total/NA
Potassium	1400		29	10	mg/Kg	1		☼	6010B	Total/NA
Sodium	610		59	8.7	mg/Kg	1		☼	6010B	Total/NA
Barium	0.67		0.50	0.050	mg/L	1			6010B	TCLP
Cadmium	0.0020	J	0.0050	0.0020	mg/L	1			6010B	TCLP
Calcium	230		5.0	0.50	mg/L	1			6010B	TCLP
Lead	0.0091		0.0075	0.0075	mg/L	1			6010B	TCLP
Magnesium	110		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	0.27		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	8.9		2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.096	J	0.50	0.020	mg/L	1			6010B	TCLP
Lead	0.28		0.0075	0.0075	mg/L	1			6010B	SPLP East
Manganese	1.1		0.025	0.010	mg/L	1			6010B	SPLP East
Mercury	0.081		0.019	0.0063	mg/Kg	1		☼	7471B	Total/NA
Cyanide, Total	0.31	J	0.36	0.18	mg/Kg	1		☼	9012B	Total/NA
pH	8.6		0.2	0.2	SU	1			9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185939-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-185939-1	2412V2-7-B01 (0-1.8)	Solid	08/04/20 14:30	08/04/20 17:40	
500-185939-2	2412V2-7-B02 (0-1.8)	Solid	08/04/20 14:15	08/04/20 17:40	

- 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 - Hampshire - WO 074

Job ID: 500-185939-1

Client Sample ID: 2412V2-7-B01 (0-1.8)

Lab Sample ID: 500-185939-1

Date Collected: 08/04/20 14:30

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 90.3

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	☼	08/05/20 08:30	08/12/20 17:57	1
Benzene	<0.00044		0.0017	0.00044	mg/Kg	☼	08/05/20 08:30	08/12/20 17:57	1
Bromodichloromethane	<0.00035		0.0017	0.00035	mg/Kg	☼	08/05/20 08:30	08/12/20 17:57	1
Bromoform	<0.00051		0.0017	0.00051	mg/Kg	☼	08/05/20 08:30	08/12/20 17:57	1
Bromomethane	<0.0016		0.0043	0.0016	mg/Kg	☼	08/05/20 08:30	08/12/20 17:57	1
2-Butanone (MEK)	<0.0019		0.0043	0.0019	mg/Kg	☼	08/05/20 08:30	08/12/20 17:57	1
Carbon disulfide	<0.00090		0.0043	0.00090	mg/Kg	☼	08/05/20 08:30	08/12/20 17:57	1
Carbon tetrachloride	<0.00050		0.0017	0.00050	mg/Kg	☼	08/05/20 08:30	08/12/20 17:57	1
Chlorobenzene	<0.00064		0.0017	0.00064	mg/Kg	☼	08/05/20 08:30	08/12/20 17:57	1
Chloroethane	<0.0013		0.0043	0.0013	mg/Kg	☼	08/05/20 08:30	08/12/20 17:57	1
Chloroform	<0.00060		0.0017	0.00060	mg/Kg	☼	08/05/20 08:30	08/12/20 17:57	1
Chloromethane	<0.0017		0.0043	0.0017	mg/Kg	☼	08/05/20 08:30	08/12/20 17:57	1
cis-1,2-Dichloroethene	<0.00048		0.0017	0.00048	mg/Kg	☼	08/05/20 08:30	08/12/20 17:57	1
cis-1,3-Dichloropropene	<0.00052		0.0017	0.00052	mg/Kg	☼	08/05/20 08:30	08/12/20 17:57	1
Dibromochloromethane	<0.00057		0.0017	0.00057	mg/Kg	☼	08/05/20 08:30	08/12/20 17:57	1
1,1-Dichloroethane	<0.00059		0.0017	0.00059	mg/Kg	☼	08/05/20 08:30	08/12/20 17:57	1
1,2-Dichloroethane	<0.0014		0.0043	0.0014	mg/Kg	☼	08/05/20 08:30	08/12/20 17:57	1
1,1-Dichloroethene	<0.00060		0.0017	0.00060	mg/Kg	☼	08/05/20 08:30	08/12/20 17:57	1
1,2-Dichloropropene	<0.00045		0.0017	0.00045	mg/Kg	☼	08/05/20 08:30	08/12/20 17:57	1
1,3-Dichloropropene, Total	<0.00061		0.0017	0.00061	mg/Kg	☼	08/05/20 08:30	08/12/20 17:57	1
Ethylbenzene	<0.00083		0.0017	0.00083	mg/Kg	☼	08/05/20 08:30	08/12/20 17:57	1
2-Hexanone	<0.0014		0.0043	0.0014	mg/Kg	☼	08/05/20 08:30	08/12/20 17:57	1
Methylene Chloride	<0.0017		0.0043	0.0017	mg/Kg	☼	08/05/20 08:30	08/12/20 17:57	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0043	0.0013	mg/Kg	☼	08/05/20 08:30	08/12/20 17:57	1
Methyl tert-butyl ether	<0.00051		0.0017	0.00051	mg/Kg	☼	08/05/20 08:30	08/12/20 17:57	1
Styrene	<0.00052		0.0017	0.00052	mg/Kg	☼	08/05/20 08:30	08/12/20 17:57	1
1,1,2,2-Tetrachloroethane	<0.00055		0.0017	0.00055	mg/Kg	☼	08/05/20 08:30	08/12/20 17:57	1
Tetrachloroethene	<0.00059		0.0017	0.00059	mg/Kg	☼	08/05/20 08:30	08/12/20 17:57	1
Toluene	<0.00044		0.0017	0.00044	mg/Kg	☼	08/05/20 08:30	08/12/20 17:57	1
trans-1,2-Dichloroethene	<0.00077		0.0017	0.00077	mg/Kg	☼	08/05/20 08:30	08/12/20 17:57	1
trans-1,3-Dichloropropene	<0.00061		0.0017	0.00061	mg/Kg	☼	08/05/20 08:30	08/12/20 17:57	1
1,1,1-Trichloroethane	<0.00058		0.0017	0.00058	mg/Kg	☼	08/05/20 08:30	08/12/20 17:57	1
1,1,2-Trichloroethane	<0.00074		0.0017	0.00074	mg/Kg	☼	08/05/20 08:30	08/12/20 17:57	1
Trichloroethene	<0.00059		0.0017	0.00059	mg/Kg	☼	08/05/20 08:30	08/12/20 17:57	1
Vinyl acetate	<0.0015		0.0043	0.0015	mg/Kg	☼	08/05/20 08:30	08/12/20 17:57	1
Vinyl chloride	<0.00077		0.0017	0.00077	mg/Kg	☼	08/05/20 08:30	08/12/20 17:57	1
Xylenes, Total	<0.00055		0.0035	0.00055	mg/Kg	☼	08/05/20 08:30	08/12/20 17:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		75 - 131	08/05/20 08:30	08/12/20 17:57	1
Dibromofluoromethane	104		75 - 126	08/05/20 08:30	08/12/20 17:57	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	08/05/20 08:30	08/12/20 17:57	1
Toluene-d8 (Surr)	96		75 - 124	08/05/20 08:30	08/12/20 17:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0066		0.036	0.0066	mg/Kg	☼	08/14/20 17:27	08/17/20 15:12	1
Acenaphthylene	<0.0048		0.036	0.0048	mg/Kg	☼	08/14/20 17:27	08/17/20 15:12	1
Anthracene	0.023	J	0.036	0.0061	mg/Kg	☼	08/14/20 17:27	08/17/20 15:12	1
Benzo[a]anthracene	0.18		0.036	0.0049	mg/Kg	☼	08/14/20 17:27	08/17/20 15:12	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185939-1

Client Sample ID: 2412V2-7-B01 (0-1.8)

Lab Sample ID: 500-185939-1

Date Collected: 08/04/20 14:30

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 90.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.22		0.036	0.0071	mg/Kg	☼	08/14/20 17:27	08/17/20 15:12	1
Benzo[b]fluoranthene	0.39		0.036	0.0079	mg/Kg	☼	08/14/20 17:27	08/17/20 15:12	1
Benzo[g,h,i]perylene	0.095		0.036	0.012	mg/Kg	☼	08/14/20 17:27	08/17/20 15:12	1
Benzo[k]fluoranthene	0.12		0.036	0.011	mg/Kg	☼	08/14/20 17:27	08/17/20 15:12	1
Bis(2-chloroethoxy)methane	<0.037		0.18	0.037	mg/Kg	☼	08/14/20 17:27	08/17/20 15:12	1
Bis(2-chloroethyl)ether	<0.055		0.18	0.055	mg/Kg	☼	08/14/20 17:27	08/17/20 15:12	1
Bis(2-ethylhexyl) phthalate	0.075	J	0.18	0.067	mg/Kg	☼	08/14/20 17:27	08/17/20 15:12	1
4-Bromophenyl phenyl ether	<0.048		0.18	0.048	mg/Kg	☼	08/14/20 17:27	08/17/20 15:12	1
Butyl benzyl phthalate	0.083	J	0.18	0.069	mg/Kg	☼	08/14/20 17:27	08/17/20 15:12	1
Carbazole	<0.091		0.18	0.091	mg/Kg	☼	08/14/20 17:27	08/17/20 15:12	1
4-Chloroaniline	<0.17		0.74	0.17	mg/Kg	☼	08/14/20 17:27	08/17/20 15:12	1
4-Chloro-3-methylphenol	<0.12		0.36	0.12	mg/Kg	☼	08/14/20 17:27	08/17/20 15:12	1
2-Chloronaphthalene	<0.040		0.18	0.040	mg/Kg	☼	08/14/20 17:27	08/17/20 15:12	1
2-Chlorophenol	<0.062		0.18	0.062	mg/Kg	☼	08/14/20 17:27	08/17/20 15:12	1
4-Chlorophenyl phenyl ether	<0.043		0.18	0.043	mg/Kg	☼	08/14/20 17:27	08/17/20 15:12	1
Chrysene	0.20		0.036	0.0099	mg/Kg	☼	08/14/20 17:27	08/17/20 15:12	1
Dibenz(a,h)anthracene	0.023	J	0.036	0.0070	mg/Kg	☼	08/14/20 17:27	08/17/20 15:12	1
Dibenzofuran	<0.043		0.18	0.043	mg/Kg	☼	08/14/20 17:27	08/17/20 15:12	1
1,2-Dichlorobenzene	<0.044		0.18	0.044	mg/Kg	☼	08/14/20 17:27	08/17/20 15:12	1
1,3-Dichlorobenzene	<0.041		0.18	0.041	mg/Kg	☼	08/14/20 17:27	08/17/20 15:12	1
1,4-Dichlorobenzene	<0.047		0.18	0.047	mg/Kg	☼	08/14/20 17:27	08/17/20 15:12	1
3,3'-Dichlorobenzidine	<0.051		0.18	0.051	mg/Kg	☼	08/14/20 17:27	08/17/20 15:12	1
2,4-Dichlorophenol	<0.087		0.36	0.087	mg/Kg	☼	08/14/20 17:27	08/17/20 15:12	1
Diethyl phthalate	<0.062		0.18	0.062	mg/Kg	☼	08/14/20 17:27	08/17/20 15:12	1
2,4-Dimethylphenol	<0.14		0.36	0.14	mg/Kg	☼	08/14/20 17:27	08/17/20 15:12	1
Dimethyl phthalate	<0.048		0.18	0.048	mg/Kg	☼	08/14/20 17:27	08/17/20 15:12	1
Di-n-butyl phthalate	<0.056		0.18	0.056	mg/Kg	☼	08/14/20 17:27	08/17/20 15:12	1
4,6-Dinitro-2-methylphenol	<0.29		0.74	0.29	mg/Kg	☼	08/14/20 17:27	08/17/20 15:12	1
2,4-Dinitrophenol	<0.64		0.74	0.64	mg/Kg	☼	08/14/20 17:27	08/17/20 15:12	1
2,4-Dinitrotoluene	<0.058		0.18	0.058	mg/Kg	☼	08/14/20 17:27	08/17/20 15:12	1
2,6-Dinitrotoluene	<0.072		0.18	0.072	mg/Kg	☼	08/14/20 17:27	08/17/20 15:12	1
Di-n-octyl phthalate	<0.059		0.18	0.059	mg/Kg	☼	08/14/20 17:27	08/17/20 15:12	1
Fluoranthene	0.43		0.036	0.0068	mg/Kg	☼	08/14/20 17:27	08/17/20 15:12	1
Fluorene	<0.0051		0.036	0.0051	mg/Kg	☼	08/14/20 17:27	08/17/20 15:12	1
Hexachlorobenzene	<0.0084		0.074	0.0084	mg/Kg	☼	08/14/20 17:27	08/17/20 15:12	1
Hexachlorobutadiene	<0.057		0.18	0.057	mg/Kg	☼	08/14/20 17:27	08/17/20 15:12	1
Hexachlorocyclopentadiene	<0.21		0.74	0.21	mg/Kg	☼	08/14/20 17:27	08/17/20 15:12	1
Hexachloroethane	<0.055		0.18	0.055	mg/Kg	☼	08/14/20 17:27	08/17/20 15:12	1
Indeno[1,2,3-cd]pyrene	0.081		0.036	0.0094	mg/Kg	☼	08/14/20 17:27	08/17/20 15:12	1
Isophorone	<0.041		0.18	0.041	mg/Kg	☼	08/14/20 17:27	08/17/20 15:12	1
2-Methylnaphthalene	<0.0067		0.074	0.0067	mg/Kg	☼	08/14/20 17:27	08/17/20 15:12	1
2-Methylphenol	<0.058		0.18	0.058	mg/Kg	☼	08/14/20 17:27	08/17/20 15:12	1
3 & 4 Methylphenol	<0.061		0.18	0.061	mg/Kg	☼	08/14/20 17:27	08/17/20 15:12	1
Naphthalene	<0.0056		0.036	0.0056	mg/Kg	☼	08/14/20 17:27	08/17/20 15:12	1
2-Nitroaniline	<0.049		0.18	0.049	mg/Kg	☼	08/14/20 17:27	08/17/20 15:12	1
3-Nitroaniline	<0.11		0.36	0.11	mg/Kg	☼	08/14/20 17:27	08/17/20 15:12	1
4-Nitroaniline	<0.15		0.36	0.15	mg/Kg	☼	08/14/20 17:27	08/17/20 15:12	1
Nitrobenzene	<0.0091		0.036	0.0091	mg/Kg	☼	08/14/20 17:27	08/17/20 15:12	1
2-Nitrophenol	<0.086		0.36	0.086	mg/Kg	☼	08/14/20 17:27	08/17/20 15:12	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185939-1

Client Sample ID: 2412V2-7-B01 (0-1.8)

Lab Sample ID: 500-185939-1

Date Collected: 08/04/20 14:30

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 90.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.35		0.74	0.35	mg/Kg	☼	08/14/20 17:27	08/17/20 15:12	1
N-Nitrosodi-n-propylamine	<0.045		0.074	0.045	mg/Kg	☼	08/14/20 17:27	08/17/20 15:12	1
N-Nitrosodiphenylamine	<0.043		0.18	0.043	mg/Kg	☼	08/14/20 17:27	08/17/20 15:12	1
2,2'-oxybis[1-chloropropane]	<0.042		0.18	0.042	mg/Kg	☼	08/14/20 17:27	08/17/20 15:12	1
Pentachlorophenol	<0.58		0.74	0.58	mg/Kg	☼	08/14/20 17:27	08/17/20 15:12	1
Phenanthrene	0.13		0.036	0.0051	mg/Kg	☼	08/14/20 17:27	08/17/20 15:12	1
Phenol	<0.081		0.18	0.081	mg/Kg	☼	08/14/20 17:27	08/17/20 15:12	1
Pyrene	0.32		0.036	0.0072	mg/Kg	☼	08/14/20 17:27	08/17/20 15:12	1
1,2,4-Trichlorobenzene	<0.039		0.18	0.039	mg/Kg	☼	08/14/20 17:27	08/17/20 15:12	1
2,4,5-Trichlorophenol	<0.083		0.36	0.083	mg/Kg	☼	08/14/20 17:27	08/17/20 15:12	1
2,4,6-Trichlorophenol	<0.13		0.36	0.13	mg/Kg	☼	08/14/20 17:27	08/17/20 15:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	83		43 - 145	08/14/20 17:27	08/17/20 15:12	1
2-Fluorophenol	75		31 - 166	08/14/20 17:27	08/17/20 15:12	1
Nitrobenzene-d5	65		37 - 147	08/14/20 17:27	08/17/20 15:12	1
Phenol-d5	61		30 - 153	08/14/20 17:27	08/17/20 15:12	1
Terphenyl-d14	97		42 - 157	08/14/20 17:27	08/17/20 15:12	1
2,4,6-Tribromophenol	99		31 - 143	08/14/20 17:27	08/17/20 15:12	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.46	J	1.1	0.21	mg/Kg	☼	08/11/20 07:05	08/12/20 01:06	1
Arsenic	6.5		0.54	0.19	mg/Kg	☼	08/11/20 07:05	08/12/20 01:06	1
Barium	78		0.54	0.062	mg/Kg	☼	08/11/20 07:05	08/12/20 01:06	1
Beryllium	0.56		0.22	0.051	mg/Kg	☼	08/11/20 07:05	08/12/20 01:06	1
Cadmium	0.30	B	0.11	0.019	mg/Kg	☼	08/11/20 07:05	08/12/20 01:06	1
Chromium	13		0.54	0.27	mg/Kg	☼	08/11/20 07:05	08/12/20 01:06	1
Cobalt	7.5		0.27	0.071	mg/Kg	☼	08/11/20 07:05	08/12/20 01:06	1
Copper	13		0.54	0.15	mg/Kg	☼	08/11/20 07:05	08/12/20 01:06	1
Iron	14000		11	5.6	mg/Kg	☼	08/11/20 07:05	08/12/20 01:06	1
Lead	91		0.27	0.12	mg/Kg	☼	08/11/20 07:05	08/12/20 01:06	1
Magnesium	15000		5.4	2.7	mg/Kg	☼	08/11/20 07:05	08/12/20 01:06	1
Calcium	24000		11	1.8	mg/Kg	☼	08/11/20 07:05	08/12/20 01:06	1
Manganese	620		0.54	0.078	mg/Kg	☼	08/11/20 07:05	08/12/20 01:06	1
Nickel	20		0.54	0.16	mg/Kg	☼	08/11/20 07:05	08/12/20 01:06	1
Selenium	0.36	J	0.54	0.32	mg/Kg	☼	08/11/20 07:05	08/12/20 01:06	1
Silver	<0.070		0.27	0.070	mg/Kg	☼	08/11/20 07:05	08/12/20 01:06	1
Thallium	<0.27		0.54	0.27	mg/Kg	☼	08/11/20 07:05	08/12/20 01:06	1
Vanadium	23		0.27	0.064	mg/Kg	☼	08/11/20 07:05	08/12/20 01:06	1
Zinc	72		1.1	0.48	mg/Kg	☼	08/11/20 07:05	08/12/20 01:06	1
Potassium	1200		27	9.6	mg/Kg	☼	08/11/20 07:05	08/12/20 01:06	1
Sodium	230		54	8.0	mg/Kg	☼	08/11/20 07:05	08/12/20 01:06	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/17/20 17:21	08/18/20 01:34	1
Barium	0.56		0.50	0.050	mg/L		08/17/20 17:21	08/18/20 01:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/17/20 17:21	08/18/20 01:34	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/17/20 17:21	08/18/20 01:34	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185939-1

Client Sample ID: 2412V2-7-B01 (0-1.8)

Lab Sample ID: 500-185939-1

Date Collected: 08/04/20 14:30

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 90.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	370		5.0	0.50	mg/L		08/17/20 17:21	08/18/20 01:34	1
Chromium	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:34	1
Cobalt	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:34	1
Copper	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:34	1
Iron	<0.20		0.40	0.20	mg/L		08/17/20 17:21	08/18/20 01:34	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/17/20 17:21	08/18/20 01:34	1
Magnesium	140		2.5	0.50	mg/L		08/17/20 17:21	08/18/20 01:34	1
Manganese	0.18		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:34	1
Nickel	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:34	1
Potassium	6.5		2.5	0.50	mg/L		08/17/20 17:21	08/18/20 01:34	1
Selenium	<0.020		0.050	0.020	mg/L		08/17/20 17:21	08/18/20 01:34	1
Silver	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:34	1
Vanadium	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:34	1
Zinc	0.040	J	0.50	0.020	mg/L		08/17/20 17:21	08/18/20 01:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.33		0.025	0.010	mg/L		08/17/20 17:17	08/18/20 03:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		08/17/20 17:21	08/18/20 09:31	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		08/17/20 17:21	08/18/20 09:31	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		08/18/20 09:55	08/19/20 09:19	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.017	0.0056	mg/Kg	☼	08/11/20 14:25	08/12/20 07:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.20	J	0.30	0.15	mg/Kg	☼	08/14/20 13:10	08/17/20 10:29	1
pH	8.2		0.2	0.2	SU			08/06/20 20:48	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185939-1

Client Sample ID: 2412V2-7-B02 (0-1.8)

Lab Sample ID: 500-185939-2

Date Collected: 08/04/20 14:15

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 82.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0076		0.017	0.0076	mg/Kg	☼	08/05/20 08:30	08/11/20 19:56	1
Benzene	<0.00044		0.0017	0.00044	mg/Kg	☼	08/05/20 08:30	08/11/20 19:56	1
Bromodichloromethane	<0.00035		0.0017	0.00035	mg/Kg	☼	08/05/20 08:30	08/11/20 19:56	1
Bromoform	<0.00051		0.0017	0.00051	mg/Kg	☼	08/05/20 08:30	08/11/20 19:56	1
Bromomethane	<0.0016	*	0.0044	0.0016	mg/Kg	☼	08/05/20 08:30	08/11/20 19:56	1
2-Butanone (MEK)	<0.0019		0.0044	0.0019	mg/Kg	☼	08/05/20 08:30	08/11/20 19:56	1
Carbon disulfide	<0.00091		0.0044	0.00091	mg/Kg	☼	08/05/20 08:30	08/11/20 19:56	1
Carbon tetrachloride	<0.00051		0.0017	0.00051	mg/Kg	☼	08/05/20 08:30	08/11/20 19:56	1
Chlorobenzene	<0.00064		0.0017	0.00064	mg/Kg	☼	08/05/20 08:30	08/11/20 19:56	1
Chloroethane	<0.0013		0.0044	0.0013	mg/Kg	☼	08/05/20 08:30	08/11/20 19:56	1
Chloroform	<0.00060		0.0017	0.00060	mg/Kg	☼	08/05/20 08:30	08/11/20 19:56	1
Chloromethane	<0.0018	*	0.0044	0.0018	mg/Kg	☼	08/05/20 08:30	08/11/20 19:56	1
cis-1,2-Dichloroethene	<0.00049		0.0017	0.00049	mg/Kg	☼	08/05/20 08:30	08/11/20 19:56	1
cis-1,3-Dichloropropene	<0.00053		0.0017	0.00053	mg/Kg	☼	08/05/20 08:30	08/11/20 19:56	1
Dibromochloromethane	<0.00057		0.0017	0.00057	mg/Kg	☼	08/05/20 08:30	08/11/20 19:56	1
1,1-Dichloroethane	<0.00060		0.0017	0.00060	mg/Kg	☼	08/05/20 08:30	08/11/20 19:56	1
1,2-Dichloroethane	<0.0014		0.0044	0.0014	mg/Kg	☼	08/05/20 08:30	08/11/20 19:56	1
1,1-Dichloroethene	<0.00060		0.0017	0.00060	mg/Kg	☼	08/05/20 08:30	08/11/20 19:56	1
1,2-Dichloropropane	<0.00045		0.0017	0.00045	mg/Kg	☼	08/05/20 08:30	08/11/20 19:56	1
1,3-Dichloropropane, Total	<0.00061		0.0017	0.00061	mg/Kg	☼	08/05/20 08:30	08/11/20 19:56	1
Ethylbenzene	<0.00083		0.0017	0.00083	mg/Kg	☼	08/05/20 08:30	08/11/20 19:56	1
2-Hexanone	<0.0014		0.0044	0.0014	mg/Kg	☼	08/05/20 08:30	08/11/20 19:56	1
Methylene Chloride	<0.0017		0.0044	0.0017	mg/Kg	☼	08/05/20 08:30	08/11/20 19:56	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0044	0.0013	mg/Kg	☼	08/05/20 08:30	08/11/20 19:56	1
Methyl tert-butyl ether	<0.00051		0.0017	0.00051	mg/Kg	☼	08/05/20 08:30	08/11/20 19:56	1
Styrene	<0.00053		0.0017	0.00053	mg/Kg	☼	08/05/20 08:30	08/11/20 19:56	1
1,1,2,2-Tetrachloroethane	<0.00056		0.0017	0.00056	mg/Kg	☼	08/05/20 08:30	08/11/20 19:56	1
Tetrachloroethene	<0.00059		0.0017	0.00059	mg/Kg	☼	08/05/20 08:30	08/11/20 19:56	1
Toluene	<0.00044		0.0017	0.00044	mg/Kg	☼	08/05/20 08:30	08/11/20 19:56	1
trans-1,2-Dichloroethene	<0.00077		0.0017	0.00077	mg/Kg	☼	08/05/20 08:30	08/11/20 19:56	1
trans-1,3-Dichloropropene	<0.00061		0.0017	0.00061	mg/Kg	☼	08/05/20 08:30	08/11/20 19:56	1
1,1,1-Trichloroethane	<0.00058		0.0017	0.00058	mg/Kg	☼	08/05/20 08:30	08/11/20 19:56	1
1,1,2-Trichloroethane	<0.00075		0.0017	0.00075	mg/Kg	☼	08/05/20 08:30	08/11/20 19:56	1
Trichloroethene	<0.00059		0.0017	0.00059	mg/Kg	☼	08/05/20 08:30	08/11/20 19:56	1
Vinyl acetate	<0.0015		0.0044	0.0015	mg/Kg	☼	08/05/20 08:30	08/11/20 19:56	1
Vinyl chloride	<0.00077		0.0017	0.00077	mg/Kg	☼	08/05/20 08:30	08/11/20 19:56	1
Xylenes, Total	<0.00056		0.0035	0.00056	mg/Kg	☼	08/05/20 08:30	08/11/20 19:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		75 - 131	08/05/20 08:30	08/11/20 19:56	1
Dibromofluoromethane	102		75 - 126	08/05/20 08:30	08/11/20 19:56	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	08/05/20 08:30	08/11/20 19:56	1
Toluene-d8 (Surr)	87		75 - 124	08/05/20 08:30	08/11/20 19:56	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	☼	08/14/20 17:27	08/17/20 15:39	1
Acenaphthylene	<0.0053		0.040	0.0053	mg/Kg	☼	08/14/20 17:27	08/17/20 15:39	1
Anthracene	0.040		0.040	0.0067	mg/Kg	☼	08/14/20 17:27	08/17/20 15:39	1
Benzo[a]anthracene	0.21		0.040	0.0054	mg/Kg	☼	08/14/20 17:27	08/17/20 15:39	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185939-1

Client Sample ID: 2412V2-7-B02 (0-1.8)

Lab Sample ID: 500-185939-2

Date Collected: 08/04/20 14:15

Matrix: Solid

Date Received: 08/04/20 17:40

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	0.27		0.040	0.0077	mg/Kg	☼	08/14/20 17:27	08/17/20 15:39	1
Benzo[b]fluoranthene	0.48		0.040	0.0086	mg/Kg	☼	08/14/20 17:27	08/17/20 15:39	1
Benzo[g,h,i]perylene	0.14		0.040	0.013	mg/Kg	☼	08/14/20 17:27	08/17/20 15:39	1
Benzo[k]fluoranthene	0.11		0.040	0.012	mg/Kg	☼	08/14/20 17:27	08/17/20 15:39	1
Bis(2-chloroethoxy)methane	<0.041		0.20	0.041	mg/Kg	☼	08/14/20 17:27	08/17/20 15:39	1
Bis(2-chloroethyl)ether	<0.060		0.20	0.060	mg/Kg	☼	08/14/20 17:27	08/17/20 15:39	1
Bis(2-ethylhexyl) phthalate	<0.073		0.20	0.073	mg/Kg	☼	08/14/20 17:27	08/17/20 15:39	1
4-Bromophenyl phenyl ether	<0.053		0.20	0.053	mg/Kg	☼	08/14/20 17:27	08/17/20 15:39	1
Butyl benzyl phthalate	<0.076		0.20	0.076	mg/Kg	☼	08/14/20 17:27	08/17/20 15:39	1
Carbazole	<0.10		0.20	0.10	mg/Kg	☼	08/14/20 17:27	08/17/20 15:39	1
4-Chloroaniline	<0.19		0.81	0.19	mg/Kg	☼	08/14/20 17:27	08/17/20 15:39	1
4-Chloro-3-methylphenol	<0.14		0.40	0.14	mg/Kg	☼	08/14/20 17:27	08/17/20 15:39	1
2-Chloronaphthalene	<0.044		0.20	0.044	mg/Kg	☼	08/14/20 17:27	08/17/20 15:39	1
2-Chlorophenol	<0.068		0.20	0.068	mg/Kg	☼	08/14/20 17:27	08/17/20 15:39	1
4-Chlorophenyl phenyl ether	<0.047		0.20	0.047	mg/Kg	☼	08/14/20 17:27	08/17/20 15:39	1
Chrysene	0.29		0.040	0.011	mg/Kg	☼	08/14/20 17:27	08/17/20 15:39	1
Dibenz(a,h)anthracene	<0.0077		0.040	0.0077	mg/Kg	☼	08/14/20 17:27	08/17/20 15:39	1
Dibenzofuran	<0.047		0.20	0.047	mg/Kg	☼	08/14/20 17:27	08/17/20 15:39	1
1,2-Dichlorobenzene	<0.048		0.20	0.048	mg/Kg	☼	08/14/20 17:27	08/17/20 15:39	1
1,3-Dichlorobenzene	<0.045		0.20	0.045	mg/Kg	☼	08/14/20 17:27	08/17/20 15:39	1
1,4-Dichlorobenzene	<0.051		0.20	0.051	mg/Kg	☼	08/14/20 17:27	08/17/20 15:39	1
3,3'-Dichlorobenzidine	<0.056		0.20	0.056	mg/Kg	☼	08/14/20 17:27	08/17/20 15:39	1
2,4-Dichlorophenol	<0.095		0.40	0.095	mg/Kg	☼	08/14/20 17:27	08/17/20 15:39	1
Diethyl phthalate	<0.068		0.20	0.068	mg/Kg	☼	08/14/20 17:27	08/17/20 15:39	1
2,4-Dimethylphenol	<0.15		0.40	0.15	mg/Kg	☼	08/14/20 17:27	08/17/20 15:39	1
Dimethyl phthalate	<0.052		0.20	0.052	mg/Kg	☼	08/14/20 17:27	08/17/20 15:39	1
Di-n-butyl phthalate	<0.061		0.20	0.061	mg/Kg	☼	08/14/20 17:27	08/17/20 15:39	1
4,6-Dinitro-2-methylphenol	<0.32		0.81	0.32	mg/Kg	☼	08/14/20 17:27	08/17/20 15:39	1
2,4-Dinitrophenol	<0.70		0.81	0.70	mg/Kg	☼	08/14/20 17:27	08/17/20 15:39	1
2,4-Dinitrotoluene	<0.063		0.20	0.063	mg/Kg	☼	08/14/20 17:27	08/17/20 15:39	1
2,6-Dinitrotoluene	<0.079		0.20	0.079	mg/Kg	☼	08/14/20 17:27	08/17/20 15:39	1
Di-n-octyl phthalate	<0.065		0.20	0.065	mg/Kg	☼	08/14/20 17:27	08/17/20 15:39	1
Fluoranthene	0.61		0.040	0.0074	mg/Kg	☼	08/14/20 17:27	08/17/20 15:39	1
Fluorene	<0.0056		0.040	0.0056	mg/Kg	☼	08/14/20 17:27	08/17/20 15:39	1
Hexachlorobenzene	<0.0093		0.081	0.0093	mg/Kg	☼	08/14/20 17:27	08/17/20 15:39	1
Hexachlorobutadiene	<0.063		0.20	0.063	mg/Kg	☼	08/14/20 17:27	08/17/20 15:39	1
Hexachlorocyclopentadiene	<0.23		0.81	0.23	mg/Kg	☼	08/14/20 17:27	08/17/20 15:39	1
Hexachloroethane	<0.061		0.20	0.061	mg/Kg	☼	08/14/20 17:27	08/17/20 15:39	1
Indeno[1,2,3-cd]pyrene	0.098		0.040	0.010	mg/Kg	☼	08/14/20 17:27	08/17/20 15:39	1
Isophorone	<0.045		0.20	0.045	mg/Kg	☼	08/14/20 17:27	08/17/20 15:39	1
2-Methylnaphthalene	0.021 J		0.081	0.0073	mg/Kg	☼	08/14/20 17:27	08/17/20 15:39	1
2-Methylphenol	<0.064		0.20	0.064	mg/Kg	☼	08/14/20 17:27	08/17/20 15:39	1
3 & 4 Methylphenol	<0.067		0.20	0.067	mg/Kg	☼	08/14/20 17:27	08/17/20 15:39	1
Naphthalene	0.012 J		0.040	0.0061	mg/Kg	☼	08/14/20 17:27	08/17/20 15:39	1
2-Nitroaniline	<0.054		0.20	0.054	mg/Kg	☼	08/14/20 17:27	08/17/20 15:39	1
3-Nitroaniline	<0.12		0.40	0.12	mg/Kg	☼	08/14/20 17:27	08/17/20 15:39	1
4-Nitroaniline	<0.17		0.40	0.17	mg/Kg	☼	08/14/20 17:27	08/17/20 15:39	1
Nitrobenzene	<0.010		0.040	0.010	mg/Kg	☼	08/14/20 17:27	08/17/20 15:39	1
2-Nitrophenol	<0.094		0.40	0.094	mg/Kg	☼	08/14/20 17:27	08/17/20 15:39	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185939-1

Client Sample ID: 2412V2-7-B02 (0-1.8)

Lab Sample ID: 500-185939-2

Date Collected: 08/04/20 14:15

Matrix: Solid

Date Received: 08/04/20 17:40

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	<0.38		0.81	0.38	mg/Kg	☼	08/14/20 17:27	08/17/20 15:39	1
N-Nitrosodi-n-propylamine	<0.049		0.081	0.049	mg/Kg	☼	08/14/20 17:27	08/17/20 15:39	1
N-Nitrosodiphenylamine	<0.047		0.20	0.047	mg/Kg	☼	08/14/20 17:27	08/17/20 15:39	1
2,2'-oxybis[1-chloropropane]	<0.046		0.20	0.046	mg/Kg	☼	08/14/20 17:27	08/17/20 15:39	1
Pentachlorophenol	<0.64		0.81	0.64	mg/Kg	☼	08/14/20 17:27	08/17/20 15:39	1
Phenanthrene	0.36		0.040	0.0056	mg/Kg	☼	08/14/20 17:27	08/17/20 15:39	1
Phenol	<0.089		0.20	0.089	mg/Kg	☼	08/14/20 17:27	08/17/20 15:39	1
Pyrene	0.56		0.040	0.0079	mg/Kg	☼	08/14/20 17:27	08/17/20 15:39	1
1,2,4-Trichlorobenzene	<0.043		0.20	0.043	mg/Kg	☼	08/14/20 17:27	08/17/20 15:39	1
2,4,5-Trichlorophenol	<0.091		0.40	0.091	mg/Kg	☼	08/14/20 17:27	08/17/20 15:39	1
2,4,6-Trichlorophenol	<0.14		0.40	0.14	mg/Kg	☼	08/14/20 17:27	08/17/20 15:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	85		43 - 145	08/14/20 17:27	08/17/20 15:39	1
2-Fluorophenol	73		31 - 166	08/14/20 17:27	08/17/20 15:39	1
Nitrobenzene-d5	63		37 - 147	08/14/20 17:27	08/17/20 15:39	1
Phenol-d5	63		30 - 153	08/14/20 17:27	08/17/20 15:39	1
Terphenyl-d14	104		42 - 157	08/14/20 17:27	08/17/20 15:39	1
2,4,6-Tribromophenol	95		31 - 143	08/14/20 17:27	08/17/20 15:39	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.51	J	1.2	0.23	mg/Kg	☼	08/11/20 07:05	08/12/20 01:10	1
Arsenic	6.9		0.59	0.20	mg/Kg	☼	08/11/20 07:05	08/12/20 01:10	1
Barium	91		0.59	0.067	mg/Kg	☼	08/11/20 07:05	08/12/20 01:10	1
Beryllium	0.75		0.23	0.055	mg/Kg	☼	08/11/20 07:05	08/12/20 01:10	1
Cadmium	0.32	B	0.12	0.021	mg/Kg	☼	08/11/20 07:05	08/12/20 01:10	1
Chromium	15		0.59	0.29	mg/Kg	☼	08/11/20 07:05	08/12/20 01:10	1
Cobalt	9.8		0.29	0.077	mg/Kg	☼	08/11/20 07:05	08/12/20 01:10	1
Copper	21		0.59	0.16	mg/Kg	☼	08/11/20 07:05	08/12/20 01:10	1
Iron	16000		12	6.1	mg/Kg	☼	08/11/20 07:05	08/12/20 01:10	1
Lead	79		0.29	0.14	mg/Kg	☼	08/11/20 07:05	08/12/20 01:10	1
Magnesium	7400		5.9	2.9	mg/Kg	☼	08/11/20 07:05	08/12/20 01:10	1
Calcium	11000		12	2.0	mg/Kg	☼	08/11/20 07:05	08/12/20 01:10	1
Manganese	480		0.59	0.085	mg/Kg	☼	08/11/20 07:05	08/12/20 01:10	1
Nickel	22		0.59	0.17	mg/Kg	☼	08/11/20 07:05	08/12/20 01:10	1
Selenium	0.36	J	0.59	0.34	mg/Kg	☼	08/11/20 07:05	08/12/20 01:10	1
Silver	<0.076		0.29	0.076	mg/Kg	☼	08/11/20 07:05	08/12/20 01:10	1
Thallium	0.54	J	0.59	0.29	mg/Kg	☼	08/11/20 07:05	08/12/20 01:10	1
Vanadium	27		0.29	0.069	mg/Kg	☼	08/11/20 07:05	08/12/20 01:10	1
Zinc	100		1.2	0.51	mg/Kg	☼	08/11/20 07:05	08/12/20 01:10	1
Potassium	1400		29	10	mg/Kg	☼	08/11/20 07:05	08/12/20 01:10	1
Sodium	610		59	8.7	mg/Kg	☼	08/11/20 07:05	08/12/20 01:10	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/17/20 17:21	08/18/20 01:39	1
Barium	0.67		0.50	0.050	mg/L		08/17/20 17:21	08/18/20 01:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/17/20 17:21	08/18/20 01:39	1
Cadmium	0.0020	J	0.0050	0.0020	mg/L		08/17/20 17:21	08/18/20 01:39	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185939-1

Client Sample ID: 2412V2-7-B02 (0-1.8)

Lab Sample ID: 500-185939-2

Date Collected: 08/04/20 14:15

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 82.5

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		08/17/20 17:21	08/18/20 01:39	1
Chromium	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:39	1
Cobalt	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:39	1
Copper	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:39	1
Iron	<0.20		0.40	0.20	mg/L		08/17/20 17:21	08/18/20 01:39	1
Lead	0.0091		0.0075	0.0075	mg/L		08/17/20 17:21	08/18/20 01:39	1
Magnesium	110		2.5	0.50	mg/L		08/17/20 17:21	08/18/20 01:39	1
Manganese	0.27		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:39	1
Nickel	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:39	1
Potassium	8.9		2.5	0.50	mg/L		08/17/20 17:21	08/18/20 01:39	1
Selenium	<0.020		0.050	0.020	mg/L		08/17/20 17:21	08/18/20 01:39	1
Silver	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:39	1
Vanadium	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:39	1
Zinc	0.096	J	0.50	0.020	mg/L		08/17/20 17:21	08/18/20 01:39	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.28		0.0075	0.0075	mg/L		08/17/20 17:17	08/18/20 03:38	1
Manganese	1.1		0.025	0.010	mg/L		08/17/20 17:17	08/18/20 03:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		08/17/20 17:21	08/18/20 09:33	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		08/17/20 17:21	08/18/20 09:33	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/18/20 09:55	08/19/20 09:21	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.081		0.019	0.0063	mg/Kg	☼	08/11/20 14:25	08/12/20 07:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.31	J	0.36	0.18	mg/Kg	☼	08/14/20 13:10	08/17/20 10:31	1
pH	8.6		0.2	0.2	SU			08/06/20 20:50	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185939-1

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
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
B	Compound was found in the blank and sample.
F3	Duplicate RPD exceeds the control limit
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185939-1

GC/MS VOA

Analysis Batch: 556207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185939-2	2412V2-7-B02 (0-1.8)	Total/NA	Solid	8260B	556283
MB 500-556207/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-556207/7	Lab Control Sample	Total/NA	Solid	8260B	
LCS 500-556207/8	Lab Control Sample Dup	Total/NA	Solid	8260B	

Prep Batch: 556283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185939-1	2412V2-7-B01 (0-1.8)	Total/NA	Solid	5035	
500-185939-2	2412V2-7-B02 (0-1.8)	Total/NA	Solid	5035	

Analysis Batch: 556377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185939-1	2412V2-7-B01 (0-1.8)	Total/NA	Solid	8260B	556283
MB 500-556377/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-556377/7	Lab Control Sample	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 556949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185939-1	2412V2-7-B01 (0-1.8)	Total/NA	Solid	3541	
500-185939-2	2412V2-7-B02 (0-1.8)	Total/NA	Solid	3541	
MB 500-556949/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-556949/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 557105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185939-1	2412V2-7-B01 (0-1.8)	Total/NA	Solid	8270D	556949
500-185939-2	2412V2-7-B02 (0-1.8)	Total/NA	Solid	8270D	556949

Analysis Batch: 557147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-556949/1-A	Method Blank	Total/NA	Solid	8270D	556949
LCS 500-556949/2-A	Lab Control Sample	Total/NA	Solid	8270D	556949

Metals

Prep Batch: 556180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185939-1	2412V2-7-B01 (0-1.8)	Total/NA	Solid	3050B	
500-185939-2	2412V2-7-B02 (0-1.8)	Total/NA	Solid	3050B	
MB 500-556180/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-556180/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 556263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185939-1	2412V2-7-B01 (0-1.8)	Total/NA	Solid	7471B	
500-185939-2	2412V2-7-B02 (0-1.8)	Total/NA	Solid	7471B	
MB 500-556263/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-556263/13-A	Lab Control Sample	Total/NA	Solid	7471B	
500-185939-1 MS	2412V2-7-B01 (0-1.8)	Total/NA	Solid	7471B	
500-185939-1 MSD	2412V2-7-B01 (0-1.8)	Total/NA	Solid	7471B	

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185939-1

Metals (Continued)

Prep Batch: 556263 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185939-1 DU	2412V2-7-B01 (0-1.8)	Total/NA	Solid	7471B	

Analysis Batch: 556360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185939-1	2412V2-7-B01 (0-1.8)	Total/NA	Solid	6010B	556180
500-185939-2	2412V2-7-B02 (0-1.8)	Total/NA	Solid	6010B	556180
MB 500-556180/1-A	Method Blank	Total/NA	Solid	6010B	556180
LCS 500-556180/2-A	Lab Control Sample	Total/NA	Solid	6010B	556180

Analysis Batch: 556451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185939-1	2412V2-7-B01 (0-1.8)	Total/NA	Solid	7471B	556263
500-185939-2	2412V2-7-B02 (0-1.8)	Total/NA	Solid	7471B	556263
MB 500-556263/12-A	Method Blank	Total/NA	Solid	7471B	556263
LCS 500-556263/13-A	Lab Control Sample	Total/NA	Solid	7471B	556263
500-185939-1 MS	2412V2-7-B01 (0-1.8)	Total/NA	Solid	7471B	556263
500-185939-1 MSD	2412V2-7-B01 (0-1.8)	Total/NA	Solid	7471B	556263
500-185939-1 DU	2412V2-7-B01 (0-1.8)	Total/NA	Solid	7471B	556263

Leach Batch: 556907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185939-1	2412V2-7-B01 (0-1.8)	SPLP East	Solid	1312	
500-185939-2	2412V2-7-B02 (0-1.8)	SPLP East	Solid	1312	
LB 500-556907/1-B	Method Blank	SPLP East	Solid	1312	

Leach Batch: 556919

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185939-1	2412V2-7-B01 (0-1.8)	TCLP	Solid	1311	
500-185939-2	2412V2-7-B02 (0-1.8)	TCLP	Solid	1311	
LB 500-556919/1-B	Method Blank	TCLP	Solid	1311	
LB 500-556919/1-C	Method Blank	TCLP	Solid	1311	

Prep Batch: 557242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185939-1	2412V2-7-B01 (0-1.8)	SPLP East	Solid	3010A	556907
500-185939-2	2412V2-7-B02 (0-1.8)	SPLP East	Solid	3010A	556907
LB 500-556907/1-B	Method Blank	SPLP East	Solid	3010A	556907
LCS 500-557242/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 557245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185939-1	2412V2-7-B01 (0-1.8)	TCLP	Solid	3010A	556919
500-185939-2	2412V2-7-B02 (0-1.8)	TCLP	Solid	3010A	556919
LB 500-556919/1-B	Method Blank	TCLP	Solid	3010A	556919
LCS 500-557245/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 557303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185939-1	2412V2-7-B01 (0-1.8)	TCLP	Solid	6010B	557245
500-185939-2	2412V2-7-B02 (0-1.8)	TCLP	Solid	6010B	557245
LB 500-556919/1-B	Method Blank	TCLP	Solid	6010B	557245

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185939-1

Metals (Continued)

Analysis Batch: 557303 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-557245/2-A	Lab Control Sample	Total/NA	Solid	6010B	557245

Analysis Batch: 557308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185939-1	2412V2-7-B01 (0-1.8)	SPLP East	Solid	6010B	557242
500-185939-2	2412V2-7-B02 (0-1.8)	SPLP East	Solid	6010B	557242
LB 500-556907/1-B	Method Blank	SPLP East	Solid	6010B	557242
LCS 500-557242/2-A	Lab Control Sample	Total/NA	Solid	6010B	557242

Prep Batch: 557385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185939-1	2412V2-7-B01 (0-1.8)	TCLP	Solid	7470A	556919
500-185939-2	2412V2-7-B02 (0-1.8)	TCLP	Solid	7470A	556919
LB 500-556919/1-C	Method Blank	TCLP	Solid	7470A	556919
MB 500-557385/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-557385/14-A	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 557398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185939-1	2412V2-7-B01 (0-1.8)	TCLP	Solid	6020A	557245
500-185939-2	2412V2-7-B02 (0-1.8)	TCLP	Solid	6020A	557245
LB 500-556919/1-B	Method Blank	TCLP	Solid	6020A	557245
LCS 500-557245/2-A	Lab Control Sample	Total/NA	Solid	6020A	557245

Analysis Batch: 557609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185939-1	2412V2-7-B01 (0-1.8)	TCLP	Solid	7470A	557385
500-185939-2	2412V2-7-B02 (0-1.8)	TCLP	Solid	7470A	557385
LB 500-556919/1-C	Method Blank	TCLP	Solid	7470A	557385
MB 500-557385/12-A	Method Blank	Total/NA	Solid	7470A	557385
LCS 500-557385/14-A	Lab Control Sample	Total/NA	Solid	7470A	557385

General Chemistry

Analysis Batch: 555682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185939-1	2412V2-7-B01 (0-1.8)	Total/NA	Solid	Moisture	
500-185939-2	2412V2-7-B02 (0-1.8)	Total/NA	Solid	Moisture	

Analysis Batch: 555814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185939-1	2412V2-7-B01 (0-1.8)	Total/NA	Solid	9045D	
500-185939-2	2412V2-7-B02 (0-1.8)	Total/NA	Solid	9045D	
LCS 500-555814/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-555814/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Prep Batch: 556845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185939-1	2412V2-7-B01 (0-1.8)	Total/NA	Solid	9010C	
500-185939-2	2412V2-7-B02 (0-1.8)	Total/NA	Solid	9010C	
MB 500-556845/1-A	Method Blank	Total/NA	Solid	9010C	

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185939-1

General Chemistry (Continued)

Prep Batch: 556845 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
HLCS 500-556845/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 500-556845/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 500-556845/4-A	Lab Control Sample	Total/NA	Solid	9010C	

Analysis Batch: 557233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185939-1	2412V2-7-B01 (0-1.8)	Total/NA	Solid	9012B	556845
500-185939-2	2412V2-7-B02 (0-1.8)	Total/NA	Solid	9012B	556845
MB 500-556845/1-A	Method Blank	Total/NA	Solid	9012B	556845
HLCS 500-556845/2-A	Lab Control Sample	Total/NA	Solid	9012B	556845
LCS 500-556845/3-A	Lab Control Sample	Total/NA	Solid	9012B	556845
LLCS 500-556845/4-A	Lab Control Sample	Total/NA	Solid	9012B	556845

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185939-1

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 (75-131)	DBFM (75-126)	DCA (70-134)	TOL (75-124)
500-185939-1	2412V2-7-B01 (0-1.8)	102	104	91	96
500-185939-2	2412V2-7-B02 (0-1.8)	109	102	100	87
LCS 500-556207/7	Lab Control Sample	97	87	82	95
LCS 500-556377/7	Lab Control Sample	85	96	81	91
LCSD 500-556207/8	Lab Control Sample Dup	102	87	82	91
MB 500-556207/6	Method Blank	103	89	86	89
MB 500-556377/6	Method Blank	88	97	84	92

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 (43-145)	2FP (31-166)	NBZ (37-147)	PHL (30-153)	TPHL (42-157)	TBP (31-143)
500-185939-1	2412V2-7-B01 (0-1.8)	83	75	65	61	97	99
500-185939-2	2412V2-7-B02 (0-1.8)	85	73	63	63	104	95
LCS 500-556949/2-A	Lab Control Sample	92	85	76	71	95	104
MB 500-556949/1-A	Method Blank	90	91	76	74	102	95

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 - Hampshire - WO 074

Job ID: 500-185939-1

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

Lab Sample ID: MB 500-556207/6
Matrix: Solid
Analysis Batch: 556207

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			08/11/20 10:59	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg			08/11/20 10:59	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg			08/11/20 10:59	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg			08/11/20 10:59	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg			08/11/20 10:59	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			08/11/20 10:59	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg			08/11/20 10:59	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg			08/11/20 10:59	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg			08/11/20 10:59	1
Chloroethane	<0.0015		0.0050	0.0015	mg/Kg			08/11/20 10:59	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg			08/11/20 10:59	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg			08/11/20 10:59	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg			08/11/20 10:59	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg			08/11/20 10:59	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg			08/11/20 10:59	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg			08/11/20 10:59	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg			08/11/20 10:59	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg			08/11/20 10:59	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			08/11/20 10:59	1
1,3-Dichloropropene, Total	<0.00070		0.0020	0.00070	mg/Kg			08/11/20 10:59	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg			08/11/20 10:59	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg			08/11/20 10:59	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg			08/11/20 10:59	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg			08/11/20 10:59	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg			08/11/20 10:59	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg			08/11/20 10:59	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg			08/11/20 10:59	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg			08/11/20 10:59	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg			08/11/20 10:59	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg			08/11/20 10:59	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg			08/11/20 10:59	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg			08/11/20 10:59	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg			08/11/20 10:59	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg			08/11/20 10:59	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg			08/11/20 10:59	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg			08/11/20 10:59	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg			08/11/20 10:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		75 - 131		08/11/20 10:59	1
Dibromofluoromethane	89		75 - 126		08/11/20 10:59	1
1,2-Dichloroethane-d4 (Surr)	86		70 - 134		08/11/20 10:59	1
Toluene-d8 (Surr)	89		75 - 124		08/11/20 10:59	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185939-1

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

Lab Sample ID: LCS 500-556207/7

Matrix: Solid

Analysis Batch: 556207

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	0.0487		mg/Kg		97	40 - 150
Benzene	0.0500	0.0542		mg/Kg		108	70 - 125
Bromodichloromethane	0.0500	0.0493		mg/Kg		99	67 - 129
Bromoform	0.0500	0.0455		mg/Kg		91	68 - 136
Bromomethane	0.0500	0.0324	*	mg/Kg		65	70 - 130
2-Butanone (MEK)	0.0500	0.0505		mg/Kg		101	47 - 138
Carbon disulfide	0.0500	0.0555		mg/Kg		111	70 - 129
Carbon tetrachloride	0.0500	0.0530		mg/Kg		106	75 - 125
Chlorobenzene	0.0500	0.0528		mg/Kg		106	50 - 150
Chloroethane	0.0500	0.0382		mg/Kg		76	75 - 125
Chloroform	0.0500	0.0505		mg/Kg		101	57 - 135
Chloromethane	0.0500	0.0676	*	mg/Kg		135	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0513		mg/Kg		103	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0501		mg/Kg		100	70 - 125
Dibromochloromethane	0.0500	0.0482		mg/Kg		96	69 - 125
1,1-Dichloroethane	0.0500	0.0593		mg/Kg		119	70 - 125
1,2-Dichloroethane	0.0500	0.0503		mg/Kg		101	70 - 130
1,1-Dichloroethene	0.0500	0.0532		mg/Kg		106	70 - 120
1,2-Dichloropropane	0.0500	0.0563		mg/Kg		113	70 - 125
Ethylbenzene	0.0500	0.0548		mg/Kg		110	61 - 136
2-Hexanone	0.0500	0.0552		mg/Kg		110	48 - 146
Methylene Chloride	0.0500	0.0501		mg/Kg		100	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0538		mg/Kg		108	50 - 148
Methyl tert-butyl ether	0.0500	0.0457		mg/Kg		91	50 - 140
Styrene	0.0500	0.0523		mg/Kg		105	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0469		mg/Kg		94	70 - 122
Tetrachloroethene	0.0500	0.0513		mg/Kg		103	70 - 124
Toluene	0.0500	0.0536		mg/Kg		107	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0534		mg/Kg		107	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0468		mg/Kg		94	70 - 125
1,1,1-Trichloroethane	0.0500	0.0522		mg/Kg		104	70 - 128
1,1,2-Trichloroethane	0.0500	0.0484		mg/Kg		97	70 - 125
Trichloroethene	0.0500	0.0535		mg/Kg		107	70 - 125
Vinyl acetate	0.0500	0.0608		mg/Kg		122	40 - 153
Vinyl chloride	0.0500	0.0537		mg/Kg		107	70 - 125
Xylenes, Total	0.100	0.106		mg/Kg		106	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	97		75 - 131
Dibromofluoromethane	87		75 - 126
1,2-Dichloroethane-d4 (Surr)	82		70 - 134
Toluene-d8 (Surr)	95		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185939-1

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

Lab Sample ID: LCSD 500-556207/8
Matrix: Solid
Analysis Batch: 556207

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	0.0452		mg/Kg		90	40 - 150	8	30
Benzene	0.0500	0.0524		mg/Kg		105	70 - 125	3	30
Bromodichloromethane	0.0500	0.0478		mg/Kg		96	67 - 129	3	30
Bromoform	0.0500	0.0440		mg/Kg		88	68 - 136	3	30
Bromomethane	0.0500	0.0326	*	mg/Kg		65	70 - 130	1	30
2-Butanone (MEK)	0.0500	0.0451		mg/Kg		90	47 - 138	11	30
Carbon disulfide	0.0500	0.0571		mg/Kg		114	70 - 129	3	30
Carbon tetrachloride	0.0500	0.0535		mg/Kg		107	75 - 125	1	30
Chlorobenzene	0.0500	0.0495		mg/Kg		99	50 - 150	6	30
Chloroethane	0.0500	0.0400		mg/Kg		80	75 - 125	5	30
Chloroform	0.0500	0.0498		mg/Kg		100	57 - 135	1	30
Chloromethane	0.0500	0.0696	*	mg/Kg		139	70 - 125	3	30
cis-1,2-Dichloroethene	0.0500	0.0512		mg/Kg		102	70 - 125	0	30
cis-1,3-Dichloropropene	0.0500	0.0457		mg/Kg		91	70 - 125	9	30
Dibromochloromethane	0.0500	0.0451		mg/Kg		90	69 - 125	7	30
1,1-Dichloroethane	0.0500	0.0594		mg/Kg		119	70 - 125	0	30
1,2-Dichloroethane	0.0500	0.0476		mg/Kg		95	70 - 130	5	30
1,1-Dichloroethene	0.0500	0.0537		mg/Kg		107	70 - 120	1	30
1,2-Dichloropropane	0.0500	0.0574		mg/Kg		115	70 - 125	2	30
Ethylbenzene	0.0500	0.0504		mg/Kg		101	61 - 136	8	30
2-Hexanone	0.0500	0.0519		mg/Kg		104	48 - 146	6	30
Methylene Chloride	0.0500	0.0500		mg/Kg		100	70 - 126	0	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0491		mg/Kg		98	50 - 148	9	30
Methyl tert-butyl ether	0.0500	0.0451		mg/Kg		90	50 - 140	1	30
Styrene	0.0500	0.0495		mg/Kg		99	70 - 125	5	30
1,1,2,2-Tetrachloroethane	0.0500	0.0449		mg/Kg		90	70 - 122	4	30
Tetrachloroethene	0.0500	0.0481		mg/Kg		96	70 - 124	6	30
Toluene	0.0500	0.0496		mg/Kg		99	70 - 125	8	30
trans-1,2-Dichloroethene	0.0500	0.0546		mg/Kg		109	70 - 125	2	30
trans-1,3-Dichloropropene	0.0500	0.0452		mg/Kg		90	70 - 125	4	30
1,1,1-Trichloroethane	0.0500	0.0526		mg/Kg		105	70 - 128	1	30
1,1,2-Trichloroethane	0.0500	0.0440		mg/Kg		88	70 - 125	10	30
Trichloroethene	0.0500	0.0519		mg/Kg		104	70 - 125	3	30
Vinyl acetate	0.0500	0.0541		mg/Kg		108	40 - 153	12	30
Vinyl chloride	0.0500	0.0555		mg/Kg		111	70 - 125	3	30
Xylenes, Total	0.100	0.0992		mg/Kg		99	53 - 147	6	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	102		75 - 131
Dibromofluoromethane	87		75 - 126
1,2-Dichloroethane-d4 (Surr)	82		70 - 134
Toluene-d8 (Surr)	91		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185939-1

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

Lab Sample ID: MB 500-556377/6
Matrix: Solid
Analysis Batch: 556377

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			08/12/20 09:47	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg			08/12/20 09:47	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg			08/12/20 09:47	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg			08/12/20 09:47	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg			08/12/20 09:47	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			08/12/20 09:47	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg			08/12/20 09:47	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg			08/12/20 09:47	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg			08/12/20 09:47	1
Chloroethane	<0.0015		0.0050	0.0015	mg/Kg			08/12/20 09:47	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg			08/12/20 09:47	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg			08/12/20 09:47	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg			08/12/20 09:47	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg			08/12/20 09:47	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg			08/12/20 09:47	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg			08/12/20 09:47	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg			08/12/20 09:47	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg			08/12/20 09:47	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			08/12/20 09:47	1
1,3-Dichloropropene, Total	<0.00070		0.0020	0.00070	mg/Kg			08/12/20 09:47	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg			08/12/20 09:47	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg			08/12/20 09:47	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg			08/12/20 09:47	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg			08/12/20 09:47	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg			08/12/20 09:47	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg			08/12/20 09:47	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg			08/12/20 09:47	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg			08/12/20 09:47	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg			08/12/20 09:47	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg			08/12/20 09:47	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg			08/12/20 09:47	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg			08/12/20 09:47	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg			08/12/20 09:47	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg			08/12/20 09:47	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg			08/12/20 09:47	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg			08/12/20 09:47	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg			08/12/20 09:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		75 - 131		08/12/20 09:47	1
Dibromofluoromethane	97		75 - 126		08/12/20 09:47	1
1,2-Dichloroethane-d4 (Surr)	84		70 - 134		08/12/20 09:47	1
Toluene-d8 (Surr)	92		75 - 124		08/12/20 09:47	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185939-1

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

Lab Sample ID: LCS 500-556377/7

Matrix: Solid

Analysis Batch: 556377

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	0.0467		mg/Kg		93	40 - 150
Benzene	0.0500	0.0468		mg/Kg		94	70 - 125
Bromodichloromethane	0.0500	0.0447		mg/Kg		89	67 - 129
Bromoform	0.0500	0.0504		mg/Kg		101	68 - 136
Bromomethane	0.0500	0.0408		mg/Kg		82	70 - 130
2-Butanone (MEK)	0.0500	0.0408		mg/Kg		82	47 - 138
Carbon disulfide	0.0500	0.0457		mg/Kg		91	70 - 129
Carbon tetrachloride	0.0500	0.0505		mg/Kg		101	75 - 125
Chlorobenzene	0.0500	0.0491		mg/Kg		98	50 - 150
Chloroethane	0.0500	0.0317	*	mg/Kg		63	75 - 125
Chloroform	0.0500	0.0453		mg/Kg		91	57 - 135
Chloromethane	0.0500	0.0573		mg/Kg		115	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0492		mg/Kg		98	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0454		mg/Kg		91	70 - 125
Dibromochloromethane	0.0500	0.0507		mg/Kg		101	69 - 125
1,1-Dichloroethane	0.0500	0.0453		mg/Kg		91	70 - 125
1,2-Dichloroethane	0.0500	0.0426		mg/Kg		85	70 - 130
1,1-Dichloroethene	0.0500	0.0483		mg/Kg		97	70 - 120
1,2-Dichloropropane	0.0500	0.0446		mg/Kg		89	70 - 125
Ethylbenzene	0.0500	0.0483		mg/Kg		97	61 - 136
2-Hexanone	0.0500	0.0388		mg/Kg		78	48 - 146
Methylene Chloride	0.0500	0.0464		mg/Kg		93	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0396		mg/Kg		79	50 - 148
Methyl tert-butyl ether	0.0500	0.0467		mg/Kg		93	50 - 140
Styrene	0.0500	0.0495		mg/Kg		99	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0434		mg/Kg		87	70 - 122
Tetrachloroethene	0.0500	0.0536		mg/Kg		107	70 - 124
Toluene	0.0500	0.0456		mg/Kg		91	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0501		mg/Kg		100	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0460		mg/Kg		92	70 - 125
1,1,1-Trichloroethane	0.0500	0.0472		mg/Kg		94	70 - 128
1,1,2-Trichloroethane	0.0500	0.0460		mg/Kg		92	70 - 125
Trichloroethene	0.0500	0.0571		mg/Kg		114	70 - 125
Vinyl acetate	0.0500	0.0460		mg/Kg		92	40 - 153
Vinyl chloride	0.0500	0.0561		mg/Kg		112	70 - 125
Xylenes, Total	0.100	0.0936		mg/Kg		94	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	85		75 - 131
Dibromofluoromethane	96		75 - 126
1,2-Dichloroethane-d4 (Surr)	81		70 - 134
Toluene-d8 (Surr)	91		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185939-1

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

Lab Sample ID: MB 500-556949/1-A
Matrix: Solid
Analysis Batch: 557147

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 556949

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0060		0.033	0.0060	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Acenaphthylene	<0.0044		0.033	0.0044	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Anthracene	<0.0056		0.033	0.0056	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Benzo[a]anthracene	<0.0045		0.033	0.0045	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Benzo[a]pyrene	<0.0064		0.033	0.0064	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Benzo[b]fluoranthene	<0.0072		0.033	0.0072	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Benzo[g,h,i]perylene	<0.011		0.033	0.011	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Benzo[k]fluoranthene	<0.0098		0.033	0.0098	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Bis(2-chloroethoxy)methane	<0.034		0.17	0.034	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Bis(2-chloroethyl)ether	<0.050		0.17	0.050	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Bis(2-ethylhexyl) phthalate	<0.061		0.17	0.061	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
4-Bromophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Butyl benzyl phthalate	<0.063		0.17	0.063	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Carbazole	<0.083		0.17	0.083	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
4-Chloroaniline	<0.16		0.67	0.16	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
4-Chloro-3-methylphenol	<0.11		0.33	0.11	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
2-Chloronaphthalene	<0.037		0.17	0.037	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
2-Chlorophenol	<0.057		0.17	0.057	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
4-Chlorophenyl phenyl ether	<0.039		0.17	0.039	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Chrysene	<0.0091		0.033	0.0091	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Dibenz(a,h)anthracene	<0.0064		0.033	0.0064	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Dibenzofuran	<0.039		0.17	0.039	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
1,2-Dichlorobenzene	<0.040		0.17	0.040	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
1,3-Dichlorobenzene	<0.037		0.17	0.037	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
1,4-Dichlorobenzene	<0.043		0.17	0.043	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
3,3'-Dichlorobenzidine	<0.047		0.17	0.047	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
2,4-Dichlorophenol	<0.079		0.33	0.079	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Diethyl phthalate	<0.056		0.17	0.056	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
2,4-Dimethylphenol	<0.13		0.33	0.13	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Dimethyl phthalate	<0.043		0.17	0.043	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Di-n-butyl phthalate	<0.051		0.17	0.051	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
4,6-Dinitro-2-methylphenol	<0.27		0.67	0.27	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
2,4-Dinitrophenol	<0.59		0.67	0.59	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
2,4-Dinitrotoluene	<0.053		0.17	0.053	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
2,6-Dinitrotoluene	<0.065		0.17	0.065	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Di-n-octyl phthalate	<0.054		0.17	0.054	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Fluoranthene	<0.0062		0.033	0.0062	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Fluorene	<0.0047		0.033	0.0047	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Hexachlorobenzene	<0.0077		0.067	0.0077	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Hexachlorobutadiene	<0.052		0.17	0.052	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Hexachlorocyclopentadiene	<0.19		0.67	0.19	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Hexachloroethane	<0.051		0.17	0.051	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Indeno[1,2,3-cd]pyrene	<0.0086		0.033	0.0086	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Isophorone	<0.037		0.17	0.037	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
2-Methylnaphthalene	<0.0061		0.067	0.0061	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
2-Methylphenol	<0.053		0.17	0.053	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
3 & 4 Methylphenol	<0.055		0.17	0.055	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Naphthalene	<0.0051		0.033	0.0051	mg/Kg		08/14/20 17:27	08/17/20 11:31	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185939-1

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

Lab Sample ID: MB 500-556949/1-A

Matrix: Solid

Analysis Batch: 557147

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 556949

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2-Nitroaniline	<0.045		0.17	0.045	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
3-Nitroaniline	<0.10		0.33	0.10	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
4-Nitroaniline	<0.14		0.33	0.14	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Nitrobenzene	<0.0083		0.033	0.0083	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
2-Nitrophenol	<0.079		0.33	0.079	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
4-Nitrophenol	<0.32		0.67	0.32	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
N-Nitrosodi-n-propylamine	<0.041		0.067	0.041	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
N-Nitrosodiphenylamine	<0.039		0.17	0.039	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
2,2'-oxybis[1-chloropropane]	<0.039		0.17	0.039	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Pentachlorophenol	<0.53		0.67	0.53	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Phenanthrene	<0.0046		0.033	0.0046	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Phenol	<0.074		0.17	0.074	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Pyrene	<0.0066		0.033	0.0066	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
1,2,4-Trichlorobenzene	<0.036		0.17	0.036	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
2,4,5-Trichlorophenol	<0.076		0.33	0.076	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
2,4,6-Trichlorophenol	<0.11		0.33	0.11	mg/Kg		08/14/20 17:27	08/17/20 11:31	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorobiphenyl	90		43 - 145	08/14/20 17:27	08/17/20 11:31	1
2-Fluorophenol	91		31 - 166	08/14/20 17:27	08/17/20 11:31	1
Nitrobenzene-d5	76		37 - 147	08/14/20 17:27	08/17/20 11:31	1
Phenol-d5	74		30 - 153	08/14/20 17:27	08/17/20 11:31	1
Terphenyl-d14	102		42 - 157	08/14/20 17:27	08/17/20 11:31	1
2,4,6-Tribromophenol	95		31 - 143	08/14/20 17:27	08/17/20 11:31	1

Lab Sample ID: LCS 500-556949/2-A

Matrix: Solid

Analysis Batch: 557147

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 556949

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthylene	1.33	1.13		mg/Kg		85	68 - 120
Anthracene	1.33	1.14		mg/Kg		86	70 - 114
Benzo[a]anthracene	1.33	1.20		mg/Kg		90	67 - 122
Benzo[a]pyrene	1.33	1.16		mg/Kg		87	65 - 133
Benzo[b]fluoranthene	1.33	1.25		mg/Kg		94	69 - 129
Benzo[g,h,i]perylene	1.33	1.31		mg/Kg		99	72 - 131
Benzo[k]fluoranthene	1.33	1.10		mg/Kg		82	68 - 127
Bis(2-chloroethoxy)methane	1.33	0.924		mg/Kg		69	60 - 112
Bis(2-chloroethyl)ether	1.33	0.826		mg/Kg		62	55 - 111
Bis(2-ethylhexyl) phthalate	1.33	1.12		mg/Kg		84	72 - 131
4-Bromophenyl phenyl ether	1.33	1.13		mg/Kg		85	68 - 118
Butyl benzyl phthalate	1.33	1.17		mg/Kg		88	71 - 129
Carbazole	1.33	1.08		mg/Kg		81	65 - 142
4-Chloroaniline	1.33	0.840		mg/Kg		63	30 - 150
4-Chloro-3-methylphenol	1.33	0.992		mg/Kg		74	65 - 122
2-Chloronaphthalene	1.33	1.09		mg/Kg		82	69 - 114
2-Chlorophenol	1.33	1.01		mg/Kg		76	64 - 110

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185939-1

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

Lab Sample ID: LCS 500-556949/2-A

Matrix: Solid

Analysis Batch: 557147

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 556949

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorophenyl phenyl ether	1.33	1.20		mg/Kg		90	62 - 119
Chrysene	1.33	1.20		mg/Kg		90	63 - 120
Dibenz(a,h)anthracene	1.33	1.24		mg/Kg		93	64 - 131
Dibenzofuran	1.33	1.17		mg/Kg		88	66 - 115
1,2-Dichlorobenzene	1.33	1.06		mg/Kg		80	62 - 110
1,3-Dichlorobenzene	1.33	1.00		mg/Kg		75	65 - 124
1,4-Dichlorobenzene	1.33	1.02		mg/Kg		76	61 - 110
3,3'-Dichlorobenzidine	1.33	0.888		mg/Kg		67	35 - 128
2,4-Dichlorophenol	1.33	1.17		mg/Kg		88	58 - 120
Diethyl phthalate	1.33	1.10		mg/Kg		82	58 - 120
2,4-Dimethylphenol	1.33	1.01		mg/Kg		76	60 - 110
Dimethyl phthalate	1.33	1.24		mg/Kg		93	69 - 116
Di-n-butyl phthalate	1.33	1.09		mg/Kg		82	65 - 120
4,6-Dinitro-2-methylphenol	2.67	0.808		mg/Kg		30	10 - 110
2,4-Dinitrophenol	2.67	0.637	J	mg/Kg		24	10 - 100
2,4-Dinitrotoluene	1.33	1.34		mg/Kg		100	69 - 124
2,6-Dinitrotoluene	1.33	1.30		mg/Kg		97	70 - 123
Di-n-octyl phthalate	1.33	1.13		mg/Kg		85	68 - 134
Fluoranthene	1.33	1.20		mg/Kg		90	62 - 120
Fluorene	1.33	1.18		mg/Kg		89	62 - 120
Hexachlorobenzene	1.33	1.22		mg/Kg		92	63 - 124
Hexachlorobutadiene	1.33	1.31		mg/Kg		98	56 - 120
Hexachlorocyclopentadiene	1.33	1.02		mg/Kg		76	10 - 133
Hexachloroethane	1.33	0.915		mg/Kg		69	60 - 114
Indeno[1,2,3-cd]pyrene	1.33	1.35		mg/Kg		101	68 - 130
Isophorone	1.33	1.02		mg/Kg		77	55 - 110
2-Methylnaphthalene	1.33	1.22		mg/Kg		92	69 - 112
2-Methylphenol	1.33	1.14		mg/Kg		85	60 - 120
3 & 4 Methylphenol	1.33	1.01		mg/Kg		76	57 - 120
Naphthalene	1.33	1.13		mg/Kg		85	63 - 110
2-Nitroaniline	1.33	0.878		mg/Kg		66	57 - 124
3-Nitroaniline	1.33	0.679		mg/Kg		51	40 - 122
4-Nitroaniline	1.33	0.876		mg/Kg		66	60 - 160
Nitrobenzene	1.33	0.949		mg/Kg		71	60 - 116
2-Nitrophenol	1.33	1.15		mg/Kg		86	60 - 120
4-Nitrophenol	2.67	1.81		mg/Kg		68	30 - 122
N-Nitrosodi-n-propylamine	1.33	1.05		mg/Kg		78	56 - 118
N-Nitrosodiphenylamine	1.33	1.09		mg/Kg		82	65 - 112
2,2'-oxybis[1-chloropropane]	1.33	0.945		mg/Kg		71	40 - 124
Pentachlorophenol	2.67	1.26		mg/Kg		47	13 - 112
Phenanthrene	1.33	1.15		mg/Kg		86	62 - 120
Phenol	1.33	0.914		mg/Kg		69	56 - 122
Pyrene	1.33	1.23		mg/Kg		93	61 - 128
1,2,4-Trichlorobenzene	1.33	1.21		mg/Kg		91	66 - 117
2,4,5-Trichlorophenol	1.33	1.06		mg/Kg		80	50 - 120
2,4,6-Trichlorophenol	1.33	1.11		mg/Kg		83	57 - 120

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185939-1

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

Lab Sample ID: LCS 500-556949/2-A
Matrix: Solid
Analysis Batch: 557147

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556949

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	92		43 - 145
2-Fluorophenol	85		31 - 166
Nitrobenzene-d5	76		37 - 147
Phenol-d5	71		30 - 153
Terphenyl-d14	95		42 - 157
2,4,6-Tribromophenol	104		31 - 143

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-556180/1-A
Matrix: Solid
Analysis Batch: 556360

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 556180

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.39		2.0	0.39	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Arsenic	<0.34		1.0	0.34	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Barium	<0.11		1.0	0.11	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Beryllium	<0.093		0.40	0.093	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Cadmium	0.0441	J	0.20	0.036	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Chromium	<0.50		1.0	0.50	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Cobalt	<0.13		0.50	0.13	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Copper	<0.28		1.0	0.28	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Iron	<10		20	10	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Lead	<0.23		0.50	0.23	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Magnesium	<5.0		10	5.0	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Calcium	<3.4		20	3.4	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Manganese	<0.15		1.0	0.15	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Nickel	<0.29		1.0	0.29	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Selenium	<0.59		1.0	0.59	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Silver	<0.13		0.50	0.13	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Thallium	<0.50		1.0	0.50	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Vanadium	<0.12		0.50	0.12	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Zinc	<0.88		2.0	0.88	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Potassium	<18		50	18	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Sodium	<15		100	15	mg/Kg		08/11/20 07:05	08/12/20 00:26	1

Lab Sample ID: LCS 500-556180/2-A
Matrix: Solid
Analysis Batch: 556360

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556180

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Antimony	50.0	44.0		mg/Kg		88	80 - 120
Arsenic	10.0	9.48		mg/Kg		95	80 - 120
Barium	200	192		mg/Kg		96	80 - 120
Beryllium	5.00	4.72		mg/Kg		94	80 - 120
Cadmium	5.00	4.85		mg/Kg		97	80 - 120
Chromium	20.0	19.5		mg/Kg		98	80 - 120
Cobalt	50.0	49.4		mg/Kg		99	80 - 120
Copper	25.0	24.0		mg/Kg		96	80 - 120

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185939-1

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

Lab Sample ID: LCS 500-556180/2-A
Matrix: Solid
Analysis Batch: 556360

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556180

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	100	108		mg/Kg		108	80 - 120
Lead	10.0	9.76		mg/Kg		98	80 - 120
Magnesium	1000	921		mg/Kg		92	80 - 120
Calcium	1000	949		mg/Kg		95	80 - 120
Manganese	50.0	46.6		mg/Kg		93	80 - 120
Nickel	50.0	49.1		mg/Kg		98	80 - 120
Selenium	10.0	8.64		mg/Kg		86	80 - 120
Silver	5.00	4.67		mg/Kg		93	80 - 120
Thallium	10.0	10.1		mg/Kg		101	80 - 120
Vanadium	50.0	48.6		mg/Kg		97	80 - 120
Zinc	50.0	47.4		mg/Kg		95	80 - 120
Potassium	1000	974		mg/Kg		97	80 - 120
Sodium	1000	982		mg/Kg		98	80 - 120

Lab Sample ID: LCS 500-557242/2-A
Matrix: Solid
Analysis Batch: 557308

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 557242

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.100	0.0959		mg/L		96	80 - 120
Manganese	0.500	0.447		mg/L		89	80 - 120

Lab Sample ID: LCS 500-557245/2-A
Matrix: Solid
Analysis Batch: 557303

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 557245

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.109		mg/L		109	80 - 120
Barium	0.500	0.496	J	mg/L		99	80 - 120
Beryllium	0.0500	0.0498		mg/L		100	80 - 120
Cadmium	0.0500	0.0511		mg/L		102	80 - 120
Chromium	0.200	0.198		mg/L		99	80 - 120
Cobalt	0.500	0.522		mg/L		104	80 - 120
Copper	0.250	0.259		mg/L		103	80 - 120
Iron	1.00	1.02		mg/L		102	80 - 120
Lead	0.100	0.0961		mg/L		96	80 - 120
Magnesium	10.0	9.26		mg/L		93	80 - 120
Calcium	10.0	9.87		mg/L		99	80 - 120
Manganese	0.500	0.482		mg/L		96	80 - 120
Nickel	0.500	0.517		mg/L		103	80 - 120
Selenium	0.100	0.106		mg/L		106	80 - 120
Silver	0.0500	0.0512		mg/L		102	80 - 120
Vanadium	0.500	0.516		mg/L		103	80 - 120
Zinc	0.500	0.568		mg/L		114	80 - 120
Potassium	10.0	10.4		mg/L		104	80 - 120

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185939-1

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

Lab Sample ID: LB 500-556919/1-B
Matrix: Solid
Analysis Batch: 557303

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 557245

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.010		0.050	0.010	mg/L		08/17/20 17:21	08/18/20 01:05	1
Barium	<0.050		0.50	0.050	mg/L		08/17/20 17:21	08/18/20 01:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/17/20 17:21	08/18/20 01:05	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/17/20 17:21	08/18/20 01:05	1
Chromium	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:05	1
Cobalt	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:05	1
Copper	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:05	1
Iron	<0.20		0.40	0.20	mg/L		08/17/20 17:21	08/18/20 01:05	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/17/20 17:21	08/18/20 01:05	1
Magnesium	<0.50		2.5	0.50	mg/L		08/17/20 17:21	08/18/20 01:05	1
Calcium	<0.50		5.0	0.50	mg/L		08/17/20 17:21	08/18/20 01:05	1
Manganese	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:05	1
Nickel	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:05	1
Selenium	<0.020		0.050	0.020	mg/L		08/17/20 17:21	08/18/20 01:05	1
Silver	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:05	1
Vanadium	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:05	1
Zinc	<0.020		0.50	0.020	mg/L		08/17/20 17:21	08/18/20 01:05	1
Potassium	<0.50		2.5	0.50	mg/L		08/17/20 17:21	08/18/20 01:05	1

Lab Sample ID: LB 500-556907/1-B
Matrix: Solid
Analysis Batch: 557308

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 557242

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	<0.0075		0.0075	0.0075	mg/L		08/17/20 17:17	08/18/20 03:14	1
Manganese	<0.010		0.025	0.010	mg/L		08/17/20 17:17	08/18/20 03:14	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-557245/2-A
Matrix: Solid
Analysis Batch: 557398

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 557245

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
Antimony	0.500	0.573	^	mg/L		115		80 - 120
Thallium	0.100	0.120	^	mg/L		120		80 - 120

Lab Sample ID: LB 500-556919/1-B
Matrix: Solid
Analysis Batch: 557398

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 557245

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0060	^	0.0060	0.0060	mg/L		08/17/20 17:21	08/18/20 09:20	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		08/17/20 17:21	08/18/20 09:20	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185939-1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-557385/12-A
Matrix: Solid
Analysis Batch: 557609

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 557385

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/18/20 09:55	08/19/20 09:02	1

Lab Sample ID: LCS 500-557385/14-A
Matrix: Solid
Analysis Batch: 557609

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 557385
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00198		mg/L		99	80 - 120

Lab Sample ID: LB 500-556919/1-C
Matrix: Solid
Analysis Batch: 557609

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 557385

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/18/20 09:55	08/19/20 09:04	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-556263/12-A
Matrix: Solid
Analysis Batch: 556451

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 556263

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		08/11/20 14:25	08/12/20 07:11	1

Lab Sample ID: LCS 500-556263/13-A
Matrix: Solid
Analysis Batch: 556451

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556263
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.170		mg/Kg		102	80 - 120

Lab Sample ID: 500-185939-1 MS
Matrix: Solid
Analysis Batch: 556451

Client Sample ID: 2412V2-7-B01 (0-1.8)
Prep Type: Total/NA
Prep Batch: 556263
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	0.030		0.0839	0.132		mg/Kg	☼	121	75 - 125

Lab Sample ID: 500-185939-1 MSD
Matrix: Solid
Analysis Batch: 556451

Client Sample ID: 2412V2-7-B01 (0-1.8)
Prep Type: Total/NA
Prep Batch: 556263
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.030		0.0835	0.125		mg/Kg	☼	114	75 - 125	5	20

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185939-1

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: 500-185939-1 DU
 Matrix: Solid
 Analysis Batch: 556451

Client Sample ID: 2412V2-7-B01 (0-1.8)
 Prep Type: Total/NA
 Prep Batch: 556263

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	0.030		0.0621	F3	mg/Kg	☼	69	20

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 500-556845/1-A
 Matrix: Solid
 Analysis Batch: 557233

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 556845

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.12		0.24	0.12	mg/Kg		08/14/20 13:10	08/17/20 09:49	1

Lab Sample ID: HLCS 500-556845/2-A
 Matrix: Solid
 Analysis Batch: 557233

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 556845

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	12.0	11.9		mg/Kg		99	90 - 110

Lab Sample ID: LCS 500-556845/3-A
 Matrix: Solid
 Analysis Batch: 557233

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 556845

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	2.40	2.49		mg/Kg		104	85 - 115

Lab Sample ID: LLCS 500-556845/4-A
 Matrix: Solid
 Analysis Batch: 557233

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 556845

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	1.20	1.18		mg/Kg		98	75 - 125

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185939-1

Client Sample ID: 2412V2-7-B01 (0-1.8)

Lab Sample ID: 500-185939-1

Date Collected: 08/04/20 14:30

Matrix: Solid

Date Received: 08/04/20 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			556907	08/14/20 12:25	JLC	TAL CHI
SPLP East	Prep	3010A			557242	08/17/20 17:17	BDE	TAL CHI
SPLP East	Analysis	6010B		1	557308	08/18/20 03:34	JEF	TAL CHI
TCLP	Leach	1311			556919	08/14/20 14:05	JLC	TAL CHI
TCLP	Prep	3010A			557245	08/17/20 17:21	BDE	TAL CHI
TCLP	Analysis	6010B		1	557303	08/18/20 01:34	EEN	TAL CHI
TCLP	Leach	1311			556919	08/14/20 14:05	JLC	TAL CHI
TCLP	Prep	3010A			557245	08/17/20 17:21	BDE	TAL CHI
TCLP	Analysis	6020A		1	557398	08/18/20 09:31	FXG	TAL CHI
TCLP	Leach	1311			556919	08/14/20 14:05	JLC	TAL CHI
TCLP	Prep	7470A			557385	08/18/20 09:55	MJG	TAL CHI
TCLP	Analysis	7470A		1	557609	08/19/20 09:19	MJG	TAL CHI
Total/NA	Analysis	9045D		1	555814	08/06/20 20:48	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	555682	08/06/20 12:25	LWN	TAL CHI

Client Sample ID: 2412V2-7-B01 (0-1.8)

Lab Sample ID: 500-185939-1

Date Collected: 08/04/20 14:30

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 90.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			556283	08/05/20 08:30	PMF	TAL CHI
Total/NA	Analysis	8260B		1	556377	08/12/20 17:57	PMF	TAL CHI
Total/NA	Prep	3541			556949	08/14/20 17:27	ACK	TAL CHI
Total/NA	Analysis	8270D		1	557105	08/17/20 15:12	AJD	TAL CHI
Total/NA	Prep	3050B			556180	08/11/20 07:05	LMN	TAL CHI
Total/NA	Analysis	6010B		1	556360	08/12/20 01:06	JEF	TAL CHI
Total/NA	Prep	7471B			556263	08/11/20 14:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	556451	08/12/20 07:37	MJG	TAL CHI
Total/NA	Prep	9010C			556845	08/14/20 13:10	MS	TAL CHI
Total/NA	Analysis	9012B		1	557233	08/17/20 10:29	MS	TAL CHI

Client Sample ID: 2412V2-7-B02 (0-1.8)

Lab Sample ID: 500-185939-2

Date Collected: 08/04/20 14:15

Matrix: Solid

Date Received: 08/04/20 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			556907	08/14/20 12:25	JLC	TAL CHI
SPLP East	Prep	3010A			557242	08/17/20 17:17	BDE	TAL CHI
SPLP East	Analysis	6010B		1	557308	08/18/20 03:38	JEF	TAL CHI
TCLP	Leach	1311			556919	08/14/20 14:05	JLC	TAL CHI
TCLP	Prep	3010A			557245	08/17/20 17:21	BDE	TAL CHI
TCLP	Analysis	6010B		1	557303	08/18/20 01:39	EEN	TAL CHI
TCLP	Leach	1311			556919	08/14/20 14:05	JLC	TAL CHI
TCLP	Prep	3010A			557245	08/17/20 17:21	BDE	TAL CHI
TCLP	Analysis	6020A		1	557398	08/18/20 09:33	FXG	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185939-1

Client Sample ID: 2412V2-7-B02 (0-1.8)

Lab Sample ID: 500-185939-2

Date Collected: 08/04/20 14:15

Matrix: Solid

Date Received: 08/04/20 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			556919	08/14/20 14:05	JLC	TAL CHI
TCLP	Prep	7470A			557385	08/18/20 09:55	MJG	TAL CHI
TCLP	Analysis	7470A		1	557609	08/19/20 09:21	MJG	TAL CHI
Total/NA	Analysis	9045D		1	555814	08/06/20 20:50	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	555682	08/06/20 12:25	LWN	TAL CHI

Client Sample ID: 2412V2-7-B02 (0-1.8)

Lab Sample ID: 500-185939-2

Date Collected: 08/04/20 14:15

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 82.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			556283	08/05/20 08:30	PMF	TAL CHI
Total/NA	Analysis	8260B		1	556207	08/11/20 19:56	EMA	TAL CHI
Total/NA	Prep	3541			556949	08/14/20 17:27	ACK	TAL CHI
Total/NA	Analysis	8270D		1	557105	08/17/20 15:39	AJD	TAL CHI
Total/NA	Prep	3050B			556180	08/11/20 07:05	LMN	TAL CHI
Total/NA	Analysis	6010B		1	556360	08/12/20 01:10	JEF	TAL CHI
Total/NA	Prep	7471B			556263	08/11/20 14:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	556451	08/12/20 07:45	MJG	TAL CHI
Total/NA	Prep	9010C			556845	08/14/20 13:10	MS	TAL CHI
Total/NA	Analysis	9012B		1	557233	08/17/20 10:31	MS	TAL CHI

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185939-1

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-21

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 604
Phone: 708.534.5200 Fax: 708.534.



500-185939 COC

Report To (optional)
Contact: Matt Weiss
Company: Terracon
Address: 192 Exchange 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 #: 500-185939
Chain of Custody Number:
Page 1 of 1
Temperature °C of Cooler: 5, 8, 4, 3, 5, 9, 4, 4

Client		Client Project #		Preservative		Parameter		Comments						
<u>Terracon</u>		<u>1120701P</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 #		Date		Time				# of Containers				
<u>1120701P</u>														
Project Location/State		Lab PM		Date		Time				Matrix				
<u>Hempshire, IL</u>														
Sampler		Lab PM		Date		Time		Matrix						
<u>D.C. Fl</u>														
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	Uol's	Suboc's	Total Inorganics	pH	TECP 23	Inorganics	SPLP 23	Inorganics
<u>1</u>		<u>241202-7-B01 (0-1.8)</u>	<u>8/04/20</u>	<u>1430</u>	<u>6</u>	<u>SO</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>2</u>		<u>241202-7-B02 (0-1.8)</u>	<u>8/04/20</u>	<u>1405</u>	<u>6</u>	<u>SO</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 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>Ken Wolf</u> Company: <u>Terracon</u> Date: <u>8/04/20</u> Time: <u>1600</u>	Received By: <u>P. Neal</u> Company: <u>TA</u> Date: <u>8/4/20</u> Time: <u>1600</u>	Lab Courier: <u>TA</u>
Relinquished By: <u>P. Neal</u> Company: <u>TA</u> Date: <u>8/4/20</u> Time: <u>1740</u>	Received By: <u>Shirley</u> Company: <u>TA-CHE</u> Date: <u>8/5/20</u> Time: <u>0730</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: * STANDARD TURN
* NO ALUMINUM
* HOLD SPLP 23 Inorganics Per Terracon Instructions

Lab Comments:

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-185939-1

Login Number: 185939

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.8,4.3,5.9,4.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 557-IL Route 72 at State Street/Getzelman Rd Office Phone Number, if available: _____

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

S State St (Northbound) IDOT STA 201+90 to 202+80 (ISGS Site 2412V2-9)

City: Hampshire State: IL Zip Code: 60140

County: Kane Township: Hampshire

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

Latitude: 42.08832 Longitude: - 88.53013

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

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

Estimated Volume of debris (cu. Yd.): 34

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

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

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

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

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

Soil from boring B01 was sampled adjacent to ISGS Site No 2412V2-9.

See Exhibit 2 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 No J185940-1.

Also see Preliminary Site Investigation Report prepared by Terracon. CCDD/USFO facility in MSA County.

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

I, Matt Weiss (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51 a] 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

Printed Name: _____

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Date:

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

Comparison of Detected Constituents to MACs-PTB 174-009;Work Order:074A
Preliminary Site Investigation
FAP 557-IL Route 72 at State St./Getzelman Road (PESA #2412V2-9)
Hampshire, Kane Co, IL
Terracon Project No. 11207011P
Page 1 of 2

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2412V2-9-B01 (0-5)	2412V2-9-B01 (5-7.5)
				CCDD	Sample Depth (feet)	(0-5)	(5-7.5)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	8/4/2020	8/4/2020
Volatile Organic Analytical Parameters							
Semivolatile Organic Analytical Parameters							
Anthracene	mg/kg	0.25	0.4	12000		0.085	<0.0066
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.41	<0.0053
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.44	<0.0076
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.68	<0.0085
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.19	<0.013
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.23	<0.012
Chrysene	mg/kg	1.2	2.7	88		0.41	<0.011
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		0.048	<0.0076
Fluoranthene	mg/kg	2.7	4.1	3100		1.1	<0.0073
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.15	<0.010
Naphthalene	mg/kg	0.04	0.2	1.8		0.013	<0.0060
Phenanthrene	mg/kg	1.3	2.5	210		0.44	<0.0055
Pyrene	mg/kg	1.9	3.0	2300		0.81	<0.0078
2-Methylnaphthalene	mg/kg	---	0.14	---		0.028	<0.0072
Inorganic Analytical Parameters							
Arsenic	mg/kg	---	13	11.3		6.3	8.2
Barium	mg/kg	---	110	1500		71	130
Cadmium	mg/kg	---	0.6	5.2		0.26	0.17
Chromium, total	mg/kg	---	16.2	21		15	14
Lead	mg/kg	---	36	107		100	11
Mercury	mg/kg	---	0.06	0.89		0.07	0.016
Selenium	mg/kg	---	0.48	1.3		<0.34	0.51
Silver	mg/kg	---	0.55	4.4		<0.075	<0.073
Antimony	mg/kg	---	4.0	5		0.49	0.61
Beryllium	mg/kg	---	0.59	22		0.71	0.6
Calcium	mg/kg	---	9,300	---		29000	2600
Cobalt	mg/kg	---	8.9	20		7.6	10
Copper	mg/kg	---	19.6	2900		15	6.8
Cyanide	mg/kg	---	0.51	---		<0.12	<0.15
Iron	mg/kg	---	15,900	15000		15000	16000
Magnesium	mg/kg	---	4,820	325000		17000	2600
Manganese	mg/kg	---	636	630		500	950
Nickel	mg/kg	---	18	100		19	20
Potassium	mg/kg	---	1,268	---		1300	1100
Sodium	mg/kg	---	130	---		1800	820
Thallium	mg/kg	---	0.32	2.6		0.34	0.68
Vanadium	mg/kg	---	25.2	550		23	24
Zinc	mg/kg	---	95	5100		73	48
pH			6.25	9		8.6	7.8

Preliminary Site Investigation

FAP 557-IL Route 72 at State St./Getzelman Road (PESA #2412V2-9)

Hampshire, Kane Co, IL

Terracon Project No. 11207011P

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2412V2-9-B01 (0-5)	2412V2-9-B01 (5-7.5)
				CCDD	Sample Depth (feet)	(0-5)	(5-7.5)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	8/4/2020	8/4/2020
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	---	---	---		0.37	--
Magnesium,SPLP	mg/L	---	---	---		--	--
Manganese,SPLP	mg/L	---	---	---		1.6	--
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	---	---	---		0.45	0.18
Cadmium,TCLP	mg/L	---	---	---		<0.0020	<0.0020
Chromium,TCLP	mg/L	---	---	---		<0.010	<0.010
Lead,TCLP	mg/L	---	---	---		0.011	<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	---	---	---		430	41
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	---	---	---		110	6.5
Manganese,TCLP	mg/L	---	---	---		0.31	<0.010
Nickel,TCLP	mg/L	---	---	---		<0.010	<0.010
Potassium,TCLP	mg/L	---	---	---		3.2	1.4
Sodium,TCLP	mg/L	---	---	---		--	--
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.010	<0.010
Zinc,TCLP	mg/L	---	---	---		0.051	<0.020

ANALYTICAL REPORT

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

Laboratory Job ID: 500-185940-1
Client Project/Site: IDOT - Hampshire - WO 074

For:

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

Attn: Mr. Matthew Weiss



Authorized for release by:
8/19/2020 3:22:44 PM

Richard Wright, Senior Project Manager
(708)746-0045
Richard.Wright@Eurofinset.com

LINKS

Review your project
results through
TotalAccess

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www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 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 - Hampshire - WO 074

Job ID: 500-185940-1

Job ID: 500-185940-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-185940-1

Receipt

The samples were received on 8/4/2020 5:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 4.3° C, 4.4° C, 5.8° C and 5.9° C. Received all bottles for sample 2 with ID of 2412V2-9-B01 (5-7.5), logged per bottles.

GC/MS VOA

Method 8260B: The laboratory control sample (LCS) for 556377 recovered outside control limits for Chloroethane. This poor purging analyte was biased low in the LCS and was not detected in the associated samples; therefore, the data have been reported. 2412V2-9-B01 (0-5) (500-185940-1) and 2412V2-9-B01 (5-7.5) (500-185940-2)

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 6020A: The continuing calibration verification (CCV) associated with batch 500-557398 recovered above the upper control limit for Antimony and Thallium. The samples associated with this CCV were non-detects for the affected analytes; 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.

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 - Hampshire - WO 074

Job ID: 500-185940-1

Client Sample ID: 2412V2-9-B01 (0-5)

Lab Sample ID: 500-185940-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.085		0.040	0.0066	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.41		0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.44		0.040	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.68		0.040	0.0086	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.19		0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.23		0.040	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.41		0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.048		0.040	0.0077	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	1.1		0.040	0.0074	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.15		0.040	0.010	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.028	J	0.080	0.0073	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.013	J	0.040	0.0061	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.44		0.040	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.81		0.040	0.0079	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.49	J	1.2	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.3		0.58	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	71		0.58	0.066	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.71		0.23	0.054	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.26	B	0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.6		0.29	0.076	mg/Kg	1	☼	6010B	Total/NA
Copper	15		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	15000		12	6.0	mg/Kg	1	☼	6010B	Total/NA
Lead	100		0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	17000		5.8	2.9	mg/Kg	1	☼	6010B	Total/NA
Calcium	29000		12	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	500		0.58	0.084	mg/Kg	1	☼	6010B	Total/NA
Nickel	19		0.58	0.17	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.34	J	0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	23		0.29	0.068	mg/Kg	1	☼	6010B	Total/NA
Zinc	73		1.2	0.51	mg/Kg	1	☼	6010B	Total/NA
Potassium	1300		29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	1800		58	8.6	mg/Kg	1	☼	6010B	Total/NA
Barium	0.45	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	430		5.0	0.50	mg/L	1		6010B	TCLP
Lead	0.011		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	110		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.31		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.2		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.051	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.37		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	1.6		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.070		0.020	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	8.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2412V2-9-B01 (5-7.5)

Lab Sample ID: 500-185940-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.61	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.2		0.57	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	130		0.57	0.065	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185940-1

Client Sample ID: 2412V2-9-B01 (5-7.5) (Continued)

Lab Sample ID: 500-185940-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.60		0.23	0.053	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.17	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	14		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	10		0.28	0.074	mg/Kg	1	☼	6010B	Total/NA
Copper	6.8		0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	16000		11	5.9	mg/Kg	1	☼	6010B	Total/NA
Lead	11		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2600		5.7	2.8	mg/Kg	1	☼	6010B	Total/NA
Calcium	2600		11	1.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	950		0.57	0.082	mg/Kg	1	☼	6010B	Total/NA
Nickel	20		0.57	0.17	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.51	J	0.57	0.33	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.68		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	24		0.28	0.067	mg/Kg	1	☼	6010B	Total/NA
Zinc	48		1.1	0.50	mg/Kg	1	☼	6010B	Total/NA
Potassium	1100		28	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	820		57	8.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.18	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	41		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	6.5		2.5	0.50	mg/L	1		6010B	TCLP
Potassium	1.4	J	2.5	0.50	mg/L	1		6010B	TCLP
Mercury	0.016	J	0.020	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	7.8		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185940-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-185940-1	2412V2-9-B01 (0-5)	Solid	08/04/20 11:20	08/04/20 17:40	
500-185940-2	2412V2-9-B01 (5-7.5)	Solid	08/04/20 11:25	08/04/20 17:40	

- 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 - Hampshire - WO 074

Job ID: 500-185940-1

Client Sample ID: 2412V2-9-B01 (0-5)

Lab Sample ID: 500-185940-1

Date Collected: 08/04/20 11:20

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0078		0.018	0.0078	mg/Kg	☼	08/05/20 08:30	08/12/20 12:48	1
Benzene	<0.00046		0.0018	0.00046	mg/Kg	☼	08/05/20 08:30	08/12/20 12:48	1
Bromodichloromethane	<0.00037		0.0018	0.00037	mg/Kg	☼	08/05/20 08:30	08/12/20 12:48	1
Bromoform	<0.00053		0.0018	0.00053	mg/Kg	☼	08/05/20 08:30	08/12/20 12:48	1
Bromomethane	<0.0017		0.0045	0.0017	mg/Kg	☼	08/05/20 08:30	08/12/20 12:48	1
2-Butanone (MEK)	<0.0020		0.0045	0.0020	mg/Kg	☼	08/05/20 08:30	08/12/20 12:48	1
Carbon disulfide	<0.00094		0.0045	0.00094	mg/Kg	☼	08/05/20 08:30	08/12/20 12:48	1
Carbon tetrachloride	<0.00052		0.0018	0.00052	mg/Kg	☼	08/05/20 08:30	08/12/20 12:48	1
Chlorobenzene	<0.00066		0.0018	0.00066	mg/Kg	☼	08/05/20 08:30	08/12/20 12:48	1
Chloroethane	<0.0013		0.0045	0.0013	mg/Kg	☼	08/05/20 08:30	08/12/20 12:48	1
Chloroform	<0.00062		0.0018	0.00062	mg/Kg	☼	08/05/20 08:30	08/12/20 12:48	1
Chloromethane	<0.0018		0.0045	0.0018	mg/Kg	☼	08/05/20 08:30	08/12/20 12:48	1
cis-1,2-Dichloroethene	<0.00050		0.0018	0.00050	mg/Kg	☼	08/05/20 08:30	08/12/20 12:48	1
cis-1,3-Dichloropropene	<0.00054		0.0018	0.00054	mg/Kg	☼	08/05/20 08:30	08/12/20 12:48	1
Dibromochloromethane	<0.00059		0.0018	0.00059	mg/Kg	☼	08/05/20 08:30	08/12/20 12:48	1
1,1-Dichloroethane	<0.00062		0.0018	0.00062	mg/Kg	☼	08/05/20 08:30	08/12/20 12:48	1
1,2-Dichloroethane	<0.0014		0.0045	0.0014	mg/Kg	☼	08/05/20 08:30	08/12/20 12:48	1
1,1-Dichloroethene	<0.00062		0.0018	0.00062	mg/Kg	☼	08/05/20 08:30	08/12/20 12:48	1
1,2-Dichloropropane	<0.00046		0.0018	0.00046	mg/Kg	☼	08/05/20 08:30	08/12/20 12:48	1
1,3-Dichloropropane, Total	<0.00063		0.0018	0.00063	mg/Kg	☼	08/05/20 08:30	08/12/20 12:48	1
Ethylbenzene	<0.00086		0.0018	0.00086	mg/Kg	☼	08/05/20 08:30	08/12/20 12:48	1
2-Hexanone	<0.0014		0.0045	0.0014	mg/Kg	☼	08/05/20 08:30	08/12/20 12:48	1
Methylene Chloride	<0.0018		0.0045	0.0018	mg/Kg	☼	08/05/20 08:30	08/12/20 12:48	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0045	0.0013	mg/Kg	☼	08/05/20 08:30	08/12/20 12:48	1
Methyl tert-butyl ether	<0.00053		0.0018	0.00053	mg/Kg	☼	08/05/20 08:30	08/12/20 12:48	1
Styrene	<0.00054		0.0018	0.00054	mg/Kg	☼	08/05/20 08:30	08/12/20 12:48	1
1,1,2,2-Tetrachloroethane	<0.00057		0.0018	0.00057	mg/Kg	☼	08/05/20 08:30	08/12/20 12:48	1
Tetrachloroethene	<0.00061		0.0018	0.00061	mg/Kg	☼	08/05/20 08:30	08/12/20 12:48	1
Toluene	<0.00045		0.0018	0.00045	mg/Kg	☼	08/05/20 08:30	08/12/20 12:48	1
trans-1,2-Dichloroethene	<0.00080		0.0018	0.00080	mg/Kg	☼	08/05/20 08:30	08/12/20 12:48	1
trans-1,3-Dichloropropene	<0.00063		0.0018	0.00063	mg/Kg	☼	08/05/20 08:30	08/12/20 12:48	1
1,1,1-Trichloroethane	<0.00060		0.0018	0.00060	mg/Kg	☼	08/05/20 08:30	08/12/20 12:48	1
1,1,2-Trichloroethane	<0.00077		0.0018	0.00077	mg/Kg	☼	08/05/20 08:30	08/12/20 12:48	1
Trichloroethene	<0.00061		0.0018	0.00061	mg/Kg	☼	08/05/20 08:30	08/12/20 12:48	1
Vinyl acetate	<0.0016		0.0045	0.0016	mg/Kg	☼	08/05/20 08:30	08/12/20 12:48	1
Vinyl chloride	<0.00080		0.0018	0.00080	mg/Kg	☼	08/05/20 08:30	08/12/20 12:48	1
Xylenes, Total	<0.00058		0.0036	0.00058	mg/Kg	☼	08/05/20 08:30	08/12/20 12:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		75 - 131	08/05/20 08:30	08/12/20 12:48	1
Dibromofluoromethane	102		75 - 126	08/05/20 08:30	08/12/20 12:48	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	08/05/20 08:30	08/12/20 12:48	1
Toluene-d8 (Surr)	91		75 - 124	08/05/20 08:30	08/12/20 12:48	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	☼	08/14/20 17:27	08/17/20 14:45	1
Acenaphthylene	<0.0052		0.040	0.0052	mg/Kg	☼	08/14/20 17:27	08/17/20 14:45	1
Anthracene	0.085		0.040	0.0066	mg/Kg	☼	08/14/20 17:27	08/17/20 14:45	1
Benzo[a]anthracene	0.41		0.040	0.0054	mg/Kg	☼	08/14/20 17:27	08/17/20 14:45	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185940-1

Client Sample ID: 2412V2-9-B01 (0-5)

Lab Sample ID: 500-185940-1

Date Collected: 08/04/20 11:20

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.44		0.040	0.0077	mg/Kg	☼	08/14/20 17:27	08/17/20 14:45	1
Benzo[b]fluoranthene	0.68		0.040	0.0086	mg/Kg	☼	08/14/20 17:27	08/17/20 14:45	1
Benzo[g,h,i]perylene	0.19		0.040	0.013	mg/Kg	☼	08/14/20 17:27	08/17/20 14:45	1
Benzo[k]fluoranthene	0.23		0.040	0.012	mg/Kg	☼	08/14/20 17:27	08/17/20 14:45	1
Bis(2-chloroethoxy)methane	<0.041		0.20	0.041	mg/Kg	☼	08/14/20 17:27	08/17/20 14:45	1
Bis(2-chloroethyl)ether	<0.060		0.20	0.060	mg/Kg	☼	08/14/20 17:27	08/17/20 14:45	1
Bis(2-ethylhexyl) phthalate	<0.073		0.20	0.073	mg/Kg	☼	08/14/20 17:27	08/17/20 14:45	1
4-Bromophenyl phenyl ether	<0.052		0.20	0.052	mg/Kg	☼	08/14/20 17:27	08/17/20 14:45	1
Butyl benzyl phthalate	<0.076		0.20	0.076	mg/Kg	☼	08/14/20 17:27	08/17/20 14:45	1
Carbazole	<0.099		0.20	0.099	mg/Kg	☼	08/14/20 17:27	08/17/20 14:45	1
4-Chloroaniline	<0.19		0.80	0.19	mg/Kg	☼	08/14/20 17:27	08/17/20 14:45	1
4-Chloro-3-methylphenol	<0.14		0.40	0.14	mg/Kg	☼	08/14/20 17:27	08/17/20 14:45	1
2-Chloronaphthalene	<0.044		0.20	0.044	mg/Kg	☼	08/14/20 17:27	08/17/20 14:45	1
2-Chlorophenol	<0.068		0.20	0.068	mg/Kg	☼	08/14/20 17:27	08/17/20 14:45	1
4-Chlorophenyl phenyl ether	<0.046		0.20	0.046	mg/Kg	☼	08/14/20 17:27	08/17/20 14:45	1
Chrysene	0.41		0.040	0.011	mg/Kg	☼	08/14/20 17:27	08/17/20 14:45	1
Dibenz(a,h)anthracene	0.048		0.040	0.0077	mg/Kg	☼	08/14/20 17:27	08/17/20 14:45	1
Dibenzofuran	<0.047		0.20	0.047	mg/Kg	☼	08/14/20 17:27	08/17/20 14:45	1
1,2-Dichlorobenzene	<0.048		0.20	0.048	mg/Kg	☼	08/14/20 17:27	08/17/20 14:45	1
1,3-Dichlorobenzene	<0.045		0.20	0.045	mg/Kg	☼	08/14/20 17:27	08/17/20 14:45	1
1,4-Dichlorobenzene	<0.051		0.20	0.051	mg/Kg	☼	08/14/20 17:27	08/17/20 14:45	1
3,3'-Dichlorobenzidine	<0.056		0.20	0.056	mg/Kg	☼	08/14/20 17:27	08/17/20 14:45	1
2,4-Dichlorophenol	<0.095		0.40	0.095	mg/Kg	☼	08/14/20 17:27	08/17/20 14:45	1
Diethyl phthalate	<0.067		0.20	0.067	mg/Kg	☼	08/14/20 17:27	08/17/20 14:45	1
2,4-Dimethylphenol	<0.15		0.40	0.15	mg/Kg	☼	08/14/20 17:27	08/17/20 14:45	1
Dimethyl phthalate	<0.052		0.20	0.052	mg/Kg	☼	08/14/20 17:27	08/17/20 14:45	1
Di-n-butyl phthalate	<0.061		0.20	0.061	mg/Kg	☼	08/14/20 17:27	08/17/20 14:45	1
4,6-Dinitro-2-methylphenol	<0.32		0.80	0.32	mg/Kg	☼	08/14/20 17:27	08/17/20 14:45	1
2,4-Dinitrophenol	<0.70		0.80	0.70	mg/Kg	☼	08/14/20 17:27	08/17/20 14:45	1
2,4-Dinitrotoluene	<0.063		0.20	0.063	mg/Kg	☼	08/14/20 17:27	08/17/20 14:45	1
2,6-Dinitrotoluene	<0.078		0.20	0.078	mg/Kg	☼	08/14/20 17:27	08/17/20 14:45	1
Di-n-octyl phthalate	<0.065		0.20	0.065	mg/Kg	☼	08/14/20 17:27	08/17/20 14:45	1
Fluoranthene	1.1		0.040	0.0074	mg/Kg	☼	08/14/20 17:27	08/17/20 14:45	1
Fluorene	<0.0056		0.040	0.0056	mg/Kg	☼	08/14/20 17:27	08/17/20 14:45	1
Hexachlorobenzene	<0.0092		0.080	0.0092	mg/Kg	☼	08/14/20 17:27	08/17/20 14:45	1
Hexachlorobutadiene	<0.063		0.20	0.063	mg/Kg	☼	08/14/20 17:27	08/17/20 14:45	1
Hexachlorocyclopentadiene	<0.23		0.80	0.23	mg/Kg	☼	08/14/20 17:27	08/17/20 14:45	1
Hexachloroethane	<0.061		0.20	0.061	mg/Kg	☼	08/14/20 17:27	08/17/20 14:45	1
Indeno[1,2,3-cd]pyrene	0.15		0.040	0.010	mg/Kg	☼	08/14/20 17:27	08/17/20 14:45	1
Isophorone	<0.045		0.20	0.045	mg/Kg	☼	08/14/20 17:27	08/17/20 14:45	1
2-Methylnaphthalene	0.028 J		0.080	0.0073	mg/Kg	☼	08/14/20 17:27	08/17/20 14:45	1
2-Methylphenol	<0.064		0.20	0.064	mg/Kg	☼	08/14/20 17:27	08/17/20 14:45	1
3 & 4 Methylphenol	<0.066		0.20	0.066	mg/Kg	☼	08/14/20 17:27	08/17/20 14:45	1
Naphthalene	0.013 J		0.040	0.0061	mg/Kg	☼	08/14/20 17:27	08/17/20 14:45	1
2-Nitroaniline	<0.054		0.20	0.054	mg/Kg	☼	08/14/20 17:27	08/17/20 14:45	1
3-Nitroaniline	<0.12		0.40	0.12	mg/Kg	☼	08/14/20 17:27	08/17/20 14:45	1
4-Nitroaniline	<0.17		0.40	0.17	mg/Kg	☼	08/14/20 17:27	08/17/20 14:45	1
Nitrobenzene	<0.0099		0.040	0.0099	mg/Kg	☼	08/14/20 17:27	08/17/20 14:45	1
2-Nitrophenol	<0.094		0.40	0.094	mg/Kg	☼	08/14/20 17:27	08/17/20 14:45	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185940-1

Client Sample ID: 2412V2-9-B01 (0-5)

Lab Sample ID: 500-185940-1

Date Collected: 08/04/20 11:20

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 82.8

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	☼	08/14/20 17:27	08/17/20 14:45	1
N-Nitrosodi-n-propylamine	<0.049		0.080	0.049	mg/Kg	☼	08/14/20 17:27	08/17/20 14:45	1
N-Nitrosodiphenylamine	<0.047		0.20	0.047	mg/Kg	☼	08/14/20 17:27	08/17/20 14:45	1
2,2'-oxybis[1-chloropropane]	<0.046		0.20	0.046	mg/Kg	☼	08/14/20 17:27	08/17/20 14:45	1
Pentachlorophenol	<0.64		0.80	0.64	mg/Kg	☼	08/14/20 17:27	08/17/20 14:45	1
Phenanthrene	0.44		0.040	0.0055	mg/Kg	☼	08/14/20 17:27	08/17/20 14:45	1
Phenol	<0.088		0.20	0.088	mg/Kg	☼	08/14/20 17:27	08/17/20 14:45	1
Pyrene	0.81		0.040	0.0079	mg/Kg	☼	08/14/20 17:27	08/17/20 14:45	1
1,2,4-Trichlorobenzene	<0.043		0.20	0.043	mg/Kg	☼	08/14/20 17:27	08/17/20 14:45	1
2,4,5-Trichlorophenol	<0.091		0.40	0.091	mg/Kg	☼	08/14/20 17:27	08/17/20 14:45	1
2,4,6-Trichlorophenol	<0.14		0.40	0.14	mg/Kg	☼	08/14/20 17:27	08/17/20 14:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	84		43 - 145	08/14/20 17:27	08/17/20 14:45	1
2-Fluorophenol	74		31 - 166	08/14/20 17:27	08/17/20 14:45	1
Nitrobenzene-d5	61		37 - 147	08/14/20 17:27	08/17/20 14:45	1
Phenol-d5	63		30 - 153	08/14/20 17:27	08/17/20 14:45	1
Terphenyl-d14	96		42 - 157	08/14/20 17:27	08/17/20 14:45	1
2,4,6-Tribromophenol	109		31 - 143	08/14/20 17:27	08/17/20 14:45	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.49	J	1.2	0.23	mg/Kg	☼	08/11/20 07:05	08/12/20 01:14	1
Arsenic	6.3		0.58	0.20	mg/Kg	☼	08/11/20 07:05	08/12/20 01:14	1
Barium	71		0.58	0.066	mg/Kg	☼	08/11/20 07:05	08/12/20 01:14	1
Beryllium	0.71		0.23	0.054	mg/Kg	☼	08/11/20 07:05	08/12/20 01:14	1
Cadmium	0.26	B	0.12	0.021	mg/Kg	☼	08/11/20 07:05	08/12/20 01:14	1
Chromium	15		0.58	0.29	mg/Kg	☼	08/11/20 07:05	08/12/20 01:14	1
Cobalt	7.6		0.29	0.076	mg/Kg	☼	08/11/20 07:05	08/12/20 01:14	1
Copper	15		0.58	0.16	mg/Kg	☼	08/11/20 07:05	08/12/20 01:14	1
Iron	15000		12	6.0	mg/Kg	☼	08/11/20 07:05	08/12/20 01:14	1
Lead	100		0.29	0.13	mg/Kg	☼	08/11/20 07:05	08/12/20 01:14	1
Magnesium	17000		5.8	2.9	mg/Kg	☼	08/11/20 07:05	08/12/20 01:14	1
Calcium	29000		12	2.0	mg/Kg	☼	08/11/20 07:05	08/12/20 01:14	1
Manganese	500		0.58	0.084	mg/Kg	☼	08/11/20 07:05	08/12/20 01:14	1
Nickel	19		0.58	0.17	mg/Kg	☼	08/11/20 07:05	08/12/20 01:14	1
Selenium	<0.34		0.58	0.34	mg/Kg	☼	08/11/20 07:05	08/12/20 01:14	1
Silver	<0.075		0.29	0.075	mg/Kg	☼	08/11/20 07:05	08/12/20 01:14	1
Thallium	0.34	J	0.58	0.29	mg/Kg	☼	08/11/20 07:05	08/12/20 01:14	1
Vanadium	23		0.29	0.068	mg/Kg	☼	08/11/20 07:05	08/12/20 01:14	1
Zinc	73		1.2	0.51	mg/Kg	☼	08/11/20 07:05	08/12/20 01:14	1
Potassium	1300		29	10	mg/Kg	☼	08/11/20 07:05	08/12/20 01:14	1
Sodium	1800		58	8.6	mg/Kg	☼	08/11/20 07:05	08/12/20 01:14	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/17/20 17:21	08/18/20 01:43	1
Barium	0.45	J	0.50	0.050	mg/L		08/17/20 17:21	08/18/20 01:43	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/17/20 17:21	08/18/20 01:43	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/17/20 17:21	08/18/20 01:43	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185940-1

Client Sample ID: 2412V2-9-B01 (0-5)

Lab Sample ID: 500-185940-1

Date Collected: 08/04/20 11:20

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	430		5.0	0.50	mg/L		08/17/20 17:21	08/18/20 01:43	1
Chromium	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:43	1
Cobalt	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:43	1
Copper	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:43	1
Iron	<0.20		0.40	0.20	mg/L		08/17/20 17:21	08/18/20 01:43	1
Lead	0.011		0.0075	0.0075	mg/L		08/17/20 17:21	08/18/20 01:43	1
Magnesium	110		2.5	0.50	mg/L		08/17/20 17:21	08/18/20 01:43	1
Manganese	0.31		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:43	1
Nickel	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:43	1
Potassium	3.2		2.5	0.50	mg/L		08/17/20 17:21	08/18/20 01:43	1
Selenium	<0.020		0.050	0.020	mg/L		08/17/20 17:21	08/18/20 01:43	1
Silver	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:43	1
Vanadium	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:43	1
Zinc	0.051	J	0.50	0.020	mg/L		08/17/20 17:21	08/18/20 01:43	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.37		0.0075	0.0075	mg/L		08/17/20 17:17	08/18/20 03:42	1
Manganese	1.6		0.025	0.010	mg/L		08/17/20 17:17	08/18/20 03:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		08/17/20 17:21	08/18/20 09:35	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		08/17/20 17:21	08/18/20 09:35	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/18/20 09:55	08/19/20 09:23	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.070		0.020	0.0065	mg/Kg	☼	08/11/20 14:25	08/12/20 07:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.12	F1	0.25	0.12	mg/Kg	☼	08/14/20 15:05	08/17/20 14:42	1
pH	8.6		0.2	0.2	SU			08/06/20 20:53	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185940-1

Client Sample ID: 2412V2-9-B01 (5-7.5)

Lab Sample ID: 500-185940-2

Date Collected: 08/04/20 11:25

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0070		0.016	0.0070	mg/Kg	☼	08/05/20 08:30	08/12/20 13:13	1
Benzene	<0.00041		0.0016	0.00041	mg/Kg	☼	08/05/20 08:30	08/12/20 13:13	1
Bromodichloromethane	<0.00033		0.0016	0.00033	mg/Kg	☼	08/05/20 08:30	08/12/20 13:13	1
Bromoform	<0.00047		0.0016	0.00047	mg/Kg	☼	08/05/20 08:30	08/12/20 13:13	1
Bromomethane	<0.0015		0.0040	0.0015	mg/Kg	☼	08/05/20 08:30	08/12/20 13:13	1
2-Butanone (MEK)	<0.0018		0.0040	0.0018	mg/Kg	☼	08/05/20 08:30	08/12/20 13:13	1
Carbon disulfide	<0.00084		0.0040	0.00084	mg/Kg	☼	08/05/20 08:30	08/12/20 13:13	1
Carbon tetrachloride	<0.00047		0.0016	0.00047	mg/Kg	☼	08/05/20 08:30	08/12/20 13:13	1
Chlorobenzene	<0.00060		0.0016	0.00060	mg/Kg	☼	08/05/20 08:30	08/12/20 13:13	1
Chloroethane	<0.0012		0.0040	0.0012	mg/Kg	☼	08/05/20 08:30	08/12/20 13:13	1
Chloroform	<0.00056		0.0016	0.00056	mg/Kg	☼	08/05/20 08:30	08/12/20 13:13	1
Chloromethane	<0.0016		0.0040	0.0016	mg/Kg	☼	08/05/20 08:30	08/12/20 13:13	1
cis-1,2-Dichloroethene	<0.00045		0.0016	0.00045	mg/Kg	☼	08/05/20 08:30	08/12/20 13:13	1
cis-1,3-Dichloropropene	<0.00049		0.0016	0.00049	mg/Kg	☼	08/05/20 08:30	08/12/20 13:13	1
Dibromochloromethane	<0.00053		0.0016	0.00053	mg/Kg	☼	08/05/20 08:30	08/12/20 13:13	1
1,1-Dichloroethane	<0.00055		0.0016	0.00055	mg/Kg	☼	08/05/20 08:30	08/12/20 13:13	1
1,2-Dichloroethane	<0.0013		0.0040	0.0013	mg/Kg	☼	08/05/20 08:30	08/12/20 13:13	1
1,1-Dichloroethene	<0.00056		0.0016	0.00056	mg/Kg	☼	08/05/20 08:30	08/12/20 13:13	1
1,2-Dichloropropane	<0.00042		0.0016	0.00042	mg/Kg	☼	08/05/20 08:30	08/12/20 13:13	1
1,3-Dichloropropane, Total	<0.00057		0.0016	0.00057	mg/Kg	☼	08/05/20 08:30	08/12/20 13:13	1
Ethylbenzene	<0.00077		0.0016	0.00077	mg/Kg	☼	08/05/20 08:30	08/12/20 13:13	1
2-Hexanone	<0.0013		0.0040	0.0013	mg/Kg	☼	08/05/20 08:30	08/12/20 13:13	1
Methylene Chloride	<0.0016		0.0040	0.0016	mg/Kg	☼	08/05/20 08:30	08/12/20 13:13	1
4-Methyl-2-pentanone (MIBK)	<0.0012		0.0040	0.0012	mg/Kg	☼	08/05/20 08:30	08/12/20 13:13	1
Methyl tert-butyl ether	<0.00047		0.0016	0.00047	mg/Kg	☼	08/05/20 08:30	08/12/20 13:13	1
Styrene	<0.00049		0.0016	0.00049	mg/Kg	☼	08/05/20 08:30	08/12/20 13:13	1
1,1,2,2-Tetrachloroethane	<0.00052		0.0016	0.00052	mg/Kg	☼	08/05/20 08:30	08/12/20 13:13	1
Tetrachloroethene	<0.00055		0.0016	0.00055	mg/Kg	☼	08/05/20 08:30	08/12/20 13:13	1
Toluene	<0.00041		0.0016	0.00041	mg/Kg	☼	08/05/20 08:30	08/12/20 13:13	1
trans-1,2-Dichloroethene	<0.00072		0.0016	0.00072	mg/Kg	☼	08/05/20 08:30	08/12/20 13:13	1
trans-1,3-Dichloropropene	<0.00057		0.0016	0.00057	mg/Kg	☼	08/05/20 08:30	08/12/20 13:13	1
1,1,1-Trichloroethane	<0.00054		0.0016	0.00054	mg/Kg	☼	08/05/20 08:30	08/12/20 13:13	1
1,1,2-Trichloroethane	<0.00069		0.0016	0.00069	mg/Kg	☼	08/05/20 08:30	08/12/20 13:13	1
Trichloroethene	<0.00055		0.0016	0.00055	mg/Kg	☼	08/05/20 08:30	08/12/20 13:13	1
Vinyl acetate	<0.0014		0.0040	0.0014	mg/Kg	☼	08/05/20 08:30	08/12/20 13:13	1
Vinyl chloride	<0.00071		0.0016	0.00071	mg/Kg	☼	08/05/20 08:30	08/12/20 13:13	1
Xylenes, Total	<0.00052		0.0032	0.00052	mg/Kg	☼	08/05/20 08:30	08/12/20 13:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		75 - 131	08/05/20 08:30	08/12/20 13:13	1
Dibromofluoromethane	102		75 - 126	08/05/20 08:30	08/12/20 13:13	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	08/05/20 08:30	08/12/20 13:13	1
Toluene-d8 (Surr)	92		75 - 124	08/05/20 08:30	08/12/20 13:13	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	☼	08/14/20 17:27	08/17/20 11:08	1
Acenaphthylene	<0.0052		0.039	0.0052	mg/Kg	☼	08/14/20 17:27	08/17/20 11:08	1
Anthracene	<0.0066		0.039	0.0066	mg/Kg	☼	08/14/20 17:27	08/17/20 11:08	1
Benzo[a]anthracene	<0.0053		0.039	0.0053	mg/Kg	☼	08/14/20 17:27	08/17/20 11:08	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185940-1

Client Sample ID: 2412V2-9-B01 (5-7.5)

Lab Sample ID: 500-185940-2

Date Collected: 08/04/20 11:25

Matrix: Solid

Date Received: 08/04/20 17:40

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	<0.0076		0.039	0.0076	mg/Kg	☼	08/14/20 17:27	08/17/20 11:08	1
Benzo[b]fluoranthene	<0.0085		0.039	0.0085	mg/Kg	☼	08/14/20 17:27	08/17/20 11:08	1
Benzo[g,h,i]perylene	<0.013		0.039	0.013	mg/Kg	☼	08/14/20 17:27	08/17/20 11:08	1
Benzo[k]fluoranthene	<0.012		0.039	0.012	mg/Kg	☼	08/14/20 17:27	08/17/20 11:08	1
Bis(2-chloroethoxy)methane	<0.040		0.20	0.040	mg/Kg	☼	08/14/20 17:27	08/17/20 11:08	1
Bis(2-chloroethyl)ether	<0.059		0.20	0.059	mg/Kg	☼	08/14/20 17:27	08/17/20 11:08	1
Bis(2-ethylhexyl) phthalate	<0.072		0.20	0.072	mg/Kg	☼	08/14/20 17:27	08/17/20 11:08	1
4-Bromophenyl phenyl ether	<0.052		0.20	0.052	mg/Kg	☼	08/14/20 17:27	08/17/20 11:08	1
Butyl benzyl phthalate	<0.075		0.20	0.075	mg/Kg	☼	08/14/20 17:27	08/17/20 11:08	1
Carbazole	<0.098		0.20	0.098	mg/Kg	☼	08/14/20 17:27	08/17/20 11:08	1
4-Chloroaniline	<0.18		0.79	0.18	mg/Kg	☼	08/14/20 17:27	08/17/20 11:08	1
4-Chloro-3-methylphenol	<0.13		0.39	0.13	mg/Kg	☼	08/14/20 17:27	08/17/20 11:08	1
2-Chloronaphthalene	<0.043		0.20	0.043	mg/Kg	☼	08/14/20 17:27	08/17/20 11:08	1
2-Chlorophenol	<0.067		0.20	0.067	mg/Kg	☼	08/14/20 17:27	08/17/20 11:08	1
4-Chlorophenyl phenyl ether	<0.046		0.20	0.046	mg/Kg	☼	08/14/20 17:27	08/17/20 11:08	1
Chrysene	<0.011		0.039	0.011	mg/Kg	☼	08/14/20 17:27	08/17/20 11:08	1
Dibenz(a,h)anthracene	<0.0076		0.039	0.0076	mg/Kg	☼	08/14/20 17:27	08/17/20 11:08	1
Dibenzofuran	<0.046		0.20	0.046	mg/Kg	☼	08/14/20 17:27	08/17/20 11:08	1
1,2-Dichlorobenzene	<0.047		0.20	0.047	mg/Kg	☼	08/14/20 17:27	08/17/20 11:08	1
1,3-Dichlorobenzene	<0.044		0.20	0.044	mg/Kg	☼	08/14/20 17:27	08/17/20 11:08	1
1,4-Dichlorobenzene	<0.050		0.20	0.050	mg/Kg	☼	08/14/20 17:27	08/17/20 11:08	1
3,3'-Dichlorobenzidine	<0.055		0.20	0.055	mg/Kg	☼	08/14/20 17:27	08/17/20 11:08	1
2,4-Dichlorophenol	<0.093		0.39	0.093	mg/Kg	☼	08/14/20 17:27	08/17/20 11:08	1
Diethyl phthalate	<0.067		0.20	0.067	mg/Kg	☼	08/14/20 17:27	08/17/20 11:08	1
2,4-Dimethylphenol	<0.15		0.39	0.15	mg/Kg	☼	08/14/20 17:27	08/17/20 11:08	1
Dimethyl phthalate	<0.051		0.20	0.051	mg/Kg	☼	08/14/20 17:27	08/17/20 11:08	1
Di-n-butyl phthalate	<0.060		0.20	0.060	mg/Kg	☼	08/14/20 17:27	08/17/20 11:08	1
4,6-Dinitro-2-methylphenol	<0.32		0.79	0.32	mg/Kg	☼	08/14/20 17:27	08/17/20 11:08	1
2,4-Dinitrophenol	<0.69		0.79	0.69	mg/Kg	☼	08/14/20 17:27	08/17/20 11:08	1
2,4-Dinitrotoluene	<0.062		0.20	0.062	mg/Kg	☼	08/14/20 17:27	08/17/20 11:08	1
2,6-Dinitrotoluene	<0.077		0.20	0.077	mg/Kg	☼	08/14/20 17:27	08/17/20 11:08	1
Di-n-octyl phthalate	<0.064		0.20	0.064	mg/Kg	☼	08/14/20 17:27	08/17/20 11:08	1
Fluoranthene	<0.0073		0.039	0.0073	mg/Kg	☼	08/14/20 17:27	08/17/20 11:08	1
Fluorene	<0.0055		0.039	0.0055	mg/Kg	☼	08/14/20 17:27	08/17/20 11:08	1
Hexachlorobenzene	<0.0091		0.079	0.0091	mg/Kg	☼	08/14/20 17:27	08/17/20 11:08	1
Hexachlorobutadiene	<0.062		0.20	0.062	mg/Kg	☼	08/14/20 17:27	08/17/20 11:08	1
Hexachlorocyclopentadiene	<0.23		0.79	0.23	mg/Kg	☼	08/14/20 17:27	08/17/20 11:08	1
Hexachloroethane	<0.060		0.20	0.060	mg/Kg	☼	08/14/20 17:27	08/17/20 11:08	1
Indeno[1,2,3-cd]pyrene	<0.010		0.039	0.010	mg/Kg	☼	08/14/20 17:27	08/17/20 11:08	1
Isophorone	<0.044		0.20	0.044	mg/Kg	☼	08/14/20 17:27	08/17/20 11:08	1
2-Methylnaphthalene	<0.0072		0.079	0.0072	mg/Kg	☼	08/14/20 17:27	08/17/20 11:08	1
2-Methylphenol	<0.063		0.20	0.063	mg/Kg	☼	08/14/20 17:27	08/17/20 11:08	1
3 & 4 Methylphenol	<0.065		0.20	0.065	mg/Kg	☼	08/14/20 17:27	08/17/20 11:08	1
Naphthalene	<0.0060		0.039	0.0060	mg/Kg	☼	08/14/20 17:27	08/17/20 11:08	1
2-Nitroaniline	<0.053		0.20	0.053	mg/Kg	☼	08/14/20 17:27	08/17/20 11:08	1
3-Nitroaniline	<0.12		0.39	0.12	mg/Kg	☼	08/14/20 17:27	08/17/20 11:08	1
4-Nitroaniline	<0.16		0.39	0.16	mg/Kg	☼	08/14/20 17:27	08/17/20 11:08	1
Nitrobenzene	<0.0098		0.039	0.0098	mg/Kg	☼	08/14/20 17:27	08/17/20 11:08	1
2-Nitrophenol	<0.093		0.39	0.093	mg/Kg	☼	08/14/20 17:27	08/17/20 11:08	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185940-1

Client Sample ID: 2412V2-9-B01 (5-7.5)

Lab Sample ID: 500-185940-2

Date Collected: 08/04/20 11:25

Matrix: Solid

Date Received: 08/04/20 17:40

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	<0.37		0.79	0.37	mg/Kg	☼	08/14/20 17:27	08/17/20 11:08	1
N-Nitrosodi-n-propylamine	<0.048		0.079	0.048	mg/Kg	☼	08/14/20 17:27	08/17/20 11:08	1
N-Nitrosodiphenylamine	<0.046		0.20	0.046	mg/Kg	☼	08/14/20 17:27	08/17/20 11:08	1
2,2'-oxybis[1-chloropropane]	<0.046		0.20	0.046	mg/Kg	☼	08/14/20 17:27	08/17/20 11:08	1
Pentachlorophenol	<0.63		0.79	0.63	mg/Kg	☼	08/14/20 17:27	08/17/20 11:08	1
Phenanthrene	<0.0055		0.039	0.0055	mg/Kg	☼	08/14/20 17:27	08/17/20 11:08	1
Phenol	<0.087		0.20	0.087	mg/Kg	☼	08/14/20 17:27	08/17/20 11:08	1
Pyrene	<0.0078		0.039	0.0078	mg/Kg	☼	08/14/20 17:27	08/17/20 11:08	1
1,2,4-Trichlorobenzene	<0.042		0.20	0.042	mg/Kg	☼	08/14/20 17:27	08/17/20 11:08	1
2,4,5-Trichlorophenol	<0.090		0.39	0.090	mg/Kg	☼	08/14/20 17:27	08/17/20 11:08	1
2,4,6-Trichlorophenol	<0.13		0.39	0.13	mg/Kg	☼	08/14/20 17:27	08/17/20 11:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	85		43 - 145	08/14/20 17:27	08/17/20 11:08	1
2-Fluorophenol	81		31 - 166	08/14/20 17:27	08/17/20 11:08	1
Nitrobenzene-d5	68		37 - 147	08/14/20 17:27	08/17/20 11:08	1
Phenol-d5	66		30 - 153	08/14/20 17:27	08/17/20 11:08	1
Terphenyl-d14	98		42 - 157	08/14/20 17:27	08/17/20 11:08	1
2,4,6-Tribromophenol	109		31 - 143	08/14/20 17:27	08/17/20 11:08	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.61	J	1.1	0.22	mg/Kg	☼	08/11/20 07:05	08/12/20 01:18	1
Arsenic	8.2		0.57	0.19	mg/Kg	☼	08/11/20 07:05	08/12/20 01:18	1
Barium	130		0.57	0.065	mg/Kg	☼	08/11/20 07:05	08/12/20 01:18	1
Beryllium	0.60		0.23	0.053	mg/Kg	☼	08/11/20 07:05	08/12/20 01:18	1
Cadmium	0.17	B	0.11	0.020	mg/Kg	☼	08/11/20 07:05	08/12/20 01:18	1
Chromium	14		0.57	0.28	mg/Kg	☼	08/11/20 07:05	08/12/20 01:18	1
Cobalt	10		0.28	0.074	mg/Kg	☼	08/11/20 07:05	08/12/20 01:18	1
Copper	6.8		0.57	0.16	mg/Kg	☼	08/11/20 07:05	08/12/20 01:18	1
Iron	16000		11	5.9	mg/Kg	☼	08/11/20 07:05	08/12/20 01:18	1
Lead	11		0.28	0.13	mg/Kg	☼	08/11/20 07:05	08/12/20 01:18	1
Magnesium	2600		5.7	2.8	mg/Kg	☼	08/11/20 07:05	08/12/20 01:18	1
Calcium	2600		11	1.9	mg/Kg	☼	08/11/20 07:05	08/12/20 01:18	1
Manganese	950		0.57	0.082	mg/Kg	☼	08/11/20 07:05	08/12/20 01:18	1
Nickel	20		0.57	0.17	mg/Kg	☼	08/11/20 07:05	08/12/20 01:18	1
Selenium	0.51	J	0.57	0.33	mg/Kg	☼	08/11/20 07:05	08/12/20 01:18	1
Silver	<0.073		0.28	0.073	mg/Kg	☼	08/11/20 07:05	08/12/20 01:18	1
Thallium	0.68		0.57	0.28	mg/Kg	☼	08/11/20 07:05	08/12/20 01:18	1
Vanadium	24		0.28	0.067	mg/Kg	☼	08/11/20 07:05	08/12/20 01:18	1
Zinc	48		1.1	0.50	mg/Kg	☼	08/11/20 07:05	08/12/20 01:18	1
Potassium	1100		28	10	mg/Kg	☼	08/11/20 07:05	08/12/20 01:18	1
Sodium	820		57	8.4	mg/Kg	☼	08/11/20 07:05	08/12/20 01:18	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/17/20 17:21	08/18/20 01:47	1
Barium	0.18	J	0.50	0.050	mg/L		08/17/20 17:21	08/18/20 01:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/17/20 17:21	08/18/20 01:47	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/17/20 17:21	08/18/20 01:47	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185940-1

Client Sample ID: 2412V2-9-B01 (5-7.5)

Lab Sample ID: 500-185940-2

Date Collected: 08/04/20 11:25

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	41		5.0	0.50	mg/L		08/17/20 17:21	08/18/20 01:47	1
Chromium	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:47	1
Cobalt	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:47	1
Copper	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:47	1
Iron	<0.20		0.40	0.20	mg/L		08/17/20 17:21	08/18/20 01:47	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/17/20 17:21	08/18/20 01:47	1
Magnesium	6.5		2.5	0.50	mg/L		08/17/20 17:21	08/18/20 01:47	1
Manganese	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:47	1
Nickel	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:47	1
Potassium	1.4 J		2.5	0.50	mg/L		08/17/20 17:21	08/18/20 01:47	1
Selenium	<0.020		0.050	0.020	mg/L		08/17/20 17:21	08/18/20 01:47	1
Silver	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:47	1
Vanadium	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:47	1
Zinc	<0.020		0.50	0.020	mg/L		08/17/20 17:21	08/18/20 01:47	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		08/17/20 17:21	08/18/20 09:37	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		08/17/20 17:21	08/18/20 09:37	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/18/20 09:55	08/19/20 09:25	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016 J		0.020	0.0065	mg/Kg	☼	08/11/20 14:25	08/12/20 07:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.15		0.30	0.15	mg/Kg	☼	08/14/20 15:05	08/17/20 14:53	1
pH	7.8		0.2	0.2	SU			08/06/20 20:57	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185940-1

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
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC 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.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

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
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185940-1

GC/MS VOA

Analysis Batch: 556377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185940-1	2412V2-9-B01 (0-5)	Total/NA	Solid	8260B	556445
500-185940-2	2412V2-9-B01 (5-7.5)	Total/NA	Solid	8260B	556445
MB 500-556377/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-556377/7	Lab Control Sample	Total/NA	Solid	8260B	

Prep Batch: 556445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185940-1	2412V2-9-B01 (0-5)	Total/NA	Solid	5035	
500-185940-2	2412V2-9-B01 (5-7.5)	Total/NA	Solid	5035	

GC/MS Semi VOA

Prep Batch: 556949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185940-1	2412V2-9-B01 (0-5)	Total/NA	Solid	3541	
500-185940-2	2412V2-9-B01 (5-7.5)	Total/NA	Solid	3541	
MB 500-556949/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-556949/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 557105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185940-1	2412V2-9-B01 (0-5)	Total/NA	Solid	8270D	556949
500-185940-2	2412V2-9-B01 (5-7.5)	Total/NA	Solid	8270D	556949

Analysis Batch: 557147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-556949/1-A	Method Blank	Total/NA	Solid	8270D	556949
LCS 500-556949/2-A	Lab Control Sample	Total/NA	Solid	8270D	556949

Metals

Prep Batch: 556180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185940-1	2412V2-9-B01 (0-5)	Total/NA	Solid	3050B	
500-185940-2	2412V2-9-B01 (5-7.5)	Total/NA	Solid	3050B	
MB 500-556180/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-556180/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 556263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185940-1	2412V2-9-B01 (0-5)	Total/NA	Solid	7471B	
500-185940-2	2412V2-9-B01 (5-7.5)	Total/NA	Solid	7471B	
MB 500-556263/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-556263/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 556360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185940-1	2412V2-9-B01 (0-5)	Total/NA	Solid	6010B	556180
500-185940-2	2412V2-9-B01 (5-7.5)	Total/NA	Solid	6010B	556180
MB 500-556180/1-A	Method Blank	Total/NA	Solid	6010B	556180
LCS 500-556180/2-A	Lab Control Sample	Total/NA	Solid	6010B	556180

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185940-1

Metals

Analysis Batch: 556451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185940-1	2412V2-9-B01 (0-5)	Total/NA	Solid	7471B	556263
500-185940-2	2412V2-9-B01 (5-7.5)	Total/NA	Solid	7471B	556263
MB 500-556263/12-A	Method Blank	Total/NA	Solid	7471B	556263
LCS 500-556263/13-A	Lab Control Sample	Total/NA	Solid	7471B	556263

Leach Batch: 556907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185940-1	2412V2-9-B01 (0-5)	SPLP East	Solid	1312	
LB 500-556907/1-B	Method Blank	SPLP East	Solid	1312	

Leach Batch: 556919

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185940-1	2412V2-9-B01 (0-5)	TCLP	Solid	1311	
500-185940-2	2412V2-9-B01 (5-7.5)	TCLP	Solid	1311	
LB 500-556919/1-B	Method Blank	TCLP	Solid	1311	
LB 500-556919/1-C	Method Blank	TCLP	Solid	1311	

Prep Batch: 557242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185940-1	2412V2-9-B01 (0-5)	SPLP East	Solid	3010A	556907
LB 500-556907/1-B	Method Blank	SPLP East	Solid	3010A	556907
LCS 500-557242/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 557245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185940-1	2412V2-9-B01 (0-5)	TCLP	Solid	3010A	556919
500-185940-2	2412V2-9-B01 (5-7.5)	TCLP	Solid	3010A	556919
LB 500-556919/1-B	Method Blank	TCLP	Solid	3010A	556919
LCS 500-557245/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 557303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185940-1	2412V2-9-B01 (0-5)	TCLP	Solid	6010B	557245
500-185940-2	2412V2-9-B01 (5-7.5)	TCLP	Solid	6010B	557245
LB 500-556919/1-B	Method Blank	TCLP	Solid	6010B	557245
LCS 500-557245/2-A	Lab Control Sample	Total/NA	Solid	6010B	557245

Analysis Batch: 557308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185940-1	2412V2-9-B01 (0-5)	SPLP East	Solid	6010B	557242
LB 500-556907/1-B	Method Blank	SPLP East	Solid	6010B	557242
LCS 500-557242/2-A	Lab Control Sample	Total/NA	Solid	6010B	557242

Prep Batch: 557385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185940-1	2412V2-9-B01 (0-5)	TCLP	Solid	7470A	556919
500-185940-2	2412V2-9-B01 (5-7.5)	TCLP	Solid	7470A	556919
LB 500-556919/1-C	Method Blank	TCLP	Solid	7470A	556919
MB 500-557385/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-557385/14-A	Lab Control Sample	Total/NA	Solid	7470A	

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185940-1

Metals

Analysis Batch: 557398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185940-1	2412V2-9-B01 (0-5)	TCLP	Solid	6020A	557245
500-185940-2	2412V2-9-B01 (5-7.5)	TCLP	Solid	6020A	557245
LB 500-556919/1-B	Method Blank	TCLP	Solid	6020A	557245
LCS 500-557245/2-A	Lab Control Sample	Total/NA	Solid	6020A	557245

Analysis Batch: 557609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185940-1	2412V2-9-B01 (0-5)	TCLP	Solid	7470A	557385
500-185940-2	2412V2-9-B01 (5-7.5)	TCLP	Solid	7470A	557385
LB 500-556919/1-C	Method Blank	TCLP	Solid	7470A	557385
MB 500-557385/12-A	Method Blank	Total/NA	Solid	7470A	557385
LCS 500-557385/14-A	Lab Control Sample	Total/NA	Solid	7470A	557385

General Chemistry

Analysis Batch: 555682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185940-1	2412V2-9-B01 (0-5)	Total/NA	Solid	Moisture	
500-185940-2	2412V2-9-B01 (5-7.5)	Total/NA	Solid	Moisture	

Analysis Batch: 555814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185940-1	2412V2-9-B01 (0-5)	Total/NA	Solid	9045D	
500-185940-2	2412V2-9-B01 (5-7.5)	Total/NA	Solid	9045D	
LCS 500-555814/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-555814/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Prep Batch: 556872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185940-1	2412V2-9-B01 (0-5)	Total/NA	Solid	9010C	
500-185940-2	2412V2-9-B01 (5-7.5)	Total/NA	Solid	9010C	
MB 500-556872/1-A	Method Blank	Total/NA	Solid	9010C	
HLCS 500-556872/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 500-556872/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 500-556872/4-A	Lab Control Sample	Total/NA	Solid	9010C	
500-185940-1 MS	2412V2-9-B01 (0-5)	Total/NA	Solid	9010C	
500-185940-1 MSD	2412V2-9-B01 (0-5)	Total/NA	Solid	9010C	

Analysis Batch: 557430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185940-1	2412V2-9-B01 (0-5)	Total/NA	Solid	9012B	556872
500-185940-2	2412V2-9-B01 (5-7.5)	Total/NA	Solid	9012B	556872
MB 500-556872/1-A	Method Blank	Total/NA	Solid	9012B	556872
HLCS 500-556872/2-A	Lab Control Sample	Total/NA	Solid	9012B	556872
LCS 500-556872/3-A	Lab Control Sample	Total/NA	Solid	9012B	556872
LLCS 500-556872/4-A	Lab Control Sample	Total/NA	Solid	9012B	556872
500-185940-1 MS	2412V2-9-B01 (0-5)	Total/NA	Solid	9012B	556872
500-185940-1 MSD	2412V2-9-B01 (0-5)	Total/NA	Solid	9012B	556872

Eurofins TestAmerica, Chicago

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185940-1

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 (75-131)	DBFM (75-126)	DCA (70-134)	TOL (75-124)
500-185940-1	2412V2-9-B01 (0-5)	97	102	91	91
500-185940-2	2412V2-9-B01 (5-7.5)	92	102	91	92
LCS 500-556377/7	Lab Control Sample	85	96	81	91
MB 500-556377/6	Method Blank	88	97	84	92

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 (43-145)	2FP (31-166)	NBZ (37-147)	PHL (30-153)	TPHL (42-157)	TBP (31-143)
500-185940-1	2412V2-9-B01 (0-5)	84	74	61	63	96	109
500-185940-2	2412V2-9-B01 (5-7.5)	85	81	68	66	98	109
LCS 500-556949/2-A	Lab Control Sample	92	85	76	71	95	104
MB 500-556949/1-A	Method Blank	90	91	76	74	102	95

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 - Hampshire - WO 074

Job ID: 500-185940-1

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

Lab Sample ID: MB 500-556377/6
Matrix: Solid
Analysis Batch: 556377

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			08/12/20 09:47	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg			08/12/20 09:47	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg			08/12/20 09:47	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg			08/12/20 09:47	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg			08/12/20 09:47	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			08/12/20 09:47	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg			08/12/20 09:47	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg			08/12/20 09:47	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg			08/12/20 09:47	1
Chloroethane	<0.0015		0.0050	0.0015	mg/Kg			08/12/20 09:47	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg			08/12/20 09:47	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg			08/12/20 09:47	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg			08/12/20 09:47	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg			08/12/20 09:47	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg			08/12/20 09:47	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg			08/12/20 09:47	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg			08/12/20 09:47	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg			08/12/20 09:47	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			08/12/20 09:47	1
1,3-Dichloropropene, Total	<0.00070		0.0020	0.00070	mg/Kg			08/12/20 09:47	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg			08/12/20 09:47	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg			08/12/20 09:47	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg			08/12/20 09:47	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg			08/12/20 09:47	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg			08/12/20 09:47	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg			08/12/20 09:47	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg			08/12/20 09:47	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg			08/12/20 09:47	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg			08/12/20 09:47	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg			08/12/20 09:47	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg			08/12/20 09:47	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg			08/12/20 09:47	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg			08/12/20 09:47	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg			08/12/20 09:47	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg			08/12/20 09:47	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg			08/12/20 09:47	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg			08/12/20 09:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		75 - 131		08/12/20 09:47	1
Dibromofluoromethane	97		75 - 126		08/12/20 09:47	1
1,2-Dichloroethane-d4 (Surr)	84		70 - 134		08/12/20 09:47	1
Toluene-d8 (Surr)	92		75 - 124		08/12/20 09:47	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185940-1

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

Lab Sample ID: LCS 500-556377/7

Matrix: Solid

Analysis Batch: 556377

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	0.0467		mg/Kg		93	40 - 150
Benzene	0.0500	0.0468		mg/Kg		94	70 - 125
Bromodichloromethane	0.0500	0.0447		mg/Kg		89	67 - 129
Bromoform	0.0500	0.0504		mg/Kg		101	68 - 136
Bromomethane	0.0500	0.0408		mg/Kg		82	70 - 130
2-Butanone (MEK)	0.0500	0.0408		mg/Kg		82	47 - 138
Carbon disulfide	0.0500	0.0457		mg/Kg		91	70 - 129
Carbon tetrachloride	0.0500	0.0505		mg/Kg		101	75 - 125
Chlorobenzene	0.0500	0.0491		mg/Kg		98	50 - 150
Chloroethane	0.0500	0.0317	*	mg/Kg		63	75 - 125
Chloroform	0.0500	0.0453		mg/Kg		91	57 - 135
Chloromethane	0.0500	0.0573		mg/Kg		115	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0492		mg/Kg		98	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0454		mg/Kg		91	70 - 125
Dibromochloromethane	0.0500	0.0507		mg/Kg		101	69 - 125
1,1-Dichloroethane	0.0500	0.0453		mg/Kg		91	70 - 125
1,2-Dichloroethane	0.0500	0.0426		mg/Kg		85	70 - 130
1,1-Dichloroethene	0.0500	0.0483		mg/Kg		97	70 - 120
1,2-Dichloropropane	0.0500	0.0446		mg/Kg		89	70 - 125
Ethylbenzene	0.0500	0.0483		mg/Kg		97	61 - 136
2-Hexanone	0.0500	0.0388		mg/Kg		78	48 - 146
Methylene Chloride	0.0500	0.0464		mg/Kg		93	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0396		mg/Kg		79	50 - 148
Methyl tert-butyl ether	0.0500	0.0467		mg/Kg		93	50 - 140
Styrene	0.0500	0.0495		mg/Kg		99	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0434		mg/Kg		87	70 - 122
Tetrachloroethene	0.0500	0.0536		mg/Kg		107	70 - 124
Toluene	0.0500	0.0456		mg/Kg		91	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0501		mg/Kg		100	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0460		mg/Kg		92	70 - 125
1,1,1-Trichloroethane	0.0500	0.0472		mg/Kg		94	70 - 128
1,1,2-Trichloroethane	0.0500	0.0460		mg/Kg		92	70 - 125
Trichloroethene	0.0500	0.0571		mg/Kg		114	70 - 125
Vinyl acetate	0.0500	0.0460		mg/Kg		92	40 - 153
Vinyl chloride	0.0500	0.0561		mg/Kg		112	70 - 125
Xylenes, Total	0.100	0.0936		mg/Kg		94	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	85		75 - 131
Dibromofluoromethane	96		75 - 126
1,2-Dichloroethane-d4 (Surr)	81		70 - 134
Toluene-d8 (Surr)	91		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185940-1

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

Lab Sample ID: MB 500-556949/1-A
Matrix: Solid
Analysis Batch: 557147

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 556949

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0060		0.033	0.0060	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Acenaphthylene	<0.0044		0.033	0.0044	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Anthracene	<0.0056		0.033	0.0056	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Benzo[a]anthracene	<0.0045		0.033	0.0045	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Benzo[a]pyrene	<0.0064		0.033	0.0064	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Benzo[b]fluoranthene	<0.0072		0.033	0.0072	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Benzo[g,h,i]perylene	<0.011		0.033	0.011	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Benzo[k]fluoranthene	<0.0098		0.033	0.0098	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Bis(2-chloroethoxy)methane	<0.034		0.17	0.034	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Bis(2-chloroethyl)ether	<0.050		0.17	0.050	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Bis(2-ethylhexyl) phthalate	<0.061		0.17	0.061	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
4-Bromophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Butyl benzyl phthalate	<0.063		0.17	0.063	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Carbazole	<0.083		0.17	0.083	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
4-Chloroaniline	<0.16		0.67	0.16	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
4-Chloro-3-methylphenol	<0.11		0.33	0.11	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
2-Chloronaphthalene	<0.037		0.17	0.037	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
2-Chlorophenol	<0.057		0.17	0.057	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
4-Chlorophenyl phenyl ether	<0.039		0.17	0.039	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Chrysene	<0.0091		0.033	0.0091	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Dibenz(a,h)anthracene	<0.0064		0.033	0.0064	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Dibenzofuran	<0.039		0.17	0.039	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
1,2-Dichlorobenzene	<0.040		0.17	0.040	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
1,3-Dichlorobenzene	<0.037		0.17	0.037	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
1,4-Dichlorobenzene	<0.043		0.17	0.043	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
3,3'-Dichlorobenzidine	<0.047		0.17	0.047	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
2,4-Dichlorophenol	<0.079		0.33	0.079	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Diethyl phthalate	<0.056		0.17	0.056	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
2,4-Dimethylphenol	<0.13		0.33	0.13	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Dimethyl phthalate	<0.043		0.17	0.043	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Di-n-butyl phthalate	<0.051		0.17	0.051	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
4,6-Dinitro-2-methylphenol	<0.27		0.67	0.27	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
2,4-Dinitrophenol	<0.59		0.67	0.59	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
2,4-Dinitrotoluene	<0.053		0.17	0.053	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
2,6-Dinitrotoluene	<0.065		0.17	0.065	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Di-n-octyl phthalate	<0.054		0.17	0.054	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Fluoranthene	<0.0062		0.033	0.0062	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Fluorene	<0.0047		0.033	0.0047	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Hexachlorobenzene	<0.0077		0.067	0.0077	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Hexachlorobutadiene	<0.052		0.17	0.052	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Hexachlorocyclopentadiene	<0.19		0.67	0.19	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Hexachloroethane	<0.051		0.17	0.051	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Indeno[1,2,3-cd]pyrene	<0.0086		0.033	0.0086	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Isophorone	<0.037		0.17	0.037	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
2-Methylnaphthalene	<0.0061		0.067	0.0061	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
2-Methylphenol	<0.053		0.17	0.053	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
3 & 4 Methylphenol	<0.055		0.17	0.055	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Naphthalene	<0.0051		0.033	0.0051	mg/Kg		08/14/20 17:27	08/17/20 11:31	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185940-1

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

Lab Sample ID: MB 500-556949/1-A
Matrix: Solid
Analysis Batch: 557147

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 556949

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2-Nitroaniline	<0.045		0.17	0.045	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
3-Nitroaniline	<0.10		0.33	0.10	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
4-Nitroaniline	<0.14		0.33	0.14	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Nitrobenzene	<0.0083		0.033	0.0083	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
2-Nitrophenol	<0.079		0.33	0.079	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
4-Nitrophenol	<0.32		0.67	0.32	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
N-Nitrosodi-n-propylamine	<0.041		0.067	0.041	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
N-Nitrosodiphenylamine	<0.039		0.17	0.039	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
2,2'-oxybis[1-chloropropane]	<0.039		0.17	0.039	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Pentachlorophenol	<0.53		0.67	0.53	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Phenanthrene	<0.0046		0.033	0.0046	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Phenol	<0.074		0.17	0.074	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Pyrene	<0.0066		0.033	0.0066	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
1,2,4-Trichlorobenzene	<0.036		0.17	0.036	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
2,4,5-Trichlorophenol	<0.076		0.33	0.076	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
2,4,6-Trichlorophenol	<0.11		0.33	0.11	mg/Kg		08/14/20 17:27	08/17/20 11:31	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorobiphenyl	90		43 - 145	08/14/20 17:27	08/17/20 11:31	1
2-Fluorophenol	91		31 - 166	08/14/20 17:27	08/17/20 11:31	1
Nitrobenzene-d5	76		37 - 147	08/14/20 17:27	08/17/20 11:31	1
Phenol-d5	74		30 - 153	08/14/20 17:27	08/17/20 11:31	1
Terphenyl-d14	102		42 - 157	08/14/20 17:27	08/17/20 11:31	1
2,4,6-Tribromophenol	95		31 - 143	08/14/20 17:27	08/17/20 11:31	1

Lab Sample ID: LCS 500-556949/2-A
Matrix: Solid
Analysis Batch: 557147

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556949

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthylene	1.33	1.13		mg/Kg		85	68 - 120
Anthracene	1.33	1.14		mg/Kg		86	70 - 114
Benzo[a]anthracene	1.33	1.20		mg/Kg		90	67 - 122
Benzo[a]pyrene	1.33	1.16		mg/Kg		87	65 - 133
Benzo[b]fluoranthene	1.33	1.25		mg/Kg		94	69 - 129
Benzo[g,h,i]perylene	1.33	1.31		mg/Kg		99	72 - 131
Benzo[k]fluoranthene	1.33	1.10		mg/Kg		82	68 - 127
Bis(2-chloroethoxy)methane	1.33	0.924		mg/Kg		69	60 - 112
Bis(2-chloroethyl)ether	1.33	0.826		mg/Kg		62	55 - 111
Bis(2-ethylhexyl) phthalate	1.33	1.12		mg/Kg		84	72 - 131
4-Bromophenyl phenyl ether	1.33	1.13		mg/Kg		85	68 - 118
Butyl benzyl phthalate	1.33	1.17		mg/Kg		88	71 - 129
Carbazole	1.33	1.08		mg/Kg		81	65 - 142
4-Chloroaniline	1.33	0.840		mg/Kg		63	30 - 150
4-Chloro-3-methylphenol	1.33	0.992		mg/Kg		74	65 - 122
2-Chloronaphthalene	1.33	1.09		mg/Kg		82	69 - 114
2-Chlorophenol	1.33	1.01		mg/Kg		76	64 - 110

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185940-1

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

Lab Sample ID: LCS 500-556949/2-A

Matrix: Solid

Analysis Batch: 557147

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 556949

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorophenyl phenyl ether	1.33	1.20		mg/Kg		90	62 - 119
Chrysene	1.33	1.20		mg/Kg		90	63 - 120
Dibenz(a,h)anthracene	1.33	1.24		mg/Kg		93	64 - 131
Dibenzofuran	1.33	1.17		mg/Kg		88	66 - 115
1,2-Dichlorobenzene	1.33	1.06		mg/Kg		80	62 - 110
1,3-Dichlorobenzene	1.33	1.00		mg/Kg		75	65 - 124
1,4-Dichlorobenzene	1.33	1.02		mg/Kg		76	61 - 110
3,3'-Dichlorobenzidine	1.33	0.888		mg/Kg		67	35 - 128
2,4-Dichlorophenol	1.33	1.17		mg/Kg		88	58 - 120
Diethyl phthalate	1.33	1.10		mg/Kg		82	58 - 120
2,4-Dimethylphenol	1.33	1.01		mg/Kg		76	60 - 110
Dimethyl phthalate	1.33	1.24		mg/Kg		93	69 - 116
Di-n-butyl phthalate	1.33	1.09		mg/Kg		82	65 - 120
4,6-Dinitro-2-methylphenol	2.67	0.808		mg/Kg		30	10 - 110
2,4-Dinitrophenol	2.67	0.637	J	mg/Kg		24	10 - 100
2,4-Dinitrotoluene	1.33	1.34		mg/Kg		100	69 - 124
2,6-Dinitrotoluene	1.33	1.30		mg/Kg		97	70 - 123
Di-n-octyl phthalate	1.33	1.13		mg/Kg		85	68 - 134
Fluoranthene	1.33	1.20		mg/Kg		90	62 - 120
Fluorene	1.33	1.18		mg/Kg		89	62 - 120
Hexachlorobenzene	1.33	1.22		mg/Kg		92	63 - 124
Hexachlorobutadiene	1.33	1.31		mg/Kg		98	56 - 120
Hexachlorocyclopentadiene	1.33	1.02		mg/Kg		76	10 - 133
Hexachloroethane	1.33	0.915		mg/Kg		69	60 - 114
Indeno[1,2,3-cd]pyrene	1.33	1.35		mg/Kg		101	68 - 130
Isophorone	1.33	1.02		mg/Kg		77	55 - 110
2-Methylnaphthalene	1.33	1.22		mg/Kg		92	69 - 112
2-Methylphenol	1.33	1.14		mg/Kg		85	60 - 120
3 & 4 Methylphenol	1.33	1.01		mg/Kg		76	57 - 120
Naphthalene	1.33	1.13		mg/Kg		85	63 - 110
2-Nitroaniline	1.33	0.878		mg/Kg		66	57 - 124
3-Nitroaniline	1.33	0.679		mg/Kg		51	40 - 122
4-Nitroaniline	1.33	0.876		mg/Kg		66	60 - 160
Nitrobenzene	1.33	0.949		mg/Kg		71	60 - 116
2-Nitrophenol	1.33	1.15		mg/Kg		86	60 - 120
4-Nitrophenol	2.67	1.81		mg/Kg		68	30 - 122
N-Nitrosodi-n-propylamine	1.33	1.05		mg/Kg		78	56 - 118
N-Nitrosodiphenylamine	1.33	1.09		mg/Kg		82	65 - 112
2,2'-oxybis[1-chloropropane]	1.33	0.945		mg/Kg		71	40 - 124
Pentachlorophenol	2.67	1.26		mg/Kg		47	13 - 112
Phenanthrene	1.33	1.15		mg/Kg		86	62 - 120
Phenol	1.33	0.914		mg/Kg		69	56 - 122
Pyrene	1.33	1.23		mg/Kg		93	61 - 128
1,2,4-Trichlorobenzene	1.33	1.21		mg/Kg		91	66 - 117
2,4,5-Trichlorophenol	1.33	1.06		mg/Kg		80	50 - 120
2,4,6-Trichlorophenol	1.33	1.11		mg/Kg		83	57 - 120

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185940-1

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

Lab Sample ID: LCS 500-556949/2-A
Matrix: Solid
Analysis Batch: 557147

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556949

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	92		43 - 145
2-Fluorophenol	85		31 - 166
Nitrobenzene-d5	76		37 - 147
Phenol-d5	71		30 - 153
Terphenyl-d14	95		42 - 157
2,4,6-Tribromophenol	104		31 - 143

Method: 6010B - SPLP Metals

Lab Sample ID: LCS 500-557242/2-A
Matrix: Solid
Analysis Batch: 557308

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 557242

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Lead	0.100	0.0959		mg/L		96	80 - 120
Manganese	0.500	0.447		mg/L		89	80 - 120

Lab Sample ID: LB 500-556907/1-B
Matrix: Solid
Analysis Batch: 557308

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 557242

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	<0.0075		0.0075	0.0075	mg/L		08/17/20 17:17	08/18/20 03:14	1
Manganese	<0.010		0.025	0.010	mg/L		08/17/20 17:17	08/18/20 03:14	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-556180/1-A
Matrix: Solid
Analysis Batch: 556360

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 556180

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.39		2.0	0.39	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Arsenic	<0.34		1.0	0.34	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Barium	<0.11		1.0	0.11	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Beryllium	<0.093		0.40	0.093	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Cadmium	0.0441	J	0.20	0.036	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Chromium	<0.50		1.0	0.50	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Cobalt	<0.13		0.50	0.13	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Copper	<0.28		1.0	0.28	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Iron	<10		20	10	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Lead	<0.23		0.50	0.23	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Magnesium	<5.0		10	5.0	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Calcium	<3.4		20	3.4	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Manganese	<0.15		1.0	0.15	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Nickel	<0.29		1.0	0.29	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Selenium	<0.59		1.0	0.59	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Silver	<0.13		0.50	0.13	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Thallium	<0.50		1.0	0.50	mg/Kg		08/11/20 07:05	08/12/20 00:26	1

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185940-1

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

Lab Sample ID: MB 500-556180/1-A
Matrix: Solid
Analysis Batch: 556360

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 556180

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	<0.12		0.50	0.12	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Zinc	<0.88		2.0	0.88	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Potassium	<18		50	18	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Sodium	<15		100	15	mg/Kg		08/11/20 07:05	08/12/20 00:26	1

Lab Sample ID: LCS 500-556180/2-A
Matrix: Solid
Analysis Batch: 556360

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556180

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	50.0	44.0		mg/Kg		88	80 - 120
Arsenic	10.0	9.48		mg/Kg		95	80 - 120
Barium	200	192		mg/Kg		96	80 - 120
Beryllium	5.00	4.72		mg/Kg		94	80 - 120
Cadmium	5.00	4.85		mg/Kg		97	80 - 120
Chromium	20.0	19.5		mg/Kg		98	80 - 120
Cobalt	50.0	49.4		mg/Kg		99	80 - 120
Copper	25.0	24.0		mg/Kg		96	80 - 120
Iron	100	108		mg/Kg		108	80 - 120
Lead	10.0	9.76		mg/Kg		98	80 - 120
Magnesium	1000	921		mg/Kg		92	80 - 120
Calcium	1000	949		mg/Kg		95	80 - 120
Manganese	50.0	46.6		mg/Kg		93	80 - 120
Nickel	50.0	49.1		mg/Kg		98	80 - 120
Selenium	10.0	8.64		mg/Kg		86	80 - 120
Silver	5.00	4.67		mg/Kg		93	80 - 120
Thallium	10.0	10.1		mg/Kg		101	80 - 120
Vanadium	50.0	48.6		mg/Kg		97	80 - 120
Zinc	50.0	47.4		mg/Kg		95	80 - 120
Potassium	1000	974		mg/Kg		97	80 - 120
Sodium	1000	982		mg/Kg		98	80 - 120

Lab Sample ID: LCS 500-557245/2-A
Matrix: Solid
Analysis Batch: 557303

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 557245

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.100	0.109		mg/L		109	80 - 120
Barium	0.500	0.496	J	mg/L		99	80 - 120
Beryllium	0.0500	0.0498		mg/L		100	80 - 120
Cadmium	0.0500	0.0511		mg/L		102	80 - 120
Chromium	0.200	0.198		mg/L		99	80 - 120
Cobalt	0.500	0.522		mg/L		104	80 - 120
Copper	0.250	0.259		mg/L		103	80 - 120
Iron	1.00	1.02		mg/L		102	80 - 120
Lead	0.100	0.0961		mg/L		96	80 - 120
Magnesium	10.0	9.26		mg/L		93	80 - 120
Calcium	10.0	9.87		mg/L		99	80 - 120
Manganese	0.500	0.482		mg/L		96	80 - 120

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185940-1

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

Lab Sample ID: LCS 500-557245/2-A
Matrix: Solid
Analysis Batch: 557303

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 557245

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nickel	0.500	0.517		mg/L		103	80 - 120
Selenium	0.100	0.106		mg/L		106	80 - 120
Silver	0.0500	0.0512		mg/L		102	80 - 120
Vanadium	0.500	0.516		mg/L		103	80 - 120
Zinc	0.500	0.568		mg/L		114	80 - 120
Potassium	10.0	10.4		mg/L		104	80 - 120

Lab Sample ID: LB 500-556919/1-B
Matrix: Solid
Analysis Batch: 557303

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 557245

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/17/20 17:21	08/18/20 01:05	1
Barium	<0.050		0.50	0.050	mg/L		08/17/20 17:21	08/18/20 01:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/17/20 17:21	08/18/20 01:05	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/17/20 17:21	08/18/20 01:05	1
Chromium	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:05	1
Cobalt	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:05	1
Copper	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:05	1
Iron	<0.20		0.40	0.20	mg/L		08/17/20 17:21	08/18/20 01:05	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/17/20 17:21	08/18/20 01:05	1
Magnesium	<0.50		2.5	0.50	mg/L		08/17/20 17:21	08/18/20 01:05	1
Calcium	<0.50		5.0	0.50	mg/L		08/17/20 17:21	08/18/20 01:05	1
Manganese	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:05	1
Nickel	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:05	1
Selenium	<0.020		0.050	0.020	mg/L		08/17/20 17:21	08/18/20 01:05	1
Silver	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:05	1
Vanadium	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:05	1
Zinc	<0.020		0.50	0.020	mg/L		08/17/20 17:21	08/18/20 01:05	1
Potassium	<0.50		2.5	0.50	mg/L		08/17/20 17:21	08/18/20 01:05	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-557245/2-A
Matrix: Solid
Analysis Batch: 557398

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 557245

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.573	^	mg/L		115	80 - 120
Thallium	0.100	0.120	^	mg/L		120	80 - 120

Lab Sample ID: LB 500-556919/1-B
Matrix: Solid
Analysis Batch: 557398

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 557245

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		08/17/20 17:21	08/18/20 09:20	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		08/17/20 17:21	08/18/20 09:20	1

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185940-1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-557385/12-A
Matrix: Solid
Analysis Batch: 557609

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 557385

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/18/20 09:55	08/19/20 09:02	1

Lab Sample ID: LCS 500-557385/14-A
Matrix: Solid
Analysis Batch: 557609

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 557385
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00198		mg/L		99	80 - 120

Lab Sample ID: LB 500-556919/1-C
Matrix: Solid
Analysis Batch: 557609

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 557385

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/18/20 09:55	08/19/20 09:04	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-556263/12-A
Matrix: Solid
Analysis Batch: 556451

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 556263

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		08/11/20 14:25	08/12/20 07:11	1

Lab Sample ID: LCS 500-556263/13-A
Matrix: Solid
Analysis Batch: 556451

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556263
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.170		mg/Kg		102	80 - 120

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 500-556872/1-A
Matrix: Solid
Analysis Batch: 557430

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 556872

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.12		0.24	0.12	mg/Kg		08/14/20 15:05	08/17/20 14:28	1

Lab Sample ID: HLCS 500-556872/2-A
Matrix: Solid
Analysis Batch: 557430

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556872
%Rec.

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	12.0	13.1		mg/Kg		109	90 - 110

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185940-1

Method: 9012B - Cyanide, Total andor Amenable (Continued)

Lab Sample ID: LCS 500-556872/3-A
Matrix: Solid
Analysis Batch: 557430

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556872
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	2.40	2.32		mg/Kg		97	85 - 115

Lab Sample ID: LLCS 500-556872/4-A
Matrix: Solid
Analysis Batch: 557430

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556872
%Rec.

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	1.20	1.34		mg/Kg		111	75 - 125

Lab Sample ID: 500-185940-1 MS
Matrix: Solid
Analysis Batch: 557430

Client Sample ID: 2412V2-9-B01 (0-5)
Prep Type: Total/NA
Prep Batch: 556872
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	<0.12	F1	1.28	0.865	F1	mg/Kg	✱	68	75 - 125

Lab Sample ID: 500-185940-1 MSD
Matrix: Solid
Analysis Batch: 557430

Client Sample ID: 2412V2-9-B01 (0-5)
Prep Type: Total/NA
Prep Batch: 556872
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Cyanide, Total	<0.12	F1	1.47	0.796	F1	mg/Kg	✱	54	75 - 125	8	20

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185940-1

Client Sample ID: 2412V2-9-B01 (0-5)

Lab Sample ID: 500-185940-1

Date Collected: 08/04/20 11:20

Matrix: Solid

Date Received: 08/04/20 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			556907	08/14/20 12:25	JLC	TAL CHI
SPLP East	Prep	3010A			557242	08/17/20 17:17	BDE	TAL CHI
SPLP East	Analysis	6010B		1	557308	08/18/20 03:42	JEF	TAL CHI
TCLP	Leach	1311			556919	08/14/20 14:05	JLC	TAL CHI
TCLP	Prep	3010A			557245	08/17/20 17:21	BDE	TAL CHI
TCLP	Analysis	6010B		1	557303	08/18/20 01:43	EEN	TAL CHI
TCLP	Leach	1311			556919	08/14/20 14:05	JLC	TAL CHI
TCLP	Prep	3010A			557245	08/17/20 17:21	BDE	TAL CHI
TCLP	Analysis	6020A		1	557398	08/18/20 09:35	FXG	TAL CHI
TCLP	Leach	1311			556919	08/14/20 14:05	JLC	TAL CHI
TCLP	Prep	7470A			557385	08/18/20 09:55	MJG	TAL CHI
TCLP	Analysis	7470A		1	557609	08/19/20 09:23	MJG	TAL CHI
Total/NA	Analysis	9045D		1	555814	08/06/20 20:53	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	555682	08/06/20 12:25	LWN	TAL CHI

Client Sample ID: 2412V2-9-B01 (0-5)

Lab Sample ID: 500-185940-1

Date Collected: 08/04/20 11:20

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 82.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			556445	08/05/20 08:30	PMF	TAL CHI
Total/NA	Analysis	8260B		1	556377	08/12/20 12:48	PMF	TAL CHI
Total/NA	Prep	3541			556949	08/14/20 17:27	ACK	TAL CHI
Total/NA	Analysis	8270D		1	557105	08/17/20 14:45	AJD	TAL CHI
Total/NA	Prep	3050B			556180	08/11/20 07:05	LMN	TAL CHI
Total/NA	Analysis	6010B		1	556360	08/12/20 01:14	JEF	TAL CHI
Total/NA	Prep	7471B			556263	08/11/20 14:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	556451	08/12/20 07:47	MJG	TAL CHI
Total/NA	Prep	9010C			556872	08/14/20 15:05	MS	TAL CHI
Total/NA	Analysis	9012B		1	557430		MS	TAL CHI
					(Start)	08/17/20 14:42		
					(End)	08/17/20 14:46		

Client Sample ID: 2412V2-9-B01 (5-7.5)

Lab Sample ID: 500-185940-2

Date Collected: 08/04/20 11:25

Matrix: Solid

Date Received: 08/04/20 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			556919	08/14/20 14:05	JLC	TAL CHI
TCLP	Prep	3010A			557245	08/17/20 17:21	BDE	TAL CHI
TCLP	Analysis	6010B		1	557303	08/18/20 01:47	EEN	TAL CHI
TCLP	Leach	1311			556919	08/14/20 14:05	JLC	TAL CHI
TCLP	Prep	3010A			557245	08/17/20 17:21	BDE	TAL CHI
TCLP	Analysis	6020A		1	557398	08/18/20 09:37	FXG	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185940-1

Client Sample ID: 2412V2-9-B01 (5-7.5)

Lab Sample ID: 500-185940-2

Date Collected: 08/04/20 11:25

Matrix: Solid

Date Received: 08/04/20 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			556919	08/14/20 14:05	JLC	TAL CHI
TCLP	Prep	7470A			557385	08/18/20 09:55	MJG	TAL CHI
TCLP	Analysis	7470A		1	557609	08/19/20 09:25	MJG	TAL CHI
Total/NA	Analysis	9045D		1	555814	08/06/20 20:57	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	555682	08/06/20 12:25	LWN	TAL CHI

Client Sample ID: 2412V2-9-B01 (5-7.5)

Lab Sample ID: 500-185940-2

Date Collected: 08/04/20 11:25

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 83.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			556445	08/05/20 08:30	PMF	TAL CHI
Total/NA	Analysis	8260B		1	556377	08/12/20 13:13	PMF	TAL CHI
Total/NA	Prep	3541			556949	08/14/20 17:27	ACK	TAL CHI
Total/NA	Analysis	8270D		1	557105	08/17/20 11:08	AJD	TAL CHI
Total/NA	Prep	3050B			556180	08/11/20 07:05	LMN	TAL CHI
Total/NA	Analysis	6010B		1	556360	08/12/20 01:18	JEF	TAL CHI
Total/NA	Prep	7471B			556263	08/11/20 14:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	556451	08/12/20 07:49	MJG	TAL CHI
Total/NA	Prep	9010C			556872	08/14/20 15:05	MS	TAL CHI
Total/NA	Analysis	9012B		1	557430		MS	TAL CHI
					(Start)	08/17/20 14:53		
					(End)	08/17/20 14:57		

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185940-1

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-21

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 6C
Phone: 708.534.5200 Fax: 708.534



500-185940 COC

Report To (optional)
Contact: Matt Weiss
Company: Terracon
Address: 192 Exchange Blvd
Address: Glendale Heights IL
Phone: 630-445-8160
Fax:
E-Mail: Matt.Weiss@Terracon.com

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

Chain of Custody Record

Lab Job #: 500-185940
Chain of Custody Number:
Page 1 of 1
Temperature °C of Cooler: 58, 43, 59, 44

Client		Client Project #		Preservative		Parameter		Preservative Key							
<u>Terracon</u>		<u>11207011P</u>						<ol style="list-style-type: none"> 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 							
Project Name		Lab Project #		Sampling		Matrix		Comments							
<u>11207011P</u>															
Project Location/State		Lab PM		Date		Time									
<u>Hampshire IL</u>															
Sampler				# of Containers		Matrix									
<u>D.G. Fry</u>															
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOC'S	SUCC'S	Total ES	Inorganics	pH	TCCP 23	Inorganics	SPCP 23	Inorganics
<u>1</u>		<u>2412 U2-9-BC1 (0.5)</u>	<u>8/4/20</u>	<u>1120</u>	<u>6</u>	<u>SO</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>2</u>		<u>2412 U2-9-AD2 (5-7.5)</u>	<u>8/4/20</u>	<u>1125</u>	<u>6</u>	<u>SO</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 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>8/4/2020</u>	Time <u>1600</u>	Received By <u>[Signature]</u> Company <u>TA</u>	Date <u>8/4/20</u>	Time <u>1600</u>
Relinquished By <u>[Signature]</u> Company <u>TA</u>	Date <u>8/4/20</u>	Time <u>1740</u>	Received By <u>[Signature]</u> Company <u>TA</u>	Date <u>8/5/20</u>	Time <u>0730</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: * STANDARD TURN
* NO Aluminum
* Hold SPCP 23 Inorganics per Terracon Instructions

Lab Comments:

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-185940-1

Login Number: 185940

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.8,4.3,5.9,4.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
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	





Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 557-IL Route 72 at State Street/Getzelman Rd Office Phone Number, if available: _____

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

S State St (Southbound) IDOT STA 201+40 to 202+20 (ISGS Site 2412V2-11)

City: Hampshire State: IL Zip Code: 60140

County: Kane Township: Hampshire

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

Latitude: 42.08832 Longitude: - 88.53013

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

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

Estimated Volume of debris (cu. Yd.): 37

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

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

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

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

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

Soil from boring B01 was sampled adjacent to ISGS Site No 2412V2-9.

See Exhibit 2 and Table 13 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 J185940-1.

Also see Preliminary Site Investigation Report prepared by Terracon. CCDD/USFO facility in MSA County.

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

I, Matt Weiss (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51 a] 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

Printed Name: _____

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Date:

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

Comparison of Detected Constituents to MACs-PTB 174-009;Work Order:074A
Preliminary Site Investigation
FAP 557-IL Route 72 at State St./Getzelman Road (PESA #2412V2-11)
Hampshire, Kane Co, IL
Terracon Project No. 11207011P
Page 1 of 2

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2412V2-11-B01 (0-5)	2412V2-11-B01 (5-7.5)
				CCDD	Sample Depth (feet)	(0-5)	(5-7.5)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	8/4/2020	8/4/2020
Semivolatile Organic Analytical Parameters							
Anthracene	mg/kg	0.25	0.4	12000		0.049	<0.0064
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.34	0.041
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.44	0.064
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.74	0.089
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.24	0.061
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.28	0.037
Chrysene	mg/kg	1.2	2.7	88		0.37	0.049
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		0.061	<0.0074
Fluoranthene	mg/kg	2.7	4.1	3100		0.83	0.087
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.21	0.044
Naphthalene	mg/kg	0.04	0.2	1.8		<0.0060	0.0061
Phenanthrene	mg/kg	1.3	2.5	210		0.21	0.018
Pyrene	mg/kg	1.9	3.0	2300		0.55	0.066
2-Methylnaphthalene	mg/kg	---	0.14	---		<0.0072	0.0072
Inorganic Analytical Parameters							
Arsenic	mg/kg	---	13	11.3		5.6	5.8
Barium	mg/kg	---	110	1500		120	100
Cadmium	mg/kg	---	0.6	5.2		0.36	0.19
Chromium, total	mg/kg	---	16.2	21		14	11
Lead	mg/kg	---	36	107		55	19
Mercury	mg/kg	---	0.06	0.89		0.029	0.026
Selenium	mg/kg	---	0.48	1.3		0.59	0.34
Silver	mg/kg	---	0.55	4.4		<0.071	<0.070
Antimony	mg/kg	---	4.0	5		0.34	0.23
Beryllium	mg/kg	---	0.59	22		0.57	0.41
Calcium	mg/kg	---	9,300	---		9300	26000
Cobalt	mg/kg	---	8.9	20		9	8.3
Copper	mg/kg	---	19.6	2900		10	8.4
Cyanide	mg/kg	---	0.51	---		0.16	<0.13
Iron	mg/kg	---	15,900	15000		15000	12000
Magnesium	mg/kg	---	4,820	325000		5300	7400
Manganese	mg/kg	---	636	630		1000	820
Nickel	mg/kg	---	18	100		20	16
Potassium	mg/kg	---	1,268	---		1400	1100
Sodium	mg/kg	---	130	---		370	280
Thallium	mg/kg	---	0.32	2.6		0.85	0.68
Vanadium	mg/kg	---	25.2	550		26	21
Zinc	mg/kg	---	95	5100		89	38
pH			6.25	9		8.6	8.8

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2412V2-11-B01 (0-5)	2412V2-11-B01 (5-7.5)
				CCDD	Sample Depth (feet)	(0-5)	(5-7.5)
		mg/kg	Date Collected	8/4/2020	8/4/2020		
		pH 6.25-9.0					
Inorganic Analytical Parameters (SPLP)							
Antimony,SPLP	mg/L	---	---	---		--	--
Arsenic,SPLP	mg/L	---	---	---		--	--
Barium,SPLP	mg/L	---	---	---		--	--
Beryllium,SPLP	mg/L	---	---	---		--	--
Cadmium,SPLP	mg/L	---	---	---		--	--
Calcium,SPLP	mg/L	---	---	---		--	--
Chromium,SPLP	mg/L	---	---	---		--	--
Cobalt,SPLP	mg/L	---	---	---		--	--
Copper,SPLP	mg/L	---	---	---		--	--
Iron,SPLP	mg/L	---	---	---		--	--
Lead,SPLP	mg/L	---	---	---		--	--
Magnesium,SPLP	mg/L	---	---	---		--	--
Manganese,SPLP	mg/L	---	---	---		--	--
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	---	---	---		0.44	0.41
Cadmium,TCLP	mg/L	---	---	---		<0.0020	<0.0020
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	---	---	---		240	310
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	---	---	---		65	140
Manganese,TCLP	mg/L	---	---	---		0.1	0.099
Nickel,TCLP	mg/L	---	---	---		<0.010	<0.010
Potassium,TCLP	mg/L	---	---	---		7.9	5.7
Sodium,TCLP	mg/L	---	---	---		--	--
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.010	<0.010
Zinc,TCLP	mg/L	---	---	---		0.084	0.024

ANALYTICAL REPORT

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

Laboratory Job ID: 500-185941-1
Client Project/Site: IDOT - Hampshire - WO 074

For:

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

Attn: Mr. Matthew Weiss



Authorized for release by:
8/19/2020 3:24:53 PM

Richard Wright, Senior Project Manager
(708)746-0045
Richard.Wright@Eurofinset.com

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results through
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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 - Hampshire - WO 074

Job ID: 500-185941-1

Job ID: 500-185941-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-185941-1

Receipt

The samples were received on 8/4/2020 5:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 4.3° C, 4.4° C, 5.8° C and 5.9° C.

GC/MS VOA

Method 8260B: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for 556446 recovered outside control limits for the following analytes: Bromomethane and Chloromethane. These analytes were not detected in the associated samples; therefore, the data have been reported. 2412V2-11-B01 (0-5) (500-185941-1) and 2412V2-11-B01 (5-7.5) (500-185941-2)

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 6020A: The continuing calibration verification (CCV) associated with batch 500-557398 recovered above the upper control limit for Antimony and Thallium. The samples associated with this CCV were non-detects for the affected analytes; 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.

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 - Hampshire - WO 074

Job ID: 500-185941-1

Client Sample ID: 2412V2-11-B01 (0-5)

Lab Sample ID: 500-185941-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.049		0.039	0.0065	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.34		0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.44		0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.74		0.039	0.0084	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.24		0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.28		0.039	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.37		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.061		0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.83		0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.21		0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.21		0.039	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.55		0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.34	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.6		0.55	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	120		0.55	0.063	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.57		0.22	0.052	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.36	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	14		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.0		0.28	0.072	mg/Kg	1	☼	6010B	Total/NA
Copper	10		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	15000		11	5.8	mg/Kg	1	☼	6010B	Total/NA
Lead	55		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	5300		5.5	2.7	mg/Kg	1	☼	6010B	Total/NA
Calcium	9300		11	1.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	1000		0.55	0.080	mg/Kg	1	☼	6010B	Total/NA
Nickel	20		0.55	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.59		0.55	0.33	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.85		0.55	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	26		0.28	0.065	mg/Kg	1	☼	6010B	Total/NA
Zinc	89		1.1	0.49	mg/Kg	1	☼	6010B	Total/NA
Potassium	1400		28	9.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	370		55	8.2	mg/Kg	1	☼	6010B	Total/NA
Barium	0.44	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	240		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	65		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.10		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	7.9		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.084	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.029		0.020	0.0065	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.16	J	0.26	0.13	mg/Kg	1	☼	9012B	Total/NA
pH	8.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2412V2-11-B01 (5-7.5)

Lab Sample ID: 500-185941-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.041		0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.064		0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.089		0.038	0.0082	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	0.049		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185941-1

Client Sample ID: 2412V2-11-B01 (5-7.5) (Continued)

Lab Sample ID: 500-185941-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.087		0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.044		0.038	0.0099	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.0072	J	0.077	0.0070	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.0061	J	0.038	0.0059	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.018	J	0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.066		0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.23	J	1.1	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.8		0.54	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	100		0.54	0.062	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.41		0.22	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.19	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	11		0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.3		0.27	0.071	mg/Kg	1	☼	6010B	Total/NA
Copper	8.4		0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	12000		11	5.7	mg/Kg	1	☼	6010B	Total/NA
Lead	19		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	7400		5.4	2.7	mg/Kg	1	☼	6010B	Total/NA
Calcium	26000		11	1.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	820		0.54	0.079	mg/Kg	1	☼	6010B	Total/NA
Nickel	16		0.54	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.34	J	0.54	0.32	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.68		0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.27	0.064	mg/Kg	1	☼	6010B	Total/NA
Zinc	38		1.1	0.48	mg/Kg	1	☼	6010B	Total/NA
Potassium	1100		27	9.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	280		54	8.1	mg/Kg	1	☼	6010B	Total/NA
Barium	0.41	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	310		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	140		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.099		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	5.7		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.024	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.026		0.019	0.0063	mg/Kg	1	☼	7471B	Total/NA
pH	8.8		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185941-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-185941-1	2412V2-11-B01 (0-5)	Solid	08/04/20 12:30	08/04/20 17:40	
500-185941-2	2412V2-11-B01 (5-7.5)	Solid	08/04/20 12:35	08/04/20 17:40	

- 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 - Hampshire - WO 074

Job ID: 500-185941-1

Client Sample ID: 2412V2-11-B01 (0-5)

Lab Sample ID: 500-185941-1

Date Collected: 08/04/20 12:30

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 84.4

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	☼	08/05/20 08:30	08/12/20 16:23	1
Benzene	<0.00044		0.0017	0.00044	mg/Kg	☼	08/05/20 08:30	08/12/20 16:23	1
Bromodichloromethane	<0.00035		0.0017	0.00035	mg/Kg	☼	08/05/20 08:30	08/12/20 16:23	1
Bromoform	<0.00050		0.0017	0.00050	mg/Kg	☼	08/05/20 08:30	08/12/20 16:23	1
Bromomethane	<0.0016	*	0.0043	0.0016	mg/Kg	☼	08/05/20 08:30	08/12/20 16:23	1
2-Butanone (MEK)	<0.0019		0.0043	0.0019	mg/Kg	☼	08/05/20 08:30	08/12/20 16:23	1
Carbon disulfide	<0.00089		0.0043	0.00089	mg/Kg	☼	08/05/20 08:30	08/12/20 16:23	1
Carbon tetrachloride	<0.00050		0.0017	0.00050	mg/Kg	☼	08/05/20 08:30	08/12/20 16:23	1
Chlorobenzene	<0.00063		0.0017	0.00063	mg/Kg	☼	08/05/20 08:30	08/12/20 16:23	1
Chloroethane	<0.0013		0.0043	0.0013	mg/Kg	☼	08/05/20 08:30	08/12/20 16:23	1
Chloroform	<0.00060		0.0017	0.00060	mg/Kg	☼	08/05/20 08:30	08/12/20 16:23	1
Chloromethane	<0.0017	*	0.0043	0.0017	mg/Kg	☼	08/05/20 08:30	08/12/20 16:23	1
cis-1,2-Dichloroethene	<0.00048		0.0017	0.00048	mg/Kg	☼	08/05/20 08:30	08/12/20 16:23	1
cis-1,3-Dichloropropene	<0.00052		0.0017	0.00052	mg/Kg	☼	08/05/20 08:30	08/12/20 16:23	1
Dibromochloromethane	<0.00056		0.0017	0.00056	mg/Kg	☼	08/05/20 08:30	08/12/20 16:23	1
1,1-Dichloroethane	<0.00059		0.0017	0.00059	mg/Kg	☼	08/05/20 08:30	08/12/20 16:23	1
1,2-Dichloroethane	<0.0013		0.0043	0.0013	mg/Kg	☼	08/05/20 08:30	08/12/20 16:23	1
1,1-Dichloroethene	<0.00059		0.0017	0.00059	mg/Kg	☼	08/05/20 08:30	08/12/20 16:23	1
1,2-Dichloropropene	<0.00044		0.0017	0.00044	mg/Kg	☼	08/05/20 08:30	08/12/20 16:23	1
1,3-Dichloropropene, Total	<0.00060		0.0017	0.00060	mg/Kg	☼	08/05/20 08:30	08/12/20 16:23	1
Ethylbenzene	<0.00082		0.0017	0.00082	mg/Kg	☼	08/05/20 08:30	08/12/20 16:23	1
2-Hexanone	<0.0013		0.0043	0.0013	mg/Kg	☼	08/05/20 08:30	08/12/20 16:23	1
Methylene Chloride	<0.0017		0.0043	0.0017	mg/Kg	☼	08/05/20 08:30	08/12/20 16:23	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0043	0.0013	mg/Kg	☼	08/05/20 08:30	08/12/20 16:23	1
Methyl tert-butyl ether	<0.00051		0.0017	0.00051	mg/Kg	☼	08/05/20 08:30	08/12/20 16:23	1
Styrene	<0.00052		0.0017	0.00052	mg/Kg	☼	08/05/20 08:30	08/12/20 16:23	1
1,1,2,2-Tetrachloroethane	<0.00055		0.0017	0.00055	mg/Kg	☼	08/05/20 08:30	08/12/20 16:23	1
Tetrachloroethene	<0.00059		0.0017	0.00059	mg/Kg	☼	08/05/20 08:30	08/12/20 16:23	1
Toluene	<0.00043		0.0017	0.00043	mg/Kg	☼	08/05/20 08:30	08/12/20 16:23	1
trans-1,2-Dichloroethene	<0.00076		0.0017	0.00076	mg/Kg	☼	08/05/20 08:30	08/12/20 16:23	1
trans-1,3-Dichloropropene	<0.00060		0.0017	0.00060	mg/Kg	☼	08/05/20 08:30	08/12/20 16:23	1
1,1,1-Trichloroethane	<0.00058		0.0017	0.00058	mg/Kg	☼	08/05/20 08:30	08/12/20 16:23	1
1,1,2-Trichloroethane	<0.00074		0.0017	0.00074	mg/Kg	☼	08/05/20 08:30	08/12/20 16:23	1
Trichloroethene	<0.00058		0.0017	0.00058	mg/Kg	☼	08/05/20 08:30	08/12/20 16:23	1
Vinyl acetate	<0.0015		0.0043	0.0015	mg/Kg	☼	08/05/20 08:30	08/12/20 16:23	1
Vinyl chloride	<0.00076		0.0017	0.00076	mg/Kg	☼	08/05/20 08:30	08/12/20 16:23	1
Xylenes, Total	<0.00055		0.0034	0.00055	mg/Kg	☼	08/05/20 08:30	08/12/20 16:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		75 - 131	08/05/20 08:30	08/12/20 16:23	1
Dibromofluoromethane	87		75 - 126	08/05/20 08:30	08/12/20 16:23	1
1,2-Dichloroethane-d4 (Surr)	88		70 - 134	08/05/20 08:30	08/12/20 16:23	1
Toluene-d8 (Surr)	92		75 - 124	08/05/20 08:30	08/12/20 16:23	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	☼	08/14/20 17:27	08/17/20 13:51	1
Acenaphthylene	<0.0052		0.039	0.0052	mg/Kg	☼	08/14/20 17:27	08/17/20 13:51	1
Anthracene	0.049		0.039	0.0065	mg/Kg	☼	08/14/20 17:27	08/17/20 13:51	1
Benzo[a]anthracene	0.34		0.039	0.0053	mg/Kg	☼	08/14/20 17:27	08/17/20 13:51	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185941-1

Client Sample ID: 2412V2-11-B01 (0-5)

Lab Sample ID: 500-185941-1

Date Collected: 08/04/20 12:30

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 84.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.44		0.039	0.0076	mg/Kg	☼	08/14/20 17:27	08/17/20 13:51	1
Benzo[b]fluoranthene	0.74		0.039	0.0084	mg/Kg	☼	08/14/20 17:27	08/17/20 13:51	1
Benzo[g,h,i]perylene	0.24		0.039	0.013	mg/Kg	☼	08/14/20 17:27	08/17/20 13:51	1
Benzo[k]fluoranthene	0.28		0.039	0.012	mg/Kg	☼	08/14/20 17:27	08/17/20 13:51	1
Bis(2-chloroethoxy)methane	<0.040		0.20	0.040	mg/Kg	☼	08/14/20 17:27	08/17/20 13:51	1
Bis(2-chloroethyl)ether	<0.059		0.20	0.059	mg/Kg	☼	08/14/20 17:27	08/17/20 13:51	1
Bis(2-ethylhexyl) phthalate	<0.071		0.20	0.071	mg/Kg	☼	08/14/20 17:27	08/17/20 13:51	1
4-Bromophenyl phenyl ether	<0.052		0.20	0.052	mg/Kg	☼	08/14/20 17:27	08/17/20 13:51	1
Butyl benzyl phthalate	<0.074		0.20	0.074	mg/Kg	☼	08/14/20 17:27	08/17/20 13:51	1
Carbazole	<0.098		0.20	0.098	mg/Kg	☼	08/14/20 17:27	08/17/20 13:51	1
4-Chloroaniline	<0.18		0.79	0.18	mg/Kg	☼	08/14/20 17:27	08/17/20 13:51	1
4-Chloro-3-methylphenol	<0.13		0.39	0.13	mg/Kg	☼	08/14/20 17:27	08/17/20 13:51	1
2-Chloronaphthalene	<0.043		0.20	0.043	mg/Kg	☼	08/14/20 17:27	08/17/20 13:51	1
2-Chlorophenol	<0.067		0.20	0.067	mg/Kg	☼	08/14/20 17:27	08/17/20 13:51	1
4-Chlorophenyl phenyl ether	<0.046		0.20	0.046	mg/Kg	☼	08/14/20 17:27	08/17/20 13:51	1
Chrysene	0.37		0.039	0.011	mg/Kg	☼	08/14/20 17:27	08/17/20 13:51	1
Dibenz(a,h)anthracene	0.061		0.039	0.0076	mg/Kg	☼	08/14/20 17:27	08/17/20 13:51	1
Dibenzofuran	<0.046		0.20	0.046	mg/Kg	☼	08/14/20 17:27	08/17/20 13:51	1
1,2-Dichlorobenzene	<0.047		0.20	0.047	mg/Kg	☼	08/14/20 17:27	08/17/20 13:51	1
1,3-Dichlorobenzene	<0.044		0.20	0.044	mg/Kg	☼	08/14/20 17:27	08/17/20 13:51	1
1,4-Dichlorobenzene	<0.050		0.20	0.050	mg/Kg	☼	08/14/20 17:27	08/17/20 13:51	1
3,3'-Dichlorobenzidine	<0.055		0.20	0.055	mg/Kg	☼	08/14/20 17:27	08/17/20 13:51	1
2,4-Dichlorophenol	<0.093		0.39	0.093	mg/Kg	☼	08/14/20 17:27	08/17/20 13:51	1
Diethyl phthalate	<0.066		0.20	0.066	mg/Kg	☼	08/14/20 17:27	08/17/20 13:51	1
2,4-Dimethylphenol	<0.15		0.39	0.15	mg/Kg	☼	08/14/20 17:27	08/17/20 13:51	1
Dimethyl phthalate	<0.051		0.20	0.051	mg/Kg	☼	08/14/20 17:27	08/17/20 13:51	1
Di-n-butyl phthalate	<0.060		0.20	0.060	mg/Kg	☼	08/14/20 17:27	08/17/20 13:51	1
4,6-Dinitro-2-methylphenol	<0.31		0.79	0.31	mg/Kg	☼	08/14/20 17:27	08/17/20 13:51	1
2,4-Dinitrophenol	<0.69		0.79	0.69	mg/Kg	☼	08/14/20 17:27	08/17/20 13:51	1
2,4-Dinitrotoluene	<0.062		0.20	0.062	mg/Kg	☼	08/14/20 17:27	08/17/20 13:51	1
2,6-Dinitrotoluene	<0.077		0.20	0.077	mg/Kg	☼	08/14/20 17:27	08/17/20 13:51	1
Di-n-octyl phthalate	<0.064		0.20	0.064	mg/Kg	☼	08/14/20 17:27	08/17/20 13:51	1
Fluoranthene	0.83		0.039	0.0072	mg/Kg	☼	08/14/20 17:27	08/17/20 13:51	1
Fluorene	<0.0055		0.039	0.0055	mg/Kg	☼	08/14/20 17:27	08/17/20 13:51	1
Hexachlorobenzene	<0.0091		0.079	0.0091	mg/Kg	☼	08/14/20 17:27	08/17/20 13:51	1
Hexachlorobutadiene	<0.061		0.20	0.061	mg/Kg	☼	08/14/20 17:27	08/17/20 13:51	1
Hexachlorocyclopentadiene	<0.22		0.79	0.22	mg/Kg	☼	08/14/20 17:27	08/17/20 13:51	1
Hexachloroethane	<0.059		0.20	0.059	mg/Kg	☼	08/14/20 17:27	08/17/20 13:51	1
Indeno[1,2,3-cd]pyrene	0.21		0.039	0.010	mg/Kg	☼	08/14/20 17:27	08/17/20 13:51	1
Isophorone	<0.044		0.20	0.044	mg/Kg	☼	08/14/20 17:27	08/17/20 13:51	1
2-Methylnaphthalene	<0.0072		0.079	0.0072	mg/Kg	☼	08/14/20 17:27	08/17/20 13:51	1
2-Methylphenol	<0.063		0.20	0.063	mg/Kg	☼	08/14/20 17:27	08/17/20 13:51	1
3 & 4 Methylphenol	<0.065		0.20	0.065	mg/Kg	☼	08/14/20 17:27	08/17/20 13:51	1
Naphthalene	<0.0060		0.039	0.0060	mg/Kg	☼	08/14/20 17:27	08/17/20 13:51	1
2-Nitroaniline	<0.053		0.20	0.053	mg/Kg	☼	08/14/20 17:27	08/17/20 13:51	1
3-Nitroaniline	<0.12		0.39	0.12	mg/Kg	☼	08/14/20 17:27	08/17/20 13:51	1
4-Nitroaniline	<0.16		0.39	0.16	mg/Kg	☼	08/14/20 17:27	08/17/20 13:51	1
Nitrobenzene	<0.0098		0.039	0.0098	mg/Kg	☼	08/14/20 17:27	08/17/20 13:51	1
2-Nitrophenol	<0.092		0.39	0.092	mg/Kg	☼	08/14/20 17:27	08/17/20 13:51	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185941-1

Client Sample ID: 2412V2-11-B01 (0-5)

Lab Sample ID: 500-185941-1

Date Collected: 08/04/20 12:30

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 84.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.37		0.79	0.37	mg/Kg	☼	08/14/20 17:27	08/17/20 13:51	1
N-Nitrosodi-n-propylamine	<0.048		0.079	0.048	mg/Kg	☼	08/14/20 17:27	08/17/20 13:51	1
N-Nitrosodiphenylamine	<0.046		0.20	0.046	mg/Kg	☼	08/14/20 17:27	08/17/20 13:51	1
2,2'-oxybis[1-chloropropane]	<0.045		0.20	0.045	mg/Kg	☼	08/14/20 17:27	08/17/20 13:51	1
Pentachlorophenol	<0.63		0.79	0.63	mg/Kg	☼	08/14/20 17:27	08/17/20 13:51	1
Phenanthrene	0.21		0.039	0.0054	mg/Kg	☼	08/14/20 17:27	08/17/20 13:51	1
Phenol	<0.087		0.20	0.087	mg/Kg	☼	08/14/20 17:27	08/17/20 13:51	1
Pyrene	0.55		0.039	0.0078	mg/Kg	☼	08/14/20 17:27	08/17/20 13:51	1
1,2,4-Trichlorobenzene	<0.042		0.20	0.042	mg/Kg	☼	08/14/20 17:27	08/17/20 13:51	1
2,4,5-Trichlorophenol	<0.089		0.39	0.089	mg/Kg	☼	08/14/20 17:27	08/17/20 13:51	1
2,4,6-Trichlorophenol	<0.13		0.39	0.13	mg/Kg	☼	08/14/20 17:27	08/17/20 13:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	77		43 - 145	08/14/20 17:27	08/17/20 13:51	1
2-Fluorophenol	68		31 - 166	08/14/20 17:27	08/17/20 13:51	1
Nitrobenzene-d5	59		37 - 147	08/14/20 17:27	08/17/20 13:51	1
Phenol-d5	58		30 - 153	08/14/20 17:27	08/17/20 13:51	1
Terphenyl-d14	85		42 - 157	08/14/20 17:27	08/17/20 13:51	1
2,4,6-Tribromophenol	69		31 - 143	08/14/20 17:27	08/17/20 13:51	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.34	J	1.1	0.22	mg/Kg	☼	08/11/20 07:05	08/12/20 01:22	1
Arsenic	5.6		0.55	0.19	mg/Kg	☼	08/11/20 07:05	08/12/20 01:22	1
Barium	120		0.55	0.063	mg/Kg	☼	08/11/20 07:05	08/12/20 01:22	1
Beryllium	0.57		0.22	0.052	mg/Kg	☼	08/11/20 07:05	08/12/20 01:22	1
Cadmium	0.36	B	0.11	0.020	mg/Kg	☼	08/11/20 07:05	08/12/20 01:22	1
Chromium	14		0.55	0.27	mg/Kg	☼	08/11/20 07:05	08/12/20 01:22	1
Cobalt	9.0		0.28	0.072	mg/Kg	☼	08/11/20 07:05	08/12/20 01:22	1
Copper	10		0.55	0.15	mg/Kg	☼	08/11/20 07:05	08/12/20 01:22	1
Iron	15000		11	5.8	mg/Kg	☼	08/11/20 07:05	08/12/20 01:22	1
Lead	55		0.28	0.13	mg/Kg	☼	08/11/20 07:05	08/12/20 01:22	1
Magnesium	5300		5.5	2.7	mg/Kg	☼	08/11/20 07:05	08/12/20 01:22	1
Calcium	9300		11	1.9	mg/Kg	☼	08/11/20 07:05	08/12/20 01:22	1
Manganese	1000		0.55	0.080	mg/Kg	☼	08/11/20 07:05	08/12/20 01:22	1
Nickel	20		0.55	0.16	mg/Kg	☼	08/11/20 07:05	08/12/20 01:22	1
Selenium	0.59		0.55	0.33	mg/Kg	☼	08/11/20 07:05	08/12/20 01:22	1
Silver	<0.071		0.28	0.071	mg/Kg	☼	08/11/20 07:05	08/12/20 01:22	1
Thallium	0.85		0.55	0.28	mg/Kg	☼	08/11/20 07:05	08/12/20 01:22	1
Vanadium	26		0.28	0.065	mg/Kg	☼	08/11/20 07:05	08/12/20 01:22	1
Zinc	89		1.1	0.49	mg/Kg	☼	08/11/20 07:05	08/12/20 01:22	1
Potassium	1400		28	9.8	mg/Kg	☼	08/11/20 07:05	08/12/20 01:22	1
Sodium	370		55	8.2	mg/Kg	☼	08/11/20 07:05	08/12/20 01:22	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/17/20 17:21	08/18/20 01:51	1
Barium	0.44	J	0.50	0.050	mg/L		08/17/20 17:21	08/18/20 01:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/17/20 17:21	08/18/20 01:51	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/17/20 17:21	08/18/20 01:51	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185941-1

Client Sample ID: 2412V2-11-B01 (0-5)

Lab Sample ID: 500-185941-1

Date Collected: 08/04/20 12:30

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 84.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	240		5.0	0.50	mg/L		08/17/20 17:21	08/18/20 01:51	1
Chromium	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:51	1
Cobalt	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:51	1
Copper	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:51	1
Iron	<0.20		0.40	0.20	mg/L		08/17/20 17:21	08/18/20 01:51	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/17/20 17:21	08/18/20 01:51	1
Magnesium	65		2.5	0.50	mg/L		08/17/20 17:21	08/18/20 01:51	1
Manganese	0.10		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:51	1
Nickel	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:51	1
Potassium	7.9		2.5	0.50	mg/L		08/17/20 17:21	08/18/20 01:51	1
Selenium	<0.020		0.050	0.020	mg/L		08/17/20 17:21	08/18/20 01:51	1
Silver	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:51	1
Vanadium	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:51	1
Zinc	0.084	J	0.50	0.020	mg/L		08/17/20 17:21	08/18/20 01:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		08/17/20 17:21	08/18/20 09:39	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		08/17/20 17:21	08/18/20 09:39	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/18/20 09:55	08/19/20 09:27	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	☼	08/11/20 14:25	08/12/20 07:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.16	J	0.26	0.13	mg/Kg	☼	08/14/20 15:05	08/17/20 14:57	1
pH	8.6		0.2	0.2	SU			08/06/20 21:00	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185941-1

Client Sample ID: 2412V2-11-B01 (5-7.5)

Lab Sample ID: 500-185941-2

Date Collected: 08/04/20 12:35

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 86.3

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	☼	08/05/20 08:30	08/12/20 16:48	1
Benzene	<0.00050		0.0020	0.00050	mg/Kg	☼	08/05/20 08:30	08/12/20 16:48	1
Bromodichloromethane	<0.00040		0.0020	0.00040	mg/Kg	☼	08/05/20 08:30	08/12/20 16:48	1
Bromoform	<0.00057		0.0020	0.00057	mg/Kg	☼	08/05/20 08:30	08/12/20 16:48	1
Bromomethane	<0.0019 *		0.0049	0.0019	mg/Kg	☼	08/05/20 08:30	08/12/20 16:48	1
2-Butanone (MEK)	<0.0022		0.0049	0.0022	mg/Kg	☼	08/05/20 08:30	08/12/20 16:48	1
Carbon disulfide	<0.0010		0.0049	0.0010	mg/Kg	☼	08/05/20 08:30	08/12/20 16:48	1
Carbon tetrachloride	<0.00057		0.0020	0.00057	mg/Kg	☼	08/05/20 08:30	08/12/20 16:48	1
Chlorobenzene	<0.00073		0.0020	0.00073	mg/Kg	☼	08/05/20 08:30	08/12/20 16:48	1
Chloroethane	<0.0015		0.0049	0.0015	mg/Kg	☼	08/05/20 08:30	08/12/20 16:48	1
Chloroform	<0.00068		0.0020	0.00068	mg/Kg	☼	08/05/20 08:30	08/12/20 16:48	1
Chloromethane	<0.0020 *		0.0049	0.0020	mg/Kg	☼	08/05/20 08:30	08/12/20 16:48	1
cis-1,2-Dichloroethene	<0.00055		0.0020	0.00055	mg/Kg	☼	08/05/20 08:30	08/12/20 16:48	1
cis-1,3-Dichloropropene	<0.00059		0.0020	0.00059	mg/Kg	☼	08/05/20 08:30	08/12/20 16:48	1
Dibromochloromethane	<0.00064		0.0020	0.00064	mg/Kg	☼	08/05/20 08:30	08/12/20 16:48	1
1,1-Dichloroethane	<0.00067		0.0020	0.00067	mg/Kg	☼	08/05/20 08:30	08/12/20 16:48	1
1,2-Dichloroethane	<0.0015		0.0049	0.0015	mg/Kg	☼	08/05/20 08:30	08/12/20 16:48	1
1,1-Dichloroethene	<0.00068		0.0020	0.00068	mg/Kg	☼	08/05/20 08:30	08/12/20 16:48	1
1,2-Dichloropropane	<0.00051		0.0020	0.00051	mg/Kg	☼	08/05/20 08:30	08/12/20 16:48	1
1,3-Dichloropropane, Total	<0.00069		0.0020	0.00069	mg/Kg	☼	08/05/20 08:30	08/12/20 16:48	1
Ethylbenzene	<0.00094		0.0020	0.00094	mg/Kg	☼	08/05/20 08:30	08/12/20 16:48	1
2-Hexanone	<0.0015		0.0049	0.0015	mg/Kg	☼	08/05/20 08:30	08/12/20 16:48	1
Methylene Chloride	<0.0019		0.0049	0.0019	mg/Kg	☼	08/05/20 08:30	08/12/20 16:48	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0049	0.0015	mg/Kg	☼	08/05/20 08:30	08/12/20 16:48	1
Methyl tert-butyl ether	<0.00058		0.0020	0.00058	mg/Kg	☼	08/05/20 08:30	08/12/20 16:48	1
Styrene	<0.00059		0.0020	0.00059	mg/Kg	☼	08/05/20 08:30	08/12/20 16:48	1
1,1,2,2-Tetrachloroethane	<0.00063		0.0020	0.00063	mg/Kg	☼	08/05/20 08:30	08/12/20 16:48	1
Tetrachloroethene	<0.00067		0.0020	0.00067	mg/Kg	☼	08/05/20 08:30	08/12/20 16:48	1
Toluene	<0.00050		0.0020	0.00050	mg/Kg	☼	08/05/20 08:30	08/12/20 16:48	1
trans-1,2-Dichloroethene	<0.00087		0.0020	0.00087	mg/Kg	☼	08/05/20 08:30	08/12/20 16:48	1
trans-1,3-Dichloropropene	<0.00069		0.0020	0.00069	mg/Kg	☼	08/05/20 08:30	08/12/20 16:48	1
1,1,1-Trichloroethane	<0.00066		0.0020	0.00066	mg/Kg	☼	08/05/20 08:30	08/12/20 16:48	1
1,1,2-Trichloroethane	<0.00084		0.0020	0.00084	mg/Kg	☼	08/05/20 08:30	08/12/20 16:48	1
Trichloroethene	<0.00066		0.0020	0.00066	mg/Kg	☼	08/05/20 08:30	08/12/20 16:48	1
Vinyl acetate	<0.0017		0.0049	0.0017	mg/Kg	☼	08/05/20 08:30	08/12/20 16:48	1
Vinyl chloride	<0.00087		0.0020	0.00087	mg/Kg	☼	08/05/20 08:30	08/12/20 16:48	1
Xylenes, Total	<0.00063		0.0039	0.00063	mg/Kg	☼	08/05/20 08:30	08/12/20 16:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		75 - 131	08/05/20 08:30	08/12/20 16:48	1
Dibromofluoromethane	91		75 - 126	08/05/20 08:30	08/12/20 16:48	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 134	08/05/20 08:30	08/12/20 16:48	1
Toluene-d8 (Surr)	91		75 - 124	08/05/20 08:30	08/12/20 16:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0069		0.038	0.0069	mg/Kg	☼	08/14/20 17:27	08/17/20 11:35	1
Acenaphthylene	<0.0050		0.038	0.0050	mg/Kg	☼	08/14/20 17:27	08/17/20 11:35	1
Anthracene	<0.0064		0.038	0.0064	mg/Kg	☼	08/14/20 17:27	08/17/20 11:35	1
Benzo[a]anthracene	0.041		0.038	0.0051	mg/Kg	☼	08/14/20 17:27	08/17/20 11:35	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185941-1

Client Sample ID: 2412V2-11-B01 (5-7.5)

Lab Sample ID: 500-185941-2

Date Collected: 08/04/20 12:35

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 86.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.064		0.038	0.0074	mg/Kg	☼	08/14/20 17:27	08/17/20 11:35	1
Benzo[b]fluoranthene	0.089		0.038	0.0082	mg/Kg	☼	08/14/20 17:27	08/17/20 11:35	1
Benzo[g,h,i]perylene	0.061		0.038	0.012	mg/Kg	☼	08/14/20 17:27	08/17/20 11:35	1
Benzo[k]fluoranthene	0.037	J	0.038	0.011	mg/Kg	☼	08/14/20 17:27	08/17/20 11:35	1
Bis(2-chloroethoxy)methane	<0.039		0.19	0.039	mg/Kg	☼	08/14/20 17:27	08/17/20 11:35	1
Bis(2-chloroethyl)ether	<0.057		0.19	0.057	mg/Kg	☼	08/14/20 17:27	08/17/20 11:35	1
Bis(2-ethylhexyl) phthalate	<0.070		0.19	0.070	mg/Kg	☼	08/14/20 17:27	08/17/20 11:35	1
4-Bromophenyl phenyl ether	<0.050		0.19	0.050	mg/Kg	☼	08/14/20 17:27	08/17/20 11:35	1
Butyl benzyl phthalate	<0.073		0.19	0.073	mg/Kg	☼	08/14/20 17:27	08/17/20 11:35	1
Carbazole	<0.095		0.19	0.095	mg/Kg	☼	08/14/20 17:27	08/17/20 11:35	1
4-Chloroaniline	<0.18		0.77	0.18	mg/Kg	☼	08/14/20 17:27	08/17/20 11:35	1
4-Chloro-3-methylphenol	<0.13		0.38	0.13	mg/Kg	☼	08/14/20 17:27	08/17/20 11:35	1
2-Chloronaphthalene	<0.042		0.19	0.042	mg/Kg	☼	08/14/20 17:27	08/17/20 11:35	1
2-Chlorophenol	<0.065		0.19	0.065	mg/Kg	☼	08/14/20 17:27	08/17/20 11:35	1
4-Chlorophenyl phenyl ether	<0.045		0.19	0.045	mg/Kg	☼	08/14/20 17:27	08/17/20 11:35	1
Chrysene	0.049		0.038	0.010	mg/Kg	☼	08/14/20 17:27	08/17/20 11:35	1
Dibenz(a,h)anthracene	<0.0074		0.038	0.0074	mg/Kg	☼	08/14/20 17:27	08/17/20 11:35	1
Dibenzofuran	<0.045		0.19	0.045	mg/Kg	☼	08/14/20 17:27	08/17/20 11:35	1
1,2-Dichlorobenzene	<0.046		0.19	0.046	mg/Kg	☼	08/14/20 17:27	08/17/20 11:35	1
1,3-Dichlorobenzene	<0.043		0.19	0.043	mg/Kg	☼	08/14/20 17:27	08/17/20 11:35	1
1,4-Dichlorobenzene	<0.049		0.19	0.049	mg/Kg	☼	08/14/20 17:27	08/17/20 11:35	1
3,3'-Dichlorobenzidine	<0.053		0.19	0.053	mg/Kg	☼	08/14/20 17:27	08/17/20 11:35	1
2,4-Dichlorophenol	<0.091		0.38	0.091	mg/Kg	☼	08/14/20 17:27	08/17/20 11:35	1
Diethyl phthalate	<0.065		0.19	0.065	mg/Kg	☼	08/14/20 17:27	08/17/20 11:35	1
2,4-Dimethylphenol	<0.14		0.38	0.14	mg/Kg	☼	08/14/20 17:27	08/17/20 11:35	1
Dimethyl phthalate	<0.050		0.19	0.050	mg/Kg	☼	08/14/20 17:27	08/17/20 11:35	1
Di-n-butyl phthalate	<0.058		0.19	0.058	mg/Kg	☼	08/14/20 17:27	08/17/20 11:35	1
4,6-Dinitro-2-methylphenol	<0.31		0.77	0.31	mg/Kg	☼	08/14/20 17:27	08/17/20 11:35	1
2,4-Dinitrophenol	<0.67		0.77	0.67	mg/Kg	☼	08/14/20 17:27	08/17/20 11:35	1
2,4-Dinitrotoluene	<0.061		0.19	0.061	mg/Kg	☼	08/14/20 17:27	08/17/20 11:35	1
2,6-Dinitrotoluene	<0.075		0.19	0.075	mg/Kg	☼	08/14/20 17:27	08/17/20 11:35	1
Di-n-octyl phthalate	<0.062		0.19	0.062	mg/Kg	☼	08/14/20 17:27	08/17/20 11:35	1
Fluoranthene	0.087		0.038	0.0071	mg/Kg	☼	08/14/20 17:27	08/17/20 11:35	1
Fluorene	<0.0054		0.038	0.0054	mg/Kg	☼	08/14/20 17:27	08/17/20 11:35	1
Hexachlorobenzene	<0.0089		0.077	0.0089	mg/Kg	☼	08/14/20 17:27	08/17/20 11:35	1
Hexachlorobutadiene	<0.060		0.19	0.060	mg/Kg	☼	08/14/20 17:27	08/17/20 11:35	1
Hexachlorocyclopentadiene	<0.22		0.77	0.22	mg/Kg	☼	08/14/20 17:27	08/17/20 11:35	1
Hexachloroethane	<0.058		0.19	0.058	mg/Kg	☼	08/14/20 17:27	08/17/20 11:35	1
Indeno[1,2,3-cd]pyrene	0.044		0.038	0.0099	mg/Kg	☼	08/14/20 17:27	08/17/20 11:35	1
Isophorone	<0.043		0.19	0.043	mg/Kg	☼	08/14/20 17:27	08/17/20 11:35	1
2-Methylnaphthalene	0.0072	J	0.077	0.0070	mg/Kg	☼	08/14/20 17:27	08/17/20 11:35	1
2-Methylphenol	<0.061		0.19	0.061	mg/Kg	☼	08/14/20 17:27	08/17/20 11:35	1
3 & 4 Methylphenol	<0.064		0.19	0.064	mg/Kg	☼	08/14/20 17:27	08/17/20 11:35	1
Naphthalene	0.0061	J	0.038	0.0059	mg/Kg	☼	08/14/20 17:27	08/17/20 11:35	1
2-Nitroaniline	<0.051		0.19	0.051	mg/Kg	☼	08/14/20 17:27	08/17/20 11:35	1
3-Nitroaniline	<0.12		0.38	0.12	mg/Kg	☼	08/14/20 17:27	08/17/20 11:35	1
4-Nitroaniline	<0.16		0.38	0.16	mg/Kg	☼	08/14/20 17:27	08/17/20 11:35	1
Nitrobenzene	<0.0095		0.038	0.0095	mg/Kg	☼	08/14/20 17:27	08/17/20 11:35	1
2-Nitrophenol	<0.090		0.38	0.090	mg/Kg	☼	08/14/20 17:27	08/17/20 11:35	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185941-1

Client Sample ID: 2412V2-11-B01 (5-7.5)

Lab Sample ID: 500-185941-2

Date Collected: 08/04/20 12:35

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 86.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.36		0.77	0.36	mg/Kg	☼	08/14/20 17:27	08/17/20 11:35	1
N-Nitrosodi-n-propylamine	<0.047		0.077	0.047	mg/Kg	☼	08/14/20 17:27	08/17/20 11:35	1
N-Nitrosodiphenylamine	<0.045		0.19	0.045	mg/Kg	☼	08/14/20 17:27	08/17/20 11:35	1
2,2'-oxybis[1-chloropropane]	<0.044		0.19	0.044	mg/Kg	☼	08/14/20 17:27	08/17/20 11:35	1
Pentachlorophenol	<0.61		0.77	0.61	mg/Kg	☼	08/14/20 17:27	08/17/20 11:35	1
Phenanthrene	0.018	J	0.038	0.0053	mg/Kg	☼	08/14/20 17:27	08/17/20 11:35	1
Phenol	<0.085		0.19	0.085	mg/Kg	☼	08/14/20 17:27	08/17/20 11:35	1
Pyrene	0.066		0.038	0.0076	mg/Kg	☼	08/14/20 17:27	08/17/20 11:35	1
1,2,4-Trichlorobenzene	<0.041		0.19	0.041	mg/Kg	☼	08/14/20 17:27	08/17/20 11:35	1
2,4,5-Trichlorophenol	<0.087		0.38	0.087	mg/Kg	☼	08/14/20 17:27	08/17/20 11:35	1
2,4,6-Trichlorophenol	<0.13		0.38	0.13	mg/Kg	☼	08/14/20 17:27	08/17/20 11:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	78		43 - 145	08/14/20 17:27	08/17/20 11:35	1
2-Fluorophenol	66		31 - 166	08/14/20 17:27	08/17/20 11:35	1
Nitrobenzene-d5	60		37 - 147	08/14/20 17:27	08/17/20 11:35	1
Phenol-d5	56		30 - 153	08/14/20 17:27	08/17/20 11:35	1
Terphenyl-d14	85		42 - 157	08/14/20 17:27	08/17/20 11:35	1
2,4,6-Tribromophenol	67		31 - 143	08/14/20 17:27	08/17/20 11:35	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	☼	08/11/20 07:05	08/12/20 01:26	1
Arsenic	5.8		0.54	0.19	mg/Kg	☼	08/11/20 07:05	08/12/20 01:26	1
Barium	100		0.54	0.062	mg/Kg	☼	08/11/20 07:05	08/12/20 01:26	1
Beryllium	0.41		0.22	0.051	mg/Kg	☼	08/11/20 07:05	08/12/20 01:26	1
Cadmium	0.19	B	0.11	0.020	mg/Kg	☼	08/11/20 07:05	08/12/20 01:26	1
Chromium	11		0.54	0.27	mg/Kg	☼	08/11/20 07:05	08/12/20 01:26	1
Cobalt	8.3		0.27	0.071	mg/Kg	☼	08/11/20 07:05	08/12/20 01:26	1
Copper	8.4		0.54	0.15	mg/Kg	☼	08/11/20 07:05	08/12/20 01:26	1
Iron	12000		11	5.7	mg/Kg	☼	08/11/20 07:05	08/12/20 01:26	1
Lead	19		0.27	0.13	mg/Kg	☼	08/11/20 07:05	08/12/20 01:26	1
Magnesium	7400		5.4	2.7	mg/Kg	☼	08/11/20 07:05	08/12/20 01:26	1
Calcium	26000		11	1.8	mg/Kg	☼	08/11/20 07:05	08/12/20 01:26	1
Manganese	820		0.54	0.079	mg/Kg	☼	08/11/20 07:05	08/12/20 01:26	1
Nickel	16		0.54	0.16	mg/Kg	☼	08/11/20 07:05	08/12/20 01:26	1
Selenium	0.34	J	0.54	0.32	mg/Kg	☼	08/11/20 07:05	08/12/20 01:26	1
Silver	<0.070		0.27	0.070	mg/Kg	☼	08/11/20 07:05	08/12/20 01:26	1
Thallium	0.68		0.54	0.27	mg/Kg	☼	08/11/20 07:05	08/12/20 01:26	1
Vanadium	21		0.27	0.064	mg/Kg	☼	08/11/20 07:05	08/12/20 01:26	1
Zinc	38		1.1	0.48	mg/Kg	☼	08/11/20 07:05	08/12/20 01:26	1
Potassium	1100		27	9.6	mg/Kg	☼	08/11/20 07:05	08/12/20 01:26	1
Sodium	280		54	8.1	mg/Kg	☼	08/11/20 07:05	08/12/20 01:26	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/17/20 17:21	08/18/20 01:56	1
Barium	0.41	J	0.50	0.050	mg/L		08/17/20 17:21	08/18/20 01:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/17/20 17:21	08/18/20 01:56	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/17/20 17:21	08/18/20 01:56	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185941-1

Client Sample ID: 2412V2-11-B01 (5-7.5)

Lab Sample ID: 500-185941-2

Date Collected: 08/04/20 12:35

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 86.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	310		5.0	0.50	mg/L		08/17/20 17:21	08/18/20 01:56	1
Chromium	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:56	1
Cobalt	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:56	1
Copper	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:56	1
Iron	<0.20		0.40	0.20	mg/L		08/17/20 17:21	08/18/20 01:56	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/17/20 17:21	08/18/20 01:56	1
Magnesium	140		2.5	0.50	mg/L		08/17/20 17:21	08/18/20 01:56	1
Manganese	0.099		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:56	1
Nickel	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:56	1
Potassium	5.7		2.5	0.50	mg/L		08/17/20 17:21	08/18/20 01:56	1
Selenium	<0.020		0.050	0.020	mg/L		08/17/20 17:21	08/18/20 01:56	1
Silver	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:56	1
Vanadium	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:56	1
Zinc	0.024 J		0.50	0.020	mg/L		08/17/20 17:21	08/18/20 01:56	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		08/17/20 17:21	08/18/20 09:45	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		08/17/20 17:21	08/18/20 09:45	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		08/18/20 09:55	08/19/20 09:38	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.019	0.0063	mg/Kg	☼	08/11/20 14:25	08/12/20 07:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.13		0.26	0.13	mg/Kg	☼	08/14/20 15:05	08/17/20 15:00	1
pH	8.8		0.2	0.2	SU			08/06/20 21:03	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185941-1

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
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC 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.

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.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185941-1

GC/MS VOA

Analysis Batch: 556446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185941-1	2412V2-11-B01 (0-5)	Total/NA	Solid	8260B	556455
500-185941-2	2412V2-11-B01 (5-7.5)	Total/NA	Solid	8260B	556455
MB 500-556446/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-556446/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-556446/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

Prep Batch: 556455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185941-1	2412V2-11-B01 (0-5)	Total/NA	Solid	5035	
500-185941-2	2412V2-11-B01 (5-7.5)	Total/NA	Solid	5035	

GC/MS Semi VOA

Prep Batch: 556949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185941-1	2412V2-11-B01 (0-5)	Total/NA	Solid	3541	
500-185941-2	2412V2-11-B01 (5-7.5)	Total/NA	Solid	3541	
MB 500-556949/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-556949/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 557105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185941-1	2412V2-11-B01 (0-5)	Total/NA	Solid	8270D	556949
500-185941-2	2412V2-11-B01 (5-7.5)	Total/NA	Solid	8270D	556949

Analysis Batch: 557147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-556949/1-A	Method Blank	Total/NA	Solid	8270D	556949
LCS 500-556949/2-A	Lab Control Sample	Total/NA	Solid	8270D	556949

Metals

Prep Batch: 556180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185941-1	2412V2-11-B01 (0-5)	Total/NA	Solid	3050B	
500-185941-2	2412V2-11-B01 (5-7.5)	Total/NA	Solid	3050B	
MB 500-556180/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-556180/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 556263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185941-1	2412V2-11-B01 (0-5)	Total/NA	Solid	7471B	
500-185941-2	2412V2-11-B01 (5-7.5)	Total/NA	Solid	7471B	
MB 500-556263/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-556263/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 556360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185941-1	2412V2-11-B01 (0-5)	Total/NA	Solid	6010B	556180
500-185941-2	2412V2-11-B01 (5-7.5)	Total/NA	Solid	6010B	556180
MB 500-556180/1-A	Method Blank	Total/NA	Solid	6010B	556180
LCS 500-556180/2-A	Lab Control Sample	Total/NA	Solid	6010B	556180

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185941-1

Metals

Analysis Batch: 556451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185941-1	2412V2-11-B01 (0-5)	Total/NA	Solid	7471B	556263
500-185941-2	2412V2-11-B01 (5-7.5)	Total/NA	Solid	7471B	556263
MB 500-556263/12-A	Method Blank	Total/NA	Solid	7471B	556263
LCS 500-556263/13-A	Lab Control Sample	Total/NA	Solid	7471B	556263

Leach Batch: 556919

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185941-1	2412V2-11-B01 (0-5)	TCLP	Solid	1311	
500-185941-2	2412V2-11-B01 (5-7.5)	TCLP	Solid	1311	
LB 500-556919/1-B	Method Blank	TCLP	Solid	1311	
LB 500-556919/1-C	Method Blank	TCLP	Solid	1311	
500-185941-1 MS	2412V2-11-B01 (0-5)	TCLP	Solid	1311	
500-185941-1 DU	2412V2-11-B01 (0-5)	TCLP	Solid	1311	

Prep Batch: 557245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185941-1	2412V2-11-B01 (0-5)	TCLP	Solid	3010A	556919
500-185941-2	2412V2-11-B01 (5-7.5)	TCLP	Solid	3010A	556919
LB 500-556919/1-B	Method Blank	TCLP	Solid	3010A	556919
LCS 500-557245/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 557303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185941-1	2412V2-11-B01 (0-5)	TCLP	Solid	6010B	557245
500-185941-2	2412V2-11-B01 (5-7.5)	TCLP	Solid	6010B	557245
LB 500-556919/1-B	Method Blank	TCLP	Solid	6010B	557245
LCS 500-557245/2-A	Lab Control Sample	Total/NA	Solid	6010B	557245

Prep Batch: 557385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185941-1	2412V2-11-B01 (0-5)	TCLP	Solid	7470A	556919
500-185941-2	2412V2-11-B01 (5-7.5)	TCLP	Solid	7470A	556919
LB 500-556919/1-C	Method Blank	TCLP	Solid	7470A	556919
MB 500-557385/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-557385/14-A	Lab Control Sample	Total/NA	Solid	7470A	
500-185941-1 MS	2412V2-11-B01 (0-5)	TCLP	Solid	7470A	556919
500-185941-1 DU	2412V2-11-B01 (0-5)	TCLP	Solid	7470A	556919

Analysis Batch: 557398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185941-1	2412V2-11-B01 (0-5)	TCLP	Solid	6020A	557245
500-185941-2	2412V2-11-B01 (5-7.5)	TCLP	Solid	6020A	557245
LB 500-556919/1-B	Method Blank	TCLP	Solid	6020A	557245
LCS 500-557245/2-A	Lab Control Sample	Total/NA	Solid	6020A	557245

Analysis Batch: 557609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185941-1	2412V2-11-B01 (0-5)	TCLP	Solid	7470A	557385
500-185941-2	2412V2-11-B01 (5-7.5)	TCLP	Solid	7470A	557385
LB 500-556919/1-C	Method Blank	TCLP	Solid	7470A	557385
MB 500-557385/12-A	Method Blank	Total/NA	Solid	7470A	557385

Eurofins TestAmerica, Chicago

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185941-1

Metals (Continued)

Analysis Batch: 557609 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-557385/14-A	Lab Control Sample	Total/NA	Solid	7470A	557385
500-185941-1 MS	2412V2-11-B01 (0-5)	TCLP	Solid	7470A	557385
500-185941-1 DU	2412V2-11-B01 (0-5)	TCLP	Solid	7470A	557385

General Chemistry

Analysis Batch: 555682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185941-1	2412V2-11-B01 (0-5)	Total/NA	Solid	Moisture	
500-185941-2	2412V2-11-B01 (5-7.5)	Total/NA	Solid	Moisture	

Analysis Batch: 555814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185941-1	2412V2-11-B01 (0-5)	Total/NA	Solid	9045D	
500-185941-2	2412V2-11-B01 (5-7.5)	Total/NA	Solid	9045D	
LCS 500-555814/2	Lab Control Sample	Total/NA	Solid	9045D	
LCS 500-555814/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Prep Batch: 556872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185941-1	2412V2-11-B01 (0-5)	Total/NA	Solid	9010C	
500-185941-2	2412V2-11-B01 (5-7.5)	Total/NA	Solid	9010C	
MB 500-556872/1-A	Method Blank	Total/NA	Solid	9010C	
HLCS 500-556872/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 500-556872/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 500-556872/4-A	Lab Control Sample	Total/NA	Solid	9010C	

Analysis Batch: 557430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185941-1	2412V2-11-B01 (0-5)	Total/NA	Solid	9012B	556872
500-185941-2	2412V2-11-B01 (5-7.5)	Total/NA	Solid	9012B	556872
MB 500-556872/1-A	Method Blank	Total/NA	Solid	9012B	556872
HLCS 500-556872/2-A	Lab Control Sample	Total/NA	Solid	9012B	556872
LCS 500-556872/3-A	Lab Control Sample	Total/NA	Solid	9012B	556872
LLCS 500-556872/4-A	Lab Control Sample	Total/NA	Solid	9012B	556872

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185941-1

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 (75-131)	DBFM (75-126)	DCA (70-134)	TOL (75-124)
500-185941-1	2412V2-11-B01 (0-5)	114	87	88	92
500-185941-2	2412V2-11-B01 (5-7.5)	112	91	89	91
LCS 500-556446/4	Lab Control Sample	108	87	81	91
LCS 500-556446/5	Lab Control Sample Dup	108	89	81	90
MB 500-556446/7	Method Blank	108	85	82	93

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 (43-145)	2FP (31-166)	NBZ (37-147)	PHL (30-153)	TPHL (42-157)	TBP (31-143)
500-185941-1	2412V2-11-B01 (0-5)	77	68	59	58	85	69
500-185941-2	2412V2-11-B01 (5-7.5)	78	66	60	56	85	67
LCS 500-556949/2-A	Lab Control Sample	92	85	76	71	95	104
MB 500-556949/1-A	Method Blank	90	91	76	74	102	95

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 - Hampshire - WO 074

Job ID: 500-185941-1

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

Lab Sample ID: MB 500-556446/7
Matrix: Solid
Analysis Batch: 556446

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.0087		0.020	0.0087	mg/Kg			08/12/20 12:33	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg			08/12/20 12:33	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg			08/12/20 12:33	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg			08/12/20 12:33	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg			08/12/20 12:33	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			08/12/20 12:33	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg			08/12/20 12:33	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg			08/12/20 12:33	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg			08/12/20 12:33	1
Chloroethane	<0.0015		0.0050	0.0015	mg/Kg			08/12/20 12:33	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg			08/12/20 12:33	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg			08/12/20 12:33	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg			08/12/20 12:33	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg			08/12/20 12:33	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg			08/12/20 12:33	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg			08/12/20 12:33	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg			08/12/20 12:33	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg			08/12/20 12:33	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			08/12/20 12:33	1
1,3-Dichloropropene, Total	<0.00070		0.0020	0.00070	mg/Kg			08/12/20 12:33	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg			08/12/20 12:33	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg			08/12/20 12:33	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg			08/12/20 12:33	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg			08/12/20 12:33	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg			08/12/20 12:33	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg			08/12/20 12:33	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg			08/12/20 12:33	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg			08/12/20 12:33	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg			08/12/20 12:33	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg			08/12/20 12:33	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg			08/12/20 12:33	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg			08/12/20 12:33	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg			08/12/20 12:33	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg			08/12/20 12:33	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg			08/12/20 12:33	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg			08/12/20 12:33	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg			08/12/20 12:33	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	108		75 - 131		08/12/20 12:33	1
Dibromofluoromethane	85		75 - 126		08/12/20 12:33	1
1,2-Dichloroethane-d4 (Surr)	82		70 - 134		08/12/20 12:33	1
Toluene-d8 (Surr)	93		75 - 124		08/12/20 12:33	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185941-1

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

Lab Sample ID: LCS 500-556446/4

Matrix: Solid

Analysis Batch: 556446

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	0.0453		mg/Kg		91	40 - 150
Benzene	0.0500	0.0554		mg/Kg		111	70 - 125
Bromodichloromethane	0.0500	0.0504		mg/Kg		101	67 - 129
Bromoform	0.0500	0.0458		mg/Kg		92	68 - 136
Bromomethane	0.0500	0.0359		mg/Kg		72	70 - 130
2-Butanone (MEK)	0.0500	0.0470		mg/Kg		94	47 - 138
Carbon disulfide	0.0500	0.0548		mg/Kg		110	70 - 129
Carbon tetrachloride	0.0500	0.0536		mg/Kg		107	75 - 125
Chlorobenzene	0.0500	0.0544		mg/Kg		109	50 - 150
Chloroethane	0.0500	0.0408		mg/Kg		82	75 - 125
Chloroform	0.0500	0.0522		mg/Kg		104	57 - 135
Chloromethane	0.0500	0.0684	*	mg/Kg		137	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0534		mg/Kg		107	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0500		mg/Kg		100	70 - 125
Dibromochloromethane	0.0500	0.0491		mg/Kg		98	69 - 125
1,1-Dichloroethane	0.0500	0.0610		mg/Kg		122	70 - 125
1,2-Dichloroethane	0.0500	0.0485		mg/Kg		97	70 - 130
1,1-Dichloroethene	0.0500	0.0553		mg/Kg		111	70 - 120
1,2-Dichloropropane	0.0500	0.0611		mg/Kg		122	70 - 125
Ethylbenzene	0.0500	0.0551		mg/Kg		110	61 - 136
2-Hexanone	0.0500	0.0510		mg/Kg		102	48 - 146
Methylene Chloride	0.0500	0.0512		mg/Kg		102	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0490		mg/Kg		98	50 - 148
Methyl tert-butyl ether	0.0500	0.0505		mg/Kg		101	50 - 140
Styrene	0.0500	0.0541		mg/Kg		108	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0543		mg/Kg		109	70 - 122
Tetrachloroethene	0.0500	0.0518		mg/Kg		104	70 - 124
Toluene	0.0500	0.0539		mg/Kg		108	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0553		mg/Kg		111	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0496		mg/Kg		99	70 - 125
1,1,1-Trichloroethane	0.0500	0.0540		mg/Kg		108	70 - 128
1,1,2-Trichloroethane	0.0500	0.0497		mg/Kg		99	70 - 125
Trichloroethene	0.0500	0.0547		mg/Kg		109	70 - 125
Vinyl acetate	0.0500	0.0578		mg/Kg		116	40 - 153
Vinyl chloride	0.0500	0.0585		mg/Kg		117	70 - 125
Xylenes, Total	0.100	0.109		mg/Kg		109	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	108		75 - 131
Dibromofluoromethane	87		75 - 126
1,2-Dichloroethane-d4 (Surr)	81		70 - 134
Toluene-d8 (Surr)	91		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185941-1

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

Lab Sample ID: LCSD 500-556446/5
Matrix: Solid
Analysis Batch: 556446

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	0.0461		mg/Kg		92	40 - 150	2	30
Benzene	0.0500	0.0473		mg/Kg		95	70 - 125	16	30
Bromodichloromethane	0.0500	0.0425		mg/Kg		85	67 - 129	17	30
Bromoform	0.0500	0.0371		mg/Kg		74	68 - 136	21	30
Bromomethane	0.0500	0.0322	*	mg/Kg		64	70 - 130	11	30
2-Butanone (MEK)	0.0500	0.0486		mg/Kg		97	47 - 138	3	30
Carbon disulfide	0.0500	0.0490		mg/Kg		98	70 - 129	11	30
Carbon tetrachloride	0.0500	0.0478		mg/Kg		96	75 - 125	11	30
Chlorobenzene	0.0500	0.0455		mg/Kg		91	50 - 150	18	30
Chloroethane	0.0500	0.0395		mg/Kg		79	75 - 125	3	30
Chloroform	0.0500	0.0461		mg/Kg		92	57 - 135	12	30
Chloromethane	0.0500	0.0605		mg/Kg		121	70 - 125	12	30
cis-1,2-Dichloroethene	0.0500	0.0484		mg/Kg		97	70 - 125	10	30
cis-1,3-Dichloropropene	0.0500	0.0409		mg/Kg		82	70 - 125	20	30
Dibromochloromethane	0.0500	0.0395		mg/Kg		79	69 - 125	22	30
1,1-Dichloroethane	0.0500	0.0537		mg/Kg		107	70 - 125	13	30
1,2-Dichloroethane	0.0500	0.0413		mg/Kg		83	70 - 130	16	30
1,1-Dichloroethene	0.0500	0.0492		mg/Kg		98	70 - 120	12	30
1,2-Dichloropropane	0.0500	0.0517		mg/Kg		103	70 - 125	17	30
Ethylbenzene	0.0500	0.0469		mg/Kg		94	61 - 136	16	30
2-Hexanone	0.0500	0.0517		mg/Kg		103	48 - 146	1	30
Methylene Chloride	0.0500	0.0460		mg/Kg		92	70 - 126	11	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0492		mg/Kg		98	50 - 148	0	30
Methyl tert-butyl ether	0.0500	0.0423		mg/Kg		85	50 - 140	18	30
Styrene	0.0500	0.0452		mg/Kg		90	70 - 125	18	30
1,1,2,2-Tetrachloroethane	0.0500	0.0434		mg/Kg		87	70 - 122	22	30
Tetrachloroethene	0.0500	0.0431		mg/Kg		86	70 - 124	18	30
Toluene	0.0500	0.0448		mg/Kg		90	70 - 125	19	30
trans-1,2-Dichloroethene	0.0500	0.0492		mg/Kg		98	70 - 125	12	30
trans-1,3-Dichloropropene	0.0500	0.0405		mg/Kg		81	70 - 125	20	30
1,1,1-Trichloroethane	0.0500	0.0471		mg/Kg		94	70 - 128	14	30
1,1,2-Trichloroethane	0.0500	0.0405		mg/Kg		81	70 - 125	20	30
Trichloroethene	0.0500	0.0460		mg/Kg		92	70 - 125	17	30
Vinyl acetate	0.0500	0.0525		mg/Kg		105	40 - 153	10	30
Vinyl chloride	0.0500	0.0519		mg/Kg		104	70 - 125	12	30
Xylenes, Total	0.100	0.0907		mg/Kg		91	53 - 147	18	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	108		75 - 131
Dibromofluoromethane	89		75 - 126
1,2-Dichloroethane-d4 (Surr)	81		70 - 134
Toluene-d8 (Surr)	90		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185941-1

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

Lab Sample ID: MB 500-556949/1-A
Matrix: Solid
Analysis Batch: 557147

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 556949

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0060		0.033	0.0060	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Acenaphthylene	<0.0044		0.033	0.0044	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Anthracene	<0.0056		0.033	0.0056	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Benzo[a]anthracene	<0.0045		0.033	0.0045	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Benzo[a]pyrene	<0.0064		0.033	0.0064	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Benzo[b]fluoranthene	<0.0072		0.033	0.0072	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Benzo[g,h,i]perylene	<0.011		0.033	0.011	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Benzo[k]fluoranthene	<0.0098		0.033	0.0098	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Bis(2-chloroethoxy)methane	<0.034		0.17	0.034	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Bis(2-chloroethyl)ether	<0.050		0.17	0.050	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Bis(2-ethylhexyl) phthalate	<0.061		0.17	0.061	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
4-Bromophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Butyl benzyl phthalate	<0.063		0.17	0.063	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Carbazole	<0.083		0.17	0.083	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
4-Chloroaniline	<0.16		0.67	0.16	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
4-Chloro-3-methylphenol	<0.11		0.33	0.11	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
2-Chloronaphthalene	<0.037		0.17	0.037	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
2-Chlorophenol	<0.057		0.17	0.057	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
4-Chlorophenyl phenyl ether	<0.039		0.17	0.039	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Chrysene	<0.0091		0.033	0.0091	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Dibenz(a,h)anthracene	<0.0064		0.033	0.0064	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Dibenzofuran	<0.039		0.17	0.039	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
1,2-Dichlorobenzene	<0.040		0.17	0.040	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
1,3-Dichlorobenzene	<0.037		0.17	0.037	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
1,4-Dichlorobenzene	<0.043		0.17	0.043	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
3,3'-Dichlorobenzidine	<0.047		0.17	0.047	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
2,4-Dichlorophenol	<0.079		0.33	0.079	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Diethyl phthalate	<0.056		0.17	0.056	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
2,4-Dimethylphenol	<0.13		0.33	0.13	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Dimethyl phthalate	<0.043		0.17	0.043	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Di-n-butyl phthalate	<0.051		0.17	0.051	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
4,6-Dinitro-2-methylphenol	<0.27		0.67	0.27	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
2,4-Dinitrophenol	<0.59		0.67	0.59	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
2,4-Dinitrotoluene	<0.053		0.17	0.053	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
2,6-Dinitrotoluene	<0.065		0.17	0.065	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Di-n-octyl phthalate	<0.054		0.17	0.054	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Fluoranthene	<0.0062		0.033	0.0062	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Fluorene	<0.0047		0.033	0.0047	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Hexachlorobenzene	<0.0077		0.067	0.0077	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Hexachlorobutadiene	<0.052		0.17	0.052	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Hexachlorocyclopentadiene	<0.19		0.67	0.19	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Hexachloroethane	<0.051		0.17	0.051	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Indeno[1,2,3-cd]pyrene	<0.0086		0.033	0.0086	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Isophorone	<0.037		0.17	0.037	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
2-Methylnaphthalene	<0.0061		0.067	0.0061	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
2-Methylphenol	<0.053		0.17	0.053	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
3 & 4 Methylphenol	<0.055		0.17	0.055	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Naphthalene	<0.0051		0.033	0.0051	mg/Kg		08/14/20 17:27	08/17/20 11:31	1

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185941-1

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

Lab Sample ID: MB 500-556949/1-A

Matrix: Solid

Analysis Batch: 557147

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 556949

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2-Nitroaniline	<0.045		0.17	0.045	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
3-Nitroaniline	<0.10		0.33	0.10	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
4-Nitroaniline	<0.14		0.33	0.14	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Nitrobenzene	<0.0083		0.033	0.0083	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
2-Nitrophenol	<0.079		0.33	0.079	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
4-Nitrophenol	<0.32		0.67	0.32	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
N-Nitrosodi-n-propylamine	<0.041		0.067	0.041	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
N-Nitrosodiphenylamine	<0.039		0.17	0.039	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
2,2'-oxybis[1-chloropropane]	<0.039		0.17	0.039	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Pentachlorophenol	<0.53		0.67	0.53	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Phenanthrene	<0.0046		0.033	0.0046	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Phenol	<0.074		0.17	0.074	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Pyrene	<0.0066		0.033	0.0066	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
1,2,4-Trichlorobenzene	<0.036		0.17	0.036	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
2,4,5-Trichlorophenol	<0.076		0.33	0.076	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
2,4,6-Trichlorophenol	<0.11		0.33	0.11	mg/Kg		08/14/20 17:27	08/17/20 11:31	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorobiphenyl	90		43 - 145	08/14/20 17:27	08/17/20 11:31	1
2-Fluorophenol	91		31 - 166	08/14/20 17:27	08/17/20 11:31	1
Nitrobenzene-d5	76		37 - 147	08/14/20 17:27	08/17/20 11:31	1
Phenol-d5	74		30 - 153	08/14/20 17:27	08/17/20 11:31	1
Terphenyl-d14	102		42 - 157	08/14/20 17:27	08/17/20 11:31	1
2,4,6-Tribromophenol	95		31 - 143	08/14/20 17:27	08/17/20 11:31	1

Lab Sample ID: LCS 500-556949/2-A

Matrix: Solid

Analysis Batch: 557147

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 556949

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1.33	1.04		mg/Kg		78	65 - 124
Acenaphthylene	1.33	1.13		mg/Kg		85	68 - 120
Anthracene	1.33	1.14		mg/Kg		86	70 - 114
Benzo[a]anthracene	1.33	1.20		mg/Kg		90	67 - 122
Benzo[a]pyrene	1.33	1.16		mg/Kg		87	65 - 133
Benzo[b]fluoranthene	1.33	1.25		mg/Kg		94	69 - 129
Benzo[g,h,i]perylene	1.33	1.31		mg/Kg		99	72 - 131
Benzo[k]fluoranthene	1.33	1.10		mg/Kg		82	68 - 127
Bis(2-chloroethoxy)methane	1.33	0.924		mg/Kg		69	60 - 112
Bis(2-chloroethyl)ether	1.33	0.826		mg/Kg		62	55 - 111
Bis(2-ethylhexyl) phthalate	1.33	1.12		mg/Kg		84	72 - 131
4-Bromophenyl phenyl ether	1.33	1.13		mg/Kg		85	68 - 118
Butyl benzyl phthalate	1.33	1.17		mg/Kg		88	71 - 129
Carbazole	1.33	1.08		mg/Kg		81	65 - 142
4-Chloroaniline	1.33	0.840		mg/Kg		63	30 - 150
4-Chloro-3-methylphenol	1.33	0.992		mg/Kg		74	65 - 122
2-Chloronaphthalene	1.33	1.09		mg/Kg		82	69 - 114
2-Chlorophenol	1.33	1.01		mg/Kg		76	64 - 110

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185941-1

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

Lab Sample ID: LCS 500-556949/2-A
Matrix: Solid
Analysis Batch: 557147

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556949

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorophenyl phenyl ether	1.33	1.20		mg/Kg		90	62 - 119
Chrysene	1.33	1.20		mg/Kg		90	63 - 120
Dibenz(a,h)anthracene	1.33	1.24		mg/Kg		93	64 - 131
Dibenzofuran	1.33	1.17		mg/Kg		88	66 - 115
1,2-Dichlorobenzene	1.33	1.06		mg/Kg		80	62 - 110
1,3-Dichlorobenzene	1.33	1.00		mg/Kg		75	65 - 124
1,4-Dichlorobenzene	1.33	1.02		mg/Kg		76	61 - 110
3,3'-Dichlorobenzidine	1.33	0.888		mg/Kg		67	35 - 128
2,4-Dichlorophenol	1.33	1.17		mg/Kg		88	58 - 120
Diethyl phthalate	1.33	1.10		mg/Kg		82	58 - 120
2,4-Dimethylphenol	1.33	1.01		mg/Kg		76	60 - 110
Dimethyl phthalate	1.33	1.24		mg/Kg		93	69 - 116
Di-n-butyl phthalate	1.33	1.09		mg/Kg		82	65 - 120
4,6-Dinitro-2-methylphenol	2.67	0.808		mg/Kg		30	10 - 110
2,4-Dinitrophenol	2.67	0.637	J	mg/Kg		24	10 - 100
2,4-Dinitrotoluene	1.33	1.34		mg/Kg		100	69 - 124
2,6-Dinitrotoluene	1.33	1.30		mg/Kg		97	70 - 123
Di-n-octyl phthalate	1.33	1.13		mg/Kg		85	68 - 134
Fluoranthene	1.33	1.20		mg/Kg		90	62 - 120
Fluorene	1.33	1.18		mg/Kg		89	62 - 120
Hexachlorobenzene	1.33	1.22		mg/Kg		92	63 - 124
Hexachlorobutadiene	1.33	1.31		mg/Kg		98	56 - 120
Hexachlorocyclopentadiene	1.33	1.02		mg/Kg		76	10 - 133
Hexachloroethane	1.33	0.915		mg/Kg		69	60 - 114
Indeno[1,2,3-cd]pyrene	1.33	1.35		mg/Kg		101	68 - 130
Isophorone	1.33	1.02		mg/Kg		77	55 - 110
2-Methylnaphthalene	1.33	1.22		mg/Kg		92	69 - 112
2-Methylphenol	1.33	1.14		mg/Kg		85	60 - 120
3 & 4 Methylphenol	1.33	1.01		mg/Kg		76	57 - 120
Naphthalene	1.33	1.13		mg/Kg		85	63 - 110
2-Nitroaniline	1.33	0.878		mg/Kg		66	57 - 124
3-Nitroaniline	1.33	0.679		mg/Kg		51	40 - 122
4-Nitroaniline	1.33	0.876		mg/Kg		66	60 - 160
Nitrobenzene	1.33	0.949		mg/Kg		71	60 - 116
2-Nitrophenol	1.33	1.15		mg/Kg		86	60 - 120
4-Nitrophenol	2.67	1.81		mg/Kg		68	30 - 122
N-Nitrosodi-n-propylamine	1.33	1.05		mg/Kg		78	56 - 118
N-Nitrosodiphenylamine	1.33	1.09		mg/Kg		82	65 - 112
2,2'-oxybis[1-chloropropane]	1.33	0.945		mg/Kg		71	40 - 124
Pentachlorophenol	2.67	1.26		mg/Kg		47	13 - 112
Phenanthrene	1.33	1.15		mg/Kg		86	62 - 120
Phenol	1.33	0.914		mg/Kg		69	56 - 122
Pyrene	1.33	1.23		mg/Kg		93	61 - 128
1,2,4-Trichlorobenzene	1.33	1.21		mg/Kg		91	66 - 117
2,4,5-Trichlorophenol	1.33	1.06		mg/Kg		80	50 - 120
2,4,6-Trichlorophenol	1.33	1.11		mg/Kg		83	57 - 120

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185941-1

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

Lab Sample ID: LCS 500-556949/2-A
Matrix: Solid
Analysis Batch: 557147

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556949

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	92		43 - 145
2-Fluorophenol	85		31 - 166
Nitrobenzene-d5	76		37 - 147
Phenol-d5	71		30 - 153
Terphenyl-d14	95		42 - 157
2,4,6-Tribromophenol	104		31 - 143

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-556180/1-A
Matrix: Solid
Analysis Batch: 556360

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 556180

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.39		2.0	0.39	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Arsenic	<0.34		1.0	0.34	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Barium	<0.11		1.0	0.11	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Beryllium	<0.093		0.40	0.093	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Cadmium	0.0441	J	0.20	0.036	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Chromium	<0.50		1.0	0.50	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Cobalt	<0.13		0.50	0.13	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Copper	<0.28		1.0	0.28	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Iron	<10		20	10	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Lead	<0.23		0.50	0.23	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Magnesium	<5.0		10	5.0	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Calcium	<3.4		20	3.4	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Manganese	<0.15		1.0	0.15	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Nickel	<0.29		1.0	0.29	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Selenium	<0.59		1.0	0.59	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Silver	<0.13		0.50	0.13	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Thallium	<0.50		1.0	0.50	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Vanadium	<0.12		0.50	0.12	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Zinc	<0.88		2.0	0.88	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Potassium	<18		50	18	mg/Kg		08/11/20 07:05	08/12/20 00:26	1
Sodium	<15		100	15	mg/Kg		08/11/20 07:05	08/12/20 00:26	1

Lab Sample ID: LCS 500-556180/2-A
Matrix: Solid
Analysis Batch: 556360

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556180

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Antimony	50.0	44.0		mg/Kg		88	80 - 120
Arsenic	10.0	9.48		mg/Kg		95	80 - 120
Barium	200	192		mg/Kg		96	80 - 120
Beryllium	5.00	4.72		mg/Kg		94	80 - 120
Cadmium	5.00	4.85		mg/Kg		97	80 - 120
Chromium	20.0	19.5		mg/Kg		98	80 - 120
Cobalt	50.0	49.4		mg/Kg		99	80 - 120
Copper	25.0	24.0		mg/Kg		96	80 - 120

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185941-1

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

Lab Sample ID: LCS 500-556180/2-A
Matrix: Solid
Analysis Batch: 556360

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556180

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	100	108		mg/Kg		108	80 - 120
Lead	10.0	9.76		mg/Kg		98	80 - 120
Magnesium	1000	921		mg/Kg		92	80 - 120
Calcium	1000	949		mg/Kg		95	80 - 120
Manganese	50.0	46.6		mg/Kg		93	80 - 120
Nickel	50.0	49.1		mg/Kg		98	80 - 120
Selenium	10.0	8.64		mg/Kg		86	80 - 120
Silver	5.00	4.67		mg/Kg		93	80 - 120
Thallium	10.0	10.1		mg/Kg		101	80 - 120
Vanadium	50.0	48.6		mg/Kg		97	80 - 120
Zinc	50.0	47.4		mg/Kg		95	80 - 120
Potassium	1000	974		mg/Kg		97	80 - 120
Sodium	1000	982		mg/Kg		98	80 - 120

Lab Sample ID: LCS 500-557245/2-A
Matrix: Solid
Analysis Batch: 557303

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 557245

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.109		mg/L		109	80 - 120
Barium	0.500	0.496	J	mg/L		99	80 - 120
Beryllium	0.0500	0.0498		mg/L		100	80 - 120
Cadmium	0.0500	0.0511		mg/L		102	80 - 120
Chromium	0.200	0.198		mg/L		99	80 - 120
Cobalt	0.500	0.522		mg/L		104	80 - 120
Copper	0.250	0.259		mg/L		103	80 - 120
Iron	1.00	1.02		mg/L		102	80 - 120
Lead	0.100	0.0961		mg/L		96	80 - 120
Magnesium	10.0	9.26		mg/L		93	80 - 120
Calcium	10.0	9.87		mg/L		99	80 - 120
Manganese	0.500	0.482		mg/L		96	80 - 120
Nickel	0.500	0.517		mg/L		103	80 - 120
Selenium	0.100	0.106		mg/L		106	80 - 120
Silver	0.0500	0.0512		mg/L		102	80 - 120
Vanadium	0.500	0.516		mg/L		103	80 - 120
Zinc	0.500	0.568		mg/L		114	80 - 120
Potassium	10.0	10.4		mg/L		104	80 - 120

Lab Sample ID: LB 500-556919/1-B
Matrix: Solid
Analysis Batch: 557303

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 557245

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/17/20 17:21	08/18/20 01:05	1
Barium	<0.050		0.50	0.050	mg/L		08/17/20 17:21	08/18/20 01:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/17/20 17:21	08/18/20 01:05	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/17/20 17:21	08/18/20 01:05	1
Chromium	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:05	1
Cobalt	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:05	1

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185941-1

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

Lab Sample ID: LB 500-556919/1-B
 Matrix: Solid
 Analysis Batch: 557303

Client Sample ID: Method Blank
 Prep Type: TCLP
 Prep Batch: 557245

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:05	1
Iron	<0.20		0.40	0.20	mg/L		08/17/20 17:21	08/18/20 01:05	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/17/20 17:21	08/18/20 01:05	1
Magnesium	<0.50		2.5	0.50	mg/L		08/17/20 17:21	08/18/20 01:05	1
Calcium	<0.50		5.0	0.50	mg/L		08/17/20 17:21	08/18/20 01:05	1
Manganese	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:05	1
Nickel	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:05	1
Selenium	<0.020		0.050	0.020	mg/L		08/17/20 17:21	08/18/20 01:05	1
Silver	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:05	1
Vanadium	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:05	1
Zinc	<0.020		0.50	0.020	mg/L		08/17/20 17:21	08/18/20 01:05	1
Potassium	<0.50		2.5	0.50	mg/L		08/17/20 17:21	08/18/20 01:05	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-557245/2-A
 Matrix: Solid
 Analysis Batch: 557398

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 557245

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.573	^	mg/L		115	80 - 120
Thallium	0.100	0.120	^	mg/L		120	80 - 120

Lab Sample ID: LB 500-556919/1-B
 Matrix: Solid
 Analysis Batch: 557398

Client Sample ID: Method Blank
 Prep Type: TCLP
 Prep Batch: 557245

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		08/17/20 17:21	08/18/20 09:20	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		08/17/20 17:21	08/18/20 09:20	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-557385/12-A
 Matrix: Solid
 Analysis Batch: 557609

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 557385

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/18/20 09:55	08/19/20 09:02	1

Lab Sample ID: LCS 500-557385/14-A
 Matrix: Solid
 Analysis Batch: 557609

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 557385

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00198		mg/L		99	80 - 120

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185941-1

Method: 7470A - TCLP Mercury (Continued)

Lab Sample ID: LB 500-556919/1-C
 Matrix: Solid
 Analysis Batch: 557609

Client Sample ID: Method Blank
 Prep Type: TCLP
 Prep Batch: 557385

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/18/20 09:55	08/19/20 09:04	1

Lab Sample ID: 500-185941-1 MS
 Matrix: Solid
 Analysis Batch: 557609

Client Sample ID: 2412V2-11-B01 (0-5)
 Prep Type: TCLP
 Prep Batch: 557385

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00020		0.00100	0.000979		mg/L		98	75 - 125

Lab Sample ID: 500-185941-1 DU
 Matrix: Solid
 Analysis Batch: 557609

Client Sample ID: 2412V2-11-B01 (0-5)
 Prep Type: TCLP
 Prep Batch: 557385

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 500-556263/12-A
 Matrix: Solid
 Analysis Batch: 556451

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 556263

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		08/11/20 14:25	08/12/20 07:11	1

Lab Sample ID: LCS 500-556263/13-A
 Matrix: Solid
 Analysis Batch: 556451

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 556263

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.170		mg/Kg		102	80 - 120

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 500-556872/1-A
 Matrix: Solid
 Analysis Batch: 557430

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 556872

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.12		0.24	0.12	mg/Kg		08/14/20 15:05	08/17/20 14:28	1

Lab Sample ID: HLCS 500-556872/2-A
 Matrix: Solid
 Analysis Batch: 557430

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 556872

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	12.0	13.1		mg/Kg		109	90 - 110

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185941-1

Method: 9012B - Cyanide, Total andor Amenable (Continued)

Lab Sample ID: LCS 500-556872/3-A
Matrix: Solid
Analysis Batch: 557430

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556872
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	2.40	2.32		mg/Kg		97	85 - 115

Lab Sample ID: LLCS 500-556872/4-A
Matrix: Solid
Analysis Batch: 557430

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556872
%Rec.

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	1.20	1.34		mg/Kg		111	75 - 125

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Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185941-1

Client Sample ID: 2412V2-11-B01 (0-5)

Lab Sample ID: 500-185941-1

Date Collected: 08/04/20 12:30

Matrix: Solid

Date Received: 08/04/20 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			556919	08/14/20 14:05	JLC	TAL CHI
TCLP	Prep	3010A			557245	08/17/20 17:21	BDE	TAL CHI
TCLP	Analysis	6010B		1	557303	08/18/20 01:51	EEN	TAL CHI
TCLP	Leach	1311			556919	08/14/20 14:05	JLC	TAL CHI
TCLP	Prep	3010A			557245	08/17/20 17:21	BDE	TAL CHI
TCLP	Analysis	6020A		1	557398	08/18/20 09:39	FXG	TAL CHI
TCLP	Leach	1311			556919	08/14/20 14:05	JLC	TAL CHI
TCLP	Prep	7470A			557385	08/18/20 09:55	MJG	TAL CHI
TCLP	Analysis	7470A		1	557609	08/19/20 09:27	MJG	TAL CHI
Total/NA	Analysis	9045D		1	555814	08/06/20 21:00	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	555682	08/06/20 12:25	LWN	TAL CHI

Client Sample ID: 2412V2-11-B01 (0-5)

Lab Sample ID: 500-185941-1

Date Collected: 08/04/20 12:30

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 84.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			556455	08/05/20 08:30	PMF	TAL CHI
Total/NA	Analysis	8260B		1	556446	08/12/20 16:23	PMF	TAL CHI
Total/NA	Prep	3541			556949	08/14/20 17:27	ACK	TAL CHI
Total/NA	Analysis	8270D		1	557105	08/17/20 13:51	AJD	TAL CHI
Total/NA	Prep	3050B			556180	08/11/20 07:05	LMN	TAL CHI
Total/NA	Analysis	6010B		1	556360	08/12/20 01:22	JEF	TAL CHI
Total/NA	Prep	7471B			556263	08/11/20 14:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	556451	08/12/20 07:55	MJG	TAL CHI
Total/NA	Prep	9010C			556872	08/14/20 15:05	MS	TAL CHI
Total/NA	Analysis	9012B		1	557430		MS	TAL CHI
					(Start)	08/17/20 14:57		
					(End)	08/17/20 15:00		

Client Sample ID: 2412V2-11-B01 (5-7.5)

Lab Sample ID: 500-185941-2

Date Collected: 08/04/20 12:35

Matrix: Solid

Date Received: 08/04/20 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			556919	08/14/20 14:05	JLC	TAL CHI
TCLP	Prep	3010A			557245	08/17/20 17:21	BDE	TAL CHI
TCLP	Analysis	6010B		1	557303	08/18/20 01:56	EEN	TAL CHI
TCLP	Leach	1311			556919	08/14/20 14:05	JLC	TAL CHI
TCLP	Prep	3010A			557245	08/17/20 17:21	BDE	TAL CHI
TCLP	Analysis	6020A		1	557398	08/18/20 09:45	FXG	TAL CHI
TCLP	Leach	1311			556919	08/14/20 14:05	JLC	TAL CHI
TCLP	Prep	7470A			557385	08/18/20 09:55	MJG	TAL CHI
TCLP	Analysis	7470A		1	557609	08/19/20 09:38	MJG	TAL CHI
Total/NA	Analysis	9045D		1	555814	08/06/20 21:03	SMO	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185941-1

Client Sample ID: 2412V2-11-B01 (5-7.5)

Lab Sample ID: 500-185941-2

Date Collected: 08/04/20 12:35

Matrix: Solid

Date Received: 08/04/20 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	555682	08/06/20 12:25	LWN	TAL CHI

Client Sample ID: 2412V2-11-B01 (5-7.5)

Lab Sample ID: 500-185941-2

Date Collected: 08/04/20 12:35

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 86.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			556455	08/05/20 08:30	PMF	TAL CHI
Total/NA	Analysis	8260B		1	556446	08/12/20 16:48	PMF	TAL CHI
Total/NA	Prep	3541			556949	08/14/20 17:27	ACK	TAL CHI
Total/NA	Analysis	8270D		1	557105	08/17/20 11:35	AJD	TAL CHI
Total/NA	Prep	3050B			556180	08/11/20 07:05	LMN	TAL CHI
Total/NA	Analysis	6010B		1	556360	08/12/20 01:26	JEF	TAL CHI
Total/NA	Prep	7471B			556263	08/11/20 14:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	556451	08/12/20 07:56	MJG	TAL CHI
Total/NA	Prep	9010C			556872	08/14/20 15:05	MS	TAL CHI
Total/NA	Analysis	9012B		1	557430		MS	TAL CHI
					(Start)	08/17/20 15:00		
					(End)	08/17/20 15:04		

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185941-1

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-21

- 1
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TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 604
Phone: 708.534.5200 Fax: 708.534.5200



500-185941 COC

Report To (optional) _____
Contact: Matt Weiss
Company: Terracon
Address: 192 Elkwing 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 #: 500-185941

Chain of Custody Number: _____

Page 1 of 1

Temperature °C of Cooler: 58, 43, 59, 44

Client		Client Project #		Preservative		Parameter		Matrix		Matrix		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			Comments		
Project Location/State		Lab PM		Date		Time		# of Containers		Matrix					
Terracon		1120701P													
Hempshire, IL															
D. Giff															
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	Voc's	Succ's	Total 23	Inorganics	pH	TCP 23	Inorganics	SPL 23	Inorganics
1		241202-11-B01 (0.5)	8/4/20	1230	6	SO	X	X	X	X	X	X	X	X	
2		241202-11-B01 (5.7.5)	8/4/20	1235	6	SO	X	X	X	X	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> Terracon	Date: <u>8/4/20</u>	Time: <u>1600</u>	Received By: <u>[Signature]</u> TA	Date: <u>8/4/20</u>	Time: <u>1600</u>
Relinquished By: <u>[Signature]</u> TA	Date: <u>8/4/20</u>	Time: <u>1740</u>	Received By: <u>[Signature]</u> TA-CHI	Date: <u>8/5/20</u>	Time: <u>0730</u>
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	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: * STANDARD TURN
* NO ALUMINUM
* WILL SPL 23 Inorganics per Terracon Instructions

Lab Comments: _____

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-185941-1

Login Number: 185941

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.8,4.3,5.9,4.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 557-IL Route 72 at State Street/Getzelman Rd Office Phone Number, if available: _____

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

S State St (Southbound) IDOT STA 200+00 to 201+40 (ISGS Site 2412V2-12)

City: Hampshire State: IL Zip Code: 60140

County: Kane Township: Hampshire

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

Latitude: 42.08832 Longitude: - 88.53013

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

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

Estimated Volume of debris (cu. Yd.): 26

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

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

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

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

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

Soil from borings B01 and B02 were sampled adjacent to ISGS Site No 2412V2-12.
See Exhibit 2 and Table 15 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 J185942-1.
Also see Preliminary Site Investigation Report prepared by Terracon. CCDD/USFO facility in MSA County.

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

I, Matt Weiss (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51 a] 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

Printed Name: _____

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Date:

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

Comparison of Detected Constituents to MACs-PTB 174-009;Work Order:074A
Preliminary Site Investigation
FAP 557-IL Route 72 at State St./Getzelman Road (PESA #2412V2-12)
Hampshire, Kane Co, IL
Terracon Project No. 11207011P
Page 1 of 4

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2412V2-12-B01 (0-5)	2412V2-12-B01 (5-7.5)
				CCDD	Sample Depth (feet)	(0-5)	(5-7.5)
		mg/kg	Date Collected	8/4/2020	8/4/2020		
		pH 6.25-9.0					
Semivolatile Organic Analytical Parameters							
Anthracene	mg/kg	0.25	0.4	12000		<0.0060	0.013
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.014	0.084
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.019	0.095
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.019	0.11
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.017	0.067
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		<0.011	0.032
Chrysene	mg/kg	1.2	2.7	88		0.017	0.087
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		<0.0069	0.017
Fluoranthene	mg/kg	2.7	4.1	3100		0.027	0.16
Fluorene	mg/kg	0.1	0.18	560		<0.0050	<0.0053
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.016	0.05
Phenanthrene	mg/kg	1.3	2.5	210		0.013	0.05
Pyrene	mg/kg	1.9	3.0	2300		0.025	0.13
Inorganic Analytical Parameters							
Arsenic	mg/kg	---	13	11.3		4.3	5.4
Barium	mg/kg	---	110	1500		33	74
Cadmium	mg/kg	---	0.6	5.2		0.1	0.21
Chromium, total	mg/kg	---	16.2	21		10	14
Lead	mg/kg	---	36	107		8.5	23
Mercury	mg/kg	---	0.06	0.89		0.021	0.068
Selenium	mg/kg	---	0.48	1.3		<0.33	<0.33
Silver	mg/kg	---	0.55	4.4		<0.072	<0.072
Antimony	mg/kg	---	4.0	5		0.3	0.47
Beryllium	mg/kg	---	0.59	22		0.48	0.58
Calcium	mg/kg	---	9,300	---		18000	16000
Cobalt	mg/kg	---	8.9	20		6.8	8.4
Copper	mg/kg	---	19.6	2900		9	13
Cyanide	mg/kg	---	0.51	---		<0.13	<0.17
Iron	mg/kg	---	15,900	15000		12000	15000
Magnesium	mg/kg	---	4,820	325000		9500	10000
Manganese	mg/kg	---	636	630		310	530
Nickel	mg/kg	---	18	100		16	19
Potassium	mg/kg	---	1,268	---		1200	1500
Sodium	mg/kg	---	130	---		280	340
Thallium	mg/kg	---	0.32	2.6		<0.28	0.38
Vanadium	mg/kg	---	25.2	550		20	25
Zinc	mg/kg	---	95	5100		37	110
pH			6.25	9		8.7	8.4

Preliminary Site Investigation

FAP 557-IL Route 72 at State St./Getzelman Road (PESA #2412V2-12)

Hampshire, Kane Co, IL

Terracon Project No. 11207011P

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2412V2-12-B01 (0-5)	2412V2-12-B01 (5-7.5)
				CCDD	Sample Depth (feet)	(0-5)	(5-7.5)
		mg/kg	Date Collected	8/4/2020	8/4/2020		
		pH 6.25-9.0					
Inorganic Analytical Parameters (SPLP)							
Antimony,SPLP	mg/L	---	---	---		--	--
Arsenic,SPLP	mg/L	---	---	---		--	--
Barium,SPLP	mg/L	---	---	---		--	--
Beryllium,SPLP	mg/L	---	---	---		--	--
Cadmium,SPLP	mg/L	---	---	---		--	--
Calcium,SPLP	mg/L	---	---	---		--	--
Chromium,SPLP	mg/L	---	---	---		--	--
Cobalt,SPLP	mg/L	---	---	---		--	--
Copper,SPLP	mg/L	---	---	---		--	--
Iron,SPLP	mg/L	---	---	---		--	--
Lead,SPLP	mg/L	---	---	---		--	--
Magnesium,SPLP	mg/L	---	---	---		--	--
Manganese,SPLP	mg/L	---	---	---		0.72	0.61
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	---	---	---		0.35	0.47
Cadmium,TCLP	mg/L	---	---	---		<0.0020	<0.0020
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	---	---	---		430	340
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	---	---	---		120	150
Manganese,TCLP	mg/L	---	---	---		0.7	0.32
Nickel,TCLP	mg/L	---	---	---		<0.010	<0.010
Potassium,TCLP	mg/L	---	---	---		5.5	8.1
Sodium,TCLP	mg/L	---	---	---		--	--
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.010	<0.010
Zinc,TCLP	mg/L	---	---	---		<0.020	0.13

Comparison of Detected Constituents to MACs-PTB 174-009;Work Order:074A
Preliminary Site Investigation
FAP 557-IL Route 72 at State St./Getzelman Road (PESA #2412V2-12)
Hampshire, Kane Co, IL
Terracon Project No. 11207011P
Page 3 of 4

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2412V2-12-B02 (0-5)	2412V2-12-B02 (5-7.5)
				CCDD	Sample Depth (feet)	(0-5)	(5-7.5)
		mg/kg	Date Collected	8/4/2020	8/4/2020		
		pH 6.25-9.0					
Semivolatile Organic Analytical Parameters							
Anthracene	mg/kg	0.25	0.4	12000		<0.0062	<0.0059
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.0097	0.03
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.012	0.037
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.014	0.043
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		<0.012	0.026
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		<0.011	0.014
Chrysene	mg/kg	1.2	2.7	88		<0.010	0.033
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		<0.0072	0.0085
Fluoranthene	mg/kg	2.7	4.1	3100		0.015	0.06
Fluorene	mg/kg	0.1	0.18	560		<0.0052	<0.0050
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		<0.0097	0.022
Phenanthrene	mg/kg	1.3	2.5	210		0.0074	0.023
Pyrene	mg/kg	1.9	3.0	2300		0.014	0.053
Inorganic Analytical Parameters							
Arsenic	mg/kg	---	13	11.3		5.9	3.6
Barium	mg/kg	---	110	1500		47	25
Cadmium	mg/kg	---	0.6	5.2		0.048	0.1
Chromium, total	mg/kg	---	16.2	21		15	10
Lead	mg/kg	---	36	107		11	7
Mercury	mg/kg	---	0.06	0.89		0.022	<0.0058
Selenium	mg/kg	---	0.48	1.3		<0.31	<0.30
Silver	mg/kg	---	0.55	4.4		<0.068	<0.065
Antimony	mg/kg	---	4.0	5		0.31	0.26
Beryllium	mg/kg	---	0.59	22		0.66	0.47
Calcium	mg/kg	---	9,300	---		1700	15000
Cobalt	mg/kg	---	8.9	20		8.2	5.2
Copper	mg/kg	---	19.6	2900		12	10
Cyanide	mg/kg	---	0.51	---		<0.17	<0.14
Iron	mg/kg	---	15,900	15000		17000	24000
Magnesium	mg/kg	---	4,820	325000		2400	71000
Manganese	mg/kg	---	636	630		250	250
Nickel	mg/kg	---	18	100		19	14
Potassium	mg/kg	---	1,268	---		1200	1500
Sodium	mg/kg	---	130	---		74	160
Thallium	mg/kg	---	0.32	2.6		0.44	<0.25
Vanadium	mg/kg	---	25.2	550		25	14
Zinc	mg/kg	---	95	5100		43	37
pH			6.25	9		7.6	8.7

Preliminary Site Investigation

FAP 557-IL Route 72 at State St./Getzelman Road (PESA #2412V2-12)

Hampshire, Kane Co, IL

Terracon Project No. 11207011P

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2412V2-12-B02 (0-5)	2412V2-12-B02 (5-7.5)
				CCDD	Sample Depth (feet)	(0-5)	(5-7.5)
		mg/kg	Date Collected	8/4/2020	8/4/2020		
		pH 6.25-9.0					
Inorganic Analytical Parameters (SPLP)							
Antimony,SPLP	mg/L	---	---	---		--	--
Arsenic,SPLP	mg/L	---	---	---		--	--
Barium,SPLP	mg/L	---	---	---		--	--
Beryllium,SPLP	mg/L	---	---	---		--	--
Cadmium,SPLP	mg/L	---	---	---		--	--
Calcium,SPLP	mg/L	---	---	---		--	--
Chromium,SPLP	mg/L	---	---	---		--	--
Cobalt,SPLP	mg/L	---	---	---		--	--
Copper,SPLP	mg/L	---	---	---		--	--
Iron,SPLP	mg/L	---	---	---		--	--
Lead,SPLP	mg/L	---	---	---		--	<0.0075
Magnesium,SPLP	mg/L	---	---	---		--	--
Manganese,SPLP	mg/L	---	---	---		--	0.059
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	---	---	---		0.23	0.2
Cadmium,TCLP	mg/L	---	---	---		<0.0020	0.0024
Chromium,TCLP	mg/L	---	---	---		<0.010	<0.010
Lead,TCLP	mg/L	---	---	---		<0.0075	0.01
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	---	---	---		48	1400
Cobalt,TCLP	mg/L	---	---	---		<0.010	0.019
Copper,TCLP	mg/L	---	---	---		<0.010	<0.010
Cyanide,TCLP	mg/L	---	---	---		--	--
Iron,TCLP	mg/L	---	---	---		<0.20	<0.20
Magnesium,TCLP	mg/L	---	---	---		12	230
Manganese,TCLP	mg/L	---	---	---		0.037	3.2
Nickel,TCLP	mg/L	---	---	---		<0.010	0.026
Potassium,TCLP	mg/L	---	---	---		4	0.89
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	0.023

ANALYTICAL REPORT

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

Laboratory Job ID: 500-185942-1
Client Project/Site: IDOT - Hampshire - WO 074

For:

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

Attn: Mr. Matthew Weiss



Authorized for release by:
8/19/2020 3:57:18 PM

Richard Wright, Senior Project Manager
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LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 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 - Hampshire - WO 074

Job ID: 500-185942-1

Job ID: 500-185942-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-185942-1

Receipt

The samples were received on 8/4/2020 5:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 4.3° C, 4.4° C, 5.8° C and 5.9° C.

GC/MS VOA

Method 8260B: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for 556446 recovered outside control limits for the following analytes: Bromomethane and Chloromethane. These analytes were not detected in the associated samples; therefore, the data have been reported. 2412V2-12-B01 (0-5) (500-185942-1), 2412V2-12-B01 (5-7.5) (500-185942-2), 2412V2-12-B02 (0-5) (500-185942-3), 2412V2-12-B02 (5-7.5) (500-185942-4), 2412V2-12-B03 (0-5) (500-185942-5), 2412V2-12-B03 (5-7.5) (500-185942-7), 2412V2-12-B04 (0-5) (500-185942-8) and 2412V2-12-B04 (5-7.5) (500-185942-9)

Method 8260B: The laboratory control sample (LCS) for 556601 recovered outside control limits for Chloroethane. This poor purging analyte was biased low in the LCS and was not detected in the associated samples; therefore, the data have been reported. 2412V2-12-B03 (0-5) Dup (500-185942-6)

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 6010B: The following samples were diluted due to the abundance of non-target analytes: 2412V2-12-B01 (0-5) (500-185942-1), 2412V2-12-B01 (5-7.5) (500-185942-2) and 2412V2-12-B02 (0-5) (500-185942-3). Elevated reporting limits (RLs) are provided.

Method 6020A: The continuing calibration verification (CCV) associated with batch 500-557398 recovered above the upper control limit for Antimony and Thallium. The samples associated with this CCV were non-detects for the affected analytes; 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.

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 - Hampshire - WO 074

Job ID: 500-185942-1

Client Sample ID: 2412V2-12-B01 (0-5)

Lab Sample ID: 500-185942-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.014	J	0.036	0.0048	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.019	J	0.036	0.0069	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.019	J	0.036	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.017	J	0.036	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.017	J	0.036	0.0098	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.027	J	0.036	0.0066	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.016	J	0.036	0.0093	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.013	J	0.036	0.0050	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.025	J	0.036	0.0071	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.30	J B	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.3		0.56	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	33		0.56	0.063	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.48		0.22	0.052	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.10	J B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	10	B	0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.8		0.56	0.15	mg/Kg	2	☼	6010B	Total/NA
Copper	9.0		0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	12000		11	5.8	mg/Kg	1	☼	6010B	Total/NA
Lead	8.5		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	9500		5.6	2.8	mg/Kg	1	☼	6010B	Total/NA
Calcium	18000	B	11	1.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	310		0.56	0.081	mg/Kg	1	☼	6010B	Total/NA
Nickel	16		0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.28	0.066	mg/Kg	1	☼	6010B	Total/NA
Zinc	37		1.1	0.49	mg/Kg	1	☼	6010B	Total/NA
Potassium	1200		28	9.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	280		56	8.2	mg/Kg	1	☼	6010B	Total/NA
Barium	0.35	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	430		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	120		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.70		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	5.5		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.72		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.021		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: 2412V2-12-B01 (5-7.5)

Lab Sample ID: 500-185942-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.013	J	0.038	0.0063	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.084		0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.095		0.038	0.0073	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.11		0.038	0.0082	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.067		0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.032	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.087		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.017	J	0.038	0.0073	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.16		0.038	0.0070	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.050		0.038	0.0098	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.050		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.13		0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

Client Sample ID: 2412V2-12-B01 (5-7.5) (Continued)

Lab Sample ID: 500-185942-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.47	J B	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.4		0.56	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	74		0.56	0.063	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.58		0.22	0.052	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.21	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	14	B	0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.4		0.56	0.15	mg/Kg	2	☼	6010B	Total/NA
Copper	13		0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	15000		11	5.8	mg/Kg	1	☼	6010B	Total/NA
Lead	23		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	10000		5.6	2.8	mg/Kg	1	☼	6010B	Total/NA
Calcium	16000	B	11	1.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	530		0.56	0.081	mg/Kg	1	☼	6010B	Total/NA
Nickel	19		0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.38	J	0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	25		0.28	0.066	mg/Kg	1	☼	6010B	Total/NA
Zinc	110		1.1	0.49	mg/Kg	1	☼	6010B	Total/NA
Potassium	1500		28	9.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	340		56	8.2	mg/Kg	1	☼	6010B	Total/NA
Barium	0.47	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	340		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	150		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.32		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	8.1		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.13	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.61		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.068		0.019	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	8.4		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2412V2-12-B02 (0-5)

Lab Sample ID: 500-185942-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0097	J	0.037	0.0050	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.012	J	0.037	0.0072	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.014	J	0.037	0.0081	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.015	J	0.037	0.0069	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0074	J	0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.014	J	0.037	0.0074	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.31	J B	1.1	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.9		0.53	0.18	mg/Kg	1	☼	6010B	Total/NA
Barium	47		0.53	0.060	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.66		0.21	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.048	J B	0.11	0.019	mg/Kg	1	☼	6010B	Total/NA
Chromium	15	B	0.53	0.26	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.2		0.53	0.14	mg/Kg	2	☼	6010B	Total/NA
Copper	12		0.53	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	17000		11	5.5	mg/Kg	1	☼	6010B	Total/NA
Lead	11		0.26	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2400		5.3	2.6	mg/Kg	1	☼	6010B	Total/NA
Calcium	1700	B	11	1.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	250		0.53	0.076	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

Client Sample ID: 2412V2-12-B02 (0-5) (Continued)

Lab Sample ID: 500-185942-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	19		0.53	0.15	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.44	J	0.53	0.26	mg/Kg	1	☼	6010B	Total/NA
Vanadium	25		0.26	0.062	mg/Kg	1	☼	6010B	Total/NA
Zinc	43		1.1	0.46	mg/Kg	1	☼	6010B	Total/NA
Potassium	1200		26	9.3	mg/Kg	1	☼	6010B	Total/NA
Sodium	74		53	7.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.23	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	48		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	12		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.037		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	4.0		2.5	0.50	mg/L	1		6010B	TCLP
Mercury	0.022		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: 2412V2-12-B02 (5-7.5)

Lab Sample ID: 500-185942-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.030	J	0.035	0.0048	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.037		0.035	0.0068	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.043		0.035	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.026	J	0.035	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.014	J	0.035	0.010	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.033	J	0.035	0.0097	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.0085	J	0.035	0.0068	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.060		0.035	0.0066	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.022	J	0.035	0.0092	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.023	J	0.035	0.0049	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.053		0.035	0.0070	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.26	J B	1.0	0.20	mg/Kg	1	☼	6010B	Total/NA
Arsenic	3.6		0.51	0.17	mg/Kg	1	☼	6010B	Total/NA
Barium	25		0.51	0.058	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.47		0.20	0.047	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.10	B	0.10	0.018	mg/Kg	1	☼	6010B	Total/NA
Chromium	10	B	0.51	0.25	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.2		0.25	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	10		0.51	0.14	mg/Kg	1	☼	6010B	Total/NA
Iron	24000	B	100	53	mg/Kg	10	☼	6010B	Total/NA
Lead	7.0		0.25	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	71000	B	51	25	mg/Kg	10	☼	6010B	Total/NA
Calcium	150000	B	100	17	mg/Kg	10	☼	6010B	Total/NA
Manganese	250		0.51	0.074	mg/Kg	1	☼	6010B	Total/NA
Nickel	14		0.51	0.15	mg/Kg	1	☼	6010B	Total/NA
Vanadium	14		0.25	0.060	mg/Kg	1	☼	6010B	Total/NA
Zinc	37		1.0	0.45	mg/Kg	1	☼	6010B	Total/NA
Potassium	1500		25	9.0	mg/Kg	1	☼	6010B	Total/NA
Sodium	160		51	7.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.20	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0024	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	1400		50	5.0	mg/L	10		6010B	TCLP
Cobalt	0.019	J	0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.010		0.0075	0.0075	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

Client Sample ID: 2412V2-12-B02 (5-7.5) (Continued)

Lab Sample ID: 500-185942-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	230		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	3.2		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.026		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.89	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	0.059		0.025	0.010	mg/L	1		6010B	SPLP East
pH	8.7		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2412V2-12-B03 (0-5)

Lab Sample ID: 500-185942-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.018	J	0.032	0.0044	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.023	J	0.032	0.0063	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.036		0.032	0.0070	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.014	J	0.032	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.015	J	0.032	0.0096	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.021	J	0.032	0.0089	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.036		0.032	0.0061	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.014	J	0.032	0.0085	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.015	J	0.032	0.0045	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.029	J	0.032	0.0065	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.53	J B	0.99	0.19	mg/Kg	1	☼	6010B	Total/NA
Arsenic	2.8		0.50	0.17	mg/Kg	1	☼	6010B	Total/NA
Barium	9.9		0.50	0.057	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.23		0.20	0.046	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.095	J B	0.099	0.018	mg/Kg	1	☼	6010B	Total/NA
Chromium	6.4	B	0.50	0.25	mg/Kg	1	☼	6010B	Total/NA
Cobalt	2.7		0.25	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	41		0.50	0.14	mg/Kg	1	☼	6010B	Total/NA
Iron	9400	B	99	52	mg/Kg	10	☼	6010B	Total/NA
Lead	8.2		0.25	0.11	mg/Kg	1	☼	6010B	Total/NA
Magnesium	71000	B	50	25	mg/Kg	10	☼	6010B	Total/NA
Calcium	140000	B	99	17	mg/Kg	10	☼	6010B	Total/NA
Manganese	240		0.50	0.072	mg/Kg	1	☼	6010B	Total/NA
Nickel	7.9		0.50	0.14	mg/Kg	1	☼	6010B	Total/NA
Vanadium	10		0.25	0.059	mg/Kg	1	☼	6010B	Total/NA
Zinc	21		0.99	0.44	mg/Kg	1	☼	6010B	Total/NA
Potassium	560		25	8.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	210		50	7.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.22	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	540		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	67		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.2		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.5	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.039		0.025	0.010	mg/L	1		6010B	SPLP East
pH	9.1		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2412V2-12-B03 (0-5) Dup

Lab Sample ID: 500-185942-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.013	J	0.034	0.0062	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.10		0.034	0.0058	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

Client Sample ID: 2412V2-12-B03 (0-5) Dup (Continued)

Lab Sample ID: 500-185942-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.46		0.034	0.0046	mg/Kg	1	*	8270D	Total/NA
Benzo[a]pyrene	0.39		0.034	0.0067	mg/Kg	1	*	8270D	Total/NA
Benzo[b]fluoranthene	0.69		0.034	0.0074	mg/Kg	1	*	8270D	Total/NA
Benzo[g,h,i]perylene	0.13		0.034	0.011	mg/Kg	1	*	8270D	Total/NA
Benzo[k]fluoranthene	0.27		0.034	0.010	mg/Kg	1	*	8270D	Total/NA
Chrysene	0.43		0.034	0.0094	mg/Kg	1	*	8270D	Total/NA
Dibenz(a,h)anthracene	0.036		0.034	0.0067	mg/Kg	1	*	8270D	Total/NA
Fluoranthene	1.3		0.034	0.0064	mg/Kg	1	*	8270D	Total/NA
Fluorene	0.017	J	0.034	0.0048	mg/Kg	1	*	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.12		0.034	0.0089	mg/Kg	1	*	8270D	Total/NA
Phenanthrene	0.55		0.034	0.0048	mg/Kg	1	*	8270D	Total/NA
Pyrene	0.96		0.034	0.0068	mg/Kg	1	*	8270D	Total/NA
Antimony	0.43	J B	0.98	0.19	mg/Kg	1	*	6010B	Total/NA
Arsenic	4.0		0.49	0.17	mg/Kg	1	*	6010B	Total/NA
Barium	11		0.49	0.056	mg/Kg	1	*	6010B	Total/NA
Beryllium	0.20		0.20	0.046	mg/Kg	1	*	6010B	Total/NA
Cadmium	0.099	B	0.098	0.018	mg/Kg	1	*	6010B	Total/NA
Chromium	4.4	B	0.49	0.24	mg/Kg	1	*	6010B	Total/NA
Cobalt	2.4		0.24	0.064	mg/Kg	1	*	6010B	Total/NA
Copper	7.9		0.49	0.14	mg/Kg	1	*	6010B	Total/NA
Iron	9700	B	98	51	mg/Kg	10	*	6010B	Total/NA
Lead	14		0.24	0.11	mg/Kg	1	*	6010B	Total/NA
Magnesium	81000	B	49	24	mg/Kg	10	*	6010B	Total/NA
Calcium	150000	B	98	17	mg/Kg	10	*	6010B	Total/NA
Manganese	240		0.49	0.071	mg/Kg	1	*	6010B	Total/NA
Nickel	6.6		0.49	0.14	mg/Kg	1	*	6010B	Total/NA
Vanadium	11		0.24	0.058	mg/Kg	1	*	6010B	Total/NA
Zinc	21		0.98	0.43	mg/Kg	1	*	6010B	Total/NA
Potassium	560		24	8.7	mg/Kg	1	*	6010B	Total/NA
Sodium	250		49	7.3	mg/Kg	1	*	6010B	Total/NA
Barium	0.20	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	540		5.0	0.50	mg/L	1		6010B	TCLP
Lead	0.0096		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	72		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.4		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.5	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.022	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.030		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.0070	J	0.016	0.0053	mg/Kg	1	*	7471B	Total/NA
pH	9.1		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2412V2-12-B03 (5-7.5)

Lab Sample ID: 500-185942-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.026	J	0.037	0.0050	mg/Kg	1	*	8270D	Total/NA
Benzo[a]pyrene	0.037		0.037	0.0073	mg/Kg	1	*	8270D	Total/NA
Benzo[b]fluoranthene	0.040		0.037	0.0081	mg/Kg	1	*	8270D	Total/NA
Benzo[g,h,i]perylene	0.026	J	0.037	0.012	mg/Kg	1	*	8270D	Total/NA
Benzo[k]fluoranthene	0.013	J	0.037	0.011	mg/Kg	1	*	8270D	Total/NA
Chrysene	0.031	J	0.037	0.010	mg/Kg	1	*	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

Client Sample ID: 2412V2-12-B03 (5-7.5) (Continued)

Lab Sample ID: 500-185942-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dibenz(a,h)anthracene	0.0085	J	0.037	0.0072	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.055		0.037	0.0070	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.023	J	0.037	0.0097	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.022	J	0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.046		0.037	0.0074	mg/Kg	1	☼	8270D	Total/NA
Arsenic	4.1		0.54	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	30		0.54	0.062	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.38		0.22	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.092	J B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	9.4	B	0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	4.5		0.27	0.071	mg/Kg	1	☼	6010B	Total/NA
Copper	9.5		0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	10000		11	5.7	mg/Kg	1	☼	6010B	Total/NA
Lead	7.2		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	5200		5.4	2.7	mg/Kg	1	☼	6010B	Total/NA
Calcium	7200	B	11	1.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	200		0.54	0.079	mg/Kg	1	☼	6010B	Total/NA
Nickel	12		0.54	0.16	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.27	J	0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	16		0.27	0.064	mg/Kg	1	☼	6010B	Total/NA
Zinc	35		1.1	0.48	mg/Kg	1	☼	6010B	Total/NA
Potassium	1000		27	9.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	140		54	8.1	mg/Kg	1	☼	6010B	Total/NA
Barium	0.35	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	170		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	87		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.46		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.0		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.021	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.54		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.013	J	0.019	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	8.5		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2412V2-12-B04 (0-5)

Lab Sample ID: 500-185942-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.018	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.027	J	0.038	0.0073	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.027	J	0.038	0.0082	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.023	J	0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.014	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.019	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.033	J	0.038	0.0070	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.020	J	0.038	0.0098	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.010	J	0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.030	J	0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.42	J B	1.1	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.3		0.54	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	48		0.54	0.062	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.63		0.22	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.070	J B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

Client Sample ID: 2412V2-12-B04 (0-5) (Continued)

Lab Sample ID: 500-185942-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	14	B	0.54	0.27	mg/Kg	1	*	6010B	Total/NA
Cobalt	8.1		0.27	0.071	mg/Kg	1	*	6010B	Total/NA
Copper	13		0.54	0.15	mg/Kg	1	*	6010B	Total/NA
Iron	15000		11	5.7	mg/Kg	1	*	6010B	Total/NA
Lead	23		0.27	0.13	mg/Kg	1	*	6010B	Total/NA
Magnesium	2100		5.4	2.7	mg/Kg	1	*	6010B	Total/NA
Calcium	1100	B	11	1.8	mg/Kg	1	*	6010B	Total/NA
Manganese	440		0.54	0.079	mg/Kg	1	*	6010B	Total/NA
Nickel	18		0.54	0.16	mg/Kg	1	*	6010B	Total/NA
Selenium	0.39	J	0.54	0.32	mg/Kg	1	*	6010B	Total/NA
Thallium	0.38	J	0.54	0.27	mg/Kg	1	*	6010B	Total/NA
Vanadium	26		0.27	0.064	mg/Kg	1	*	6010B	Total/NA
Zinc	45		1.1	0.48	mg/Kg	1	*	6010B	Total/NA
Potassium	1500		27	9.6	mg/Kg	1	*	6010B	Total/NA
Sodium	1300		54	8.0	mg/Kg	1	*	6010B	Total/NA
Barium	0.17	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	25		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	7.3		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.016	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	15		2.5	0.50	mg/L	1		6010B	TCLP
Mercury	0.016	J	0.019	0.0064	mg/Kg	1	*	7471B	Total/NA
pH	8.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2412V2-12-B04 (5-7.5)

Lab Sample ID: 500-185942-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.56	J B	1.1	0.21	mg/Kg	1	*	6010B	Total/NA
Arsenic	6.9		0.53	0.18	mg/Kg	1	*	6010B	Total/NA
Barium	24		0.53	0.060	mg/Kg	1	*	6010B	Total/NA
Beryllium	0.41		0.21	0.049	mg/Kg	1	*	6010B	Total/NA
Cadmium	0.12	B	0.11	0.019	mg/Kg	1	*	6010B	Total/NA
Chromium	8.8	B	0.53	0.26	mg/Kg	1	*	6010B	Total/NA
Cobalt	5.0		0.26	0.069	mg/Kg	1	*	6010B	Total/NA
Copper	78		0.53	0.15	mg/Kg	1	*	6010B	Total/NA
Iron	13000	B	110	55	mg/Kg	10	*	6010B	Total/NA
Lead	6.9		0.26	0.12	mg/Kg	1	*	6010B	Total/NA
Magnesium	45000	B	53	26	mg/Kg	10	*	6010B	Total/NA
Calcium	91000	B	110	18	mg/Kg	10	*	6010B	Total/NA
Manganese	260		0.53	0.077	mg/Kg	1	*	6010B	Total/NA
Nickel	13		0.53	0.15	mg/Kg	1	*	6010B	Total/NA
Vanadium	13		0.26	0.063	mg/Kg	1	*	6010B	Total/NA
Zinc	29		1.1	0.47	mg/Kg	1	*	6010B	Total/NA
Potassium	1400		26	9.4	mg/Kg	1	*	6010B	Total/NA
Sodium	280		53	7.8	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	1200		50	5.0	mg/L	10		6010B	TCLP
Cobalt	0.022	J	0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.011		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	260		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	2.9		0.025	0.010	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

Client Sample ID: 2412V2-12-B04 (5-7.5) (Continued)

Lab Sample ID: 500-185942-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	0.035		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.6		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.053	J B	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.014		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.11		0.025	0.010	mg/L	1		6010B	SPLP East
pH	9.1		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-185942-1	2412V2-12-B01 (0-5)	Solid	08/04/20 12:00	08/04/20 17:40	
500-185942-2	2412V2-12-B01 (5-7.5)	Solid	08/04/20 12:05	08/04/20 17:40	
500-185942-3	2412V2-12-B02 (0-5)	Solid	08/04/20 09:05	08/04/20 17:40	
500-185942-4	2412V2-12-B02 (5-7.5)	Solid	08/04/20 09:10	08/04/20 17:40	
500-185942-5	2412V2-12-B03 (0-5)	Solid	08/04/20 08:30	08/04/20 17:40	
500-185942-6	2412V2-12-B03 (0-5) Dup	Solid	08/04/20 08:35	08/04/20 17:40	
500-185942-7	2412V2-12-B03 (5-7.5)	Solid	08/04/20 08:40	08/04/20 17:40	
500-185942-8	2412V2-12-B04 (0-5)	Solid	08/04/20 08:00	08/04/20 17:40	
500-185942-9	2412V2-12-B04 (5-7.5)	Solid	08/04/20 08:05	08/04/20 17:40	

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

Client Sample ID: 2412V2-12-B01 (0-5)

Lab Sample ID: 500-185942-1

Date Collected: 08/04/20 12:00

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 89.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0063		0.015	0.0063	mg/Kg	☼	08/05/20 08:30	08/12/20 17:14	1
Benzene	<0.00037		0.0015	0.00037	mg/Kg	☼	08/05/20 08:30	08/12/20 17:14	1
Bromodichloromethane	<0.00030		0.0015	0.00030	mg/Kg	☼	08/05/20 08:30	08/12/20 17:14	1
Bromoform	<0.00043		0.0015	0.00043	mg/Kg	☼	08/05/20 08:30	08/12/20 17:14	1
Bromomethane	<0.0014 *		0.0036	0.0014	mg/Kg	☼	08/05/20 08:30	08/12/20 17:14	1
2-Butanone (MEK)	<0.0016		0.0036	0.0016	mg/Kg	☼	08/05/20 08:30	08/12/20 17:14	1
Carbon disulfide	<0.00076		0.0036	0.00076	mg/Kg	☼	08/05/20 08:30	08/12/20 17:14	1
Carbon tetrachloride	<0.00042		0.0015	0.00042	mg/Kg	☼	08/05/20 08:30	08/12/20 17:14	1
Chlorobenzene	<0.00054		0.0015	0.00054	mg/Kg	☼	08/05/20 08:30	08/12/20 17:14	1
Chloroethane	<0.0011		0.0036	0.0011	mg/Kg	☼	08/05/20 08:30	08/12/20 17:14	1
Chloroform	<0.00051		0.0015	0.00051	mg/Kg	☼	08/05/20 08:30	08/12/20 17:14	1
Chloromethane	<0.0015 *		0.0036	0.0015	mg/Kg	☼	08/05/20 08:30	08/12/20 17:14	1
cis-1,2-Dichloroethene	<0.00041		0.0015	0.00041	mg/Kg	☼	08/05/20 08:30	08/12/20 17:14	1
cis-1,3-Dichloropropene	<0.00044		0.0015	0.00044	mg/Kg	☼	08/05/20 08:30	08/12/20 17:14	1
Dibromochloromethane	<0.00048		0.0015	0.00048	mg/Kg	☼	08/05/20 08:30	08/12/20 17:14	1
1,1-Dichloroethane	<0.00050		0.0015	0.00050	mg/Kg	☼	08/05/20 08:30	08/12/20 17:14	1
1,2-Dichloroethane	<0.0011		0.0036	0.0011	mg/Kg	☼	08/05/20 08:30	08/12/20 17:14	1
1,1-Dichloroethene	<0.00050		0.0015	0.00050	mg/Kg	☼	08/05/20 08:30	08/12/20 17:14	1
1,2-Dichloropropene	<0.00038		0.0015	0.00038	mg/Kg	☼	08/05/20 08:30	08/12/20 17:14	1
1,3-Dichloropropene, Total	<0.00051		0.0015	0.00051	mg/Kg	☼	08/05/20 08:30	08/12/20 17:14	1
Ethylbenzene	<0.00070		0.0015	0.00070	mg/Kg	☼	08/05/20 08:30	08/12/20 17:14	1
2-Hexanone	<0.0011		0.0036	0.0011	mg/Kg	☼	08/05/20 08:30	08/12/20 17:14	1
Methylene Chloride	<0.0014		0.0036	0.0014	mg/Kg	☼	08/05/20 08:30	08/12/20 17:14	1
4-Methyl-2-pentanone (MIBK)	<0.0011		0.0036	0.0011	mg/Kg	☼	08/05/20 08:30	08/12/20 17:14	1
Methyl tert-butyl ether	<0.00043		0.0015	0.00043	mg/Kg	☼	08/05/20 08:30	08/12/20 17:14	1
Styrene	<0.00044		0.0015	0.00044	mg/Kg	☼	08/05/20 08:30	08/12/20 17:14	1
1,1,2,2-Tetrachloroethane	<0.00047		0.0015	0.00047	mg/Kg	☼	08/05/20 08:30	08/12/20 17:14	1
Tetrachloroethene	<0.00050		0.0015	0.00050	mg/Kg	☼	08/05/20 08:30	08/12/20 17:14	1
Toluene	<0.00037		0.0015	0.00037	mg/Kg	☼	08/05/20 08:30	08/12/20 17:14	1
trans-1,2-Dichloroethene	<0.00064		0.0015	0.00064	mg/Kg	☼	08/05/20 08:30	08/12/20 17:14	1
trans-1,3-Dichloropropene	<0.00051		0.0015	0.00051	mg/Kg	☼	08/05/20 08:30	08/12/20 17:14	1
1,1,1-Trichloroethane	<0.00049		0.0015	0.00049	mg/Kg	☼	08/05/20 08:30	08/12/20 17:14	1
1,1,2-Trichloroethane	<0.00062		0.0015	0.00062	mg/Kg	☼	08/05/20 08:30	08/12/20 17:14	1
Trichloroethene	<0.00049		0.0015	0.00049	mg/Kg	☼	08/05/20 08:30	08/12/20 17:14	1
Vinyl acetate	<0.0013		0.0036	0.0013	mg/Kg	☼	08/05/20 08:30	08/12/20 17:14	1
Vinyl chloride	<0.00064		0.0015	0.00064	mg/Kg	☼	08/05/20 08:30	08/12/20 17:14	1
Xylenes, Total	<0.00047		0.0029	0.00047	mg/Kg	☼	08/05/20 08:30	08/12/20 17:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		75 - 131	08/05/20 08:30	08/12/20 17:14	1
Dibromofluoromethane	90		75 - 126	08/05/20 08:30	08/12/20 17:14	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 134	08/05/20 08:30	08/12/20 17:14	1
Toluene-d8 (Surr)	91		75 - 124	08/05/20 08:30	08/12/20 17:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0064		0.036	0.0064	mg/Kg	☼	08/14/20 17:27	08/17/20 13:20	1
Acenaphthylene	<0.0047		0.036	0.0047	mg/Kg	☼	08/14/20 17:27	08/17/20 13:20	1
Anthracene	<0.0060		0.036	0.0060	mg/Kg	☼	08/14/20 17:27	08/17/20 13:20	1
Benzo[a]anthracene	0.014 J		0.036	0.0048	mg/Kg	☼	08/14/20 17:27	08/17/20 13:20	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

Client Sample ID: 2412V2-12-B01 (0-5)

Lab Sample ID: 500-185942-1

Date Collected: 08/04/20 12:00

Matrix: Solid

Date Received: 08/04/20 17:40

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	0.019	J	0.036	0.0069	mg/Kg	☼	08/14/20 17:27	08/17/20 13:20	1
Benzo[b]fluoranthene	0.019	J	0.036	0.0077	mg/Kg	☼	08/14/20 17:27	08/17/20 13:20	1
Benzo[g,h,i]perylene	0.017	J	0.036	0.012	mg/Kg	☼	08/14/20 17:27	08/17/20 13:20	1
Benzo[k]fluoranthene	<0.011		0.036	0.011	mg/Kg	☼	08/14/20 17:27	08/17/20 13:20	1
Bis(2-chloroethoxy)methane	<0.037		0.18	0.037	mg/Kg	☼	08/14/20 17:27	08/17/20 13:20	1
Bis(2-chloroethyl)ether	<0.054		0.18	0.054	mg/Kg	☼	08/14/20 17:27	08/17/20 13:20	1
Bis(2-ethylhexyl) phthalate	<0.065		0.18	0.065	mg/Kg	☼	08/14/20 17:27	08/17/20 13:20	1
4-Bromophenyl phenyl ether	<0.047		0.18	0.047	mg/Kg	☼	08/14/20 17:27	08/17/20 13:20	1
Butyl benzyl phthalate	<0.068		0.18	0.068	mg/Kg	☼	08/14/20 17:27	08/17/20 13:20	1
Carbazole	<0.089		0.18	0.089	mg/Kg	☼	08/14/20 17:27	08/17/20 13:20	1
4-Chloroaniline	<0.17		0.72	0.17	mg/Kg	☼	08/14/20 17:27	08/17/20 13:20	1
4-Chloro-3-methylphenol	<0.12		0.36	0.12	mg/Kg	☼	08/14/20 17:27	08/17/20 13:20	1
2-Chloronaphthalene	<0.040		0.18	0.040	mg/Kg	☼	08/14/20 17:27	08/17/20 13:20	1
2-Chlorophenol	<0.061		0.18	0.061	mg/Kg	☼	08/14/20 17:27	08/17/20 13:20	1
4-Chlorophenyl phenyl ether	<0.042		0.18	0.042	mg/Kg	☼	08/14/20 17:27	08/17/20 13:20	1
Chrysene	0.017	J	0.036	0.0098	mg/Kg	☼	08/14/20 17:27	08/17/20 13:20	1
Dibenz(a,h)anthracene	<0.0069		0.036	0.0069	mg/Kg	☼	08/14/20 17:27	08/17/20 13:20	1
Dibenzofuran	<0.042		0.18	0.042	mg/Kg	☼	08/14/20 17:27	08/17/20 13:20	1
1,2-Dichlorobenzene	<0.043		0.18	0.043	mg/Kg	☼	08/14/20 17:27	08/17/20 13:20	1
1,3-Dichlorobenzene	<0.040		0.18	0.040	mg/Kg	☼	08/14/20 17:27	08/17/20 13:20	1
1,4-Dichlorobenzene	<0.046		0.18	0.046	mg/Kg	☼	08/14/20 17:27	08/17/20 13:20	1
3,3'-Dichlorobenzidine	<0.050		0.18	0.050	mg/Kg	☼	08/14/20 17:27	08/17/20 13:20	1
2,4-Dichlorophenol	<0.085		0.36	0.085	mg/Kg	☼	08/14/20 17:27	08/17/20 13:20	1
Diethyl phthalate	<0.061		0.18	0.061	mg/Kg	☼	08/14/20 17:27	08/17/20 13:20	1
2,4-Dimethylphenol	<0.14		0.36	0.14	mg/Kg	☼	08/14/20 17:27	08/17/20 13:20	1
Dimethyl phthalate	<0.047		0.18	0.047	mg/Kg	☼	08/14/20 17:27	08/17/20 13:20	1
Di-n-butyl phthalate	<0.055		0.18	0.055	mg/Kg	☼	08/14/20 17:27	08/17/20 13:20	1
4,6-Dinitro-2-methylphenol	<0.29		0.72	0.29	mg/Kg	☼	08/14/20 17:27	08/17/20 13:20	1
2,4-Dinitrophenol	<0.63		0.72	0.63	mg/Kg	☼	08/14/20 17:27	08/17/20 13:20	1
2,4-Dinitrotoluene	<0.057		0.18	0.057	mg/Kg	☼	08/14/20 17:27	08/17/20 13:20	1
2,6-Dinitrotoluene	<0.070		0.18	0.070	mg/Kg	☼	08/14/20 17:27	08/17/20 13:20	1
Di-n-octyl phthalate	<0.058		0.18	0.058	mg/Kg	☼	08/14/20 17:27	08/17/20 13:20	1
Fluoranthene	0.027	J	0.036	0.0066	mg/Kg	☼	08/14/20 17:27	08/17/20 13:20	1
Fluorene	<0.0050		0.036	0.0050	mg/Kg	☼	08/14/20 17:27	08/17/20 13:20	1
Hexachlorobenzene	<0.0083		0.072	0.0083	mg/Kg	☼	08/14/20 17:27	08/17/20 13:20	1
Hexachlorobutadiene	<0.056		0.18	0.056	mg/Kg	☼	08/14/20 17:27	08/17/20 13:20	1
Hexachlorocyclopentadiene	<0.21		0.72	0.21	mg/Kg	☼	08/14/20 17:27	08/17/20 13:20	1
Hexachloroethane	<0.054		0.18	0.054	mg/Kg	☼	08/14/20 17:27	08/17/20 13:20	1
Indeno[1,2,3-cd]pyrene	0.016	J	0.036	0.0093	mg/Kg	☼	08/14/20 17:27	08/17/20 13:20	1
Isophorone	<0.040		0.18	0.040	mg/Kg	☼	08/14/20 17:27	08/17/20 13:20	1
2-Methylnaphthalene	<0.0066		0.072	0.0066	mg/Kg	☼	08/14/20 17:27	08/17/20 13:20	1
2-Methylphenol	<0.057		0.18	0.057	mg/Kg	☼	08/14/20 17:27	08/17/20 13:20	1
3 & 4 Methylphenol	<0.060		0.18	0.060	mg/Kg	☼	08/14/20 17:27	08/17/20 13:20	1
Naphthalene	<0.0055		0.036	0.0055	mg/Kg	☼	08/14/20 17:27	08/17/20 13:20	1
2-Nitroaniline	<0.048		0.18	0.048	mg/Kg	☼	08/14/20 17:27	08/17/20 13:20	1
3-Nitroaniline	<0.11		0.36	0.11	mg/Kg	☼	08/14/20 17:27	08/17/20 13:20	1
4-Nitroaniline	<0.15		0.36	0.15	mg/Kg	☼	08/14/20 17:27	08/17/20 13:20	1
Nitrobenzene	<0.0089		0.036	0.0089	mg/Kg	☼	08/14/20 17:27	08/17/20 13:20	1
2-Nitrophenol	<0.085		0.36	0.085	mg/Kg	☼	08/14/20 17:27	08/17/20 13:20	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

Client Sample ID: 2412V2-12-B01 (0-5)

Lab Sample ID: 500-185942-1

Date Collected: 08/04/20 12:00

Matrix: Solid

Date Received: 08/04/20 17:40

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		0.72	0.34	mg/Kg	☼	08/14/20 17:27	08/17/20 13:20	1
N-Nitrosodi-n-propylamine	<0.044		0.072	0.044	mg/Kg	☼	08/14/20 17:27	08/17/20 13:20	1
N-Nitrosodiphenylamine	<0.042		0.18	0.042	mg/Kg	☼	08/14/20 17:27	08/17/20 13:20	1
2,2'-oxybis[1-chloropropane]	<0.042		0.18	0.042	mg/Kg	☼	08/14/20 17:27	08/17/20 13:20	1
Pentachlorophenol	<0.57		0.72	0.57	mg/Kg	☼	08/14/20 17:27	08/17/20 13:20	1
Phenanthrene	0.013	J	0.036	0.0050	mg/Kg	☼	08/14/20 17:27	08/17/20 13:20	1
Phenol	<0.080		0.18	0.080	mg/Kg	☼	08/14/20 17:27	08/17/20 13:20	1
Pyrene	0.025	J	0.036	0.0071	mg/Kg	☼	08/14/20 17:27	08/17/20 13:20	1
1,2,4-Trichlorobenzene	<0.039		0.18	0.039	mg/Kg	☼	08/14/20 17:27	08/17/20 13:20	1
2,4,5-Trichlorophenol	<0.082		0.36	0.082	mg/Kg	☼	08/14/20 17:27	08/17/20 13:20	1
2,4,6-Trichlorophenol	<0.12		0.36	0.12	mg/Kg	☼	08/14/20 17:27	08/17/20 13:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	90		43 - 145	08/14/20 17:27	08/17/20 13:20	1
2-Fluorophenol	97		31 - 166	08/14/20 17:27	08/17/20 13:20	1
Nitrobenzene-d5	84		37 - 147	08/14/20 17:27	08/17/20 13:20	1
Phenol-d5	82		30 - 153	08/14/20 17:27	08/17/20 13:20	1
Terphenyl-d14	99		42 - 157	08/14/20 17:27	08/17/20 13:20	1
2,4,6-Tribromophenol	60		31 - 143	08/14/20 17:27	08/17/20 13:20	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.30	J B	1.1	0.22	mg/Kg	☼	08/11/20 17:27	08/12/20 17:57	1
Arsenic	4.3		0.56	0.19	mg/Kg	☼	08/11/20 17:27	08/12/20 17:57	1
Barium	33		0.56	0.063	mg/Kg	☼	08/11/20 17:27	08/12/20 17:57	1
Beryllium	0.48		0.22	0.052	mg/Kg	☼	08/11/20 17:27	08/12/20 17:57	1
Cadmium	0.10	J B	0.11	0.020	mg/Kg	☼	08/11/20 17:27	08/12/20 17:57	1
Chromium	10	B	0.56	0.28	mg/Kg	☼	08/11/20 17:27	08/12/20 17:57	1
Cobalt	6.8		0.56	0.15	mg/Kg	☼	08/11/20 17:27	08/13/20 00:26	2
Copper	9.0		0.56	0.16	mg/Kg	☼	08/11/20 17:27	08/12/20 17:57	1
Iron	12000		11	5.8	mg/Kg	☼	08/11/20 17:27	08/12/20 17:57	1
Lead	8.5		0.28	0.13	mg/Kg	☼	08/11/20 17:27	08/12/20 17:57	1
Magnesium	9500		5.6	2.8	mg/Kg	☼	08/11/20 17:27	08/12/20 17:57	1
Calcium	18000	B	11	1.9	mg/Kg	☼	08/11/20 17:27	08/12/20 17:57	1
Manganese	310		0.56	0.081	mg/Kg	☼	08/11/20 17:27	08/12/20 17:57	1
Nickel	16		0.56	0.16	mg/Kg	☼	08/11/20 17:27	08/12/20 17:57	1
Selenium	<0.33		0.56	0.33	mg/Kg	☼	08/11/20 17:27	08/12/20 17:57	1
Silver	<0.072		0.28	0.072	mg/Kg	☼	08/11/20 17:27	08/12/20 17:57	1
Thallium	<0.28		0.56	0.28	mg/Kg	☼	08/11/20 17:27	08/12/20 17:57	1
Vanadium	20		0.28	0.066	mg/Kg	☼	08/11/20 17:27	08/12/20 17:57	1
Zinc	37		1.1	0.49	mg/Kg	☼	08/11/20 17:27	08/12/20 17:57	1
Potassium	1200		28	9.8	mg/Kg	☼	08/11/20 17:27	08/12/20 17:57	1
Sodium	280		56	8.2	mg/Kg	☼	08/11/20 17:27	08/12/20 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		08/17/20 17:21	08/18/20 02:00	1
Barium	0.35	J	0.50	0.050	mg/L		08/17/20 17:21	08/18/20 02:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/17/20 17:21	08/18/20 02:00	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/17/20 17:21	08/18/20 02:00	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

Client Sample ID: 2412V2-12-B01 (0-5)

Lab Sample ID: 500-185942-1

Date Collected: 08/04/20 12:00

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 89.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	430		5.0	0.50	mg/L		08/17/20 17:21	08/18/20 02:00	1
Chromium	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:00	1
Cobalt	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:00	1
Copper	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:00	1
Iron	<0.20		0.40	0.20	mg/L		08/17/20 17:21	08/18/20 02:00	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/17/20 17:21	08/18/20 02:00	1
Magnesium	120		2.5	0.50	mg/L		08/17/20 17:21	08/18/20 02:00	1
Manganese	0.70		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:00	1
Nickel	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:00	1
Potassium	5.5		2.5	0.50	mg/L		08/17/20 17:21	08/18/20 02:00	1
Selenium	<0.020		0.050	0.020	mg/L		08/17/20 17:21	08/18/20 02:00	1
Silver	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:00	1
Vanadium	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:00	1
Zinc	<0.020		0.50	0.020	mg/L		08/17/20 17:21	08/18/20 02:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.72		0.025	0.010	mg/L		08/17/20 17:17	08/18/20 04:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		08/17/20 17:21	08/18/20 09:47	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		08/17/20 17:21	08/18/20 09:47	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/18/20 09:55	08/19/20 09:40	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.018	0.0059	mg/Kg	☼	08/11/20 14:25	08/12/20 09:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.13		0.25	0.13	mg/Kg	☼	08/14/20 15:05	08/17/20 15:19	1
pH	8.7		0.2	0.2	SU			08/11/20 17:04	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

Client Sample ID: 2412V2-12-B01 (5-7.5)

Lab Sample ID: 500-185942-2

Date Collected: 08/04/20 12:05

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0067		0.015	0.0067	mg/Kg	☼	08/05/20 08:30	08/12/20 17:39	1
Benzene	<0.00039		0.0015	0.00039	mg/Kg	☼	08/05/20 08:30	08/12/20 17:39	1
Bromodichloromethane	<0.00031		0.0015	0.00031	mg/Kg	☼	08/05/20 08:30	08/12/20 17:39	1
Bromoform	<0.00045		0.0015	0.00045	mg/Kg	☼	08/05/20 08:30	08/12/20 17:39	1
Bromomethane	<0.0015 *		0.0038	0.0015	mg/Kg	☼	08/05/20 08:30	08/12/20 17:39	1
2-Butanone (MEK)	<0.0017		0.0038	0.0017	mg/Kg	☼	08/05/20 08:30	08/12/20 17:39	1
Carbon disulfide	<0.00080		0.0038	0.00080	mg/Kg	☼	08/05/20 08:30	08/12/20 17:39	1
Carbon tetrachloride	<0.00045		0.0015	0.00045	mg/Kg	☼	08/05/20 08:30	08/12/20 17:39	1
Chlorobenzene	<0.00057		0.0015	0.00057	mg/Kg	☼	08/05/20 08:30	08/12/20 17:39	1
Chloroethane	<0.0011		0.0038	0.0011	mg/Kg	☼	08/05/20 08:30	08/12/20 17:39	1
Chloroform	<0.00053		0.0015	0.00053	mg/Kg	☼	08/05/20 08:30	08/12/20 17:39	1
Chloromethane	<0.0015 *		0.0038	0.0015	mg/Kg	☼	08/05/20 08:30	08/12/20 17:39	1
cis-1,2-Dichloroethene	<0.00043		0.0015	0.00043	mg/Kg	☼	08/05/20 08:30	08/12/20 17:39	1
cis-1,3-Dichloropropene	<0.00046		0.0015	0.00046	mg/Kg	☼	08/05/20 08:30	08/12/20 17:39	1
Dibromochloromethane	<0.00050		0.0015	0.00050	mg/Kg	☼	08/05/20 08:30	08/12/20 17:39	1
1,1-Dichloroethane	<0.00053		0.0015	0.00053	mg/Kg	☼	08/05/20 08:30	08/12/20 17:39	1
1,2-Dichloroethane	<0.0012		0.0038	0.0012	mg/Kg	☼	08/05/20 08:30	08/12/20 17:39	1
1,1-Dichloroethene	<0.00053		0.0015	0.00053	mg/Kg	☼	08/05/20 08:30	08/12/20 17:39	1
1,2-Dichloropropane	<0.00040		0.0015	0.00040	mg/Kg	☼	08/05/20 08:30	08/12/20 17:39	1
1,3-Dichloropropane, Total	<0.00054		0.0015	0.00054	mg/Kg	☼	08/05/20 08:30	08/12/20 17:39	1
Ethylbenzene	<0.00074		0.0015	0.00074	mg/Kg	☼	08/05/20 08:30	08/12/20 17:39	1
2-Hexanone	<0.0012		0.0038	0.0012	mg/Kg	☼	08/05/20 08:30	08/12/20 17:39	1
Methylene Chloride	<0.0015		0.0038	0.0015	mg/Kg	☼	08/05/20 08:30	08/12/20 17:39	1
4-Methyl-2-pentanone (MIBK)	<0.0011		0.0038	0.0011	mg/Kg	☼	08/05/20 08:30	08/12/20 17:39	1
Methyl tert-butyl ether	<0.00045		0.0015	0.00045	mg/Kg	☼	08/05/20 08:30	08/12/20 17:39	1
Styrene	<0.00046		0.0015	0.00046	mg/Kg	☼	08/05/20 08:30	08/12/20 17:39	1
1,1,2,2-Tetrachloroethane	<0.00049		0.0015	0.00049	mg/Kg	☼	08/05/20 08:30	08/12/20 17:39	1
Tetrachloroethene	<0.00052		0.0015	0.00052	mg/Kg	☼	08/05/20 08:30	08/12/20 17:39	1
Toluene	<0.00039		0.0015	0.00039	mg/Kg	☼	08/05/20 08:30	08/12/20 17:39	1
trans-1,2-Dichloroethene	<0.00068		0.0015	0.00068	mg/Kg	☼	08/05/20 08:30	08/12/20 17:39	1
trans-1,3-Dichloropropene	<0.00054		0.0015	0.00054	mg/Kg	☼	08/05/20 08:30	08/12/20 17:39	1
1,1,1-Trichloroethane	<0.00052		0.0015	0.00052	mg/Kg	☼	08/05/20 08:30	08/12/20 17:39	1
1,1,2-Trichloroethane	<0.00066		0.0015	0.00066	mg/Kg	☼	08/05/20 08:30	08/12/20 17:39	1
Trichloroethene	<0.00052		0.0015	0.00052	mg/Kg	☼	08/05/20 08:30	08/12/20 17:39	1
Vinyl acetate	<0.0013		0.0038	0.0013	mg/Kg	☼	08/05/20 08:30	08/12/20 17:39	1
Vinyl chloride	<0.00068		0.0015	0.00068	mg/Kg	☼	08/05/20 08:30	08/12/20 17:39	1
Xylenes, Total	<0.00049		0.0031	0.00049	mg/Kg	☼	08/05/20 08:30	08/12/20 17:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		75 - 131	08/05/20 08:30	08/12/20 17:39	1
Dibromofluoromethane	93		75 - 126	08/05/20 08:30	08/12/20 17:39	1
1,2-Dichloroethane-d4 (Surr)	87		70 - 134	08/05/20 08:30	08/12/20 17:39	1
Toluene-d8 (Surr)	91		75 - 124	08/05/20 08:30	08/12/20 17:39	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	☼	08/14/20 17:27	08/17/20 16:31	1
Acenaphthylene	<0.0050		0.038	0.0050	mg/Kg	☼	08/14/20 17:27	08/17/20 16:31	1
Anthracene	0.013	J	0.038	0.0063	mg/Kg	☼	08/14/20 17:27	08/17/20 16:31	1
Benzo[a]anthracene	0.084		0.038	0.0051	mg/Kg	☼	08/14/20 17:27	08/17/20 16:31	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

Client Sample ID: 2412V2-12-B01 (5-7.5)

Lab Sample ID: 500-185942-2

Date Collected: 08/04/20 12:05

Matrix: Solid

Date Received: 08/04/20 17:40

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	0.095		0.038	0.0073	mg/Kg	☼	08/14/20 17:27	08/17/20 16:31	1
Benzo[b]fluoranthene	0.11		0.038	0.0082	mg/Kg	☼	08/14/20 17:27	08/17/20 16:31	1
Benzo[g,h,i]perylene	0.067		0.038	0.012	mg/Kg	☼	08/14/20 17:27	08/17/20 16:31	1
Benzo[k]fluoranthene	0.032	J	0.038	0.011	mg/Kg	☼	08/14/20 17:27	08/17/20 16:31	1
Bis(2-chloroethoxy)methane	<0.039		0.19	0.039	mg/Kg	☼	08/14/20 17:27	08/17/20 16:31	1
Bis(2-chloroethyl)ether	<0.057		0.19	0.057	mg/Kg	☼	08/14/20 17:27	08/17/20 16:31	1
Bis(2-ethylhexyl) phthalate	<0.069		0.19	0.069	mg/Kg	☼	08/14/20 17:27	08/17/20 16:31	1
4-Bromophenyl phenyl ether	<0.050		0.19	0.050	mg/Kg	☼	08/14/20 17:27	08/17/20 16:31	1
Butyl benzyl phthalate	<0.072		0.19	0.072	mg/Kg	☼	08/14/20 17:27	08/17/20 16:31	1
Carbazole	<0.095		0.19	0.095	mg/Kg	☼	08/14/20 17:27	08/17/20 16:31	1
4-Chloroaniline	<0.18		0.77	0.18	mg/Kg	☼	08/14/20 17:27	08/17/20 16:31	1
4-Chloro-3-methylphenol	<0.13		0.38	0.13	mg/Kg	☼	08/14/20 17:27	08/17/20 16:31	1
2-Chloronaphthalene	<0.042		0.19	0.042	mg/Kg	☼	08/14/20 17:27	08/17/20 16:31	1
2-Chlorophenol	<0.065		0.19	0.065	mg/Kg	☼	08/14/20 17:27	08/17/20 16:31	1
4-Chlorophenyl phenyl ether	<0.044		0.19	0.044	mg/Kg	☼	08/14/20 17:27	08/17/20 16:31	1
Chrysene	0.087		0.038	0.010	mg/Kg	☼	08/14/20 17:27	08/17/20 16:31	1
Dibenz(a,h)anthracene	0.017	J	0.038	0.0073	mg/Kg	☼	08/14/20 17:27	08/17/20 16:31	1
Dibenzofuran	<0.044		0.19	0.044	mg/Kg	☼	08/14/20 17:27	08/17/20 16:31	1
1,2-Dichlorobenzene	<0.045		0.19	0.045	mg/Kg	☼	08/14/20 17:27	08/17/20 16:31	1
1,3-Dichlorobenzene	<0.043		0.19	0.043	mg/Kg	☼	08/14/20 17:27	08/17/20 16:31	1
1,4-Dichlorobenzene	<0.049		0.19	0.049	mg/Kg	☼	08/14/20 17:27	08/17/20 16:31	1
3,3'-Dichlorobenzidine	<0.053		0.19	0.053	mg/Kg	☼	08/14/20 17:27	08/17/20 16:31	1
2,4-Dichlorophenol	<0.090		0.38	0.090	mg/Kg	☼	08/14/20 17:27	08/17/20 16:31	1
Diethyl phthalate	<0.064		0.19	0.064	mg/Kg	☼	08/14/20 17:27	08/17/20 16:31	1
2,4-Dimethylphenol	<0.14		0.38	0.14	mg/Kg	☼	08/14/20 17:27	08/17/20 16:31	1
Dimethyl phthalate	<0.050		0.19	0.050	mg/Kg	☼	08/14/20 17:27	08/17/20 16:31	1
Di-n-butyl phthalate	<0.058		0.19	0.058	mg/Kg	☼	08/14/20 17:27	08/17/20 16:31	1
4,6-Dinitro-2-methylphenol	<0.31		0.77	0.31	mg/Kg	☼	08/14/20 17:27	08/17/20 16:31	1
2,4-Dinitrophenol	<0.67		0.77	0.67	mg/Kg	☼	08/14/20 17:27	08/17/20 16:31	1
2,4-Dinitrotoluene	<0.060		0.19	0.060	mg/Kg	☼	08/14/20 17:27	08/17/20 16:31	1
2,6-Dinitrotoluene	<0.075		0.19	0.075	mg/Kg	☼	08/14/20 17:27	08/17/20 16:31	1
Di-n-octyl phthalate	<0.062		0.19	0.062	mg/Kg	☼	08/14/20 17:27	08/17/20 16:31	1
Fluoranthene	0.16		0.038	0.0070	mg/Kg	☼	08/14/20 17:27	08/17/20 16:31	1
Fluorene	<0.0053		0.038	0.0053	mg/Kg	☼	08/14/20 17:27	08/17/20 16:31	1
Hexachlorobenzene	<0.0088		0.077	0.0088	mg/Kg	☼	08/14/20 17:27	08/17/20 16:31	1
Hexachlorobutadiene	<0.060		0.19	0.060	mg/Kg	☼	08/14/20 17:27	08/17/20 16:31	1
Hexachlorocyclopentadiene	<0.22		0.77	0.22	mg/Kg	☼	08/14/20 17:27	08/17/20 16:31	1
Hexachloroethane	<0.058		0.19	0.058	mg/Kg	☼	08/14/20 17:27	08/17/20 16:31	1
Indeno[1,2,3-cd]pyrene	0.050		0.038	0.0098	mg/Kg	☼	08/14/20 17:27	08/17/20 16:31	1
Isophorone	<0.043		0.19	0.043	mg/Kg	☼	08/14/20 17:27	08/17/20 16:31	1
2-Methylnaphthalene	<0.0070		0.077	0.0070	mg/Kg	☼	08/14/20 17:27	08/17/20 16:31	1
2-Methylphenol	<0.061		0.19	0.061	mg/Kg	☼	08/14/20 17:27	08/17/20 16:31	1
3 & 4 Methylphenol	<0.063		0.19	0.063	mg/Kg	☼	08/14/20 17:27	08/17/20 16:31	1
Naphthalene	<0.0058		0.038	0.0058	mg/Kg	☼	08/14/20 17:27	08/17/20 16:31	1
2-Nitroaniline	<0.051		0.19	0.051	mg/Kg	☼	08/14/20 17:27	08/17/20 16:31	1
3-Nitroaniline	<0.12		0.38	0.12	mg/Kg	☼	08/14/20 17:27	08/17/20 16:31	1
4-Nitroaniline	<0.16		0.38	0.16	mg/Kg	☼	08/14/20 17:27	08/17/20 16:31	1
Nitrobenzene	<0.0095		0.038	0.0095	mg/Kg	☼	08/14/20 17:27	08/17/20 16:31	1
2-Nitrophenol	<0.090		0.38	0.090	mg/Kg	☼	08/14/20 17:27	08/17/20 16:31	1

Euofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

Client Sample ID: 2412V2-12-B01 (5-7.5)

Lab Sample ID: 500-185942-2

Date Collected: 08/04/20 12:05

Matrix: Solid

Date Received: 08/04/20 17:40

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	<0.36		0.77	0.36	mg/Kg	☼	08/14/20 17:27	08/17/20 16:31	1
N-Nitrosodi-n-propylamine	<0.046		0.077	0.046	mg/Kg	☼	08/14/20 17:27	08/17/20 16:31	1
N-Nitrosodiphenylamine	<0.045		0.19	0.045	mg/Kg	☼	08/14/20 17:27	08/17/20 16:31	1
2,2'-oxybis[1-chloropropane]	<0.044		0.19	0.044	mg/Kg	☼	08/14/20 17:27	08/17/20 16:31	1
Pentachlorophenol	<0.61		0.77	0.61	mg/Kg	☼	08/14/20 17:27	08/17/20 16:31	1
Phenanthrene	0.050		0.038	0.0053	mg/Kg	☼	08/14/20 17:27	08/17/20 16:31	1
Phenol	<0.084		0.19	0.084	mg/Kg	☼	08/14/20 17:27	08/17/20 16:31	1
Pyrene	0.13		0.038	0.0075	mg/Kg	☼	08/14/20 17:27	08/17/20 16:31	1
1,2,4-Trichlorobenzene	<0.041		0.19	0.041	mg/Kg	☼	08/14/20 17:27	08/17/20 16:31	1
2,4,5-Trichlorophenol	<0.087		0.38	0.087	mg/Kg	☼	08/14/20 17:27	08/17/20 16:31	1
2,4,6-Trichlorophenol	<0.13		0.38	0.13	mg/Kg	☼	08/14/20 17:27	08/17/20 16:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	79		43 - 145	08/14/20 17:27	08/17/20 16:31	1
2-Fluorophenol	82		31 - 166	08/14/20 17:27	08/17/20 16:31	1
Nitrobenzene-d5	72		37 - 147	08/14/20 17:27	08/17/20 16:31	1
Phenol-d5	69		30 - 153	08/14/20 17:27	08/17/20 16:31	1
Terphenyl-d14	85		42 - 157	08/14/20 17:27	08/17/20 16:31	1
2,4,6-Tribromophenol	43		31 - 143	08/14/20 17:27	08/17/20 16:31	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.47	J B	1.1	0.22	mg/Kg	☼	08/11/20 17:27	08/12/20 18:01	1
Arsenic	5.4		0.56	0.19	mg/Kg	☼	08/11/20 17:27	08/12/20 18:01	1
Barium	74		0.56	0.063	mg/Kg	☼	08/11/20 17:27	08/12/20 18:01	1
Beryllium	0.58		0.22	0.052	mg/Kg	☼	08/11/20 17:27	08/12/20 18:01	1
Cadmium	0.21	B	0.11	0.020	mg/Kg	☼	08/11/20 17:27	08/12/20 18:01	1
Chromium	14	B	0.56	0.28	mg/Kg	☼	08/11/20 17:27	08/12/20 18:01	1
Cobalt	8.4		0.56	0.15	mg/Kg	☼	08/11/20 17:27	08/13/20 00:30	2
Copper	13		0.56	0.16	mg/Kg	☼	08/11/20 17:27	08/12/20 18:01	1
Iron	15000		11	5.8	mg/Kg	☼	08/11/20 17:27	08/12/20 18:01	1
Lead	23		0.28	0.13	mg/Kg	☼	08/11/20 17:27	08/12/20 18:01	1
Magnesium	10000		5.6	2.8	mg/Kg	☼	08/11/20 17:27	08/12/20 18:01	1
Calcium	16000	B	11	1.9	mg/Kg	☼	08/11/20 17:27	08/12/20 18:01	1
Manganese	530		0.56	0.081	mg/Kg	☼	08/11/20 17:27	08/12/20 18:01	1
Nickel	19		0.56	0.16	mg/Kg	☼	08/11/20 17:27	08/12/20 18:01	1
Selenium	<0.33		0.56	0.33	mg/Kg	☼	08/11/20 17:27	08/12/20 18:01	1
Silver	<0.072		0.28	0.072	mg/Kg	☼	08/11/20 17:27	08/12/20 18:01	1
Thallium	0.38	J	0.56	0.28	mg/Kg	☼	08/11/20 17:27	08/12/20 18:01	1
Vanadium	25		0.28	0.066	mg/Kg	☼	08/11/20 17:27	08/12/20 18:01	1
Zinc	110		1.1	0.49	mg/Kg	☼	08/11/20 17:27	08/12/20 18:01	1
Potassium	1500		28	9.9	mg/Kg	☼	08/11/20 17:27	08/12/20 18:01	1
Sodium	340		56	8.2	mg/Kg	☼	08/11/20 17:27	08/12/20 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		08/17/20 17:21	08/18/20 02:04	1
Barium	0.47	J	0.50	0.050	mg/L		08/17/20 17:21	08/18/20 02:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/17/20 17:21	08/18/20 02:04	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/17/20 17:21	08/18/20 02:04	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

Client Sample ID: 2412V2-12-B01 (5-7.5)

Lab Sample ID: 500-185942-2

Date Collected: 08/04/20 12:05

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 83.0

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		08/17/20 17:21	08/18/20 02:04	1
Chromium	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:04	1
Cobalt	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:04	1
Copper	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:04	1
Iron	<0.20		0.40	0.20	mg/L		08/17/20 17:21	08/18/20 02:04	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/17/20 17:21	08/18/20 02:04	1
Magnesium	150		2.5	0.50	mg/L		08/17/20 17:21	08/18/20 02:04	1
Manganese	0.32		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:04	1
Nickel	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:04	1
Potassium	8.1		2.5	0.50	mg/L		08/17/20 17:21	08/18/20 02:04	1
Selenium	<0.020		0.050	0.020	mg/L		08/17/20 17:21	08/18/20 02:04	1
Silver	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:04	1
Vanadium	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:04	1
Zinc	0.13 J		0.50	0.020	mg/L		08/17/20 17:21	08/18/20 02:04	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		08/17/20 17:17	08/18/20 04:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		08/17/20 17:21	08/18/20 09:49	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		08/17/20 17:21	08/18/20 09:49	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		08/18/20 09:55	08/19/20 09:42	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.068		0.019	0.0065	mg/Kg	☼	08/11/20 14:25	08/12/20 09:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.17		0.33	0.17	mg/Kg	☼	08/14/20 15:05	08/17/20 15:22	1
pH	8.4		0.2	0.2	SU			08/11/20 17:09	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

Client Sample ID: 2412V2-12-B02 (0-5)

Lab Sample ID: 500-185942-3

Date Collected: 08/04/20 09:05

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 86.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0068		0.016	0.0068	mg/Kg	☼	08/05/20 08:30	08/12/20 18:05	1
Benzene	<0.00040		0.0016	0.00040	mg/Kg	☼	08/05/20 08:30	08/12/20 18:05	1
Bromodichloromethane	<0.00032		0.0016	0.00032	mg/Kg	☼	08/05/20 08:30	08/12/20 18:05	1
Bromoform	<0.00046		0.0016	0.00046	mg/Kg	☼	08/05/20 08:30	08/12/20 18:05	1
Bromomethane	<0.0015 *		0.0039	0.0015	mg/Kg	☼	08/05/20 08:30	08/12/20 18:05	1
2-Butanone (MEK)	<0.0017		0.0039	0.0017	mg/Kg	☼	08/05/20 08:30	08/12/20 18:05	1
Carbon disulfide	<0.00081		0.0039	0.00081	mg/Kg	☼	08/05/20 08:30	08/12/20 18:05	1
Carbon tetrachloride	<0.00045		0.0016	0.00045	mg/Kg	☼	08/05/20 08:30	08/12/20 18:05	1
Chlorobenzene	<0.00058		0.0016	0.00058	mg/Kg	☼	08/05/20 08:30	08/12/20 18:05	1
Chloroethane	<0.0012		0.0039	0.0012	mg/Kg	☼	08/05/20 08:30	08/12/20 18:05	1
Chloroform	<0.00054		0.0016	0.00054	mg/Kg	☼	08/05/20 08:30	08/12/20 18:05	1
Chloromethane	<0.0016 *		0.0039	0.0016	mg/Kg	☼	08/05/20 08:30	08/12/20 18:05	1
cis-1,2-Dichloroethene	<0.00044		0.0016	0.00044	mg/Kg	☼	08/05/20 08:30	08/12/20 18:05	1
cis-1,3-Dichloropropene	<0.00047		0.0016	0.00047	mg/Kg	☼	08/05/20 08:30	08/12/20 18:05	1
Dibromochloromethane	<0.00051		0.0016	0.00051	mg/Kg	☼	08/05/20 08:30	08/12/20 18:05	1
1,1-Dichloroethane	<0.00054		0.0016	0.00054	mg/Kg	☼	08/05/20 08:30	08/12/20 18:05	1
1,2-Dichloroethane	<0.0012		0.0039	0.0012	mg/Kg	☼	08/05/20 08:30	08/12/20 18:05	1
1,1-Dichloroethene	<0.00054		0.0016	0.00054	mg/Kg	☼	08/05/20 08:30	08/12/20 18:05	1
1,2-Dichloropropene	<0.00040		0.0016	0.00040	mg/Kg	☼	08/05/20 08:30	08/12/20 18:05	1
1,3-Dichloropropene, Total	<0.00055		0.0016	0.00055	mg/Kg	☼	08/05/20 08:30	08/12/20 18:05	1
Ethylbenzene	<0.00075		0.0016	0.00075	mg/Kg	☼	08/05/20 08:30	08/12/20 18:05	1
2-Hexanone	<0.0012		0.0039	0.0012	mg/Kg	☼	08/05/20 08:30	08/12/20 18:05	1
Methylene Chloride	<0.0015		0.0039	0.0015	mg/Kg	☼	08/05/20 08:30	08/12/20 18:05	1
4-Methyl-2-pentanone (MIBK)	<0.0012		0.0039	0.0012	mg/Kg	☼	08/05/20 08:30	08/12/20 18:05	1
Methyl tert-butyl ether	<0.00046		0.0016	0.00046	mg/Kg	☼	08/05/20 08:30	08/12/20 18:05	1
Styrene	<0.00047		0.0016	0.00047	mg/Kg	☼	08/05/20 08:30	08/12/20 18:05	1
1,1,2,2-Tetrachloroethane	<0.00050		0.0016	0.00050	mg/Kg	☼	08/05/20 08:30	08/12/20 18:05	1
Tetrachloroethene	<0.00053		0.0016	0.00053	mg/Kg	☼	08/05/20 08:30	08/12/20 18:05	1
Toluene	<0.00039		0.0016	0.00039	mg/Kg	☼	08/05/20 08:30	08/12/20 18:05	1
trans-1,2-Dichloroethene	<0.00069		0.0016	0.00069	mg/Kg	☼	08/05/20 08:30	08/12/20 18:05	1
trans-1,3-Dichloropropene	<0.00055		0.0016	0.00055	mg/Kg	☼	08/05/20 08:30	08/12/20 18:05	1
1,1,1-Trichloroethane	<0.00052		0.0016	0.00052	mg/Kg	☼	08/05/20 08:30	08/12/20 18:05	1
1,1,2-Trichloroethane	<0.00067		0.0016	0.00067	mg/Kg	☼	08/05/20 08:30	08/12/20 18:05	1
Trichloroethene	<0.00053		0.0016	0.00053	mg/Kg	☼	08/05/20 08:30	08/12/20 18:05	1
Vinyl acetate	<0.0014		0.0039	0.0014	mg/Kg	☼	08/05/20 08:30	08/12/20 18:05	1
Vinyl chloride	<0.00069		0.0016	0.00069	mg/Kg	☼	08/05/20 08:30	08/12/20 18:05	1
Xylenes, Total	<0.00050		0.0031	0.00050	mg/Kg	☼	08/05/20 08:30	08/12/20 18:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		75 - 131	08/05/20 08:30	08/12/20 18:05	1
Dibromofluoromethane	89		75 - 126	08/05/20 08:30	08/12/20 18:05	1
1,2-Dichloroethane-d4 (Surr)	87		70 - 134	08/05/20 08:30	08/12/20 18:05	1
Toluene-d8 (Surr)	91		75 - 124	08/05/20 08:30	08/12/20 18:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0067		0.037	0.0067	mg/Kg	☼	08/14/20 17:27	08/17/20 15:09	1
Acenaphthylene	<0.0049		0.037	0.0049	mg/Kg	☼	08/14/20 17:27	08/17/20 15:09	1
Anthracene	<0.0062		0.037	0.0062	mg/Kg	☼	08/14/20 17:27	08/17/20 15:09	1
Benzo[a]anthracene	0.0097	J	0.037	0.0050	mg/Kg	☼	08/14/20 17:27	08/17/20 15:09	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

Client Sample ID: 2412V2-12-B02 (0-5)

Lab Sample ID: 500-185942-3

Date Collected: 08/04/20 09:05

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 86.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.012	J	0.037	0.0072	mg/Kg	☼	08/14/20 17:27	08/17/20 15:09	1
Benzo[b]fluoranthene	0.014	J	0.037	0.0081	mg/Kg	☼	08/14/20 17:27	08/17/20 15:09	1
Benzo[g,h,i]perylene	<0.012		0.037	0.012	mg/Kg	☼	08/14/20 17:27	08/17/20 15:09	1
Benzo[k]fluoranthene	<0.011		0.037	0.011	mg/Kg	☼	08/14/20 17:27	08/17/20 15:09	1
Bis(2-chloroethoxy)methane	<0.038		0.19	0.038	mg/Kg	☼	08/14/20 17:27	08/17/20 15:09	1
Bis(2-chloroethyl)ether	<0.056		0.19	0.056	mg/Kg	☼	08/14/20 17:27	08/17/20 15:09	1
Bis(2-ethylhexyl) phthalate	<0.068		0.19	0.068	mg/Kg	☼	08/14/20 17:27	08/17/20 15:09	1
4-Bromophenyl phenyl ether	<0.049		0.19	0.049	mg/Kg	☼	08/14/20 17:27	08/17/20 15:09	1
Butyl benzyl phthalate	<0.071		0.19	0.071	mg/Kg	☼	08/14/20 17:27	08/17/20 15:09	1
Carbazole	<0.093		0.19	0.093	mg/Kg	☼	08/14/20 17:27	08/17/20 15:09	1
4-Chloroaniline	<0.18		0.75	0.18	mg/Kg	☼	08/14/20 17:27	08/17/20 15:09	1
4-Chloro-3-methylphenol	<0.13		0.37	0.13	mg/Kg	☼	08/14/20 17:27	08/17/20 15:09	1
2-Chloronaphthalene	<0.041		0.19	0.041	mg/Kg	☼	08/14/20 17:27	08/17/20 15:09	1
2-Chlorophenol	<0.064		0.19	0.064	mg/Kg	☼	08/14/20 17:27	08/17/20 15:09	1
4-Chlorophenyl phenyl ether	<0.044		0.19	0.044	mg/Kg	☼	08/14/20 17:27	08/17/20 15:09	1
Chrysene	<0.010		0.037	0.010	mg/Kg	☼	08/14/20 17:27	08/17/20 15:09	1
Dibenz(a,h)anthracene	<0.0072		0.037	0.0072	mg/Kg	☼	08/14/20 17:27	08/17/20 15:09	1
Dibenzofuran	<0.044		0.19	0.044	mg/Kg	☼	08/14/20 17:27	08/17/20 15:09	1
1,2-Dichlorobenzene	<0.045		0.19	0.045	mg/Kg	☼	08/14/20 17:27	08/17/20 15:09	1
1,3-Dichlorobenzene	<0.042		0.19	0.042	mg/Kg	☼	08/14/20 17:27	08/17/20 15:09	1
1,4-Dichlorobenzene	<0.048		0.19	0.048	mg/Kg	☼	08/14/20 17:27	08/17/20 15:09	1
3,3'-Dichlorobenzidine	<0.052		0.19	0.052	mg/Kg	☼	08/14/20 17:27	08/17/20 15:09	1
2,4-Dichlorophenol	<0.089		0.37	0.089	mg/Kg	☼	08/14/20 17:27	08/17/20 15:09	1
Diethyl phthalate	<0.063		0.19	0.063	mg/Kg	☼	08/14/20 17:27	08/17/20 15:09	1
2,4-Dimethylphenol	<0.14		0.37	0.14	mg/Kg	☼	08/14/20 17:27	08/17/20 15:09	1
Dimethyl phthalate	<0.049		0.19	0.049	mg/Kg	☼	08/14/20 17:27	08/17/20 15:09	1
Di-n-butyl phthalate	<0.057		0.19	0.057	mg/Kg	☼	08/14/20 17:27	08/17/20 15:09	1
4,6-Dinitro-2-methylphenol	<0.30		0.75	0.30	mg/Kg	☼	08/14/20 17:27	08/17/20 15:09	1
2,4-Dinitrophenol	<0.66		0.75	0.66	mg/Kg	☼	08/14/20 17:27	08/17/20 15:09	1
2,4-Dinitrotoluene	<0.059		0.19	0.059	mg/Kg	☼	08/14/20 17:27	08/17/20 15:09	1
2,6-Dinitrotoluene	<0.073		0.19	0.073	mg/Kg	☼	08/14/20 17:27	08/17/20 15:09	1
Di-n-octyl phthalate	<0.061		0.19	0.061	mg/Kg	☼	08/14/20 17:27	08/17/20 15:09	1
Fluoranthene	0.015	J	0.037	0.0069	mg/Kg	☼	08/14/20 17:27	08/17/20 15:09	1
Fluorene	<0.0052		0.037	0.0052	mg/Kg	☼	08/14/20 17:27	08/17/20 15:09	1
Hexachlorobenzene	<0.0087		0.075	0.0087	mg/Kg	☼	08/14/20 17:27	08/17/20 15:09	1
Hexachlorobutadiene	<0.059		0.19	0.059	mg/Kg	☼	08/14/20 17:27	08/17/20 15:09	1
Hexachlorocyclopentadiene	<0.21		0.75	0.21	mg/Kg	☼	08/14/20 17:27	08/17/20 15:09	1
Hexachloroethane	<0.057		0.19	0.057	mg/Kg	☼	08/14/20 17:27	08/17/20 15:09	1
Indeno[1,2,3-cd]pyrene	<0.0097		0.037	0.0097	mg/Kg	☼	08/14/20 17:27	08/17/20 15:09	1
Isophorone	<0.042		0.19	0.042	mg/Kg	☼	08/14/20 17:27	08/17/20 15:09	1
2-Methylnaphthalene	<0.0069		0.075	0.0069	mg/Kg	☼	08/14/20 17:27	08/17/20 15:09	1
2-Methylphenol	<0.060		0.19	0.060	mg/Kg	☼	08/14/20 17:27	08/17/20 15:09	1
3 & 4 Methylphenol	<0.062		0.19	0.062	mg/Kg	☼	08/14/20 17:27	08/17/20 15:09	1
Naphthalene	<0.0057		0.037	0.0057	mg/Kg	☼	08/14/20 17:27	08/17/20 15:09	1
2-Nitroaniline	<0.050		0.19	0.050	mg/Kg	☼	08/14/20 17:27	08/17/20 15:09	1
3-Nitroaniline	<0.12		0.37	0.12	mg/Kg	☼	08/14/20 17:27	08/17/20 15:09	1
4-Nitroaniline	<0.16		0.37	0.16	mg/Kg	☼	08/14/20 17:27	08/17/20 15:09	1
Nitrobenzene	<0.0093		0.037	0.0093	mg/Kg	☼	08/14/20 17:27	08/17/20 15:09	1
2-Nitrophenol	<0.088		0.37	0.088	mg/Kg	☼	08/14/20 17:27	08/17/20 15:09	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

Client Sample ID: 2412V2-12-B02 (0-5)

Lab Sample ID: 500-185942-3

Date Collected: 08/04/20 09:05

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 86.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.36		0.75	0.36	mg/Kg	☼	08/14/20 17:27	08/17/20 15:09	1
N-Nitrosodi-n-propylamine	<0.046		0.075	0.046	mg/Kg	☼	08/14/20 17:27	08/17/20 15:09	1
N-Nitrosodiphenylamine	<0.044		0.19	0.044	mg/Kg	☼	08/14/20 17:27	08/17/20 15:09	1
2,2'-oxybis[1-chloropropane]	<0.043		0.19	0.043	mg/Kg	☼	08/14/20 17:27	08/17/20 15:09	1
Pentachlorophenol	<0.60		0.75	0.60	mg/Kg	☼	08/14/20 17:27	08/17/20 15:09	1
Phenanthrene	0.0074	J	0.037	0.0052	mg/Kg	☼	08/14/20 17:27	08/17/20 15:09	1
Phenol	<0.083		0.19	0.083	mg/Kg	☼	08/14/20 17:27	08/17/20 15:09	1
Pyrene	0.014	J	0.037	0.0074	mg/Kg	☼	08/14/20 17:27	08/17/20 15:09	1
1,2,4-Trichlorobenzene	<0.040		0.19	0.040	mg/Kg	☼	08/14/20 17:27	08/17/20 15:09	1
2,4,5-Trichlorophenol	<0.085		0.37	0.085	mg/Kg	☼	08/14/20 17:27	08/17/20 15:09	1
2,4,6-Trichlorophenol	<0.13		0.37	0.13	mg/Kg	☼	08/14/20 17:27	08/17/20 15:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	73		43 - 145				08/14/20 17:27	08/17/20 15:09	1
2-Fluorophenol	89		31 - 166				08/14/20 17:27	08/17/20 15:09	1
Nitrobenzene-d5	76		37 - 147				08/14/20 17:27	08/17/20 15:09	1
Phenol-d5	74		30 - 153				08/14/20 17:27	08/17/20 15:09	1
Terphenyl-d14	95		42 - 157				08/14/20 17:27	08/17/20 15:09	1
2,4,6-Tribromophenol	38		31 - 143				08/14/20 17:27	08/17/20 15:09	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.31	J B	1.1	0.21	mg/Kg	☼	08/11/20 17:27	08/12/20 18:05	1
Arsenic	5.9		0.53	0.18	mg/Kg	☼	08/11/20 17:27	08/12/20 18:05	1
Barium	47		0.53	0.060	mg/Kg	☼	08/11/20 17:27	08/12/20 18:05	1
Beryllium	0.66		0.21	0.049	mg/Kg	☼	08/11/20 17:27	08/12/20 18:05	1
Cadmium	0.048	J B	0.11	0.019	mg/Kg	☼	08/11/20 17:27	08/12/20 18:05	1
Chromium	15	B	0.53	0.26	mg/Kg	☼	08/11/20 17:27	08/12/20 18:05	1
Cobalt	8.2		0.53	0.14	mg/Kg	☼	08/11/20 17:27	08/13/20 00:34	2
Copper	12		0.53	0.15	mg/Kg	☼	08/11/20 17:27	08/12/20 18:05	1
Iron	17000		11	5.5	mg/Kg	☼	08/11/20 17:27	08/12/20 18:05	1
Lead	11		0.26	0.12	mg/Kg	☼	08/11/20 17:27	08/12/20 18:05	1
Magnesium	2400		5.3	2.6	mg/Kg	☼	08/11/20 17:27	08/12/20 18:05	1
Calcium	1700	B	11	1.8	mg/Kg	☼	08/11/20 17:27	08/12/20 18:05	1
Manganese	250		0.53	0.076	mg/Kg	☼	08/11/20 17:27	08/12/20 18:05	1
Nickel	19		0.53	0.15	mg/Kg	☼	08/11/20 17:27	08/12/20 18:05	1
Selenium	<0.31		0.53	0.31	mg/Kg	☼	08/11/20 17:27	08/12/20 18:05	1
Silver	<0.068		0.26	0.068	mg/Kg	☼	08/11/20 17:27	08/12/20 18:05	1
Thallium	0.44	J	0.53	0.26	mg/Kg	☼	08/11/20 17:27	08/12/20 18:05	1
Vanadium	25		0.26	0.062	mg/Kg	☼	08/11/20 17:27	08/12/20 18:05	1
Zinc	43		1.1	0.46	mg/Kg	☼	08/11/20 17:27	08/12/20 18:05	1
Potassium	1200		26	9.3	mg/Kg	☼	08/11/20 17:27	08/12/20 18:05	1
Sodium	74		53	7.8	mg/Kg	☼	08/11/20 17:27	08/12/20 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		08/17/20 17:21	08/18/20 02:17	1
Barium	0.23	J	0.50	0.050	mg/L		08/17/20 17:21	08/18/20 02:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/17/20 17:21	08/18/20 02:17	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/17/20 17:21	08/18/20 02:17	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

Client Sample ID: 2412V2-12-B02 (0-5)

Lab Sample ID: 500-185942-3

Date Collected: 08/04/20 09:05

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 86.3

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		08/17/20 17:21	08/18/20 02:17	1
Chromium	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:17	1
Cobalt	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:17	1
Copper	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:17	1
Iron	<0.20		0.40	0.20	mg/L		08/17/20 17:21	08/18/20 02:17	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/17/20 17:21	08/18/20 02:17	1
Magnesium	12		2.5	0.50	mg/L		08/17/20 17:21	08/18/20 02:17	1
Manganese	0.037		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:17	1
Nickel	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:17	1
Potassium	4.0		2.5	0.50	mg/L		08/17/20 17:21	08/18/20 02:17	1
Selenium	<0.020		0.050	0.020	mg/L		08/17/20 17:21	08/18/20 02:17	1
Silver	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:17	1
Vanadium	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:17	1
Zinc	<0.020		0.50	0.020	mg/L		08/17/20 17:21	08/18/20 02:17	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		08/17/20 17:21	08/18/20 09:51	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		08/17/20 17:21	08/18/20 09:51	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/18/20 09:55	08/19/20 09:44	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	☼	08/11/20 14:25	08/12/20 09:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.17		0.34	0.17	mg/Kg	☼	08/14/20 15:05	08/17/20 15:26	1
pH	7.6		0.2	0.2	SU			08/11/20 17:12	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

Client Sample ID: 2412V2-12-B02 (5-7.5)

Lab Sample ID: 500-185942-4

Date Collected: 08/04/20 09:10

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 90.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0059		0.014	0.0059	mg/Kg	☼	08/05/20 08:30	08/12/20 18:30	1
Benzene	<0.00035		0.0014	0.00035	mg/Kg	☼	08/05/20 08:30	08/12/20 18:30	1
Bromodichloromethane	<0.00028		0.0014	0.00028	mg/Kg	☼	08/05/20 08:30	08/12/20 18:30	1
Bromoform	<0.00040		0.0014	0.00040	mg/Kg	☼	08/05/20 08:30	08/12/20 18:30	1
Bromomethane	<0.0013	*	0.0034	0.0013	mg/Kg	☼	08/05/20 08:30	08/12/20 18:30	1
2-Butanone (MEK)	<0.0015		0.0034	0.0015	mg/Kg	☼	08/05/20 08:30	08/12/20 18:30	1
Carbon disulfide	<0.00070		0.0034	0.00070	mg/Kg	☼	08/05/20 08:30	08/12/20 18:30	1
Carbon tetrachloride	<0.00039		0.0014	0.00039	mg/Kg	☼	08/05/20 08:30	08/12/20 18:30	1
Chlorobenzene	<0.00050		0.0014	0.00050	mg/Kg	☼	08/05/20 08:30	08/12/20 18:30	1
Chloroethane	<0.0010		0.0034	0.0010	mg/Kg	☼	08/05/20 08:30	08/12/20 18:30	1
Chloroform	<0.00047		0.0014	0.00047	mg/Kg	☼	08/05/20 08:30	08/12/20 18:30	1
Chloromethane	<0.0014	*	0.0034	0.0014	mg/Kg	☼	08/05/20 08:30	08/12/20 18:30	1
cis-1,2-Dichloroethene	<0.00038		0.0014	0.00038	mg/Kg	☼	08/05/20 08:30	08/12/20 18:30	1
cis-1,3-Dichloropropene	<0.00041		0.0014	0.00041	mg/Kg	☼	08/05/20 08:30	08/12/20 18:30	1
Dibromochloromethane	<0.00044		0.0014	0.00044	mg/Kg	☼	08/05/20 08:30	08/12/20 18:30	1
1,1-Dichloroethane	<0.00046		0.0014	0.00046	mg/Kg	☼	08/05/20 08:30	08/12/20 18:30	1
1,2-Dichloroethane	<0.0011		0.0034	0.0011	mg/Kg	☼	08/05/20 08:30	08/12/20 18:30	1
1,1-Dichloroethene	<0.00047		0.0014	0.00047	mg/Kg	☼	08/05/20 08:30	08/12/20 18:30	1
1,2-Dichloropropane	<0.00035		0.0014	0.00035	mg/Kg	☼	08/05/20 08:30	08/12/20 18:30	1
1,3-Dichloropropene, Total	<0.00048		0.0014	0.00048	mg/Kg	☼	08/05/20 08:30	08/12/20 18:30	1
Ethylbenzene	<0.00065		0.0014	0.00065	mg/Kg	☼	08/05/20 08:30	08/12/20 18:30	1
2-Hexanone	<0.0011		0.0034	0.0011	mg/Kg	☼	08/05/20 08:30	08/12/20 18:30	1
Methylene Chloride	<0.0013		0.0034	0.0013	mg/Kg	☼	08/05/20 08:30	08/12/20 18:30	1
4-Methyl-2-pentanone (MIBK)	<0.0010		0.0034	0.0010	mg/Kg	☼	08/05/20 08:30	08/12/20 18:30	1
Methyl tert-butyl ether	<0.00040		0.0014	0.00040	mg/Kg	☼	08/05/20 08:30	08/12/20 18:30	1
Styrene	<0.00041		0.0014	0.00041	mg/Kg	☼	08/05/20 08:30	08/12/20 18:30	1
1,1,2,2-Tetrachloroethane	<0.00043		0.0014	0.00043	mg/Kg	☼	08/05/20 08:30	08/12/20 18:30	1
Tetrachloroethene	<0.00046		0.0014	0.00046	mg/Kg	☼	08/05/20 08:30	08/12/20 18:30	1
Toluene	<0.00034		0.0014	0.00034	mg/Kg	☼	08/05/20 08:30	08/12/20 18:30	1
trans-1,2-Dichloroethene	<0.00060		0.0014	0.00060	mg/Kg	☼	08/05/20 08:30	08/12/20 18:30	1
trans-1,3-Dichloropropene	<0.00048		0.0014	0.00048	mg/Kg	☼	08/05/20 08:30	08/12/20 18:30	1
1,1,1-Trichloroethane	<0.00045		0.0014	0.00045	mg/Kg	☼	08/05/20 08:30	08/12/20 18:30	1
1,1,2-Trichloroethane	<0.00058		0.0014	0.00058	mg/Kg	☼	08/05/20 08:30	08/12/20 18:30	1
Trichloroethene	<0.00046		0.0014	0.00046	mg/Kg	☼	08/05/20 08:30	08/12/20 18:30	1
Vinyl acetate	<0.0012		0.0034	0.0012	mg/Kg	☼	08/05/20 08:30	08/12/20 18:30	1
Vinyl chloride	<0.00060		0.0014	0.00060	mg/Kg	☼	08/05/20 08:30	08/12/20 18:30	1
Xylenes, Total	<0.00043		0.0027	0.00043	mg/Kg	☼	08/05/20 08:30	08/12/20 18:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		75 - 131	08/05/20 08:30	08/12/20 18:30	1
Dibromofluoromethane	90		75 - 126	08/05/20 08:30	08/12/20 18:30	1
1,2-Dichloroethane-d4 (Surr)	87		70 - 134	08/05/20 08:30	08/12/20 18:30	1
Toluene-d8 (Surr)	91		75 - 124	08/05/20 08:30	08/12/20 18:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0064		0.035	0.0064	mg/Kg	☼	08/14/20 17:27	08/17/20 15:36	1
Acenaphthylene	<0.0047		0.035	0.0047	mg/Kg	☼	08/14/20 17:27	08/17/20 15:36	1
Anthracene	<0.0059		0.035	0.0059	mg/Kg	☼	08/14/20 17:27	08/17/20 15:36	1
Benzo[a]anthracene	0.030	J	0.035	0.0048	mg/Kg	☼	08/14/20 17:27	08/17/20 15:36	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

Client Sample ID: 2412V2-12-B02 (5-7.5)

Lab Sample ID: 500-185942-4

Date Collected: 08/04/20 09:10

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 90.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.037		0.035	0.0068	mg/Kg	☼	08/14/20 17:27	08/17/20 15:36	1
Benzo[b]fluoranthene	0.043		0.035	0.0076	mg/Kg	☼	08/14/20 17:27	08/17/20 15:36	1
Benzo[g,h,i]perylene	0.026	J	0.035	0.011	mg/Kg	☼	08/14/20 17:27	08/17/20 15:36	1
Benzo[k]fluoranthene	0.014	J	0.035	0.010	mg/Kg	☼	08/14/20 17:27	08/17/20 15:36	1
Bis(2-chloroethoxy)methane	<0.036		0.18	0.036	mg/Kg	☼	08/14/20 17:27	08/17/20 15:36	1
Bis(2-chloroethyl)ether	<0.053		0.18	0.053	mg/Kg	☼	08/14/20 17:27	08/17/20 15:36	1
Bis(2-ethylhexyl) phthalate	<0.065		0.18	0.065	mg/Kg	☼	08/14/20 17:27	08/17/20 15:36	1
4-Bromophenyl phenyl ether	<0.047		0.18	0.047	mg/Kg	☼	08/14/20 17:27	08/17/20 15:36	1
Butyl benzyl phthalate	<0.067		0.18	0.067	mg/Kg	☼	08/14/20 17:27	08/17/20 15:36	1
Carbazole	<0.088		0.18	0.088	mg/Kg	☼	08/14/20 17:27	08/17/20 15:36	1
4-Chloroaniline	<0.17		0.71	0.17	mg/Kg	☼	08/14/20 17:27	08/17/20 15:36	1
4-Chloro-3-methylphenol	<0.12		0.35	0.12	mg/Kg	☼	08/14/20 17:27	08/17/20 15:36	1
2-Chloronaphthalene	<0.039		0.18	0.039	mg/Kg	☼	08/14/20 17:27	08/17/20 15:36	1
2-Chlorophenol	<0.060		0.18	0.060	mg/Kg	☼	08/14/20 17:27	08/17/20 15:36	1
4-Chlorophenyl phenyl ether	<0.041		0.18	0.041	mg/Kg	☼	08/14/20 17:27	08/17/20 15:36	1
Chrysene	0.033	J	0.035	0.0097	mg/Kg	☼	08/14/20 17:27	08/17/20 15:36	1
Dibenz(a,h)anthracene	0.0085	J	0.035	0.0068	mg/Kg	☼	08/14/20 17:27	08/17/20 15:36	1
Dibenzofuran	<0.041		0.18	0.041	mg/Kg	☼	08/14/20 17:27	08/17/20 15:36	1
1,2-Dichlorobenzene	<0.042		0.18	0.042	mg/Kg	☼	08/14/20 17:27	08/17/20 15:36	1
1,3-Dichlorobenzene	<0.040		0.18	0.040	mg/Kg	☼	08/14/20 17:27	08/17/20 15:36	1
1,4-Dichlorobenzene	<0.045		0.18	0.045	mg/Kg	☼	08/14/20 17:27	08/17/20 15:36	1
3,3'-Dichlorobenzidine	<0.050		0.18	0.050	mg/Kg	☼	08/14/20 17:27	08/17/20 15:36	1
2,4-Dichlorophenol	<0.084		0.35	0.084	mg/Kg	☼	08/14/20 17:27	08/17/20 15:36	1
Diethyl phthalate	<0.060		0.18	0.060	mg/Kg	☼	08/14/20 17:27	08/17/20 15:36	1
2,4-Dimethylphenol	<0.13		0.35	0.13	mg/Kg	☼	08/14/20 17:27	08/17/20 15:36	1
Dimethyl phthalate	<0.046		0.18	0.046	mg/Kg	☼	08/14/20 17:27	08/17/20 15:36	1
Di-n-butyl phthalate	<0.054		0.18	0.054	mg/Kg	☼	08/14/20 17:27	08/17/20 15:36	1
4,6-Dinitro-2-methylphenol	<0.28		0.71	0.28	mg/Kg	☼	08/14/20 17:27	08/17/20 15:36	1
2,4-Dinitrophenol	<0.62		0.71	0.62	mg/Kg	☼	08/14/20 17:27	08/17/20 15:36	1
2,4-Dinitrotoluene	<0.056		0.18	0.056	mg/Kg	☼	08/14/20 17:27	08/17/20 15:36	1
2,6-Dinitrotoluene	<0.070		0.18	0.070	mg/Kg	☼	08/14/20 17:27	08/17/20 15:36	1
Di-n-octyl phthalate	<0.058		0.18	0.058	mg/Kg	☼	08/14/20 17:27	08/17/20 15:36	1
Fluoranthene	0.060		0.035	0.0066	mg/Kg	☼	08/14/20 17:27	08/17/20 15:36	1
Fluorene	<0.0050		0.035	0.0050	mg/Kg	☼	08/14/20 17:27	08/17/20 15:36	1
Hexachlorobenzene	<0.0082		0.071	0.0082	mg/Kg	☼	08/14/20 17:27	08/17/20 15:36	1
Hexachlorobutadiene	<0.056		0.18	0.056	mg/Kg	☼	08/14/20 17:27	08/17/20 15:36	1
Hexachlorocyclopentadiene	<0.20		0.71	0.20	mg/Kg	☼	08/14/20 17:27	08/17/20 15:36	1
Hexachloroethane	<0.054		0.18	0.054	mg/Kg	☼	08/14/20 17:27	08/17/20 15:36	1
Indeno[1,2,3-cd]pyrene	0.022	J	0.035	0.0092	mg/Kg	☼	08/14/20 17:27	08/17/20 15:36	1
Isophorone	<0.040		0.18	0.040	mg/Kg	☼	08/14/20 17:27	08/17/20 15:36	1
2-Methylnaphthalene	<0.0065		0.071	0.0065	mg/Kg	☼	08/14/20 17:27	08/17/20 15:36	1
2-Methylphenol	<0.057		0.18	0.057	mg/Kg	☼	08/14/20 17:27	08/17/20 15:36	1
3 & 4 Methylphenol	<0.059		0.18	0.059	mg/Kg	☼	08/14/20 17:27	08/17/20 15:36	1
Naphthalene	<0.0054		0.035	0.0054	mg/Kg	☼	08/14/20 17:27	08/17/20 15:36	1
2-Nitroaniline	<0.048		0.18	0.048	mg/Kg	☼	08/14/20 17:27	08/17/20 15:36	1
3-Nitroaniline	<0.11		0.35	0.11	mg/Kg	☼	08/14/20 17:27	08/17/20 15:36	1
4-Nitroaniline	<0.15		0.35	0.15	mg/Kg	☼	08/14/20 17:27	08/17/20 15:36	1
Nitrobenzene	<0.0088		0.035	0.0088	mg/Kg	☼	08/14/20 17:27	08/17/20 15:36	1
2-Nitrophenol	<0.084		0.35	0.084	mg/Kg	☼	08/14/20 17:27	08/17/20 15:36	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

Client Sample ID: 2412V2-12-B02 (5-7.5)

Lab Sample ID: 500-185942-4

Date Collected: 08/04/20 09:10

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 90.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.34		0.71	0.34	mg/Kg	☼	08/14/20 17:27	08/17/20 15:36	1
N-Nitrosodi-n-propylamine	<0.043		0.071	0.043	mg/Kg	☼	08/14/20 17:27	08/17/20 15:36	1
N-Nitrosodiphenylamine	<0.042		0.18	0.042	mg/Kg	☼	08/14/20 17:27	08/17/20 15:36	1
2,2'-oxybis[1-chloropropane]	<0.041		0.18	0.041	mg/Kg	☼	08/14/20 17:27	08/17/20 15:36	1
Pentachlorophenol	<0.57		0.71	0.57	mg/Kg	☼	08/14/20 17:27	08/17/20 15:36	1
Phenanthrene	0.023	J	0.035	0.0049	mg/Kg	☼	08/14/20 17:27	08/17/20 15:36	1
Phenol	<0.079		0.18	0.079	mg/Kg	☼	08/14/20 17:27	08/17/20 15:36	1
Pyrene	0.053		0.035	0.0070	mg/Kg	☼	08/14/20 17:27	08/17/20 15:36	1
1,2,4-Trichlorobenzene	<0.038		0.18	0.038	mg/Kg	☼	08/14/20 17:27	08/17/20 15:36	1
2,4,5-Trichlorophenol	<0.081		0.35	0.081	mg/Kg	☼	08/14/20 17:27	08/17/20 15:36	1
2,4,6-Trichlorophenol	<0.12		0.35	0.12	mg/Kg	☼	08/14/20 17:27	08/17/20 15:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	91		43 - 145	08/14/20 17:27	08/17/20 15:36	1
2-Fluorophenol	100		31 - 166	08/14/20 17:27	08/17/20 15:36	1
Nitrobenzene-d5	86		37 - 147	08/14/20 17:27	08/17/20 15:36	1
Phenol-d5	85		30 - 153	08/14/20 17:27	08/17/20 15:36	1
Terphenyl-d14	104		42 - 157	08/14/20 17:27	08/17/20 15:36	1
2,4,6-Tribromophenol	56		31 - 143	08/14/20 17:27	08/17/20 15:36	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.26	J B	1.0	0.20	mg/Kg	☼	08/11/20 17:27	08/12/20 18:09	1
Arsenic	3.6		0.51	0.17	mg/Kg	☼	08/11/20 17:27	08/12/20 18:09	1
Barium	25		0.51	0.058	mg/Kg	☼	08/11/20 17:27	08/12/20 18:09	1
Beryllium	0.47		0.20	0.047	mg/Kg	☼	08/11/20 17:27	08/12/20 18:09	1
Cadmium	0.10	B	0.10	0.018	mg/Kg	☼	08/11/20 17:27	08/12/20 18:09	1
Chromium	10	B	0.51	0.25	mg/Kg	☼	08/11/20 17:27	08/12/20 18:09	1
Cobalt	5.2		0.25	0.066	mg/Kg	☼	08/11/20 17:27	08/12/20 18:09	1
Copper	10		0.51	0.14	mg/Kg	☼	08/11/20 17:27	08/12/20 18:09	1
Iron	24000	B	100	53	mg/Kg	☼	08/11/20 17:27	08/13/20 00:38	10
Lead	7.0		0.25	0.12	mg/Kg	☼	08/11/20 17:27	08/12/20 18:09	1
Magnesium	71000	B	51	25	mg/Kg	☼	08/11/20 17:27	08/13/20 00:38	10
Calcium	150000	B	100	17	mg/Kg	☼	08/11/20 17:27	08/13/20 00:38	10
Manganese	250		0.51	0.074	mg/Kg	☼	08/11/20 17:27	08/12/20 18:09	1
Nickel	14		0.51	0.15	mg/Kg	☼	08/11/20 17:27	08/12/20 18:09	1
Selenium	<0.30		0.51	0.30	mg/Kg	☼	08/11/20 17:27	08/12/20 18:09	1
Silver	<0.065		0.25	0.065	mg/Kg	☼	08/11/20 17:27	08/12/20 18:09	1
Thallium	<0.25		0.51	0.25	mg/Kg	☼	08/11/20 17:27	08/12/20 18:09	1
Vanadium	14		0.25	0.060	mg/Kg	☼	08/11/20 17:27	08/12/20 18:09	1
Zinc	37		1.0	0.45	mg/Kg	☼	08/11/20 17:27	08/12/20 18:09	1
Potassium	1500		25	9.0	mg/Kg	☼	08/11/20 17:27	08/12/20 18:09	1
Sodium	160		51	7.5	mg/Kg	☼	08/11/20 17:27	08/12/20 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		08/17/20 17:21	08/18/20 02:58	1
Barium	0.20	J	0.50	0.050	mg/L		08/17/20 17:21	08/18/20 02:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/17/20 17:21	08/18/20 02:58	1
Cadmium	0.0024	J	0.0050	0.0020	mg/L		08/17/20 17:21	08/18/20 02:58	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

Client Sample ID: 2412V2-12-B02 (5-7.5)

Lab Sample ID: 500-185942-4

Date Collected: 08/04/20 09:10

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 90.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	1400		50	5.0	mg/L		08/17/20 17:21	08/18/20 07:34	10
Chromium	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:58	1
Cobalt	0.019	J	0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:58	1
Copper	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:58	1
Iron	<0.20		0.40	0.20	mg/L		08/17/20 17:21	08/18/20 07:30	1
Lead	0.010		0.0075	0.0075	mg/L		08/17/20 17:21	08/18/20 02:58	1
Magnesium	230		2.5	0.50	mg/L		08/17/20 17:21	08/18/20 07:30	1
Manganese	3.2		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:58	1
Nickel	0.026		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:58	1
Potassium	0.89	J	2.5	0.50	mg/L		08/17/20 17:21	08/18/20 02:58	1
Selenium	<0.020		0.050	0.020	mg/L		08/17/20 17:21	08/18/20 02:58	1
Silver	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:58	1
Vanadium	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:58	1
Zinc	0.023	J B	0.50	0.020	mg/L		08/17/20 17:21	08/18/20 02:58	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		08/17/20 17:17	08/18/20 04:26	1
Manganese	0.059		0.025	0.010	mg/L		08/17/20 17:17	08/18/20 04:26	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		08/17/20 17:21	08/18/20 10:19	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		08/17/20 17:21	08/18/20 10:19	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		08/18/20 09:55	08/19/20 08:47	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0058		0.017	0.0058	mg/Kg	☼	08/11/20 14:25	08/12/20 09:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.14		0.29	0.14	mg/Kg	☼	08/14/20 15:05	08/17/20 15:29	1
pH	8.7		0.2	0.2	SU			08/11/20 17:14	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

Client Sample ID: 2412V2-12-B03 (0-5)

Lab Sample ID: 500-185942-5

Date Collected: 08/04/20 08:30

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 96.4

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	☼	08/05/20 08:30	08/12/20 19:09	1
Benzene	<0.00044		0.0017	0.00044	mg/Kg	☼	08/05/20 08:30	08/12/20 19:09	1
Bromodichloromethane	<0.00035		0.0017	0.00035	mg/Kg	☼	08/05/20 08:30	08/12/20 19:09	1
Bromoform	<0.00050		0.0017	0.00050	mg/Kg	☼	08/05/20 08:30	08/12/20 19:09	1
Bromomethane	<0.0016	*	0.0043	0.0016	mg/Kg	☼	08/05/20 08:30	08/12/20 19:09	1
2-Butanone (MEK)	<0.0019		0.0043	0.0019	mg/Kg	☼	08/05/20 08:30	08/12/20 19:09	1
Carbon disulfide	<0.00090		0.0043	0.00090	mg/Kg	☼	08/05/20 08:30	08/12/20 19:09	1
Carbon tetrachloride	<0.00050		0.0017	0.00050	mg/Kg	☼	08/05/20 08:30	08/12/20 19:09	1
Chlorobenzene	<0.00064		0.0017	0.00064	mg/Kg	☼	08/05/20 08:30	08/12/20 19:09	1
Chloroethane	<0.0013		0.0043	0.0013	mg/Kg	☼	08/05/20 08:30	08/12/20 19:09	1
Chloroform	<0.00060		0.0017	0.00060	mg/Kg	☼	08/05/20 08:30	08/12/20 19:09	1
Chloromethane	<0.0017	*	0.0043	0.0017	mg/Kg	☼	08/05/20 08:30	08/12/20 19:09	1
cis-1,2-Dichloroethene	<0.00048		0.0017	0.00048	mg/Kg	☼	08/05/20 08:30	08/12/20 19:09	1
cis-1,3-Dichloropropene	<0.00052		0.0017	0.00052	mg/Kg	☼	08/05/20 08:30	08/12/20 19:09	1
Dibromochloromethane	<0.00056		0.0017	0.00056	mg/Kg	☼	08/05/20 08:30	08/12/20 19:09	1
1,1-Dichloroethane	<0.00059		0.0017	0.00059	mg/Kg	☼	08/05/20 08:30	08/12/20 19:09	1
1,2-Dichloroethane	<0.0013		0.0043	0.0013	mg/Kg	☼	08/05/20 08:30	08/12/20 19:09	1
1,1-Dichloroethene	<0.00059		0.0017	0.00059	mg/Kg	☼	08/05/20 08:30	08/12/20 19:09	1
1,2-Dichloropropene	<0.00045		0.0017	0.00045	mg/Kg	☼	08/05/20 08:30	08/12/20 19:09	1
1,3-Dichloropropene, Total	<0.00061		0.0017	0.00061	mg/Kg	☼	08/05/20 08:30	08/12/20 19:09	1
Ethylbenzene	<0.00082		0.0017	0.00082	mg/Kg	☼	08/05/20 08:30	08/12/20 19:09	1
2-Hexanone	<0.0013		0.0043	0.0013	mg/Kg	☼	08/05/20 08:30	08/12/20 19:09	1
Methylene Chloride	<0.0017		0.0043	0.0017	mg/Kg	☼	08/05/20 08:30	08/12/20 19:09	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0043	0.0013	mg/Kg	☼	08/05/20 08:30	08/12/20 19:09	1
Methyl tert-butyl ether	<0.00051		0.0017	0.00051	mg/Kg	☼	08/05/20 08:30	08/12/20 19:09	1
Styrene	<0.00052		0.0017	0.00052	mg/Kg	☼	08/05/20 08:30	08/12/20 19:09	1
1,1,2,2-Tetrachloroethane	<0.00055		0.0017	0.00055	mg/Kg	☼	08/05/20 08:30	08/12/20 19:09	1
Tetrachloroethene	<0.00059		0.0017	0.00059	mg/Kg	☼	08/05/20 08:30	08/12/20 19:09	1
Toluene	<0.00044		0.0017	0.00044	mg/Kg	☼	08/05/20 08:30	08/12/20 19:09	1
trans-1,2-Dichloroethene	<0.00076		0.0017	0.00076	mg/Kg	☼	08/05/20 08:30	08/12/20 19:09	1
trans-1,3-Dichloropropene	<0.00061		0.0017	0.00061	mg/Kg	☼	08/05/20 08:30	08/12/20 19:09	1
1,1,1-Trichloroethane	<0.00058		0.0017	0.00058	mg/Kg	☼	08/05/20 08:30	08/12/20 19:09	1
1,1,2-Trichloroethane	<0.00074		0.0017	0.00074	mg/Kg	☼	08/05/20 08:30	08/12/20 19:09	1
Trichloroethene	<0.00058		0.0017	0.00058	mg/Kg	☼	08/05/20 08:30	08/12/20 19:09	1
Vinyl acetate	<0.0015		0.0043	0.0015	mg/Kg	☼	08/05/20 08:30	08/12/20 19:09	1
Vinyl chloride	<0.00076		0.0017	0.00076	mg/Kg	☼	08/05/20 08:30	08/12/20 19:09	1
Xylenes, Total	<0.00055		0.0034	0.00055	mg/Kg	☼	08/05/20 08:30	08/12/20 19:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		75 - 131	08/05/20 08:30	08/12/20 19:09	1
Dibromofluoromethane	93		75 - 126	08/05/20 08:30	08/12/20 19:09	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	08/05/20 08:30	08/12/20 19:09	1
Toluene-d8 (Surr)	91		75 - 124	08/05/20 08:30	08/12/20 19:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0059		0.032	0.0059	mg/Kg	☼	08/14/20 17:27	08/17/20 14:18	1
Acenaphthylene	<0.0043		0.032	0.0043	mg/Kg	☼	08/14/20 17:27	08/17/20 14:18	1
Anthracene	<0.0055		0.032	0.0055	mg/Kg	☼	08/14/20 17:27	08/17/20 14:18	1
Benzo[a]anthracene	0.018	J	0.032	0.0044	mg/Kg	☼	08/14/20 17:27	08/17/20 14:18	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

Client Sample ID: 2412V2-12-B03 (0-5)

Lab Sample ID: 500-185942-5

Date Collected: 08/04/20 08:30

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 96.4

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	0.032	0.0063	mg/Kg	☼	08/14/20 17:27	08/17/20 14:18	1
Benzo[b]fluoranthene	0.036		0.032	0.0070	mg/Kg	☼	08/14/20 17:27	08/17/20 14:18	1
Benzo[g,h,i]perylene	0.014	J	0.032	0.011	mg/Kg	☼	08/14/20 17:27	08/17/20 14:18	1
Benzo[k]fluoranthene	0.015	J	0.032	0.0096	mg/Kg	☼	08/14/20 17:27	08/17/20 14:18	1
Bis(2-chloroethoxy)methane	<0.033		0.16	0.033	mg/Kg	☼	08/14/20 17:27	08/17/20 14:18	1
Bis(2-chloroethyl)ether	<0.049		0.16	0.049	mg/Kg	☼	08/14/20 17:27	08/17/20 14:18	1
Bis(2-ethylhexyl) phthalate	<0.060		0.16	0.060	mg/Kg	☼	08/14/20 17:27	08/17/20 14:18	1
4-Bromophenyl phenyl ether	<0.043		0.16	0.043	mg/Kg	☼	08/14/20 17:27	08/17/20 14:18	1
Butyl benzyl phthalate	<0.062		0.16	0.062	mg/Kg	☼	08/14/20 17:27	08/17/20 14:18	1
Carbazole	<0.082		0.16	0.082	mg/Kg	☼	08/14/20 17:27	08/17/20 14:18	1
4-Chloroaniline	<0.15		0.66	0.15	mg/Kg	☼	08/14/20 17:27	08/17/20 14:18	1
4-Chloro-3-methylphenol	<0.11		0.32	0.11	mg/Kg	☼	08/14/20 17:27	08/17/20 14:18	1
2-Chloronaphthalene	<0.036		0.16	0.036	mg/Kg	☼	08/14/20 17:27	08/17/20 14:18	1
2-Chlorophenol	<0.056		0.16	0.056	mg/Kg	☼	08/14/20 17:27	08/17/20 14:18	1
4-Chlorophenyl phenyl ether	<0.038		0.16	0.038	mg/Kg	☼	08/14/20 17:27	08/17/20 14:18	1
Chrysene	0.021	J	0.032	0.0089	mg/Kg	☼	08/14/20 17:27	08/17/20 14:18	1
Dibenz(a,h)anthracene	<0.0063		0.032	0.0063	mg/Kg	☼	08/14/20 17:27	08/17/20 14:18	1
Dibenzofuran	<0.038		0.16	0.038	mg/Kg	☼	08/14/20 17:27	08/17/20 14:18	1
1,2-Dichlorobenzene	<0.039		0.16	0.039	mg/Kg	☼	08/14/20 17:27	08/17/20 14:18	1
1,3-Dichlorobenzene	<0.037		0.16	0.037	mg/Kg	☼	08/14/20 17:27	08/17/20 14:18	1
1,4-Dichlorobenzene	<0.042		0.16	0.042	mg/Kg	☼	08/14/20 17:27	08/17/20 14:18	1
3,3'-Dichlorobenzidine	<0.046		0.16	0.046	mg/Kg	☼	08/14/20 17:27	08/17/20 14:18	1
2,4-Dichlorophenol	<0.078		0.32	0.078	mg/Kg	☼	08/14/20 17:27	08/17/20 14:18	1
Diethyl phthalate	<0.055		0.16	0.055	mg/Kg	☼	08/14/20 17:27	08/17/20 14:18	1
2,4-Dimethylphenol	<0.12		0.32	0.12	mg/Kg	☼	08/14/20 17:27	08/17/20 14:18	1
Dimethyl phthalate	<0.043		0.16	0.043	mg/Kg	☼	08/14/20 17:27	08/17/20 14:18	1
Di-n-butyl phthalate	<0.050		0.16	0.050	mg/Kg	☼	08/14/20 17:27	08/17/20 14:18	1
4,6-Dinitro-2-methylphenol	<0.26		0.66	0.26	mg/Kg	☼	08/14/20 17:27	08/17/20 14:18	1
2,4-Dinitrophenol	<0.57		0.66	0.57	mg/Kg	☼	08/14/20 17:27	08/17/20 14:18	1
2,4-Dinitrotoluene	<0.052		0.16	0.052	mg/Kg	☼	08/14/20 17:27	08/17/20 14:18	1
2,6-Dinitrotoluene	<0.064		0.16	0.064	mg/Kg	☼	08/14/20 17:27	08/17/20 14:18	1
Di-n-octyl phthalate	<0.053		0.16	0.053	mg/Kg	☼	08/14/20 17:27	08/17/20 14:18	1
Fluoranthene	0.036		0.032	0.0061	mg/Kg	☼	08/14/20 17:27	08/17/20 14:18	1
Fluorene	<0.0046		0.032	0.0046	mg/Kg	☼	08/14/20 17:27	08/17/20 14:18	1
Hexachlorobenzene	<0.0076		0.066	0.0076	mg/Kg	☼	08/14/20 17:27	08/17/20 14:18	1
Hexachlorobutadiene	<0.051		0.16	0.051	mg/Kg	☼	08/14/20 17:27	08/17/20 14:18	1
Hexachlorocyclopentadiene	<0.19		0.66	0.19	mg/Kg	☼	08/14/20 17:27	08/17/20 14:18	1
Hexachloroethane	<0.050		0.16	0.050	mg/Kg	☼	08/14/20 17:27	08/17/20 14:18	1
Indeno[1,2,3-cd]pyrene	0.014	J	0.032	0.0085	mg/Kg	☼	08/14/20 17:27	08/17/20 14:18	1
Isophorone	<0.037		0.16	0.037	mg/Kg	☼	08/14/20 17:27	08/17/20 14:18	1
2-Methylnaphthalene	<0.0060		0.066	0.0060	mg/Kg	☼	08/14/20 17:27	08/17/20 14:18	1
2-Methylphenol	<0.052		0.16	0.052	mg/Kg	☼	08/14/20 17:27	08/17/20 14:18	1
3 & 4 Methylphenol	<0.054		0.16	0.054	mg/Kg	☼	08/14/20 17:27	08/17/20 14:18	1
Naphthalene	<0.0050		0.032	0.0050	mg/Kg	☼	08/14/20 17:27	08/17/20 14:18	1
2-Nitroaniline	<0.044		0.16	0.044	mg/Kg	☼	08/14/20 17:27	08/17/20 14:18	1
3-Nitroaniline	<0.10		0.32	0.10	mg/Kg	☼	08/14/20 17:27	08/17/20 14:18	1
4-Nitroaniline	<0.14		0.32	0.14	mg/Kg	☼	08/14/20 17:27	08/17/20 14:18	1
Nitrobenzene	<0.0081		0.032	0.0081	mg/Kg	☼	08/14/20 17:27	08/17/20 14:18	1
2-Nitrophenol	<0.077		0.32	0.077	mg/Kg	☼	08/14/20 17:27	08/17/20 14:18	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

Client Sample ID: 2412V2-12-B03 (0-5)

Lab Sample ID: 500-185942-5

Date Collected: 08/04/20 08:30

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 96.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.31		0.66	0.31	mg/Kg	☼	08/14/20 17:27	08/17/20 14:18	1
N-Nitrosodi-n-propylamine	<0.040		0.066	0.040	mg/Kg	☼	08/14/20 17:27	08/17/20 14:18	1
N-Nitrosodiphenylamine	<0.039		0.16	0.039	mg/Kg	☼	08/14/20 17:27	08/17/20 14:18	1
2,2'-oxybis[1-chloropropane]	<0.038		0.16	0.038	mg/Kg	☼	08/14/20 17:27	08/17/20 14:18	1
Pentachlorophenol	<0.52		0.66	0.52	mg/Kg	☼	08/14/20 17:27	08/17/20 14:18	1
Phenanthrene	0.015	J	0.032	0.0045	mg/Kg	☼	08/14/20 17:27	08/17/20 14:18	1
Phenol	<0.073		0.16	0.073	mg/Kg	☼	08/14/20 17:27	08/17/20 14:18	1
Pyrene	0.029	J	0.032	0.0065	mg/Kg	☼	08/14/20 17:27	08/17/20 14:18	1
1,2,4-Trichlorobenzene	<0.035		0.16	0.035	mg/Kg	☼	08/14/20 17:27	08/17/20 14:18	1
2,4,5-Trichlorophenol	<0.074		0.32	0.074	mg/Kg	☼	08/14/20 17:27	08/17/20 14:18	1
2,4,6-Trichlorophenol	<0.11		0.32	0.11	mg/Kg	☼	08/14/20 17:27	08/17/20 14:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	102		43 - 145				08/14/20 17:27	08/17/20 14:18	1
2-Fluorophenol	82		31 - 166				08/14/20 17:27	08/17/20 14:18	1
Nitrobenzene-d5	75		37 - 147				08/14/20 17:27	08/17/20 14:18	1
Phenol-d5	68		30 - 153				08/14/20 17:27	08/17/20 14:18	1
Terphenyl-d14	108		42 - 157				08/14/20 17:27	08/17/20 14:18	1
2,4,6-Tribromophenol	120		31 - 143				08/14/20 17:27	08/17/20 14:18	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.53	J B	0.99	0.19	mg/Kg	☼	08/11/20 17:27	08/12/20 18:13	1
Arsenic	2.8		0.50	0.17	mg/Kg	☼	08/11/20 17:27	08/12/20 18:13	1
Barium	9.9		0.50	0.057	mg/Kg	☼	08/11/20 17:27	08/12/20 18:13	1
Beryllium	0.23		0.20	0.046	mg/Kg	☼	08/11/20 17:27	08/12/20 18:13	1
Cadmium	0.095	J B	0.099	0.018	mg/Kg	☼	08/11/20 17:27	08/12/20 18:13	1
Chromium	6.4	B	0.50	0.25	mg/Kg	☼	08/11/20 17:27	08/12/20 18:13	1
Cobalt	2.7		0.25	0.065	mg/Kg	☼	08/11/20 17:27	08/12/20 18:13	1
Copper	41		0.50	0.14	mg/Kg	☼	08/11/20 17:27	08/12/20 18:13	1
Iron	9400	B	99	52	mg/Kg	☼	08/11/20 17:27	08/13/20 00:50	10
Lead	8.2		0.25	0.11	mg/Kg	☼	08/11/20 17:27	08/12/20 18:13	1
Magnesium	71000	B	50	25	mg/Kg	☼	08/11/20 17:27	08/13/20 00:50	10
Calcium	140000	B	99	17	mg/Kg	☼	08/11/20 17:27	08/13/20 00:50	10
Manganese	240		0.50	0.072	mg/Kg	☼	08/11/20 17:27	08/12/20 18:13	1
Nickel	7.9		0.50	0.14	mg/Kg	☼	08/11/20 17:27	08/12/20 18:13	1
Selenium	<0.29		0.50	0.29	mg/Kg	☼	08/11/20 17:27	08/12/20 18:13	1
Silver	<0.064		0.25	0.064	mg/Kg	☼	08/11/20 17:27	08/12/20 18:13	1
Thallium	<0.25		0.50	0.25	mg/Kg	☼	08/11/20 17:27	08/12/20 18:13	1
Vanadium	10		0.25	0.059	mg/Kg	☼	08/11/20 17:27	08/12/20 18:13	1
Zinc	21		0.99	0.44	mg/Kg	☼	08/11/20 17:27	08/12/20 18:13	1
Potassium	560		25	8.8	mg/Kg	☼	08/11/20 17:27	08/12/20 18:13	1
Sodium	210		50	7.4	mg/Kg	☼	08/11/20 17:27	08/12/20 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		08/17/20 17:21	08/18/20 02:21	1
Barium	0.22	J	0.50	0.050	mg/L		08/17/20 17:21	08/18/20 02:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/17/20 17:21	08/18/20 02:21	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/17/20 17:21	08/18/20 02:21	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

Client Sample ID: 2412V2-12-B03 (0-5)

Lab Sample ID: 500-185942-5

Date Collected: 08/04/20 08:30

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 96.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	540		5.0	0.50	mg/L		08/17/20 17:21	08/18/20 02:21	1
Chromium	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:21	1
Cobalt	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:21	1
Copper	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:21	1
Iron	<0.20		0.40	0.20	mg/L		08/17/20 17:21	08/18/20 02:21	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/17/20 17:21	08/18/20 02:21	1
Magnesium	67		2.5	0.50	mg/L		08/17/20 17:21	08/18/20 02:21	1
Manganese	1.2		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:21	1
Nickel	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:21	1
Potassium	1.5 J		2.5	0.50	mg/L		08/17/20 17:21	08/18/20 02:21	1
Selenium	<0.020		0.050	0.020	mg/L		08/17/20 17:21	08/18/20 02:21	1
Silver	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:21	1
Vanadium	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:21	1
Zinc	<0.020		0.50	0.020	mg/L		08/17/20 17:21	08/18/20 02:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.039		0.025	0.010	mg/L		08/17/20 17:17	08/18/20 04:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		08/17/20 17:21	08/18/20 09:53	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		08/17/20 17:21	08/18/20 09:53	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		08/18/20 09:55	08/19/20 09:47	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0055		0.017	0.0055	mg/Kg	☼	08/11/20 14:25	08/12/20 09:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.13		0.27	0.13	mg/Kg	☼	08/14/20 15:05	08/17/20 15:33	1
pH	9.1		0.2	0.2	SU			08/11/20 17:17	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

Client Sample ID: 2412V2-12-B03 (0-5) Dup

Lab Sample ID: 500-185942-6

Date Collected: 08/04/20 08:35

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 96.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0083		0.019	0.0083	mg/Kg	☼	08/05/20 08:30	08/13/20 11:39	1
Benzene	<0.00048		0.0019	0.00048	mg/Kg	☼	08/05/20 08:30	08/13/20 11:39	1
Bromodichloromethane	<0.00039		0.0019	0.00039	mg/Kg	☼	08/05/20 08:30	08/13/20 11:39	1
Bromoform	<0.00055		0.0019	0.00055	mg/Kg	☼	08/05/20 08:30	08/13/20 11:39	1
Bromomethane	<0.0018		0.0047	0.0018	mg/Kg	☼	08/05/20 08:30	08/13/20 11:39	1
2-Butanone (MEK)	<0.0021		0.0047	0.0021	mg/Kg	☼	08/05/20 08:30	08/13/20 11:39	1
Carbon disulfide	<0.00099		0.0047	0.00099	mg/Kg	☼	08/05/20 08:30	08/13/20 11:39	1
Carbon tetrachloride	<0.00055		0.0019	0.00055	mg/Kg	☼	08/05/20 08:30	08/13/20 11:39	1
Chlorobenzene	<0.00070		0.0019	0.00070	mg/Kg	☼	08/05/20 08:30	08/13/20 11:39	1
Chloroethane	<0.0014 *		0.0047	0.0014	mg/Kg	☼	08/05/20 08:30	08/13/20 11:39	1
Chloroform	<0.00066		0.0019	0.00066	mg/Kg	☼	08/05/20 08:30	08/13/20 11:39	1
Chloromethane	<0.0019		0.0047	0.0019	mg/Kg	☼	08/05/20 08:30	08/13/20 11:39	1
cis-1,2-Dichloroethene	<0.00053		0.0019	0.00053	mg/Kg	☼	08/05/20 08:30	08/13/20 11:39	1
cis-1,3-Dichloropropene	<0.00057		0.0019	0.00057	mg/Kg	☼	08/05/20 08:30	08/13/20 11:39	1
Dibromochloromethane	<0.00062		0.0019	0.00062	mg/Kg	☼	08/05/20 08:30	08/13/20 11:39	1
1,1-Dichloroethane	<0.00065		0.0019	0.00065	mg/Kg	☼	08/05/20 08:30	08/13/20 11:39	1
1,2-Dichloroethane	<0.0015		0.0047	0.0015	mg/Kg	☼	08/05/20 08:30	08/13/20 11:39	1
1,1-Dichloroethene	<0.00065		0.0019	0.00065	mg/Kg	☼	08/05/20 08:30	08/13/20 11:39	1
1,2-Dichloropropane	<0.00049		0.0019	0.00049	mg/Kg	☼	08/05/20 08:30	08/13/20 11:39	1
1,3-Dichloropropane, Total	<0.00067		0.0019	0.00067	mg/Kg	☼	08/05/20 08:30	08/13/20 11:39	1
Ethylbenzene	<0.00091		0.0019	0.00091	mg/Kg	☼	08/05/20 08:30	08/13/20 11:39	1
2-Hexanone	<0.0015		0.0047	0.0015	mg/Kg	☼	08/05/20 08:30	08/13/20 11:39	1
Methylene Chloride	<0.0019		0.0047	0.0019	mg/Kg	☼	08/05/20 08:30	08/13/20 11:39	1
4-Methyl-2-pentanone (MIBK)	<0.0014		0.0047	0.0014	mg/Kg	☼	08/05/20 08:30	08/13/20 11:39	1
Methyl tert-butyl ether	<0.00056		0.0019	0.00056	mg/Kg	☼	08/05/20 08:30	08/13/20 11:39	1
Styrene	<0.00057		0.0019	0.00057	mg/Kg	☼	08/05/20 08:30	08/13/20 11:39	1
1,1,2,2-Tetrachloroethane	<0.00061		0.0019	0.00061	mg/Kg	☼	08/05/20 08:30	08/13/20 11:39	1
Tetrachloroethene	<0.00065		0.0019	0.00065	mg/Kg	☼	08/05/20 08:30	08/13/20 11:39	1
Toluene	<0.00048		0.0019	0.00048	mg/Kg	☼	08/05/20 08:30	08/13/20 11:39	1
trans-1,2-Dichloroethene	<0.00084		0.0019	0.00084	mg/Kg	☼	08/05/20 08:30	08/13/20 11:39	1
trans-1,3-Dichloropropene	<0.00067		0.0019	0.00067	mg/Kg	☼	08/05/20 08:30	08/13/20 11:39	1
1,1,1-Trichloroethane	<0.00064		0.0019	0.00064	mg/Kg	☼	08/05/20 08:30	08/13/20 11:39	1
1,1,2-Trichloroethane	<0.00081		0.0019	0.00081	mg/Kg	☼	08/05/20 08:30	08/13/20 11:39	1
Trichloroethene	<0.00064		0.0019	0.00064	mg/Kg	☼	08/05/20 08:30	08/13/20 11:39	1
Vinyl acetate	<0.0017		0.0047	0.0017	mg/Kg	☼	08/05/20 08:30	08/13/20 11:39	1
Vinyl chloride	<0.00084		0.0019	0.00084	mg/Kg	☼	08/05/20 08:30	08/13/20 11:39	1
Xylenes, Total	<0.00061		0.0038	0.00061	mg/Kg	☼	08/05/20 08:30	08/13/20 11:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		75 - 131	08/05/20 08:30	08/13/20 11:39	1
Dibromofluoromethane	99		75 - 126	08/05/20 08:30	08/13/20 11:39	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	08/05/20 08:30	08/13/20 11:39	1
Toluene-d8 (Surr)	94		75 - 124	08/05/20 08:30	08/13/20 11:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.013	J	0.034	0.0062	mg/Kg	☼	08/14/20 17:27	08/17/20 16:06	1
Acenaphthylene	<0.0045		0.034	0.0045	mg/Kg	☼	08/14/20 17:27	08/17/20 16:06	1
Anthracene	0.10		0.034	0.0058	mg/Kg	☼	08/14/20 17:27	08/17/20 16:06	1
Benzo[a]anthracene	0.46		0.034	0.0046	mg/Kg	☼	08/14/20 17:27	08/17/20 16:06	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

Client Sample ID: 2412V2-12-B03 (0-5) Dup

Lab Sample ID: 500-185942-6

Date Collected: 08/04/20 08:35

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 96.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.39		0.034	0.0067	mg/Kg	☼	08/14/20 17:27	08/17/20 16:06	1
Benzo[b]fluoranthene	0.69		0.034	0.0074	mg/Kg	☼	08/14/20 17:27	08/17/20 16:06	1
Benzo[g,h,i]perylene	0.13		0.034	0.011	mg/Kg	☼	08/14/20 17:27	08/17/20 16:06	1
Benzo[k]fluoranthene	0.27		0.034	0.010	mg/Kg	☼	08/14/20 17:27	08/17/20 16:06	1
Bis(2-chloroethoxy)methane	<0.035		0.17	0.035	mg/Kg	☼	08/14/20 17:27	08/17/20 16:06	1
Bis(2-chloroethyl)ether	<0.052		0.17	0.052	mg/Kg	☼	08/14/20 17:27	08/17/20 16:06	1
Bis(2-ethylhexyl) phthalate	<0.063		0.17	0.063	mg/Kg	☼	08/14/20 17:27	08/17/20 16:06	1
4-Bromophenyl phenyl ether	<0.045		0.17	0.045	mg/Kg	☼	08/14/20 17:27	08/17/20 16:06	1
Butyl benzyl phthalate	<0.065		0.17	0.065	mg/Kg	☼	08/14/20 17:27	08/17/20 16:06	1
Carbazole	<0.086		0.17	0.086	mg/Kg	☼	08/14/20 17:27	08/17/20 16:06	1
4-Chloroaniline	<0.16		0.69	0.16	mg/Kg	☼	08/14/20 17:27	08/17/20 16:06	1
4-Chloro-3-methylphenol	<0.12		0.34	0.12	mg/Kg	☼	08/14/20 17:27	08/17/20 16:06	1
2-Chloronaphthalene	<0.038		0.17	0.038	mg/Kg	☼	08/14/20 17:27	08/17/20 16:06	1
2-Chlorophenol	<0.059		0.17	0.059	mg/Kg	☼	08/14/20 17:27	08/17/20 16:06	1
4-Chlorophenyl phenyl ether	<0.040		0.17	0.040	mg/Kg	☼	08/14/20 17:27	08/17/20 16:06	1
Chrysene	0.43		0.034	0.0094	mg/Kg	☼	08/14/20 17:27	08/17/20 16:06	1
Dibenz(a,h)anthracene	0.036		0.034	0.0067	mg/Kg	☼	08/14/20 17:27	08/17/20 16:06	1
Dibenzofuran	<0.040		0.17	0.040	mg/Kg	☼	08/14/20 17:27	08/17/20 16:06	1
1,2-Dichlorobenzene	<0.041		0.17	0.041	mg/Kg	☼	08/14/20 17:27	08/17/20 16:06	1
1,3-Dichlorobenzene	<0.039		0.17	0.039	mg/Kg	☼	08/14/20 17:27	08/17/20 16:06	1
1,4-Dichlorobenzene	<0.044		0.17	0.044	mg/Kg	☼	08/14/20 17:27	08/17/20 16:06	1
3,3'-Dichlorobenzidine	<0.048		0.17	0.048	mg/Kg	☼	08/14/20 17:27	08/17/20 16:06	1
2,4-Dichlorophenol	<0.082		0.34	0.082	mg/Kg	☼	08/14/20 17:27	08/17/20 16:06	1
Diethyl phthalate	<0.058		0.17	0.058	mg/Kg	☼	08/14/20 17:27	08/17/20 16:06	1
2,4-Dimethylphenol	<0.13		0.34	0.13	mg/Kg	☼	08/14/20 17:27	08/17/20 16:06	1
Dimethyl phthalate	<0.045		0.17	0.045	mg/Kg	☼	08/14/20 17:27	08/17/20 16:06	1
Di-n-butyl phthalate	<0.052		0.17	0.052	mg/Kg	☼	08/14/20 17:27	08/17/20 16:06	1
4,6-Dinitro-2-methylphenol	<0.28		0.69	0.28	mg/Kg	☼	08/14/20 17:27	08/17/20 16:06	1
2,4-Dinitrophenol	<0.61		0.69	0.61	mg/Kg	☼	08/14/20 17:27	08/17/20 16:06	1
2,4-Dinitrotoluene	<0.055		0.17	0.055	mg/Kg	☼	08/14/20 17:27	08/17/20 16:06	1
2,6-Dinitrotoluene	<0.068		0.17	0.068	mg/Kg	☼	08/14/20 17:27	08/17/20 16:06	1
Di-n-octyl phthalate	<0.056		0.17	0.056	mg/Kg	☼	08/14/20 17:27	08/17/20 16:06	1
Fluoranthene	1.3		0.034	0.0064	mg/Kg	☼	08/14/20 17:27	08/17/20 16:06	1
Fluorene	0.017 J		0.034	0.0048	mg/Kg	☼	08/14/20 17:27	08/17/20 16:06	1
Hexachlorobenzene	<0.0080		0.069	0.0080	mg/Kg	☼	08/14/20 17:27	08/17/20 16:06	1
Hexachlorobutadiene	<0.054		0.17	0.054	mg/Kg	☼	08/14/20 17:27	08/17/20 16:06	1
Hexachlorocyclopentadiene	<0.20		0.69	0.20	mg/Kg	☼	08/14/20 17:27	08/17/20 16:06	1
Hexachloroethane	<0.052		0.17	0.052	mg/Kg	☼	08/14/20 17:27	08/17/20 16:06	1
Indeno[1,2,3-cd]pyrene	0.12		0.034	0.0089	mg/Kg	☼	08/14/20 17:27	08/17/20 16:06	1
Isophorone	<0.039		0.17	0.039	mg/Kg	☼	08/14/20 17:27	08/17/20 16:06	1
2-Methylnaphthalene	<0.0063		0.069	0.0063	mg/Kg	☼	08/14/20 17:27	08/17/20 16:06	1
2-Methylphenol	<0.055		0.17	0.055	mg/Kg	☼	08/14/20 17:27	08/17/20 16:06	1
3 & 4 Methylphenol	<0.057		0.17	0.057	mg/Kg	☼	08/14/20 17:27	08/17/20 16:06	1
Naphthalene	<0.0053		0.034	0.0053	mg/Kg	☼	08/14/20 17:27	08/17/20 16:06	1
2-Nitroaniline	<0.046		0.17	0.046	mg/Kg	☼	08/14/20 17:27	08/17/20 16:06	1
3-Nitroaniline	<0.11		0.34	0.11	mg/Kg	☼	08/14/20 17:27	08/17/20 16:06	1
4-Nitroaniline	<0.14		0.34	0.14	mg/Kg	☼	08/14/20 17:27	08/17/20 16:06	1
Nitrobenzene	<0.0086		0.034	0.0086	mg/Kg	☼	08/14/20 17:27	08/17/20 16:06	1
2-Nitrophenol	<0.081		0.34	0.081	mg/Kg	☼	08/14/20 17:27	08/17/20 16:06	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

Client Sample ID: 2412V2-12-B03 (0-5) Dup

Lab Sample ID: 500-185942-6

Date Collected: 08/04/20 08:35

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 96.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.33		0.69	0.33	mg/Kg	☼	08/14/20 17:27	08/17/20 16:06	1
N-Nitrosodi-n-propylamine	<0.042		0.069	0.042	mg/Kg	☼	08/14/20 17:27	08/17/20 16:06	1
N-Nitrosodiphenylamine	<0.041		0.17	0.041	mg/Kg	☼	08/14/20 17:27	08/17/20 16:06	1
2,2'-oxybis[1-chloropropane]	<0.040		0.17	0.040	mg/Kg	☼	08/14/20 17:27	08/17/20 16:06	1
Pentachlorophenol	<0.55		0.69	0.55	mg/Kg	☼	08/14/20 17:27	08/17/20 16:06	1
Phenanthrene	0.55		0.034	0.0048	mg/Kg	☼	08/14/20 17:27	08/17/20 16:06	1
Phenol	<0.076		0.17	0.076	mg/Kg	☼	08/14/20 17:27	08/17/20 16:06	1
Pyrene	0.96		0.034	0.0068	mg/Kg	☼	08/14/20 17:27	08/17/20 16:06	1
1,2,4-Trichlorobenzene	<0.037		0.17	0.037	mg/Kg	☼	08/14/20 17:27	08/17/20 16:06	1
2,4,5-Trichlorophenol	<0.079		0.34	0.079	mg/Kg	☼	08/14/20 17:27	08/17/20 16:06	1
2,4,6-Trichlorophenol	<0.12		0.34	0.12	mg/Kg	☼	08/14/20 17:27	08/17/20 16:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	100		43 - 145	08/14/20 17:27	08/17/20 16:06	1
2-Fluorophenol	79		31 - 166	08/14/20 17:27	08/17/20 16:06	1
Nitrobenzene-d5	72		37 - 147	08/14/20 17:27	08/17/20 16:06	1
Phenol-d5	66		30 - 153	08/14/20 17:27	08/17/20 16:06	1
Terphenyl-d14	112		42 - 157	08/14/20 17:27	08/17/20 16:06	1
2,4,6-Tribromophenol	119		31 - 143	08/14/20 17:27	08/17/20 16:06	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.43	J B	0.98	0.19	mg/Kg	☼	08/11/20 17:27	08/12/20 18:25	1
Arsenic	4.0		0.49	0.17	mg/Kg	☼	08/11/20 17:27	08/12/20 18:25	1
Barium	11		0.49	0.056	mg/Kg	☼	08/11/20 17:27	08/12/20 18:25	1
Beryllium	0.20		0.20	0.046	mg/Kg	☼	08/11/20 17:27	08/12/20 18:25	1
Cadmium	0.099	B	0.098	0.018	mg/Kg	☼	08/11/20 17:27	08/12/20 18:25	1
Chromium	4.4	B	0.49	0.24	mg/Kg	☼	08/11/20 17:27	08/12/20 18:25	1
Cobalt	2.4		0.24	0.064	mg/Kg	☼	08/11/20 17:27	08/12/20 18:25	1
Copper	7.9		0.49	0.14	mg/Kg	☼	08/11/20 17:27	08/12/20 18:25	1
Iron	9700	B	98	51	mg/Kg	☼	08/11/20 17:27	08/13/20 00:54	10
Lead	14		0.24	0.11	mg/Kg	☼	08/11/20 17:27	08/12/20 18:25	1
Magnesium	81000	B	49	24	mg/Kg	☼	08/11/20 17:27	08/13/20 00:54	10
Calcium	150000	B	98	17	mg/Kg	☼	08/11/20 17:27	08/13/20 00:54	10
Manganese	240		0.49	0.071	mg/Kg	☼	08/11/20 17:27	08/12/20 18:25	1
Nickel	6.6		0.49	0.14	mg/Kg	☼	08/11/20 17:27	08/12/20 18:25	1
Selenium	<0.29		0.49	0.29	mg/Kg	☼	08/11/20 17:27	08/12/20 18:25	1
Silver	<0.063		0.24	0.063	mg/Kg	☼	08/11/20 17:27	08/12/20 18:25	1
Thallium	<0.24		0.49	0.24	mg/Kg	☼	08/11/20 17:27	08/12/20 18:25	1
Vanadium	11		0.24	0.058	mg/Kg	☼	08/11/20 17:27	08/12/20 18:25	1
Zinc	21		0.98	0.43	mg/Kg	☼	08/11/20 17:27	08/12/20 18:25	1
Potassium	560		24	8.7	mg/Kg	☼	08/11/20 17:27	08/12/20 18:25	1
Sodium	250		49	7.3	mg/Kg	☼	08/11/20 17:27	08/12/20 18:25	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/17/20 17:21	08/18/20 02:25	1
Barium	0.20	J	0.50	0.050	mg/L		08/17/20 17:21	08/18/20 02:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/17/20 17:21	08/18/20 02:25	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/17/20 17:21	08/18/20 02:25	1

Euofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

Client Sample ID: 2412V2-12-B03 (0-5) Dup

Lab Sample ID: 500-185942-6

Date Collected: 08/04/20 08:35

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 96.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	540		5.0	0.50	mg/L		08/17/20 17:21	08/18/20 02:25	1
Chromium	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:25	1
Cobalt	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:25	1
Copper	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:25	1
Iron	<0.20		0.40	0.20	mg/L		08/17/20 17:21	08/18/20 02:25	1
Lead	0.0096		0.0075	0.0075	mg/L		08/17/20 17:21	08/18/20 02:25	1
Magnesium	72		2.5	0.50	mg/L		08/17/20 17:21	08/18/20 02:25	1
Manganese	1.4		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:25	1
Nickel	0.014	J	0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:25	1
Potassium	1.5	J	2.5	0.50	mg/L		08/17/20 17:21	08/18/20 02:25	1
Selenium	<0.020		0.050	0.020	mg/L		08/17/20 17:21	08/18/20 02:25	1
Silver	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:25	1
Vanadium	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:25	1
Zinc	0.022	J	0.50	0.020	mg/L		08/17/20 17:21	08/18/20 02:25	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		08/17/20 17:17	08/18/20 04:22	1
Manganese	0.030		0.025	0.010	mg/L		08/17/20 17:17	08/18/20 04:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		08/17/20 17:21	08/18/20 09:55	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		08/17/20 17:21	08/18/20 09:55	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/18/20 09:55	08/19/20 09:49	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0070	J	0.016	0.0053	mg/Kg	☼	08/11/20 14:25	08/12/20 09:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.15		0.31	0.15	mg/Kg	☼	08/14/20 15:05	08/17/20 15:37	1
pH	9.1		0.2	0.2	SU			08/11/20 17:19	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

Client Sample ID: 2412V2-12-B03 (5-7.5)

Lab Sample ID: 500-185942-7

Date Collected: 08/04/20 08:40

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 86.5

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	☼	08/05/20 08:30	08/12/20 20:01	1
Benzene	<0.00045		0.0018	0.00045	mg/Kg	☼	08/05/20 08:30	08/12/20 20:01	1
Bromodichloromethane	<0.00036		0.0018	0.00036	mg/Kg	☼	08/05/20 08:30	08/12/20 20:01	1
Bromoform	<0.00052		0.0018	0.00052	mg/Kg	☼	08/05/20 08:30	08/12/20 20:01	1
Bromomethane	<0.0017	*	0.0044	0.0017	mg/Kg	☼	08/05/20 08:30	08/12/20 20:01	1
2-Butanone (MEK)	<0.0020		0.0044	0.0020	mg/Kg	☼	08/05/20 08:30	08/12/20 20:01	1
Carbon disulfide	<0.00092		0.0044	0.00092	mg/Kg	☼	08/05/20 08:30	08/12/20 20:01	1
Carbon tetrachloride	<0.00051		0.0018	0.00051	mg/Kg	☼	08/05/20 08:30	08/12/20 20:01	1
Chlorobenzene	<0.00065		0.0018	0.00065	mg/Kg	☼	08/05/20 08:30	08/12/20 20:01	1
Chloroethane	<0.0013		0.0044	0.0013	mg/Kg	☼	08/05/20 08:30	08/12/20 20:01	1
Chloroform	<0.00061		0.0018	0.00061	mg/Kg	☼	08/05/20 08:30	08/12/20 20:01	1
Chloromethane	<0.0018	*	0.0044	0.0018	mg/Kg	☼	08/05/20 08:30	08/12/20 20:01	1
cis-1,2-Dichloroethene	<0.00049		0.0018	0.00049	mg/Kg	☼	08/05/20 08:30	08/12/20 20:01	1
cis-1,3-Dichloropropene	<0.00053		0.0018	0.00053	mg/Kg	☼	08/05/20 08:30	08/12/20 20:01	1
Dibromochloromethane	<0.00058		0.0018	0.00058	mg/Kg	☼	08/05/20 08:30	08/12/20 20:01	1
1,1-Dichloroethane	<0.00060		0.0018	0.00060	mg/Kg	☼	08/05/20 08:30	08/12/20 20:01	1
1,2-Dichloroethane	<0.0014		0.0044	0.0014	mg/Kg	☼	08/05/20 08:30	08/12/20 20:01	1
1,1-Dichloroethene	<0.00061		0.0018	0.00061	mg/Kg	☼	08/05/20 08:30	08/12/20 20:01	1
1,2-Dichloropropane	<0.00046		0.0018	0.00046	mg/Kg	☼	08/05/20 08:30	08/12/20 20:01	1
1,3-Dichloropropane, Total	<0.00062		0.0018	0.00062	mg/Kg	☼	08/05/20 08:30	08/12/20 20:01	1
Ethylbenzene	<0.00084		0.0018	0.00084	mg/Kg	☼	08/05/20 08:30	08/12/20 20:01	1
2-Hexanone	<0.0014		0.0044	0.0014	mg/Kg	☼	08/05/20 08:30	08/12/20 20:01	1
Methylene Chloride	<0.0017		0.0044	0.0017	mg/Kg	☼	08/05/20 08:30	08/12/20 20:01	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0044	0.0013	mg/Kg	☼	08/05/20 08:30	08/12/20 20:01	1
Methyl tert-butyl ether	<0.00052		0.0018	0.00052	mg/Kg	☼	08/05/20 08:30	08/12/20 20:01	1
Styrene	<0.00053		0.0018	0.00053	mg/Kg	☼	08/05/20 08:30	08/12/20 20:01	1
1,1,2,2-Tetrachloroethane	<0.00056		0.0018	0.00056	mg/Kg	☼	08/05/20 08:30	08/12/20 20:01	1
Tetrachloroethene	<0.00060		0.0018	0.00060	mg/Kg	☼	08/05/20 08:30	08/12/20 20:01	1
Toluene	<0.00045		0.0018	0.00045	mg/Kg	☼	08/05/20 08:30	08/12/20 20:01	1
trans-1,2-Dichloroethene	<0.00078		0.0018	0.00078	mg/Kg	☼	08/05/20 08:30	08/12/20 20:01	1
trans-1,3-Dichloropropene	<0.00062		0.0018	0.00062	mg/Kg	☼	08/05/20 08:30	08/12/20 20:01	1
1,1,1-Trichloroethane	<0.00059		0.0018	0.00059	mg/Kg	☼	08/05/20 08:30	08/12/20 20:01	1
1,1,2-Trichloroethane	<0.00076		0.0018	0.00076	mg/Kg	☼	08/05/20 08:30	08/12/20 20:01	1
Trichloroethene	<0.00060		0.0018	0.00060	mg/Kg	☼	08/05/20 08:30	08/12/20 20:01	1
Vinyl acetate	<0.0015		0.0044	0.0015	mg/Kg	☼	08/05/20 08:30	08/12/20 20:01	1
Vinyl chloride	<0.00078		0.0018	0.00078	mg/Kg	☼	08/05/20 08:30	08/12/20 20:01	1
Xylenes, Total	<0.00056		0.0035	0.00056	mg/Kg	☼	08/05/20 08:30	08/12/20 20:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		75 - 131	08/05/20 08:30	08/12/20 20:01	1
Dibromofluoromethane	91		75 - 126	08/05/20 08:30	08/12/20 20:01	1
1,2-Dichloroethane-d4 (Surr)	88		70 - 134	08/05/20 08:30	08/12/20 20:01	1
Toluene-d8 (Surr)	91		75 - 124	08/05/20 08:30	08/12/20 20:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0067		0.037	0.0067	mg/Kg	☼	08/14/20 17:27	08/17/20 16:58	1
Acenaphthylene	<0.0049		0.037	0.0049	mg/Kg	☼	08/14/20 17:27	08/17/20 16:58	1
Anthracene	<0.0063		0.037	0.0063	mg/Kg	☼	08/14/20 17:27	08/17/20 16:58	1
Benzo[a]anthracene	0.026	J	0.037	0.0050	mg/Kg	☼	08/14/20 17:27	08/17/20 16:58	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

Client Sample ID: 2412V2-12-B03 (5-7.5)

Lab Sample ID: 500-185942-7

Date Collected: 08/04/20 08:40

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 86.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.037		0.037	0.0073	mg/Kg	☼	08/14/20 17:27	08/17/20 16:58	1
Benzo[b]fluoranthene	0.040		0.037	0.0081	mg/Kg	☼	08/14/20 17:27	08/17/20 16:58	1
Benzo[g,h,i]perylene	0.026	J	0.037	0.012	mg/Kg	☼	08/14/20 17:27	08/17/20 16:58	1
Benzo[k]fluoranthene	0.013	J	0.037	0.011	mg/Kg	☼	08/14/20 17:27	08/17/20 16:58	1
Bis(2-chloroethoxy)methane	<0.038		0.19	0.038	mg/Kg	☼	08/14/20 17:27	08/17/20 16:58	1
Bis(2-chloroethyl)ether	<0.056		0.19	0.056	mg/Kg	☼	08/14/20 17:27	08/17/20 16:58	1
Bis(2-ethylhexyl) phthalate	<0.068		0.19	0.068	mg/Kg	☼	08/14/20 17:27	08/17/20 16:58	1
4-Bromophenyl phenyl ether	<0.049		0.19	0.049	mg/Kg	☼	08/14/20 17:27	08/17/20 16:58	1
Butyl benzyl phthalate	<0.071		0.19	0.071	mg/Kg	☼	08/14/20 17:27	08/17/20 16:58	1
Carbazole	<0.094		0.19	0.094	mg/Kg	☼	08/14/20 17:27	08/17/20 16:58	1
4-Chloroaniline	<0.18		0.76	0.18	mg/Kg	☼	08/14/20 17:27	08/17/20 16:58	1
4-Chloro-3-methylphenol	<0.13		0.37	0.13	mg/Kg	☼	08/14/20 17:27	08/17/20 16:58	1
2-Chloronaphthalene	<0.041		0.19	0.041	mg/Kg	☼	08/14/20 17:27	08/17/20 16:58	1
2-Chlorophenol	<0.064		0.19	0.064	mg/Kg	☼	08/14/20 17:27	08/17/20 16:58	1
4-Chlorophenyl phenyl ether	<0.044		0.19	0.044	mg/Kg	☼	08/14/20 17:27	08/17/20 16:58	1
Chrysene	0.031	J	0.037	0.010	mg/Kg	☼	08/14/20 17:27	08/17/20 16:58	1
Dibenz(a,h)anthracene	0.0085	J	0.037	0.0072	mg/Kg	☼	08/14/20 17:27	08/17/20 16:58	1
Dibenzofuran	<0.044		0.19	0.044	mg/Kg	☼	08/14/20 17:27	08/17/20 16:58	1
1,2-Dichlorobenzene	<0.045		0.19	0.045	mg/Kg	☼	08/14/20 17:27	08/17/20 16:58	1
1,3-Dichlorobenzene	<0.042		0.19	0.042	mg/Kg	☼	08/14/20 17:27	08/17/20 16:58	1
1,4-Dichlorobenzene	<0.048		0.19	0.048	mg/Kg	☼	08/14/20 17:27	08/17/20 16:58	1
3,3'-Dichlorobenzidine	<0.052		0.19	0.052	mg/Kg	☼	08/14/20 17:27	08/17/20 16:58	1
2,4-Dichlorophenol	<0.089		0.37	0.089	mg/Kg	☼	08/14/20 17:27	08/17/20 16:58	1
Diethyl phthalate	<0.064		0.19	0.064	mg/Kg	☼	08/14/20 17:27	08/17/20 16:58	1
2,4-Dimethylphenol	<0.14		0.37	0.14	mg/Kg	☼	08/14/20 17:27	08/17/20 16:58	1
Dimethyl phthalate	<0.049		0.19	0.049	mg/Kg	☼	08/14/20 17:27	08/17/20 16:58	1
Di-n-butyl phthalate	<0.057		0.19	0.057	mg/Kg	☼	08/14/20 17:27	08/17/20 16:58	1
4,6-Dinitro-2-methylphenol	<0.30		0.76	0.30	mg/Kg	☼	08/14/20 17:27	08/17/20 16:58	1
2,4-Dinitrophenol	<0.66		0.76	0.66	mg/Kg	☼	08/14/20 17:27	08/17/20 16:58	1
2,4-Dinitrotoluene	<0.060		0.19	0.060	mg/Kg	☼	08/14/20 17:27	08/17/20 16:58	1
2,6-Dinitrotoluene	<0.074		0.19	0.074	mg/Kg	☼	08/14/20 17:27	08/17/20 16:58	1
Di-n-octyl phthalate	<0.061		0.19	0.061	mg/Kg	☼	08/14/20 17:27	08/17/20 16:58	1
Fluoranthene	0.055		0.037	0.0070	mg/Kg	☼	08/14/20 17:27	08/17/20 16:58	1
Fluorene	<0.0053		0.037	0.0053	mg/Kg	☼	08/14/20 17:27	08/17/20 16:58	1
Hexachlorobenzene	<0.0087		0.076	0.0087	mg/Kg	☼	08/14/20 17:27	08/17/20 16:58	1
Hexachlorobutadiene	<0.059		0.19	0.059	mg/Kg	☼	08/14/20 17:27	08/17/20 16:58	1
Hexachlorocyclopentadiene	<0.22		0.76	0.22	mg/Kg	☼	08/14/20 17:27	08/17/20 16:58	1
Hexachloroethane	<0.057		0.19	0.057	mg/Kg	☼	08/14/20 17:27	08/17/20 16:58	1
Indeno[1,2,3-cd]pyrene	0.023	J	0.037	0.0097	mg/Kg	☼	08/14/20 17:27	08/17/20 16:58	1
Isophorone	<0.042		0.19	0.042	mg/Kg	☼	08/14/20 17:27	08/17/20 16:58	1
2-Methylnaphthalene	<0.0069		0.076	0.0069	mg/Kg	☼	08/14/20 17:27	08/17/20 16:58	1
2-Methylphenol	<0.060		0.19	0.060	mg/Kg	☼	08/14/20 17:27	08/17/20 16:58	1
3 & 4 Methylphenol	<0.063		0.19	0.063	mg/Kg	☼	08/14/20 17:27	08/17/20 16:58	1
Naphthalene	<0.0058		0.037	0.0058	mg/Kg	☼	08/14/20 17:27	08/17/20 16:58	1
2-Nitroaniline	<0.050		0.19	0.050	mg/Kg	☼	08/14/20 17:27	08/17/20 16:58	1
3-Nitroaniline	<0.12		0.37	0.12	mg/Kg	☼	08/14/20 17:27	08/17/20 16:58	1
4-Nitroaniline	<0.16		0.37	0.16	mg/Kg	☼	08/14/20 17:27	08/17/20 16:58	1
Nitrobenzene	<0.0094		0.037	0.0094	mg/Kg	☼	08/14/20 17:27	08/17/20 16:58	1
2-Nitrophenol	<0.089		0.37	0.089	mg/Kg	☼	08/14/20 17:27	08/17/20 16:58	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

Client Sample ID: 2412V2-12-B03 (5-7.5)

Lab Sample ID: 500-185942-7

Date Collected: 08/04/20 08:40

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 86.5

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	☼	08/14/20 17:27	08/17/20 16:58	1
N-Nitrosodi-n-propylamine	<0.046		0.076	0.046	mg/Kg	☼	08/14/20 17:27	08/17/20 16:58	1
N-Nitrosodiphenylamine	<0.044		0.19	0.044	mg/Kg	☼	08/14/20 17:27	08/17/20 16:58	1
2,2'-oxybis[1-chloropropane]	<0.043		0.19	0.043	mg/Kg	☼	08/14/20 17:27	08/17/20 16:58	1
Pentachlorophenol	<0.60		0.76	0.60	mg/Kg	☼	08/14/20 17:27	08/17/20 16:58	1
Phenanthrene	0.022	J	0.037	0.0052	mg/Kg	☼	08/14/20 17:27	08/17/20 16:58	1
Phenol	<0.083		0.19	0.083	mg/Kg	☼	08/14/20 17:27	08/17/20 16:58	1
Pyrene	0.046		0.037	0.0074	mg/Kg	☼	08/14/20 17:27	08/17/20 16:58	1
1,2,4-Trichlorobenzene	<0.040		0.19	0.040	mg/Kg	☼	08/14/20 17:27	08/17/20 16:58	1
2,4,5-Trichlorophenol	<0.086		0.37	0.086	mg/Kg	☼	08/14/20 17:27	08/17/20 16:58	1
2,4,6-Trichlorophenol	<0.13		0.37	0.13	mg/Kg	☼	08/14/20 17:27	08/17/20 16:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	84		43 - 145	08/14/20 17:27	08/17/20 16:58	1
2-Fluorophenol	92		31 - 166	08/14/20 17:27	08/17/20 16:58	1
Nitrobenzene-d5	79		37 - 147	08/14/20 17:27	08/17/20 16:58	1
Phenol-d5	79		30 - 153	08/14/20 17:27	08/17/20 16:58	1
Terphenyl-d14	87		42 - 157	08/14/20 17:27	08/17/20 16:58	1
2,4,6-Tribromophenol	46		31 - 143	08/14/20 17:27	08/17/20 16:58	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.21		1.1	0.21	mg/Kg	☼	08/11/20 17:27	08/12/20 18:29	1
Arsenic	4.1		0.54	0.19	mg/Kg	☼	08/11/20 17:27	08/12/20 18:29	1
Barium	30		0.54	0.062	mg/Kg	☼	08/11/20 17:27	08/12/20 18:29	1
Beryllium	0.38		0.22	0.051	mg/Kg	☼	08/11/20 17:27	08/12/20 18:29	1
Cadmium	0.092	J B	0.11	0.020	mg/Kg	☼	08/11/20 17:27	08/12/20 18:29	1
Chromium	9.4	B	0.54	0.27	mg/Kg	☼	08/11/20 17:27	08/12/20 18:29	1
Cobalt	4.5		0.27	0.071	mg/Kg	☼	08/11/20 17:27	08/12/20 18:29	1
Copper	9.5		0.54	0.15	mg/Kg	☼	08/11/20 17:27	08/12/20 18:29	1
Iron	10000		11	5.7	mg/Kg	☼	08/11/20 17:27	08/12/20 18:29	1
Lead	7.2		0.27	0.13	mg/Kg	☼	08/11/20 17:27	08/12/20 18:29	1
Magnesium	5200		5.4	2.7	mg/Kg	☼	08/11/20 17:27	08/12/20 18:29	1
Calcium	7200	B	11	1.8	mg/Kg	☼	08/11/20 17:27	08/12/20 18:29	1
Manganese	200		0.54	0.079	mg/Kg	☼	08/11/20 17:27	08/12/20 18:29	1
Nickel	12		0.54	0.16	mg/Kg	☼	08/11/20 17:27	08/12/20 18:29	1
Selenium	<0.32		0.54	0.32	mg/Kg	☼	08/11/20 17:27	08/12/20 18:29	1
Silver	<0.070		0.27	0.070	mg/Kg	☼	08/11/20 17:27	08/12/20 18:29	1
Thallium	0.27	J	0.54	0.27	mg/Kg	☼	08/11/20 17:27	08/12/20 18:29	1
Vanadium	16		0.27	0.064	mg/Kg	☼	08/11/20 17:27	08/12/20 18:29	1
Zinc	35		1.1	0.48	mg/Kg	☼	08/11/20 17:27	08/12/20 18:29	1
Potassium	1000		27	9.6	mg/Kg	☼	08/11/20 17:27	08/12/20 18:29	1
Sodium	140		54	8.1	mg/Kg	☼	08/11/20 17:27	08/12/20 18:29	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/17/20 17:21	08/18/20 02:29	1
Barium	0.35	J	0.50	0.050	mg/L		08/17/20 17:21	08/18/20 02:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/17/20 17:21	08/18/20 02:29	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/17/20 17:21	08/18/20 02:29	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

Client Sample ID: 2412V2-12-B03 (5-7.5)

Lab Sample ID: 500-185942-7

Date Collected: 08/04/20 08:40

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 86.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	170		5.0	0.50	mg/L		08/17/20 17:21	08/18/20 02:29	1
Chromium	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:29	1
Cobalt	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:29	1
Copper	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:29	1
Iron	<0.20		0.40	0.20	mg/L		08/17/20 17:21	08/18/20 02:29	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/17/20 17:21	08/18/20 02:29	1
Magnesium	87		2.5	0.50	mg/L		08/17/20 17:21	08/18/20 02:29	1
Manganese	0.46		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:29	1
Nickel	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:29	1
Potassium	3.0		2.5	0.50	mg/L		08/17/20 17:21	08/18/20 02:29	1
Selenium	<0.020		0.050	0.020	mg/L		08/17/20 17:21	08/18/20 02:29	1
Silver	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:29	1
Vanadium	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:29	1
Zinc	0.021	J	0.50	0.020	mg/L		08/17/20 17:21	08/18/20 02:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.54		0.025	0.010	mg/L		08/17/20 17:17	08/18/20 04:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		08/17/20 17:21	08/18/20 09:57	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		08/17/20 17:21	08/18/20 09:57	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		08/18/20 09:55	08/19/20 09:51	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	J	0.019	0.0062	mg/Kg	☼	08/11/20 14:25	08/12/20 09:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.15		0.29	0.15	mg/Kg	☼	08/14/20 15:05	08/17/20 15:40	1
pH	8.5		0.2	0.2	SU			08/11/20 17:22	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

Client Sample ID: 2412V2-12-B04 (0-5)

Lab Sample ID: 500-185942-8

Date Collected: 08/04/20 08:00

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0068		0.016	0.0068	mg/Kg	☼	08/05/20 08:30	08/12/20 20:26	1
Benzene	<0.00040		0.0016	0.00040	mg/Kg	☼	08/05/20 08:30	08/12/20 20:26	1
Bromodichloromethane	<0.00032		0.0016	0.00032	mg/Kg	☼	08/05/20 08:30	08/12/20 20:26	1
Bromoform	<0.00046		0.0016	0.00046	mg/Kg	☼	08/05/20 08:30	08/12/20 20:26	1
Bromomethane	<0.0015 *		0.0039	0.0015	mg/Kg	☼	08/05/20 08:30	08/12/20 20:26	1
2-Butanone (MEK)	<0.0017		0.0039	0.0017	mg/Kg	☼	08/05/20 08:30	08/12/20 20:26	1
Carbon disulfide	<0.00082		0.0039	0.00082	mg/Kg	☼	08/05/20 08:30	08/12/20 20:26	1
Carbon tetrachloride	<0.00046		0.0016	0.00046	mg/Kg	☼	08/05/20 08:30	08/12/20 20:26	1
Chlorobenzene	<0.00058		0.0016	0.00058	mg/Kg	☼	08/05/20 08:30	08/12/20 20:26	1
Chloroethane	<0.0012		0.0039	0.0012	mg/Kg	☼	08/05/20 08:30	08/12/20 20:26	1
Chloroform	<0.00054		0.0016	0.00054	mg/Kg	☼	08/05/20 08:30	08/12/20 20:26	1
Chloromethane	<0.0016 *		0.0039	0.0016	mg/Kg	☼	08/05/20 08:30	08/12/20 20:26	1
cis-1,2-Dichloroethene	<0.00044		0.0016	0.00044	mg/Kg	☼	08/05/20 08:30	08/12/20 20:26	1
cis-1,3-Dichloropropene	<0.00047		0.0016	0.00047	mg/Kg	☼	08/05/20 08:30	08/12/20 20:26	1
Dibromochloromethane	<0.00051		0.0016	0.00051	mg/Kg	☼	08/05/20 08:30	08/12/20 20:26	1
1,1-Dichloroethane	<0.00054		0.0016	0.00054	mg/Kg	☼	08/05/20 08:30	08/12/20 20:26	1
1,2-Dichloroethane	<0.0012		0.0039	0.0012	mg/Kg	☼	08/05/20 08:30	08/12/20 20:26	1
1,1-Dichloroethene	<0.00054		0.0016	0.00054	mg/Kg	☼	08/05/20 08:30	08/12/20 20:26	1
1,2-Dichloropropane	<0.00041		0.0016	0.00041	mg/Kg	☼	08/05/20 08:30	08/12/20 20:26	1
1,3-Dichloropropane, Total	<0.00055		0.0016	0.00055	mg/Kg	☼	08/05/20 08:30	08/12/20 20:26	1
Ethylbenzene	<0.00075		0.0016	0.00075	mg/Kg	☼	08/05/20 08:30	08/12/20 20:26	1
2-Hexanone	<0.0012		0.0039	0.0012	mg/Kg	☼	08/05/20 08:30	08/12/20 20:26	1
Methylene Chloride	<0.0015		0.0039	0.0015	mg/Kg	☼	08/05/20 08:30	08/12/20 20:26	1
4-Methyl-2-pentanone (MIBK)	<0.0012		0.0039	0.0012	mg/Kg	☼	08/05/20 08:30	08/12/20 20:26	1
Methyl tert-butyl ether	<0.00046		0.0016	0.00046	mg/Kg	☼	08/05/20 08:30	08/12/20 20:26	1
Styrene	<0.00047		0.0016	0.00047	mg/Kg	☼	08/05/20 08:30	08/12/20 20:26	1
1,1,2,2-Tetrachloroethane	<0.00050		0.0016	0.00050	mg/Kg	☼	08/05/20 08:30	08/12/20 20:26	1
Tetrachloroethene	<0.00053		0.0016	0.00053	mg/Kg	☼	08/05/20 08:30	08/12/20 20:26	1
Toluene	<0.00040		0.0016	0.00040	mg/Kg	☼	08/05/20 08:30	08/12/20 20:26	1
trans-1,2-Dichloroethene	<0.00070		0.0016	0.00070	mg/Kg	☼	08/05/20 08:30	08/12/20 20:26	1
trans-1,3-Dichloropropene	<0.00055		0.0016	0.00055	mg/Kg	☼	08/05/20 08:30	08/12/20 20:26	1
1,1,1-Trichloroethane	<0.00053		0.0016	0.00053	mg/Kg	☼	08/05/20 08:30	08/12/20 20:26	1
1,1,2-Trichloroethane	<0.00067		0.0016	0.00067	mg/Kg	☼	08/05/20 08:30	08/12/20 20:26	1
Trichloroethene	<0.00053		0.0016	0.00053	mg/Kg	☼	08/05/20 08:30	08/12/20 20:26	1
Vinyl acetate	<0.0014		0.0039	0.0014	mg/Kg	☼	08/05/20 08:30	08/12/20 20:26	1
Vinyl chloride	<0.00069		0.0016	0.00069	mg/Kg	☼	08/05/20 08:30	08/12/20 20:26	1
Xylenes, Total	<0.00050		0.0031	0.00050	mg/Kg	☼	08/05/20 08:30	08/12/20 20:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		75 - 131	08/05/20 08:30	08/12/20 20:26	1
Dibromofluoromethane	93		75 - 126	08/05/20 08:30	08/12/20 20:26	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	08/05/20 08:30	08/12/20 20:26	1
Toluene-d8 (Surr)	90		75 - 124	08/05/20 08:30	08/12/20 20:26	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	☼	08/14/20 17:27	08/17/20 16:04	1
Acenaphthylene	<0.0050		0.038	0.0050	mg/Kg	☼	08/14/20 17:27	08/17/20 16:04	1
Anthracene	<0.0063		0.038	0.0063	mg/Kg	☼	08/14/20 17:27	08/17/20 16:04	1
Benzo[a]anthracene	0.018	J	0.038	0.0051	mg/Kg	☼	08/14/20 17:27	08/17/20 16:04	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

Client Sample ID: 2412V2-12-B04 (0-5)

Lab Sample ID: 500-185942-8

Date Collected: 08/04/20 08:00

Matrix: Solid

Date Received: 08/04/20 17:40

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	0.027	J	0.038	0.0073	mg/Kg	☼	08/14/20 17:27	08/17/20 16:04	1
Benzo[b]fluoranthene	0.027	J	0.038	0.0082	mg/Kg	☼	08/14/20 17:27	08/17/20 16:04	1
Benzo[g,h,i]perylene	0.023	J	0.038	0.012	mg/Kg	☼	08/14/20 17:27	08/17/20 16:04	1
Benzo[k]fluoranthene	0.014	J	0.038	0.011	mg/Kg	☼	08/14/20 17:27	08/17/20 16:04	1
Bis(2-chloroethoxy)methane	<0.039		0.19	0.039	mg/Kg	☼	08/14/20 17:27	08/17/20 16:04	1
Bis(2-chloroethyl)ether	<0.057		0.19	0.057	mg/Kg	☼	08/14/20 17:27	08/17/20 16:04	1
Bis(2-ethylhexyl) phthalate	<0.069		0.19	0.069	mg/Kg	☼	08/14/20 17:27	08/17/20 16:04	1
4-Bromophenyl phenyl ether	<0.050		0.19	0.050	mg/Kg	☼	08/14/20 17:27	08/17/20 16:04	1
Butyl benzyl phthalate	<0.072		0.19	0.072	mg/Kg	☼	08/14/20 17:27	08/17/20 16:04	1
Carbazole	<0.095		0.19	0.095	mg/Kg	☼	08/14/20 17:27	08/17/20 16:04	1
4-Chloroaniline	<0.18		0.76	0.18	mg/Kg	☼	08/14/20 17:27	08/17/20 16:04	1
4-Chloro-3-methylphenol	<0.13		0.38	0.13	mg/Kg	☼	08/14/20 17:27	08/17/20 16:04	1
2-Chloronaphthalene	<0.042		0.19	0.042	mg/Kg	☼	08/14/20 17:27	08/17/20 16:04	1
2-Chlorophenol	<0.065		0.19	0.065	mg/Kg	☼	08/14/20 17:27	08/17/20 16:04	1
4-Chlorophenyl phenyl ether	<0.044		0.19	0.044	mg/Kg	☼	08/14/20 17:27	08/17/20 16:04	1
Chrysene	0.019	J	0.038	0.010	mg/Kg	☼	08/14/20 17:27	08/17/20 16:04	1
Dibenz(a,h)anthracene	<0.0073		0.038	0.0073	mg/Kg	☼	08/14/20 17:27	08/17/20 16:04	1
Dibenzofuran	<0.044		0.19	0.044	mg/Kg	☼	08/14/20 17:27	08/17/20 16:04	1
1,2-Dichlorobenzene	<0.045		0.19	0.045	mg/Kg	☼	08/14/20 17:27	08/17/20 16:04	1
1,3-Dichlorobenzene	<0.043		0.19	0.043	mg/Kg	☼	08/14/20 17:27	08/17/20 16:04	1
1,4-Dichlorobenzene	<0.049		0.19	0.049	mg/Kg	☼	08/14/20 17:27	08/17/20 16:04	1
3,3'-Dichlorobenzidine	<0.053		0.19	0.053	mg/Kg	☼	08/14/20 17:27	08/17/20 16:04	1
2,4-Dichlorophenol	<0.090		0.38	0.090	mg/Kg	☼	08/14/20 17:27	08/17/20 16:04	1
Diethyl phthalate	<0.064		0.19	0.064	mg/Kg	☼	08/14/20 17:27	08/17/20 16:04	1
2,4-Dimethylphenol	<0.14		0.38	0.14	mg/Kg	☼	08/14/20 17:27	08/17/20 16:04	1
Dimethyl phthalate	<0.050		0.19	0.050	mg/Kg	☼	08/14/20 17:27	08/17/20 16:04	1
Di-n-butyl phthalate	<0.058		0.19	0.058	mg/Kg	☼	08/14/20 17:27	08/17/20 16:04	1
4,6-Dinitro-2-methylphenol	<0.30		0.76	0.30	mg/Kg	☼	08/14/20 17:27	08/17/20 16:04	1
2,4-Dinitrophenol	<0.67		0.76	0.67	mg/Kg	☼	08/14/20 17:27	08/17/20 16:04	1
2,4-Dinitrotoluene	<0.060		0.19	0.060	mg/Kg	☼	08/14/20 17:27	08/17/20 16:04	1
2,6-Dinitrotoluene	<0.075		0.19	0.075	mg/Kg	☼	08/14/20 17:27	08/17/20 16:04	1
Di-n-octyl phthalate	<0.062		0.19	0.062	mg/Kg	☼	08/14/20 17:27	08/17/20 16:04	1
Fluoranthene	0.033	J	0.038	0.0070	mg/Kg	☼	08/14/20 17:27	08/17/20 16:04	1
Fluorene	<0.0053		0.038	0.0053	mg/Kg	☼	08/14/20 17:27	08/17/20 16:04	1
Hexachlorobenzene	<0.0088		0.076	0.0088	mg/Kg	☼	08/14/20 17:27	08/17/20 16:04	1
Hexachlorobutadiene	<0.060		0.19	0.060	mg/Kg	☼	08/14/20 17:27	08/17/20 16:04	1
Hexachlorocyclopentadiene	<0.22		0.76	0.22	mg/Kg	☼	08/14/20 17:27	08/17/20 16:04	1
Hexachloroethane	<0.058		0.19	0.058	mg/Kg	☼	08/14/20 17:27	08/17/20 16:04	1
Indeno[1,2,3-cd]pyrene	0.020	J	0.038	0.0098	mg/Kg	☼	08/14/20 17:27	08/17/20 16:04	1
Isophorone	<0.043		0.19	0.043	mg/Kg	☼	08/14/20 17:27	08/17/20 16:04	1
2-Methylnaphthalene	<0.0070		0.076	0.0070	mg/Kg	☼	08/14/20 17:27	08/17/20 16:04	1
2-Methylphenol	<0.061		0.19	0.061	mg/Kg	☼	08/14/20 17:27	08/17/20 16:04	1
3 & 4 Methylphenol	<0.063		0.19	0.063	mg/Kg	☼	08/14/20 17:27	08/17/20 16:04	1
Naphthalene	<0.0058		0.038	0.0058	mg/Kg	☼	08/14/20 17:27	08/17/20 16:04	1
2-Nitroaniline	<0.051		0.19	0.051	mg/Kg	☼	08/14/20 17:27	08/17/20 16:04	1
3-Nitroaniline	<0.12		0.38	0.12	mg/Kg	☼	08/14/20 17:27	08/17/20 16:04	1
4-Nitroaniline	<0.16		0.38	0.16	mg/Kg	☼	08/14/20 17:27	08/17/20 16:04	1
Nitrobenzene	<0.0095		0.038	0.0095	mg/Kg	☼	08/14/20 17:27	08/17/20 16:04	1
2-Nitrophenol	<0.090		0.38	0.090	mg/Kg	☼	08/14/20 17:27	08/17/20 16:04	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

Client Sample ID: 2412V2-12-B04 (0-5)

Lab Sample ID: 500-185942-8

Date Collected: 08/04/20 08:00

Matrix: Solid

Date Received: 08/04/20 17:40

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		0.76	0.36	mg/Kg	☼	08/14/20 17:27	08/17/20 16:04	1
N-Nitrosodi-n-propylamine	<0.046		0.076	0.046	mg/Kg	☼	08/14/20 17:27	08/17/20 16:04	1
N-Nitrosodiphenylamine	<0.045		0.19	0.045	mg/Kg	☼	08/14/20 17:27	08/17/20 16:04	1
2,2'-oxybis[1-chloropropane]	<0.044		0.19	0.044	mg/Kg	☼	08/14/20 17:27	08/17/20 16:04	1
Pentachlorophenol	<0.61		0.76	0.61	mg/Kg	☼	08/14/20 17:27	08/17/20 16:04	1
Phenanthrene	0.010	J	0.038	0.0053	mg/Kg	☼	08/14/20 17:27	08/17/20 16:04	1
Phenol	<0.084		0.19	0.084	mg/Kg	☼	08/14/20 17:27	08/17/20 16:04	1
Pyrene	0.030	J	0.038	0.0075	mg/Kg	☼	08/14/20 17:27	08/17/20 16:04	1
1,2,4-Trichlorobenzene	<0.041		0.19	0.041	mg/Kg	☼	08/14/20 17:27	08/17/20 16:04	1
2,4,5-Trichlorophenol	<0.087		0.38	0.087	mg/Kg	☼	08/14/20 17:27	08/17/20 16:04	1
2,4,6-Trichlorophenol	<0.13		0.38	0.13	mg/Kg	☼	08/14/20 17:27	08/17/20 16:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	81		43 - 145	08/14/20 17:27	08/17/20 16:04	1
2-Fluorophenol	92		31 - 166	08/14/20 17:27	08/17/20 16:04	1
Nitrobenzene-d5	76		37 - 147	08/14/20 17:27	08/17/20 16:04	1
Phenol-d5	71		30 - 153	08/14/20 17:27	08/17/20 16:04	1
Terphenyl-d14	99		42 - 157	08/14/20 17:27	08/17/20 16:04	1
2,4,6-Tribromophenol	39		31 - 143	08/14/20 17:27	08/17/20 16:04	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.42	J B	1.1	0.21	mg/Kg	☼	08/11/20 17:27	08/12/20 18:33	1
Arsenic	5.3		0.54	0.19	mg/Kg	☼	08/11/20 17:27	08/12/20 18:33	1
Barium	48		0.54	0.062	mg/Kg	☼	08/11/20 17:27	08/12/20 18:33	1
Beryllium	0.63		0.22	0.051	mg/Kg	☼	08/11/20 17:27	08/12/20 18:33	1
Cadmium	0.070	J B	0.11	0.020	mg/Kg	☼	08/11/20 17:27	08/12/20 18:33	1
Chromium	14	B	0.54	0.27	mg/Kg	☼	08/11/20 17:27	08/12/20 18:33	1
Cobalt	8.1		0.27	0.071	mg/Kg	☼	08/11/20 17:27	08/12/20 18:33	1
Copper	13		0.54	0.15	mg/Kg	☼	08/11/20 17:27	08/12/20 18:33	1
Iron	15000		11	5.7	mg/Kg	☼	08/11/20 17:27	08/12/20 18:33	1
Lead	23		0.27	0.13	mg/Kg	☼	08/11/20 17:27	08/12/20 18:33	1
Magnesium	2100		5.4	2.7	mg/Kg	☼	08/11/20 17:27	08/12/20 18:33	1
Calcium	1100	B	11	1.8	mg/Kg	☼	08/11/20 17:27	08/12/20 18:33	1
Manganese	440		0.54	0.079	mg/Kg	☼	08/11/20 17:27	08/12/20 18:33	1
Nickel	18		0.54	0.16	mg/Kg	☼	08/11/20 17:27	08/12/20 18:33	1
Selenium	0.39	J	0.54	0.32	mg/Kg	☼	08/11/20 17:27	08/12/20 18:33	1
Silver	<0.070		0.27	0.070	mg/Kg	☼	08/11/20 17:27	08/12/20 18:33	1
Thallium	0.38	J	0.54	0.27	mg/Kg	☼	08/11/20 17:27	08/12/20 18:33	1
Vanadium	26		0.27	0.064	mg/Kg	☼	08/11/20 17:27	08/12/20 18:33	1
Zinc	45		1.1	0.48	mg/Kg	☼	08/11/20 17:27	08/12/20 18:33	1
Potassium	1500		27	9.6	mg/Kg	☼	08/11/20 17:27	08/12/20 18:33	1
Sodium	1300		54	8.0	mg/Kg	☼	08/11/20 17:27	08/12/20 18:33	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/17/20 17:21	08/18/20 02:33	1
Barium	0.17	J	0.50	0.050	mg/L		08/17/20 17:21	08/18/20 02:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/17/20 17:21	08/18/20 02:33	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/17/20 17:21	08/18/20 02:33	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

Client Sample ID: 2412V2-12-B04 (0-5)

Lab Sample ID: 500-185942-8

Date Collected: 08/04/20 08:00

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	25		5.0	0.50	mg/L		08/17/20 17:21	08/18/20 02:33	1
Chromium	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:33	1
Cobalt	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:33	1
Copper	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:33	1
Iron	<0.20		0.40	0.20	mg/L		08/17/20 17:21	08/18/20 02:33	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/17/20 17:21	08/18/20 02:33	1
Magnesium	7.3		2.5	0.50	mg/L		08/17/20 17:21	08/18/20 02:33	1
Manganese	0.016	J	0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:33	1
Nickel	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:33	1
Potassium	15		2.5	0.50	mg/L		08/17/20 17:21	08/18/20 02:33	1
Selenium	<0.020		0.050	0.020	mg/L		08/17/20 17:21	08/18/20 02:33	1
Silver	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:33	1
Vanadium	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:33	1
Zinc	<0.020		0.50	0.020	mg/L		08/17/20 17:21	08/18/20 02:33	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		08/17/20 17:21	08/18/20 09:59	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		08/17/20 17:21	08/18/20 09:59	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/18/20 09:55	08/19/20 09:53	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	J	0.019	0.0064	mg/Kg	☼	08/11/20 14:25	08/12/20 09:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.15		0.29	0.15	mg/Kg	☼	08/14/20 15:05	08/17/20 15:44	1
pH	8.6		0.2	0.2	SU			08/11/20 17:24	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

Client Sample ID: 2412V2-12-B04 (5-7.5)

Lab Sample ID: 500-185942-9

Date Collected: 08/04/20 08:05

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 90.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0063		0.015	0.0063	mg/Kg	☼	08/05/20 08:30	08/12/20 20:52	1
Benzene	<0.00037		0.0015	0.00037	mg/Kg	☼	08/05/20 08:30	08/12/20 20:52	1
Bromodichloromethane	<0.00030		0.0015	0.00030	mg/Kg	☼	08/05/20 08:30	08/12/20 20:52	1
Bromoform	<0.00042		0.0015	0.00042	mg/Kg	☼	08/05/20 08:30	08/12/20 20:52	1
Bromomethane	<0.0014 *		0.0036	0.0014	mg/Kg	☼	08/05/20 08:30	08/12/20 20:52	1
2-Butanone (MEK)	<0.0016		0.0036	0.0016	mg/Kg	☼	08/05/20 08:30	08/12/20 20:52	1
Carbon disulfide	<0.00076		0.0036	0.00076	mg/Kg	☼	08/05/20 08:30	08/12/20 20:52	1
Carbon tetrachloride	<0.00042		0.0015	0.00042	mg/Kg	☼	08/05/20 08:30	08/12/20 20:52	1
Chlorobenzene	<0.00054		0.0015	0.00054	mg/Kg	☼	08/05/20 08:30	08/12/20 20:52	1
Chloroethane	<0.0011		0.0036	0.0011	mg/Kg	☼	08/05/20 08:30	08/12/20 20:52	1
Chloroform	<0.00050		0.0015	0.00050	mg/Kg	☼	08/05/20 08:30	08/12/20 20:52	1
Chloromethane	<0.0015 *		0.0036	0.0015	mg/Kg	☼	08/05/20 08:30	08/12/20 20:52	1
cis-1,2-Dichloroethene	<0.00041		0.0015	0.00041	mg/Kg	☼	08/05/20 08:30	08/12/20 20:52	1
cis-1,3-Dichloropropene	<0.00044		0.0015	0.00044	mg/Kg	☼	08/05/20 08:30	08/12/20 20:52	1
Dibromochloromethane	<0.00048		0.0015	0.00048	mg/Kg	☼	08/05/20 08:30	08/12/20 20:52	1
1,1-Dichloroethane	<0.00050		0.0015	0.00050	mg/Kg	☼	08/05/20 08:30	08/12/20 20:52	1
1,2-Dichloroethane	<0.0011		0.0036	0.0011	mg/Kg	☼	08/05/20 08:30	08/12/20 20:52	1
1,1-Dichloroethene	<0.00050		0.0015	0.00050	mg/Kg	☼	08/05/20 08:30	08/12/20 20:52	1
1,2-Dichloropropane	<0.00038		0.0015	0.00038	mg/Kg	☼	08/05/20 08:30	08/12/20 20:52	1
1,3-Dichloropropane, Total	<0.00051		0.0015	0.00051	mg/Kg	☼	08/05/20 08:30	08/12/20 20:52	1
Ethylbenzene	<0.00070		0.0015	0.00070	mg/Kg	☼	08/05/20 08:30	08/12/20 20:52	1
2-Hexanone	<0.0011		0.0036	0.0011	mg/Kg	☼	08/05/20 08:30	08/12/20 20:52	1
Methylene Chloride	<0.0014		0.0036	0.0014	mg/Kg	☼	08/05/20 08:30	08/12/20 20:52	1
4-Methyl-2-pentanone (MIBK)	<0.0011		0.0036	0.0011	mg/Kg	☼	08/05/20 08:30	08/12/20 20:52	1
Methyl tert-butyl ether	<0.00043		0.0015	0.00043	mg/Kg	☼	08/05/20 08:30	08/12/20 20:52	1
Styrene	<0.00044		0.0015	0.00044	mg/Kg	☼	08/05/20 08:30	08/12/20 20:52	1
1,1,2,2-Tetrachloroethane	<0.00046		0.0015	0.00046	mg/Kg	☼	08/05/20 08:30	08/12/20 20:52	1
Tetrachloroethene	<0.00049		0.0015	0.00049	mg/Kg	☼	08/05/20 08:30	08/12/20 20:52	1
Toluene	<0.00037		0.0015	0.00037	mg/Kg	☼	08/05/20 08:30	08/12/20 20:52	1
trans-1,2-Dichloroethene	<0.00064		0.0015	0.00064	mg/Kg	☼	08/05/20 08:30	08/12/20 20:52	1
trans-1,3-Dichloropropene	<0.00051		0.0015	0.00051	mg/Kg	☼	08/05/20 08:30	08/12/20 20:52	1
1,1,1-Trichloroethane	<0.00049		0.0015	0.00049	mg/Kg	☼	08/05/20 08:30	08/12/20 20:52	1
1,1,2-Trichloroethane	<0.00062		0.0015	0.00062	mg/Kg	☼	08/05/20 08:30	08/12/20 20:52	1
Trichloroethene	<0.00049		0.0015	0.00049	mg/Kg	☼	08/05/20 08:30	08/12/20 20:52	1
Vinyl acetate	<0.0013		0.0036	0.0013	mg/Kg	☼	08/05/20 08:30	08/12/20 20:52	1
Vinyl chloride	<0.00064		0.0015	0.00064	mg/Kg	☼	08/05/20 08:30	08/12/20 20:52	1
Xylenes, Total	<0.00046		0.0029	0.00046	mg/Kg	☼	08/05/20 08:30	08/12/20 20:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		75 - 131	08/05/20 08:30	08/12/20 20:52	1
Dibromofluoromethane	92		75 - 126	08/05/20 08:30	08/12/20 20:52	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	08/05/20 08:30	08/12/20 20:52	1
Toluene-d8 (Surr)	91		75 - 124	08/05/20 08:30	08/12/20 20:52	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	☼	08/14/20 17:27	08/17/20 13:47	1
Acenaphthylene	<0.0048		0.036	0.0048	mg/Kg	☼	08/14/20 17:27	08/17/20 13:47	1
Anthracene	<0.0061		0.036	0.0061	mg/Kg	☼	08/14/20 17:27	08/17/20 13:47	1
Benzo[a]anthracene	<0.0049		0.036	0.0049	mg/Kg	☼	08/14/20 17:27	08/17/20 13:47	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

Client Sample ID: 2412V2-12-B04 (5-7.5)

Lab Sample ID: 500-185942-9

Date Collected: 08/04/20 08:05

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 90.6

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	☼	08/14/20 17:27	08/17/20 13:47	1
Benzo[b]fluoranthene	<0.0078		0.036	0.0078	mg/Kg	☼	08/14/20 17:27	08/17/20 13:47	1
Benzo[g,h,i]perylene	<0.012		0.036	0.012	mg/Kg	☼	08/14/20 17:27	08/17/20 13:47	1
Benzo[k]fluoranthene	<0.011		0.036	0.011	mg/Kg	☼	08/14/20 17:27	08/17/20 13:47	1
Bis(2-chloroethoxy)methane	<0.037		0.18	0.037	mg/Kg	☼	08/14/20 17:27	08/17/20 13:47	1
Bis(2-chloroethyl)ether	<0.055		0.18	0.055	mg/Kg	☼	08/14/20 17:27	08/17/20 13:47	1
Bis(2-ethylhexyl) phthalate	<0.066		0.18	0.066	mg/Kg	☼	08/14/20 17:27	08/17/20 13:47	1
4-Bromophenyl phenyl ether	<0.048		0.18	0.048	mg/Kg	☼	08/14/20 17:27	08/17/20 13:47	1
Butyl benzyl phthalate	<0.069		0.18	0.069	mg/Kg	☼	08/14/20 17:27	08/17/20 13:47	1
Carbazole	<0.091		0.18	0.091	mg/Kg	☼	08/14/20 17:27	08/17/20 13:47	1
4-Chloroaniline	<0.17		0.73	0.17	mg/Kg	☼	08/14/20 17:27	08/17/20 13:47	1
4-Chloro-3-methylphenol	<0.12		0.36	0.12	mg/Kg	☼	08/14/20 17:27	08/17/20 13:47	1
2-Chloronaphthalene	<0.040		0.18	0.040	mg/Kg	☼	08/14/20 17:27	08/17/20 13:47	1
2-Chlorophenol	<0.062		0.18	0.062	mg/Kg	☼	08/14/20 17:27	08/17/20 13:47	1
4-Chlorophenyl phenyl ether	<0.042		0.18	0.042	mg/Kg	☼	08/14/20 17:27	08/17/20 13:47	1
Chrysene	<0.0099		0.036	0.0099	mg/Kg	☼	08/14/20 17:27	08/17/20 13:47	1
Dibenz(a,h)anthracene	<0.0070		0.036	0.0070	mg/Kg	☼	08/14/20 17:27	08/17/20 13:47	1
Dibenzofuran	<0.043		0.18	0.043	mg/Kg	☼	08/14/20 17:27	08/17/20 13:47	1
1,2-Dichlorobenzene	<0.043		0.18	0.043	mg/Kg	☼	08/14/20 17:27	08/17/20 13:47	1
1,3-Dichlorobenzene	<0.041		0.18	0.041	mg/Kg	☼	08/14/20 17:27	08/17/20 13:47	1
1,4-Dichlorobenzene	<0.047		0.18	0.047	mg/Kg	☼	08/14/20 17:27	08/17/20 13:47	1
3,3'-Dichlorobenzidine	<0.051		0.18	0.051	mg/Kg	☼	08/14/20 17:27	08/17/20 13:47	1
2,4-Dichlorophenol	<0.086		0.36	0.086	mg/Kg	☼	08/14/20 17:27	08/17/20 13:47	1
Diethyl phthalate	<0.062		0.18	0.062	mg/Kg	☼	08/14/20 17:27	08/17/20 13:47	1
2,4-Dimethylphenol	<0.14		0.36	0.14	mg/Kg	☼	08/14/20 17:27	08/17/20 13:47	1
Dimethyl phthalate	<0.048		0.18	0.048	mg/Kg	☼	08/14/20 17:27	08/17/20 13:47	1
Di-n-butyl phthalate	<0.055		0.18	0.055	mg/Kg	☼	08/14/20 17:27	08/17/20 13:47	1
4,6-Dinitro-2-methylphenol	<0.29		0.73	0.29	mg/Kg	☼	08/14/20 17:27	08/17/20 13:47	1
2,4-Dinitrophenol	<0.64		0.73	0.64	mg/Kg	☼	08/14/20 17:27	08/17/20 13:47	1
2,4-Dinitrotoluene	<0.058		0.18	0.058	mg/Kg	☼	08/14/20 17:27	08/17/20 13:47	1
2,6-Dinitrotoluene	<0.071		0.18	0.071	mg/Kg	☼	08/14/20 17:27	08/17/20 13:47	1
Di-n-octyl phthalate	<0.059		0.18	0.059	mg/Kg	☼	08/14/20 17:27	08/17/20 13:47	1
Fluoranthene	<0.0067		0.036	0.0067	mg/Kg	☼	08/14/20 17:27	08/17/20 13:47	1
Fluorene	<0.0051		0.036	0.0051	mg/Kg	☼	08/14/20 17:27	08/17/20 13:47	1
Hexachlorobenzene	<0.0084		0.073	0.0084	mg/Kg	☼	08/14/20 17:27	08/17/20 13:47	1
Hexachlorobutadiene	<0.057		0.18	0.057	mg/Kg	☼	08/14/20 17:27	08/17/20 13:47	1
Hexachlorocyclopentadiene	<0.21		0.73	0.21	mg/Kg	☼	08/14/20 17:27	08/17/20 13:47	1
Hexachloroethane	<0.055		0.18	0.055	mg/Kg	☼	08/14/20 17:27	08/17/20 13:47	1
Indeno[1,2,3-cd]pyrene	<0.0094		0.036	0.0094	mg/Kg	☼	08/14/20 17:27	08/17/20 13:47	1
Isophorone	<0.041		0.18	0.041	mg/Kg	☼	08/14/20 17:27	08/17/20 13:47	1
2-Methylnaphthalene	<0.0067		0.073	0.0067	mg/Kg	☼	08/14/20 17:27	08/17/20 13:47	1
2-Methylphenol	<0.058		0.18	0.058	mg/Kg	☼	08/14/20 17:27	08/17/20 13:47	1
3 & 4 Methylphenol	<0.061		0.18	0.061	mg/Kg	☼	08/14/20 17:27	08/17/20 13:47	1
Naphthalene	<0.0056		0.036	0.0056	mg/Kg	☼	08/14/20 17:27	08/17/20 13:47	1
2-Nitroaniline	<0.049		0.18	0.049	mg/Kg	☼	08/14/20 17:27	08/17/20 13:47	1
3-Nitroaniline	<0.11		0.36	0.11	mg/Kg	☼	08/14/20 17:27	08/17/20 13:47	1
4-Nitroaniline	<0.15		0.36	0.15	mg/Kg	☼	08/14/20 17:27	08/17/20 13:47	1
Nitrobenzene	<0.0091		0.036	0.0091	mg/Kg	☼	08/14/20 17:27	08/17/20 13:47	1
2-Nitrophenol	<0.086		0.36	0.086	mg/Kg	☼	08/14/20 17:27	08/17/20 13:47	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

Client Sample ID: 2412V2-12-B04 (5-7.5)

Lab Sample ID: 500-185942-9

Date Collected: 08/04/20 08:05

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 90.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.35		0.73	0.35	mg/Kg	☼	08/14/20 17:27	08/17/20 13:47	1
N-Nitrosodi-n-propylamine	<0.044		0.073	0.044	mg/Kg	☼	08/14/20 17:27	08/17/20 13:47	1
N-Nitrosodiphenylamine	<0.043		0.18	0.043	mg/Kg	☼	08/14/20 17:27	08/17/20 13:47	1
2,2'-oxybis[1-chloropropane]	<0.042		0.18	0.042	mg/Kg	☼	08/14/20 17:27	08/17/20 13:47	1
Pentachlorophenol	<0.58		0.73	0.58	mg/Kg	☼	08/14/20 17:27	08/17/20 13:47	1
Phenanthrene	<0.0051		0.036	0.0051	mg/Kg	☼	08/14/20 17:27	08/17/20 13:47	1
Phenol	<0.081		0.18	0.081	mg/Kg	☼	08/14/20 17:27	08/17/20 13:47	1
Pyrene	<0.0072		0.036	0.0072	mg/Kg	☼	08/14/20 17:27	08/17/20 13:47	1
1,2,4-Trichlorobenzene	<0.039		0.18	0.039	mg/Kg	☼	08/14/20 17:27	08/17/20 13:47	1
2,4,5-Trichlorophenol	<0.083		0.36	0.083	mg/Kg	☼	08/14/20 17:27	08/17/20 13:47	1
2,4,6-Trichlorophenol	<0.12		0.36	0.12	mg/Kg	☼	08/14/20 17:27	08/17/20 13:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	76		43 - 145				08/14/20 17:27	08/17/20 13:47	1
2-Fluorophenol	91		31 - 166				08/14/20 17:27	08/17/20 13:47	1
Nitrobenzene-d5	75		37 - 147				08/14/20 17:27	08/17/20 13:47	1
Phenol-d5	80		30 - 153				08/14/20 17:27	08/17/20 13:47	1
Terphenyl-d14	95		42 - 157				08/14/20 17:27	08/17/20 13:47	1
2,4,6-Tribromophenol	59		31 - 143				08/14/20 17:27	08/17/20 13:47	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	☼	08/11/20 17:27	08/12/20 18:37	1
Arsenic	6.9		0.53	0.18	mg/Kg	☼	08/11/20 17:27	08/12/20 18:37	1
Barium	24		0.53	0.060	mg/Kg	☼	08/11/20 17:27	08/12/20 18:37	1
Beryllium	0.41		0.21	0.049	mg/Kg	☼	08/11/20 17:27	08/12/20 18:37	1
Cadmium	0.12	B	0.11	0.019	mg/Kg	☼	08/11/20 17:27	08/12/20 18:37	1
Chromium	8.8	B	0.53	0.26	mg/Kg	☼	08/11/20 17:27	08/12/20 18:37	1
Cobalt	5.0		0.26	0.069	mg/Kg	☼	08/11/20 17:27	08/12/20 18:37	1
Copper	78		0.53	0.15	mg/Kg	☼	08/11/20 17:27	08/12/20 18:37	1
Iron	13000	B	110	55	mg/Kg	☼	08/11/20 17:27	08/13/20 00:58	10
Lead	6.9		0.26	0.12	mg/Kg	☼	08/11/20 17:27	08/12/20 18:37	1
Magnesium	45000	B	53	26	mg/Kg	☼	08/11/20 17:27	08/13/20 00:58	10
Calcium	91000	B	110	18	mg/Kg	☼	08/11/20 17:27	08/13/20 00:58	10
Manganese	260		0.53	0.077	mg/Kg	☼	08/11/20 17:27	08/12/20 18:37	1
Nickel	13		0.53	0.15	mg/Kg	☼	08/11/20 17:27	08/12/20 18:37	1
Selenium	<0.31		0.53	0.31	mg/Kg	☼	08/11/20 17:27	08/12/20 18:37	1
Silver	<0.068		0.26	0.068	mg/Kg	☼	08/11/20 17:27	08/12/20 18:37	1
Thallium	<0.26		0.53	0.26	mg/Kg	☼	08/11/20 17:27	08/12/20 18:37	1
Vanadium	13		0.26	0.063	mg/Kg	☼	08/11/20 17:27	08/12/20 18:37	1
Zinc	29		1.1	0.47	mg/Kg	☼	08/11/20 17:27	08/12/20 18:37	1
Potassium	1400		26	9.4	mg/Kg	☼	08/11/20 17:27	08/12/20 18:37	1
Sodium	280		53	7.8	mg/Kg	☼	08/11/20 17:27	08/12/20 18:37	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/17/20 17:21	08/18/20 03:02	1
Barium	0.28	J	0.50	0.050	mg/L		08/17/20 17:21	08/18/20 03:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/17/20 17:21	08/18/20 03:02	1
Cadmium	0.0023	J	0.0050	0.0020	mg/L		08/17/20 17:21	08/18/20 03:02	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

Client Sample ID: 2412V2-12-B04 (5-7.5)

Lab Sample ID: 500-185942-9

Date Collected: 08/04/20 08:05

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 90.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	1200		50	5.0	mg/L		08/17/20 17:21	08/18/20 07:43	10
Chromium	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 03:02	1
Cobalt	0.022	J	0.025	0.010	mg/L		08/17/20 17:21	08/18/20 03:02	1
Copper	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 03:02	1
Iron	<0.20		0.40	0.20	mg/L		08/17/20 17:21	08/18/20 07:38	1
Lead	0.011		0.0075	0.0075	mg/L		08/17/20 17:21	08/18/20 03:02	1
Magnesium	260		2.5	0.50	mg/L		08/17/20 17:21	08/18/20 07:38	1
Manganese	2.9		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 03:02	1
Nickel	0.035		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 03:02	1
Potassium	3.6		2.5	0.50	mg/L		08/17/20 17:21	08/18/20 03:02	1
Selenium	<0.020		0.050	0.020	mg/L		08/17/20 17:21	08/18/20 03:02	1
Silver	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 03:02	1
Vanadium	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 03:02	1
Zinc	0.053	J B	0.50	0.020	mg/L		08/17/20 17:21	08/18/20 03:02	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.014		0.0075	0.0075	mg/L		08/17/20 17:17	08/18/20 04:50	1
Manganese	0.11		0.025	0.010	mg/L		08/17/20 17:17	08/18/20 04:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		08/17/20 17:21	08/18/20 10:21	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		08/17/20 17:21	08/18/20 10:21	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		08/18/20 09:55	08/19/20 08:49	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0057		0.017	0.0057	mg/Kg	☼	08/11/20 14:25	08/12/20 09:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.14		0.28	0.14	mg/Kg	☼	08/14/20 15:05	08/17/20 15:48	1
pH	9.1		0.2	0.2	SU			08/11/20 17:27	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

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
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC 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.

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
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

GC/MS VOA

Analysis Batch: 556446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185942-1	2412V2-12-B01 (0-5)	Total/NA	Solid	8260B	556455
500-185942-2	2412V2-12-B01 (5-7.5)	Total/NA	Solid	8260B	556455
500-185942-3	2412V2-12-B02 (0-5)	Total/NA	Solid	8260B	556455
500-185942-4	2412V2-12-B02 (5-7.5)	Total/NA	Solid	8260B	556455
500-185942-5	2412V2-12-B03 (0-5)	Total/NA	Solid	8260B	556455
500-185942-7	2412V2-12-B03 (5-7.5)	Total/NA	Solid	8260B	556455
500-185942-8	2412V2-12-B04 (0-5)	Total/NA	Solid	8260B	556455
500-185942-9	2412V2-12-B04 (5-7.5)	Total/NA	Solid	8260B	556455
MB 500-556446/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-556446/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-556446/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

Prep Batch: 556455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185942-1	2412V2-12-B01 (0-5)	Total/NA	Solid	5035	
500-185942-2	2412V2-12-B01 (5-7.5)	Total/NA	Solid	5035	
500-185942-3	2412V2-12-B02 (0-5)	Total/NA	Solid	5035	
500-185942-4	2412V2-12-B02 (5-7.5)	Total/NA	Solid	5035	
500-185942-5	2412V2-12-B03 (0-5)	Total/NA	Solid	5035	
500-185942-6	2412V2-12-B03 (0-5) Dup	Total/NA	Solid	5035	
500-185942-7	2412V2-12-B03 (5-7.5)	Total/NA	Solid	5035	
500-185942-8	2412V2-12-B04 (0-5)	Total/NA	Solid	5035	
500-185942-9	2412V2-12-B04 (5-7.5)	Total/NA	Solid	5035	

Analysis Batch: 556601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185942-6	2412V2-12-B03 (0-5) Dup	Total/NA	Solid	8260B	556455
MB 500-556601/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-556601/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-556601/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 556949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185942-1	2412V2-12-B01 (0-5)	Total/NA	Solid	3541	
500-185942-2	2412V2-12-B01 (5-7.5)	Total/NA	Solid	3541	
500-185942-3	2412V2-12-B02 (0-5)	Total/NA	Solid	3541	
500-185942-4	2412V2-12-B02 (5-7.5)	Total/NA	Solid	3541	
500-185942-5	2412V2-12-B03 (0-5)	Total/NA	Solid	3541	
500-185942-6	2412V2-12-B03 (0-5) Dup	Total/NA	Solid	3541	
500-185942-7	2412V2-12-B03 (5-7.5)	Total/NA	Solid	3541	
500-185942-8	2412V2-12-B04 (0-5)	Total/NA	Solid	3541	
500-185942-9	2412V2-12-B04 (5-7.5)	Total/NA	Solid	3541	
MB 500-556949/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-556949/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 557105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185942-5	2412V2-12-B03 (0-5)	Total/NA	Solid	8270D	556949
500-185942-6	2412V2-12-B03 (0-5) Dup	Total/NA	Solid	8270D	556949

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

GC/MS Semi VOA

Analysis Batch: 557147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185942-1	2412V2-12-B01 (0-5)	Total/NA	Solid	8270D	556949
500-185942-2	2412V2-12-B01 (5-7.5)	Total/NA	Solid	8270D	556949
500-185942-3	2412V2-12-B02 (0-5)	Total/NA	Solid	8270D	556949
500-185942-4	2412V2-12-B02 (5-7.5)	Total/NA	Solid	8270D	556949
500-185942-7	2412V2-12-B03 (5-7.5)	Total/NA	Solid	8270D	556949
500-185942-8	2412V2-12-B04 (0-5)	Total/NA	Solid	8270D	556949
500-185942-9	2412V2-12-B04 (5-7.5)	Total/NA	Solid	8270D	556949
MB 500-556949/1-A	Method Blank	Total/NA	Solid	8270D	556949
LCS 500-556949/2-A	Lab Control Sample	Total/NA	Solid	8270D	556949

Metals

Prep Batch: 556281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185942-1	2412V2-12-B01 (0-5)	Total/NA	Solid	7471B	
500-185942-2	2412V2-12-B01 (5-7.5)	Total/NA	Solid	7471B	
500-185942-3	2412V2-12-B02 (0-5)	Total/NA	Solid	7471B	
500-185942-4	2412V2-12-B02 (5-7.5)	Total/NA	Solid	7471B	
500-185942-5	2412V2-12-B03 (0-5)	Total/NA	Solid	7471B	
500-185942-6	2412V2-12-B03 (0-5) Dup	Total/NA	Solid	7471B	
500-185942-7	2412V2-12-B03 (5-7.5)	Total/NA	Solid	7471B	
500-185942-8	2412V2-12-B04 (0-5)	Total/NA	Solid	7471B	
500-185942-9	2412V2-12-B04 (5-7.5)	Total/NA	Solid	7471B	
MB 500-556281/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-556281/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Prep Batch: 556317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185942-1	2412V2-12-B01 (0-5)	Total/NA	Solid	3050B	
500-185942-2	2412V2-12-B01 (5-7.5)	Total/NA	Solid	3050B	
500-185942-3	2412V2-12-B02 (0-5)	Total/NA	Solid	3050B	
500-185942-4	2412V2-12-B02 (5-7.5)	Total/NA	Solid	3050B	
500-185942-5	2412V2-12-B03 (0-5)	Total/NA	Solid	3050B	
500-185942-6	2412V2-12-B03 (0-5) Dup	Total/NA	Solid	3050B	
500-185942-7	2412V2-12-B03 (5-7.5)	Total/NA	Solid	3050B	
500-185942-8	2412V2-12-B04 (0-5)	Total/NA	Solid	3050B	
500-185942-9	2412V2-12-B04 (5-7.5)	Total/NA	Solid	3050B	
MB 500-556317/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-556317/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 556451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185942-1	2412V2-12-B01 (0-5)	Total/NA	Solid	7471B	556281
500-185942-2	2412V2-12-B01 (5-7.5)	Total/NA	Solid	7471B	556281
500-185942-3	2412V2-12-B02 (0-5)	Total/NA	Solid	7471B	556281
500-185942-4	2412V2-12-B02 (5-7.5)	Total/NA	Solid	7471B	556281
500-185942-5	2412V2-12-B03 (0-5)	Total/NA	Solid	7471B	556281
500-185942-6	2412V2-12-B03 (0-5) Dup	Total/NA	Solid	7471B	556281
500-185942-7	2412V2-12-B03 (5-7.5)	Total/NA	Solid	7471B	556281
500-185942-8	2412V2-12-B04 (0-5)	Total/NA	Solid	7471B	556281
500-185942-9	2412V2-12-B04 (5-7.5)	Total/NA	Solid	7471B	556281

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

Metals (Continued)

Analysis Batch: 556451 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-556281/12-A	Method Blank	Total/NA	Solid	7471B	556281
LCS 500-556281/13-A	Lab Control Sample	Total/NA	Solid	7471B	556281

Analysis Batch: 556556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185942-1	2412V2-12-B01 (0-5)	Total/NA	Solid	6010B	556317
500-185942-2	2412V2-12-B01 (5-7.5)	Total/NA	Solid	6010B	556317
500-185942-3	2412V2-12-B02 (0-5)	Total/NA	Solid	6010B	556317
500-185942-4	2412V2-12-B02 (5-7.5)	Total/NA	Solid	6010B	556317
500-185942-5	2412V2-12-B03 (0-5)	Total/NA	Solid	6010B	556317
500-185942-6	2412V2-12-B03 (0-5) Dup	Total/NA	Solid	6010B	556317
500-185942-7	2412V2-12-B03 (5-7.5)	Total/NA	Solid	6010B	556317
500-185942-8	2412V2-12-B04 (0-5)	Total/NA	Solid	6010B	556317
500-185942-9	2412V2-12-B04 (5-7.5)	Total/NA	Solid	6010B	556317
MB 500-556317/1-A	Method Blank	Total/NA	Solid	6010B	556317
LCS 500-556317/2-A	Lab Control Sample	Total/NA	Solid	6010B	556317

Analysis Batch: 556572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185942-1	2412V2-12-B01 (0-5)	Total/NA	Solid	6010B	556317
500-185942-2	2412V2-12-B01 (5-7.5)	Total/NA	Solid	6010B	556317
500-185942-3	2412V2-12-B02 (0-5)	Total/NA	Solid	6010B	556317
500-185942-4	2412V2-12-B02 (5-7.5)	Total/NA	Solid	6010B	556317
500-185942-5	2412V2-12-B03 (0-5)	Total/NA	Solid	6010B	556317
500-185942-6	2412V2-12-B03 (0-5) Dup	Total/NA	Solid	6010B	556317
500-185942-9	2412V2-12-B04 (5-7.5)	Total/NA	Solid	6010B	556317

Leach Batch: 556907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185942-1	2412V2-12-B01 (0-5)	SPLP East	Solid	1312	
500-185942-2	2412V2-12-B01 (5-7.5)	SPLP East	Solid	1312	
500-185942-4	2412V2-12-B02 (5-7.5)	SPLP East	Solid	1312	
500-185942-5	2412V2-12-B03 (0-5)	SPLP East	Solid	1312	
500-185942-6	2412V2-12-B03 (0-5) Dup	SPLP East	Solid	1312	
500-185942-7	2412V2-12-B03 (5-7.5)	SPLP East	Solid	1312	
500-185942-9	2412V2-12-B04 (5-7.5)	SPLP East	Solid	1312	
LB 500-556907/1-B	Method Blank	SPLP East	Solid	1312	

Leach Batch: 556919

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185942-1	2412V2-12-B01 (0-5)	TCLP	Solid	1311	
500-185942-2	2412V2-12-B01 (5-7.5)	TCLP	Solid	1311	
500-185942-3	2412V2-12-B02 (0-5)	TCLP	Solid	1311	
500-185942-5	2412V2-12-B03 (0-5)	TCLP	Solid	1311	
500-185942-6	2412V2-12-B03 (0-5) Dup	TCLP	Solid	1311	
500-185942-7	2412V2-12-B03 (5-7.5)	TCLP	Solid	1311	
500-185942-8	2412V2-12-B04 (0-5)	TCLP	Solid	1311	
LB 500-556919/1-B	Method Blank	TCLP	Solid	1311	
LB 500-556919/1-C	Method Blank	TCLP	Solid	1311	

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

Metals

Leach Batch: 556920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185942-4	2412V2-12-B02 (5-7.5)	TCLP	Solid	1311	
500-185942-9	2412V2-12-B04 (5-7.5)	TCLP	Solid	1311	
LB2 500-556920/1-C	Method Blank	TCLP	Solid	1311	
LB2 500-556920/2-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 557242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185942-1	2412V2-12-B01 (0-5)	SPLP East	Solid	3010A	556907
500-185942-2	2412V2-12-B01 (5-7.5)	SPLP East	Solid	3010A	556907
500-185942-4	2412V2-12-B02 (5-7.5)	SPLP East	Solid	3010A	556907
500-185942-5	2412V2-12-B03 (0-5)	SPLP East	Solid	3010A	556907
500-185942-6	2412V2-12-B03 (0-5) Dup	SPLP East	Solid	3010A	556907
500-185942-7	2412V2-12-B03 (5-7.5)	SPLP East	Solid	3010A	556907
500-185942-9	2412V2-12-B04 (5-7.5)	SPLP East	Solid	3010A	556907
LB 500-556907/1-B	Method Blank	SPLP East	Solid	3010A	556907
LCS 500-557242/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 557245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185942-1	2412V2-12-B01 (0-5)	TCLP	Solid	3010A	556919
500-185942-2	2412V2-12-B01 (5-7.5)	TCLP	Solid	3010A	556919
500-185942-3	2412V2-12-B02 (0-5)	TCLP	Solid	3010A	556919
500-185942-4	2412V2-12-B02 (5-7.5)	TCLP	Solid	3010A	556920
500-185942-5	2412V2-12-B03 (0-5)	TCLP	Solid	3010A	556919
500-185942-6	2412V2-12-B03 (0-5) Dup	TCLP	Solid	3010A	556919
500-185942-7	2412V2-12-B03 (5-7.5)	TCLP	Solid	3010A	556919
500-185942-8	2412V2-12-B04 (0-5)	TCLP	Solid	3010A	556919
500-185942-9	2412V2-12-B04 (5-7.5)	TCLP	Solid	3010A	556920
LB 500-556919/1-B	Method Blank	TCLP	Solid	3010A	556919
LB2 500-556920/1-C	Method Blank	TCLP	Solid	3010A	556920
LCS 500-557245/24-A	Lab Control Sample	Total/NA	Solid	3010A	
LCS 500-557245/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 557308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185942-1	2412V2-12-B01 (0-5)	SPLP East	Solid	6010B	557242
500-185942-2	2412V2-12-B01 (5-7.5)	SPLP East	Solid	6010B	557242
500-185942-4	2412V2-12-B02 (5-7.5)	SPLP East	Solid	6010B	557242
500-185942-4	2412V2-12-B02 (5-7.5)	TCLP	Solid	6010B	557245
500-185942-5	2412V2-12-B03 (0-5)	SPLP East	Solid	6010B	557242
500-185942-6	2412V2-12-B03 (0-5) Dup	SPLP East	Solid	6010B	557242
500-185942-7	2412V2-12-B03 (5-7.5)	SPLP East	Solid	6010B	557242
500-185942-9	2412V2-12-B04 (5-7.5)	SPLP East	Solid	6010B	557242
500-185942-9	2412V2-12-B04 (5-7.5)	TCLP	Solid	6010B	557245
LB 500-556907/1-B	Method Blank	SPLP East	Solid	6010B	557242
LB2 500-556920/1-C	Method Blank	TCLP	Solid	6010B	557245
LCS 500-557242/2-A	Lab Control Sample	Total/NA	Solid	6010B	557242
LCS 500-557245/24-A	Lab Control Sample	Total/NA	Solid	6010B	557245

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

Metals

Analysis Batch: 557360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185942-1	2412V2-12-B01 (0-5)	TCLP	Solid	6010B	557245
500-185942-2	2412V2-12-B01 (5-7.5)	TCLP	Solid	6010B	557245
500-185942-3	2412V2-12-B02 (0-5)	TCLP	Solid	6010B	557245
500-185942-5	2412V2-12-B03 (0-5)	TCLP	Solid	6010B	557245
500-185942-6	2412V2-12-B03 (0-5) Dup	TCLP	Solid	6010B	557245
500-185942-7	2412V2-12-B03 (5-7.5)	TCLP	Solid	6010B	557245
500-185942-8	2412V2-12-B04 (0-5)	TCLP	Solid	6010B	557245
LB 500-556919/1-B	Method Blank	TCLP	Solid	6010B	557245
LCS 500-557245/2-A	Lab Control Sample	Total/NA	Solid	6010B	557245

Analysis Batch: 557361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185942-4	2412V2-12-B02 (5-7.5)	TCLP	Solid	6010B	557245
500-185942-4	2412V2-12-B02 (5-7.5)	TCLP	Solid	6010B	557245
500-185942-9	2412V2-12-B04 (5-7.5)	TCLP	Solid	6010B	557245
500-185942-9	2412V2-12-B04 (5-7.5)	TCLP	Solid	6010B	557245
LB2 500-556920/1-C	Method Blank	TCLP	Solid	6010B	557245
LCS 500-557245/24-A	Lab Control Sample	Total/NA	Solid	6010B	557245

Prep Batch: 557383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185942-4	2412V2-12-B02 (5-7.5)	TCLP	Solid	7470A	556920
500-185942-9	2412V2-12-B04 (5-7.5)	TCLP	Solid	7470A	556920
LB2 500-556920/2-B	Method Blank	TCLP	Solid	7470A	556920
MB 500-557383/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-557383/29-A	Lab Control Sample	Total/NA	Solid	7470A	

Prep Batch: 557385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185942-1	2412V2-12-B01 (0-5)	TCLP	Solid	7470A	556919
500-185942-2	2412V2-12-B01 (5-7.5)	TCLP	Solid	7470A	556919
500-185942-3	2412V2-12-B02 (0-5)	TCLP	Solid	7470A	556919
500-185942-5	2412V2-12-B03 (0-5)	TCLP	Solid	7470A	556919
500-185942-6	2412V2-12-B03 (0-5) Dup	TCLP	Solid	7470A	556919
500-185942-7	2412V2-12-B03 (5-7.5)	TCLP	Solid	7470A	556919
500-185942-8	2412V2-12-B04 (0-5)	TCLP	Solid	7470A	556919
LB 500-556919/1-C	Method Blank	TCLP	Solid	7470A	556919
MB 500-557385/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-557385/14-A	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 557398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185942-1	2412V2-12-B01 (0-5)	TCLP	Solid	6020A	557245
500-185942-2	2412V2-12-B01 (5-7.5)	TCLP	Solid	6020A	557245
500-185942-3	2412V2-12-B02 (0-5)	TCLP	Solid	6020A	557245
500-185942-4	2412V2-12-B02 (5-7.5)	TCLP	Solid	6020A	557245
500-185942-5	2412V2-12-B03 (0-5)	TCLP	Solid	6020A	557245
500-185942-6	2412V2-12-B03 (0-5) Dup	TCLP	Solid	6020A	557245
500-185942-7	2412V2-12-B03 (5-7.5)	TCLP	Solid	6020A	557245
500-185942-8	2412V2-12-B04 (0-5)	TCLP	Solid	6020A	557245
500-185942-9	2412V2-12-B04 (5-7.5)	TCLP	Solid	6020A	557245

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

Metals (Continued)

Analysis Batch: 557398 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 500-556919/1-B	Method Blank	TCLP	Solid	6020A	557245
LB2 500-556918/1-B	Method Blank	Total/NA	Solid	6020A	
LCS 500-557245/24-A	Lab Control Sample	Total/NA	Solid	6020A	557245
LCS 500-557245/2-A	Lab Control Sample	Total/NA	Solid	6020A	557245

Analysis Batch: 557609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185942-1	2412V2-12-B01 (0-5)	TCLP	Solid	7470A	557385
500-185942-2	2412V2-12-B01 (5-7.5)	TCLP	Solid	7470A	557385
500-185942-3	2412V2-12-B02 (0-5)	TCLP	Solid	7470A	557385
500-185942-4	2412V2-12-B02 (5-7.5)	TCLP	Solid	7470A	557383
500-185942-5	2412V2-12-B03 (0-5)	TCLP	Solid	7470A	557385
500-185942-6	2412V2-12-B03 (0-5) Dup	TCLP	Solid	7470A	557385
500-185942-7	2412V2-12-B03 (5-7.5)	TCLP	Solid	7470A	557385
500-185942-8	2412V2-12-B04 (0-5)	TCLP	Solid	7470A	557385
500-185942-9	2412V2-12-B04 (5-7.5)	TCLP	Solid	7470A	557383
LB 500-556919/1-C	Method Blank	TCLP	Solid	7470A	557385
LB2 500-556920/2-B	Method Blank	TCLP	Solid	7470A	557383
MB 500-557383/12-A	Method Blank	Total/NA	Solid	7470A	557383
MB 500-557385/12-A	Method Blank	Total/NA	Solid	7470A	557385
LCS 500-557383/29-A	Lab Control Sample	Total/NA	Solid	7470A	557383
LCS 500-557385/14-A	Lab Control Sample	Total/NA	Solid	7470A	557385

General Chemistry

Analysis Batch: 556437

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185942-1	2412V2-12-B01 (0-5)	Total/NA	Solid	9045D	
500-185942-2	2412V2-12-B01 (5-7.5)	Total/NA	Solid	9045D	
500-185942-3	2412V2-12-B02 (0-5)	Total/NA	Solid	9045D	
500-185942-4	2412V2-12-B02 (5-7.5)	Total/NA	Solid	9045D	
500-185942-5	2412V2-12-B03 (0-5)	Total/NA	Solid	9045D	
500-185942-6	2412V2-12-B03 (0-5) Dup	Total/NA	Solid	9045D	
500-185942-7	2412V2-12-B03 (5-7.5)	Total/NA	Solid	9045D	
500-185942-8	2412V2-12-B04 (0-5)	Total/NA	Solid	9045D	
500-185942-9	2412V2-12-B04 (5-7.5)	Total/NA	Solid	9045D	
LCS 500-556437/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-556437/3	Lab Control Sample Dup	Total/NA	Solid	9045D	
500-185942-1 DU	2412V2-12-B01 (0-5)	Total/NA	Solid	9045D	

Analysis Batch: 556605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185942-1	2412V2-12-B01 (0-5)	Total/NA	Solid	Moisture	
500-185942-2	2412V2-12-B01 (5-7.5)	Total/NA	Solid	Moisture	
500-185942-3	2412V2-12-B02 (0-5)	Total/NA	Solid	Moisture	
500-185942-4	2412V2-12-B02 (5-7.5)	Total/NA	Solid	Moisture	
500-185942-5	2412V2-12-B03 (0-5)	Total/NA	Solid	Moisture	
500-185942-6	2412V2-12-B03 (0-5) Dup	Total/NA	Solid	Moisture	
500-185942-7	2412V2-12-B03 (5-7.5)	Total/NA	Solid	Moisture	
500-185942-8	2412V2-12-B04 (0-5)	Total/NA	Solid	Moisture	
500-185942-9	2412V2-12-B04 (5-7.5)	Total/NA	Solid	Moisture	

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

General Chemistry (Continued)

Analysis Batch: 556605 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185942-5 DU	2412V2-12-B03 (0-5)	Total/NA	Solid	Moisture	

Prep Batch: 556872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185942-1	2412V2-12-B01 (0-5)	Total/NA	Solid	9010C	
500-185942-2	2412V2-12-B01 (5-7.5)	Total/NA	Solid	9010C	
500-185942-3	2412V2-12-B02 (0-5)	Total/NA	Solid	9010C	
500-185942-4	2412V2-12-B02 (5-7.5)	Total/NA	Solid	9010C	
500-185942-5	2412V2-12-B03 (0-5)	Total/NA	Solid	9010C	
500-185942-6	2412V2-12-B03 (0-5) Dup	Total/NA	Solid	9010C	
500-185942-7	2412V2-12-B03 (5-7.5)	Total/NA	Solid	9010C	
500-185942-8	2412V2-12-B04 (0-5)	Total/NA	Solid	9010C	
500-185942-9	2412V2-12-B04 (5-7.5)	Total/NA	Solid	9010C	
MB 500-556872/1-A	Method Blank	Total/NA	Solid	9010C	
HLCS 500-556872/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 500-556872/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 500-556872/4-A	Lab Control Sample	Total/NA	Solid	9010C	

Analysis Batch: 557430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185942-1	2412V2-12-B01 (0-5)	Total/NA	Solid	9012B	556872
500-185942-2	2412V2-12-B01 (5-7.5)	Total/NA	Solid	9012B	556872
500-185942-3	2412V2-12-B02 (0-5)	Total/NA	Solid	9012B	556872
500-185942-4	2412V2-12-B02 (5-7.5)	Total/NA	Solid	9012B	556872
500-185942-5	2412V2-12-B03 (0-5)	Total/NA	Solid	9012B	556872
500-185942-6	2412V2-12-B03 (0-5) Dup	Total/NA	Solid	9012B	556872
500-185942-7	2412V2-12-B03 (5-7.5)	Total/NA	Solid	9012B	556872
500-185942-8	2412V2-12-B04 (0-5)	Total/NA	Solid	9012B	556872
500-185942-9	2412V2-12-B04 (5-7.5)	Total/NA	Solid	9012B	556872
MB 500-556872/1-A	Method Blank	Total/NA	Solid	9012B	556872
HLCS 500-556872/2-A	Lab Control Sample	Total/NA	Solid	9012B	556872
LCS 500-556872/3-A	Lab Control Sample	Total/NA	Solid	9012B	556872
LLCS 500-556872/4-A	Lab Control Sample	Total/NA	Solid	9012B	556872

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

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)
500-185942-1	2412V2-12-B01 (0-5)	110	90	90	91
500-185942-2	2412V2-12-B01 (5-7.5)	109	93	87	91
500-185942-3	2412V2-12-B02 (0-5)	112	89	87	91
500-185942-4	2412V2-12-B02 (5-7.5)	110	90	87	91
500-185942-5	2412V2-12-B03 (0-5)	113	93	91	91
500-185942-6	2412V2-12-B03 (0-5) Dup	99	99	97	94
500-185942-7	2412V2-12-B03 (5-7.5)	109	91	88	91
500-185942-8	2412V2-12-B04 (0-5)	110	93	92	90
500-185942-9	2412V2-12-B04 (5-7.5)	110	92	91	91
LCS 500-556446/4	Lab Control Sample	108	87	81	91
LCS 500-556601/4	Lab Control Sample	88	96	91	95
LCSD 500-556446/5	Lab Control Sample Dup	108	89	81	90
LCSD 500-556601/5	Lab Control Sample Dup	89	95	93	96
MB 500-556446/7	Method Blank	108	85	82	93
MB 500-556601/7	Method Blank	95	97	97	93

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)
500-185942-1	2412V2-12-B01 (0-5)	90	97	84	82	99	60
500-185942-2	2412V2-12-B01 (5-7.5)	79	82	72	69	85	43
500-185942-3	2412V2-12-B02 (0-5)	73	89	76	74	95	38
500-185942-4	2412V2-12-B02 (5-7.5)	91	100	86	85	104	56
500-185942-5	2412V2-12-B03 (0-5)	102	82	75	68	108	120
500-185942-6	2412V2-12-B03 (0-5) Dup	100	79	72	66	112	119
500-185942-7	2412V2-12-B03 (5-7.5)	84	92	79	79	87	46
500-185942-8	2412V2-12-B04 (0-5)	81	92	76	71	99	39
500-185942-9	2412V2-12-B04 (5-7.5)	76	91	75	80	95	59
LCS 500-556949/2-A	Lab Control Sample	92	85	76	71	95	104
MB 500-556949/1-A	Method Blank	90	91	76	74	102	95

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 - Hampshire - WO 074

Job ID: 500-185942-1

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

Lab Sample ID: MB 500-556446/7
Matrix: Solid
Analysis Batch: 556446

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.0087		0.020	0.0087	mg/Kg			08/12/20 12:33	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg			08/12/20 12:33	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg			08/12/20 12:33	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg			08/12/20 12:33	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg			08/12/20 12:33	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			08/12/20 12:33	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg			08/12/20 12:33	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg			08/12/20 12:33	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg			08/12/20 12:33	1
Chloroethane	<0.0015		0.0050	0.0015	mg/Kg			08/12/20 12:33	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg			08/12/20 12:33	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg			08/12/20 12:33	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg			08/12/20 12:33	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg			08/12/20 12:33	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg			08/12/20 12:33	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg			08/12/20 12:33	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg			08/12/20 12:33	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg			08/12/20 12:33	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			08/12/20 12:33	1
1,3-Dichloropropene, Total	<0.00070		0.0020	0.00070	mg/Kg			08/12/20 12:33	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg			08/12/20 12:33	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg			08/12/20 12:33	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg			08/12/20 12:33	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg			08/12/20 12:33	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg			08/12/20 12:33	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg			08/12/20 12:33	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg			08/12/20 12:33	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg			08/12/20 12:33	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg			08/12/20 12:33	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg			08/12/20 12:33	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg			08/12/20 12:33	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg			08/12/20 12:33	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg			08/12/20 12:33	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg			08/12/20 12:33	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg			08/12/20 12:33	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg			08/12/20 12:33	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg			08/12/20 12:33	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	108		75 - 131		08/12/20 12:33	1
Dibromofluoromethane	85		75 - 126		08/12/20 12:33	1
1,2-Dichloroethane-d4 (Surr)	82		70 - 134		08/12/20 12:33	1
Toluene-d8 (Surr)	93		75 - 124		08/12/20 12:33	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

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

Lab Sample ID: LCS 500-556446/4
Matrix: Solid
Analysis Batch: 556446

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	0.0453		mg/Kg		91	40 - 150
Benzene	0.0500	0.0554		mg/Kg		111	70 - 125
Bromodichloromethane	0.0500	0.0504		mg/Kg		101	67 - 129
Bromoform	0.0500	0.0458		mg/Kg		92	68 - 136
Bromomethane	0.0500	0.0359		mg/Kg		72	70 - 130
2-Butanone (MEK)	0.0500	0.0470		mg/Kg		94	47 - 138
Carbon disulfide	0.0500	0.0548		mg/Kg		110	70 - 129
Carbon tetrachloride	0.0500	0.0536		mg/Kg		107	75 - 125
Chlorobenzene	0.0500	0.0544		mg/Kg		109	50 - 150
Chloroethane	0.0500	0.0408		mg/Kg		82	75 - 125
Chloroform	0.0500	0.0522		mg/Kg		104	57 - 135
Chloromethane	0.0500	0.0684	*	mg/Kg		137	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0534		mg/Kg		107	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0500		mg/Kg		100	70 - 125
Dibromochloromethane	0.0500	0.0491		mg/Kg		98	69 - 125
1,1-Dichloroethane	0.0500	0.0610		mg/Kg		122	70 - 125
1,2-Dichloroethane	0.0500	0.0485		mg/Kg		97	70 - 130
1,1-Dichloroethene	0.0500	0.0553		mg/Kg		111	70 - 120
1,2-Dichloropropane	0.0500	0.0611		mg/Kg		122	70 - 125
Ethylbenzene	0.0500	0.0551		mg/Kg		110	61 - 136
2-Hexanone	0.0500	0.0510		mg/Kg		102	48 - 146
Methylene Chloride	0.0500	0.0512		mg/Kg		102	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0490		mg/Kg		98	50 - 148
Methyl tert-butyl ether	0.0500	0.0505		mg/Kg		101	50 - 140
Styrene	0.0500	0.0541		mg/Kg		108	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0543		mg/Kg		109	70 - 122
Tetrachloroethene	0.0500	0.0518		mg/Kg		104	70 - 124
Toluene	0.0500	0.0539		mg/Kg		108	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0553		mg/Kg		111	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0496		mg/Kg		99	70 - 125
1,1,1-Trichloroethane	0.0500	0.0540		mg/Kg		108	70 - 128
1,1,2-Trichloroethane	0.0500	0.0497		mg/Kg		99	70 - 125
Trichloroethene	0.0500	0.0547		mg/Kg		109	70 - 125
Vinyl acetate	0.0500	0.0578		mg/Kg		116	40 - 153
Vinyl chloride	0.0500	0.0585		mg/Kg		117	70 - 125
Xylenes, Total	0.100	0.109		mg/Kg		109	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	108		75 - 131
Dibromofluoromethane	87		75 - 126
1,2-Dichloroethane-d4 (Surr)	81		70 - 134
Toluene-d8 (Surr)	91		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

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

Lab Sample ID: LCSD 500-556446/5

Matrix: Solid

Analysis Batch: 556446

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	0.0461		mg/Kg		92	40 - 150	2	30
Benzene	0.0500	0.0473		mg/Kg		95	70 - 125	16	30
Bromodichloromethane	0.0500	0.0425		mg/Kg		85	67 - 129	17	30
Bromoform	0.0500	0.0371		mg/Kg		74	68 - 136	21	30
Bromomethane	0.0500	0.0322	*	mg/Kg		64	70 - 130	11	30
2-Butanone (MEK)	0.0500	0.0486		mg/Kg		97	47 - 138	3	30
Carbon disulfide	0.0500	0.0490		mg/Kg		98	70 - 129	11	30
Carbon tetrachloride	0.0500	0.0478		mg/Kg		96	75 - 125	11	30
Chlorobenzene	0.0500	0.0455		mg/Kg		91	50 - 150	18	30
Chloroethane	0.0500	0.0395		mg/Kg		79	75 - 125	3	30
Chloroform	0.0500	0.0461		mg/Kg		92	57 - 135	12	30
Chloromethane	0.0500	0.0605		mg/Kg		121	70 - 125	12	30
cis-1,2-Dichloroethene	0.0500	0.0484		mg/Kg		97	70 - 125	10	30
cis-1,3-Dichloropropene	0.0500	0.0409		mg/Kg		82	70 - 125	20	30
Dibromochloromethane	0.0500	0.0395		mg/Kg		79	69 - 125	22	30
1,1-Dichloroethane	0.0500	0.0537		mg/Kg		107	70 - 125	13	30
1,2-Dichloroethane	0.0500	0.0413		mg/Kg		83	70 - 130	16	30
1,1-Dichloroethene	0.0500	0.0492		mg/Kg		98	70 - 120	12	30
1,2-Dichloropropane	0.0500	0.0517		mg/Kg		103	70 - 125	17	30
Ethylbenzene	0.0500	0.0469		mg/Kg		94	61 - 136	16	30
2-Hexanone	0.0500	0.0517		mg/Kg		103	48 - 146	1	30
Methylene Chloride	0.0500	0.0460		mg/Kg		92	70 - 126	11	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0492		mg/Kg		98	50 - 148	0	30
Methyl tert-butyl ether	0.0500	0.0423		mg/Kg		85	50 - 140	18	30
Styrene	0.0500	0.0452		mg/Kg		90	70 - 125	18	30
1,1,2,2-Tetrachloroethane	0.0500	0.0434		mg/Kg		87	70 - 122	22	30
Tetrachloroethene	0.0500	0.0431		mg/Kg		86	70 - 124	18	30
Toluene	0.0500	0.0448		mg/Kg		90	70 - 125	19	30
trans-1,2-Dichloroethene	0.0500	0.0492		mg/Kg		98	70 - 125	12	30
trans-1,3-Dichloropropene	0.0500	0.0405		mg/Kg		81	70 - 125	20	30
1,1,1-Trichloroethane	0.0500	0.0471		mg/Kg		94	70 - 128	14	30
1,1,2-Trichloroethane	0.0500	0.0405		mg/Kg		81	70 - 125	20	30
Trichloroethene	0.0500	0.0460		mg/Kg		92	70 - 125	17	30
Vinyl acetate	0.0500	0.0525		mg/Kg		105	40 - 153	10	30
Vinyl chloride	0.0500	0.0519		mg/Kg		104	70 - 125	12	30
Xylenes, Total	0.100	0.0907		mg/Kg		91	53 - 147	18	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	108		75 - 131
Dibromofluoromethane	89		75 - 126
1,2-Dichloroethane-d4 (Surr)	81		70 - 134
Toluene-d8 (Surr)	90		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

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

Lab Sample ID: MB 500-556601/7
Matrix: Solid
Analysis Batch: 556601

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.0087		0.020	0.0087	mg/Kg			08/13/20 10:22	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg			08/13/20 10:22	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg			08/13/20 10:22	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg			08/13/20 10:22	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg			08/13/20 10:22	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			08/13/20 10:22	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg			08/13/20 10:22	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg			08/13/20 10:22	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg			08/13/20 10:22	1
Chloroethane	<0.0015		0.0050	0.0015	mg/Kg			08/13/20 10:22	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg			08/13/20 10:22	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg			08/13/20 10:22	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg			08/13/20 10:22	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg			08/13/20 10:22	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg			08/13/20 10:22	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg			08/13/20 10:22	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg			08/13/20 10:22	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg			08/13/20 10:22	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			08/13/20 10:22	1
1,3-Dichloropropene, Total	<0.00070		0.0020	0.00070	mg/Kg			08/13/20 10:22	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg			08/13/20 10:22	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg			08/13/20 10:22	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg			08/13/20 10:22	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg			08/13/20 10:22	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg			08/13/20 10:22	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg			08/13/20 10:22	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg			08/13/20 10:22	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg			08/13/20 10:22	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg			08/13/20 10:22	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg			08/13/20 10:22	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg			08/13/20 10:22	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg			08/13/20 10:22	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg			08/13/20 10:22	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg			08/13/20 10:22	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg			08/13/20 10:22	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg			08/13/20 10:22	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg			08/13/20 10:22	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	95		75 - 131		08/13/20 10:22	1
Dibromofluoromethane	97		75 - 126		08/13/20 10:22	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134		08/13/20 10:22	1
Toluene-d8 (Surr)	93		75 - 124		08/13/20 10:22	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

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

Lab Sample ID: LCS 500-556601/4

Matrix: Solid

Analysis Batch: 556601

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	0.0390		mg/Kg		78	40 - 150
Benzene	0.0500	0.0457		mg/Kg		91	70 - 125
Bromodichloromethane	0.0500	0.0474		mg/Kg		95	67 - 129
Bromoform	0.0500	0.0485		mg/Kg		97	68 - 136
Bromomethane	0.0500	0.0498		mg/Kg		100	70 - 130
2-Butanone (MEK)	0.0500	0.0326		mg/Kg		65	47 - 138
Carbon disulfide	0.0500	0.0458		mg/Kg		92	70 - 129
Carbon tetrachloride	0.0500	0.0519		mg/Kg		104	75 - 125
Chlorobenzene	0.0500	0.0480		mg/Kg		96	50 - 150
Chloroethane	0.0500	0.0363	*	mg/Kg		73	75 - 125
Chloroform	0.0500	0.0475		mg/Kg		95	57 - 135
Chloromethane	0.0500	0.0362		mg/Kg		72	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0475		mg/Kg		95	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0460		mg/Kg		92	70 - 125
Dibromochloromethane	0.0500	0.0498		mg/Kg		100	69 - 125
1,1-Dichloroethane	0.0500	0.0434		mg/Kg		87	70 - 125
1,2-Dichloroethane	0.0500	0.0449		mg/Kg		90	70 - 130
1,1-Dichloroethene	0.0500	0.0481		mg/Kg		96	70 - 120
1,2-Dichloropropane	0.0500	0.0412		mg/Kg		82	70 - 125
Ethylbenzene	0.0500	0.0493		mg/Kg		99	61 - 136
2-Hexanone	0.0500	0.0333		mg/Kg		67	48 - 146
Methylene Chloride	0.0500	0.0456		mg/Kg		91	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0338		mg/Kg		68	50 - 148
Methyl tert-butyl ether	0.0500	0.0473		mg/Kg		95	50 - 140
Styrene	0.0500	0.0495		mg/Kg		99	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0412		mg/Kg		82	70 - 122
Tetrachloroethene	0.0500	0.0520		mg/Kg		104	70 - 124
Toluene	0.0500	0.0464		mg/Kg		93	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0499		mg/Kg		100	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0465		mg/Kg		93	70 - 125
1,1,1-Trichloroethane	0.0500	0.0515		mg/Kg		103	70 - 128
1,1,2-Trichloroethane	0.0500	0.0455		mg/Kg		91	70 - 125
Trichloroethene	0.0500	0.0509		mg/Kg		102	70 - 125
Vinyl acetate	0.0500	0.0396		mg/Kg		79	40 - 153
Vinyl chloride	0.0500	0.0424		mg/Kg		85	70 - 125
Xylenes, Total	0.100	0.0981		mg/Kg		98	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	88		75 - 131
Dibromofluoromethane	96		75 - 126
1,2-Dichloroethane-d4 (Surr)	91		70 - 134
Toluene-d8 (Surr)	95		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

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

Lab Sample ID: LCSD 500-556601/5
Matrix: Solid
Analysis Batch: 556601

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	0.0399		mg/Kg		80	40 - 150	2	30
Benzene	0.0500	0.0439		mg/Kg		88	70 - 125	4	30
Bromodichloromethane	0.0500	0.0461		mg/Kg		92	67 - 129	3	30
Bromoform	0.0500	0.0475		mg/Kg		95	68 - 136	2	30
Bromomethane	0.0500	0.0489		mg/Kg		98	70 - 130	2	30
2-Butanone (MEK)	0.0500	0.0361		mg/Kg		72	47 - 138	10	30
Carbon disulfide	0.0500	0.0432		mg/Kg		86	70 - 129	6	30
Carbon tetrachloride	0.0500	0.0485		mg/Kg		97	75 - 125	7	30
Chlorobenzene	0.0500	0.0460		mg/Kg		92	50 - 150	4	30
Chloroethane	0.0500	0.0419		mg/Kg		84	75 - 125	14	30
Chloroform	0.0500	0.0453		mg/Kg		91	57 - 135	5	30
Chloromethane	0.0500	0.0361		mg/Kg		72	70 - 125	0	30
cis-1,2-Dichloroethene	0.0500	0.0447		mg/Kg		89	70 - 125	6	30
cis-1,3-Dichloropropene	0.0500	0.0458		mg/Kg		92	70 - 125	0	30
Dibromochloromethane	0.0500	0.0493		mg/Kg		99	69 - 125	1	30
1,1-Dichloroethane	0.0500	0.0408		mg/Kg		82	70 - 125	6	30
1,2-Dichloroethane	0.0500	0.0438		mg/Kg		88	70 - 130	2	30
1,1-Dichloroethene	0.0500	0.0446		mg/Kg		89	70 - 120	8	30
1,2-Dichloropropane	0.0500	0.0402		mg/Kg		80	70 - 125	3	30
Ethylbenzene	0.0500	0.0473		mg/Kg		95	61 - 136	4	30
2-Hexanone	0.0500	0.0351		mg/Kg		70	48 - 146	5	30
Methylene Chloride	0.0500	0.0421		mg/Kg		84	70 - 126	8	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0358		mg/Kg		72	50 - 148	6	30
Methyl tert-butyl ether	0.0500	0.0450		mg/Kg		90	50 - 140	5	30
Styrene	0.0500	0.0473		mg/Kg		95	70 - 125	4	30
1,1,1,2-Tetrachloroethane	0.0500	0.0416		mg/Kg		83	70 - 122	1	30
Tetrachloroethene	0.0500	0.0505		mg/Kg		101	70 - 124	3	30
Toluene	0.0500	0.0450		mg/Kg		90	70 - 125	3	30
trans-1,2-Dichloroethene	0.0500	0.0454		mg/Kg		91	70 - 125	10	30
trans-1,3-Dichloropropene	0.0500	0.0462		mg/Kg		92	70 - 125	1	30
1,1,1-Trichloroethane	0.0500	0.0475		mg/Kg		95	70 - 128	8	30
1,1,2-Trichloroethane	0.0500	0.0449		mg/Kg		90	70 - 125	1	30
Trichloroethene	0.0500	0.0493		mg/Kg		99	70 - 125	3	30
Vinyl acetate	0.0500	0.0414		mg/Kg		83	40 - 153	4	30
Vinyl chloride	0.0500	0.0424		mg/Kg		85	70 - 125	0	30
Xylenes, Total	0.100	0.0934		mg/Kg		93	53 - 147	5	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	89		75 - 131
Dibromofluoromethane	95		75 - 126
1,2-Dichloroethane-d4 (Surr)	93		70 - 134
Toluene-d8 (Surr)	96		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

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

Lab Sample ID: MB 500-556949/1-A
Matrix: Solid
Analysis Batch: 557147

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 556949

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0060		0.033	0.0060	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Acenaphthylene	<0.0044		0.033	0.0044	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Anthracene	<0.0056		0.033	0.0056	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Benzo[a]anthracene	<0.0045		0.033	0.0045	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Benzo[a]pyrene	<0.0064		0.033	0.0064	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Benzo[b]fluoranthene	<0.0072		0.033	0.0072	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Benzo[g,h,i]perylene	<0.011		0.033	0.011	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Benzo[k]fluoranthene	<0.0098		0.033	0.0098	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Bis(2-chloroethoxy)methane	<0.034		0.17	0.034	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Bis(2-chloroethyl)ether	<0.050		0.17	0.050	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Bis(2-ethylhexyl) phthalate	<0.061		0.17	0.061	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
4-Bromophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Butyl benzyl phthalate	<0.063		0.17	0.063	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Carbazole	<0.083		0.17	0.083	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
4-Chloroaniline	<0.16		0.67	0.16	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
4-Chloro-3-methylphenol	<0.11		0.33	0.11	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
2-Chloronaphthalene	<0.037		0.17	0.037	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
2-Chlorophenol	<0.057		0.17	0.057	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
4-Chlorophenyl phenyl ether	<0.039		0.17	0.039	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Chrysene	<0.0091		0.033	0.0091	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Dibenz(a,h)anthracene	<0.0064		0.033	0.0064	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Dibenzofuran	<0.039		0.17	0.039	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
1,2-Dichlorobenzene	<0.040		0.17	0.040	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
1,3-Dichlorobenzene	<0.037		0.17	0.037	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
1,4-Dichlorobenzene	<0.043		0.17	0.043	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
3,3'-Dichlorobenzidine	<0.047		0.17	0.047	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
2,4-Dichlorophenol	<0.079		0.33	0.079	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Diethyl phthalate	<0.056		0.17	0.056	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
2,4-Dimethylphenol	<0.13		0.33	0.13	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Dimethyl phthalate	<0.043		0.17	0.043	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Di-n-butyl phthalate	<0.051		0.17	0.051	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
4,6-Dinitro-2-methylphenol	<0.27		0.67	0.27	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
2,4-Dinitrophenol	<0.59		0.67	0.59	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
2,4-Dinitrotoluene	<0.053		0.17	0.053	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
2,6-Dinitrotoluene	<0.065		0.17	0.065	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Di-n-octyl phthalate	<0.054		0.17	0.054	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Fluoranthene	<0.0062		0.033	0.0062	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Fluorene	<0.0047		0.033	0.0047	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Hexachlorobenzene	<0.0077		0.067	0.0077	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Hexachlorobutadiene	<0.052		0.17	0.052	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Hexachlorocyclopentadiene	<0.19		0.67	0.19	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Hexachloroethane	<0.051		0.17	0.051	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Indeno[1,2,3-cd]pyrene	<0.0086		0.033	0.0086	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Isophorone	<0.037		0.17	0.037	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
2-Methylnaphthalene	<0.0061		0.067	0.0061	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
2-Methylphenol	<0.053		0.17	0.053	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
3 & 4 Methylphenol	<0.055		0.17	0.055	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Naphthalene	<0.0051		0.033	0.0051	mg/Kg		08/14/20 17:27	08/17/20 11:31	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

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

Lab Sample ID: MB 500-556949/1-A

Matrix: Solid

Analysis Batch: 557147

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 556949

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2-Nitroaniline	<0.045		0.17	0.045	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
3-Nitroaniline	<0.10		0.33	0.10	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
4-Nitroaniline	<0.14		0.33	0.14	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Nitrobenzene	<0.0083		0.033	0.0083	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
2-Nitrophenol	<0.079		0.33	0.079	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
4-Nitrophenol	<0.32		0.67	0.32	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
N-Nitrosodi-n-propylamine	<0.041		0.067	0.041	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
N-Nitrosodiphenylamine	<0.039		0.17	0.039	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
2,2'-oxybis[1-chloropropane]	<0.039		0.17	0.039	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Pentachlorophenol	<0.53		0.67	0.53	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Phenanthrene	<0.0046		0.033	0.0046	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Phenol	<0.074		0.17	0.074	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
Pyrene	<0.0066		0.033	0.0066	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
1,2,4-Trichlorobenzene	<0.036		0.17	0.036	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
2,4,5-Trichlorophenol	<0.076		0.33	0.076	mg/Kg		08/14/20 17:27	08/17/20 11:31	1
2,4,6-Trichlorophenol	<0.11		0.33	0.11	mg/Kg		08/14/20 17:27	08/17/20 11:31	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorobiphenyl	90		43 - 145	08/14/20 17:27	08/17/20 11:31	1
2-Fluorophenol	91		31 - 166	08/14/20 17:27	08/17/20 11:31	1
Nitrobenzene-d5	76		37 - 147	08/14/20 17:27	08/17/20 11:31	1
Phenol-d5	74		30 - 153	08/14/20 17:27	08/17/20 11:31	1
Terphenyl-d14	102		42 - 157	08/14/20 17:27	08/17/20 11:31	1
2,4,6-Tribromophenol	95		31 - 143	08/14/20 17:27	08/17/20 11:31	1

Lab Sample ID: LCS 500-556949/2-A

Matrix: Solid

Analysis Batch: 557147

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 556949

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1.33	1.04		mg/Kg		78	65 - 124
Acenaphthylene	1.33	1.13		mg/Kg		85	68 - 120
Anthracene	1.33	1.14		mg/Kg		86	70 - 114
Benzo[a]anthracene	1.33	1.20		mg/Kg		90	67 - 122
Benzo[a]pyrene	1.33	1.16		mg/Kg		87	65 - 133
Benzo[b]fluoranthene	1.33	1.25		mg/Kg		94	69 - 129
Benzo[g,h,i]perylene	1.33	1.31		mg/Kg		99	72 - 131
Benzo[k]fluoranthene	1.33	1.10		mg/Kg		82	68 - 127
Bis(2-chloroethoxy)methane	1.33	0.924		mg/Kg		69	60 - 112
Bis(2-chloroethyl)ether	1.33	0.826		mg/Kg		62	55 - 111
Bis(2-ethylhexyl) phthalate	1.33	1.12		mg/Kg		84	72 - 131
4-Bromophenyl phenyl ether	1.33	1.13		mg/Kg		85	68 - 118
Butyl benzyl phthalate	1.33	1.17		mg/Kg		88	71 - 129
Carbazole	1.33	1.08		mg/Kg		81	65 - 142
4-Chloroaniline	1.33	0.840		mg/Kg		63	30 - 150
4-Chloro-3-methylphenol	1.33	0.992		mg/Kg		74	65 - 122
2-Chloronaphthalene	1.33	1.09		mg/Kg		82	69 - 114
2-Chlorophenol	1.33	1.01		mg/Kg		76	64 - 110

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

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

Lab Sample ID: LCS 500-556949/2-A

Matrix: Solid

Analysis Batch: 557147

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 556949

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorophenyl phenyl ether	1.33	1.20		mg/Kg		90	62 - 119
Chrysene	1.33	1.20		mg/Kg		90	63 - 120
Dibenz(a,h)anthracene	1.33	1.24		mg/Kg		93	64 - 131
Dibenzofuran	1.33	1.17		mg/Kg		88	66 - 115
1,2-Dichlorobenzene	1.33	1.06		mg/Kg		80	62 - 110
1,3-Dichlorobenzene	1.33	1.00		mg/Kg		75	65 - 124
1,4-Dichlorobenzene	1.33	1.02		mg/Kg		76	61 - 110
3,3'-Dichlorobenzidine	1.33	0.888		mg/Kg		67	35 - 128
2,4-Dichlorophenol	1.33	1.17		mg/Kg		88	58 - 120
Diethyl phthalate	1.33	1.10		mg/Kg		82	58 - 120
2,4-Dimethylphenol	1.33	1.01		mg/Kg		76	60 - 110
Dimethyl phthalate	1.33	1.24		mg/Kg		93	69 - 116
Di-n-butyl phthalate	1.33	1.09		mg/Kg		82	65 - 120
4,6-Dinitro-2-methylphenol	2.67	0.808		mg/Kg		30	10 - 110
2,4-Dinitrophenol	2.67	0.637	J	mg/Kg		24	10 - 100
2,4-Dinitrotoluene	1.33	1.34		mg/Kg		100	69 - 124
2,6-Dinitrotoluene	1.33	1.30		mg/Kg		97	70 - 123
Di-n-octyl phthalate	1.33	1.13		mg/Kg		85	68 - 134
Fluoranthene	1.33	1.20		mg/Kg		90	62 - 120
Fluorene	1.33	1.18		mg/Kg		89	62 - 120
Hexachlorobenzene	1.33	1.22		mg/Kg		92	63 - 124
Hexachlorobutadiene	1.33	1.31		mg/Kg		98	56 - 120
Hexachlorocyclopentadiene	1.33	1.02		mg/Kg		76	10 - 133
Hexachloroethane	1.33	0.915		mg/Kg		69	60 - 114
Indeno[1,2,3-cd]pyrene	1.33	1.35		mg/Kg		101	68 - 130
Isophorone	1.33	1.02		mg/Kg		77	55 - 110
2-Methylnaphthalene	1.33	1.22		mg/Kg		92	69 - 112
2-Methylphenol	1.33	1.14		mg/Kg		85	60 - 120
3 & 4 Methylphenol	1.33	1.01		mg/Kg		76	57 - 120
Naphthalene	1.33	1.13		mg/Kg		85	63 - 110
2-Nitroaniline	1.33	0.878		mg/Kg		66	57 - 124
3-Nitroaniline	1.33	0.679		mg/Kg		51	40 - 122
4-Nitroaniline	1.33	0.876		mg/Kg		66	60 - 160
Nitrobenzene	1.33	0.949		mg/Kg		71	60 - 116
2-Nitrophenol	1.33	1.15		mg/Kg		86	60 - 120
4-Nitrophenol	2.67	1.81		mg/Kg		68	30 - 122
N-Nitrosodi-n-propylamine	1.33	1.05		mg/Kg		78	56 - 118
N-Nitrosodiphenylamine	1.33	1.09		mg/Kg		82	65 - 112
2,2'-oxybis[1-chloropropane]	1.33	0.945		mg/Kg		71	40 - 124
Pentachlorophenol	2.67	1.26		mg/Kg		47	13 - 112
Phenanthrene	1.33	1.15		mg/Kg		86	62 - 120
Phenol	1.33	0.914		mg/Kg		69	56 - 122
Pyrene	1.33	1.23		mg/Kg		93	61 - 128
1,2,4-Trichlorobenzene	1.33	1.21		mg/Kg		91	66 - 117
2,4,5-Trichlorophenol	1.33	1.06		mg/Kg		80	50 - 120
2,4,6-Trichlorophenol	1.33	1.11		mg/Kg		83	57 - 120

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

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

Lab Sample ID: LCS 500-556949/2-A
Matrix: Solid
Analysis Batch: 557147

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556949

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	92		43 - 145
2-Fluorophenol	85		31 - 166
Nitrobenzene-d5	76		37 - 147
Phenol-d5	71		30 - 153
Terphenyl-d14	95		42 - 157
2,4,6-Tribromophenol	104		31 - 143

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-556317/1-A
Matrix: Solid
Analysis Batch: 556556

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 556317

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	0.463	J	2.0	0.39	mg/Kg		08/11/20 17:27	08/12/20 17:21	1
Arsenic	<0.34		1.0	0.34	mg/Kg		08/11/20 17:27	08/12/20 17:21	1
Barium	<0.11		1.0	0.11	mg/Kg		08/11/20 17:27	08/12/20 17:21	1
Beryllium	<0.093		0.40	0.093	mg/Kg		08/11/20 17:27	08/12/20 17:21	1
Cadmium	0.0475	J	0.20	0.036	mg/Kg		08/11/20 17:27	08/12/20 17:21	1
Chromium	0.592	J	1.0	0.50	mg/Kg		08/11/20 17:27	08/12/20 17:21	1
Cobalt	<0.13		0.50	0.13	mg/Kg		08/11/20 17:27	08/12/20 17:21	1
Copper	<0.28		1.0	0.28	mg/Kg		08/11/20 17:27	08/12/20 17:21	1
Iron	<10		20	10	mg/Kg		08/11/20 17:27	08/12/20 17:21	1
Lead	<0.23		0.50	0.23	mg/Kg		08/11/20 17:27	08/12/20 17:21	1
Magnesium	<5.0		10	5.0	mg/Kg		08/11/20 17:27	08/12/20 17:21	1
Calcium	7.58	J	20	3.4	mg/Kg		08/11/20 17:27	08/12/20 17:21	1
Manganese	<0.15		1.0	0.15	mg/Kg		08/11/20 17:27	08/12/20 17:21	1
Nickel	<0.29		1.0	0.29	mg/Kg		08/11/20 17:27	08/12/20 17:21	1
Selenium	<0.59		1.0	0.59	mg/Kg		08/11/20 17:27	08/12/20 17:21	1
Silver	<0.13		0.50	0.13	mg/Kg		08/11/20 17:27	08/12/20 17:21	1
Thallium	<0.50		1.0	0.50	mg/Kg		08/11/20 17:27	08/12/20 17:21	1
Vanadium	<0.12		0.50	0.12	mg/Kg		08/11/20 17:27	08/12/20 17:21	1
Zinc	<0.88		2.0	0.88	mg/Kg		08/11/20 17:27	08/12/20 17:21	1
Potassium	<18		50	18	mg/Kg		08/11/20 17:27	08/12/20 17:21	1
Sodium	<15		100	15	mg/Kg		08/11/20 17:27	08/12/20 17:21	1

Lab Sample ID: LCS 500-556317/2-A
Matrix: Solid
Analysis Batch: 556556

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556317

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Antimony	50.0	42.3		mg/Kg		85	80 - 120
Arsenic	10.0	9.01		mg/Kg		90	80 - 120
Barium	200	188		mg/Kg		94	80 - 120
Beryllium	5.00	4.65		mg/Kg		93	80 - 120
Cadmium	5.00	4.45		mg/Kg		89	80 - 120
Chromium	20.0	19.4		mg/Kg		97	80 - 120
Cobalt	50.0	47.5		mg/Kg		95	80 - 120
Copper	25.0	23.2		mg/Kg		93	80 - 120

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

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

Lab Sample ID: LCS 500-556317/2-A
Matrix: Solid
Analysis Batch: 556556

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556317

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	100	88.1		mg/Kg		88	80 - 120
Lead	10.0	9.30		mg/Kg		93	80 - 120
Magnesium	1000	899		mg/Kg		90	80 - 120
Calcium	1000	926		mg/Kg		93	80 - 120
Manganese	50.0	46.1		mg/Kg		92	80 - 120
Nickel	50.0	48.3		mg/Kg		97	80 - 120
Selenium	10.0	8.01		mg/Kg		80	80 - 120
Silver	5.00	4.49		mg/Kg		90	80 - 120
Thallium	10.0	9.43		mg/Kg		94	80 - 120
Vanadium	50.0	47.3		mg/Kg		95	80 - 120
Zinc	50.0	46.3		mg/Kg		93	80 - 120
Potassium	1000	947		mg/Kg		95	80 - 120
Sodium	1000	956		mg/Kg		96	80 - 120

Lab Sample ID: LCS 500-557242/2-A
Matrix: Solid
Analysis Batch: 557308

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 557242

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.100	0.0959		mg/L		96	80 - 120
Manganese	0.500	0.447		mg/L		89	80 - 120

Lab Sample ID: LCS 500-557245/24-A
Matrix: Solid
Analysis Batch: 557308

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 557245

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.0968		mg/L		97	80 - 120
Barium	0.500	0.495	J	mg/L		99	80 - 120
Beryllium	0.0500	0.0481		mg/L		96	80 - 120
Cadmium	0.0500	0.0486		mg/L		97	80 - 120
Chromium	0.200	0.195		mg/L		98	80 - 120
Cobalt	0.500	0.489		mg/L		98	80 - 120
Copper	0.250	0.264		mg/L		106	80 - 120
Lead	0.100	0.0984		mg/L		98	80 - 120
Calcium	10.0	9.88		mg/L		99	80 - 120
Manganese	0.500	0.475		mg/L		95	80 - 120
Nickel	0.500	0.485		mg/L		97	80 - 120
Selenium	0.100	0.0923		mg/L		92	80 - 120
Silver	0.0500	0.0464		mg/L		93	80 - 120
Vanadium	0.500	0.487		mg/L		97	80 - 120
Zinc	0.500	0.492	J	mg/L		98	80 - 120
Potassium	10.0	9.37		mg/L		94	80 - 120

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

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

Lab Sample ID: LCS 500-557245/24-A
Matrix: Solid
Analysis Batch: 557361

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 557245
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Iron	1.00	1.06		mg/L		106	80 - 120
Magnesium	10.0	9.52		mg/L		95	80 - 120

Lab Sample ID: LCS 500-557245/2-A
Matrix: Solid
Analysis Batch: 557360

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 557245
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.100	0.109		mg/L		109	80 - 120
Barium	0.500	0.496	J	mg/L		99	80 - 120
Beryllium	0.0500	0.0498		mg/L		100	80 - 120
Cadmium	0.0500	0.0511		mg/L		102	80 - 120
Chromium	0.200	0.198		mg/L		99	80 - 120
Cobalt	0.500	0.522		mg/L		104	80 - 120
Copper	0.250	0.259		mg/L		103	80 - 120
Iron	1.00	1.02		mg/L		102	80 - 120
Lead	0.100	0.0961		mg/L		96	80 - 120
Magnesium	10.0	9.26		mg/L		93	80 - 120
Calcium	10.0	9.87		mg/L		99	80 - 120
Manganese	0.500	0.482		mg/L		96	80 - 120
Nickel	0.500	0.517		mg/L		103	80 - 120
Selenium	0.100	0.106		mg/L		106	80 - 120
Silver	0.0500	0.0512		mg/L		102	80 - 120
Vanadium	0.500	0.516		mg/L		103	80 - 120
Zinc	0.500	0.568		mg/L		114	80 - 120
Potassium	10.0	10.4		mg/L		104	80 - 120

Lab Sample ID: LB 500-556919/1-B
Matrix: Solid
Analysis Batch: 557360

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 557245

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/17/20 17:21	08/18/20 01:05	1
Barium	<0.050		0.50	0.050	mg/L		08/17/20 17:21	08/18/20 01:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/17/20 17:21	08/18/20 01:05	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/17/20 17:21	08/18/20 01:05	1
Chromium	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:05	1
Cobalt	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:05	1
Copper	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:05	1
Iron	<0.20		0.40	0.20	mg/L		08/17/20 17:21	08/18/20 01:05	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/17/20 17:21	08/18/20 01:05	1
Magnesium	<0.50		2.5	0.50	mg/L		08/17/20 17:21	08/18/20 01:05	1
Calcium	<0.50		5.0	0.50	mg/L		08/17/20 17:21	08/18/20 01:05	1
Manganese	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:05	1
Nickel	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:05	1
Selenium	<0.020		0.050	0.020	mg/L		08/17/20 17:21	08/18/20 01:05	1
Silver	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:05	1
Vanadium	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:05	1
Zinc	<0.020		0.50	0.020	mg/L		08/17/20 17:21	08/18/20 01:05	1

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

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

Lab Sample ID: LB 500-556919/1-B
Matrix: Solid
Analysis Batch: 557360

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 557245

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	<0.50		2.5	0.50	mg/L		08/17/20 17:21	08/18/20 01:05	1

Lab Sample ID: LB2 500-556920/1-C
Matrix: Solid
Analysis Batch: 557308

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 557245

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/17/20 17:21	08/18/20 02:50	1
Barium	<0.050		0.50	0.050	mg/L		08/17/20 17:21	08/18/20 02:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/17/20 17:21	08/18/20 02:50	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/17/20 17:21	08/18/20 02:50	1
Chromium	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:50	1
Cobalt	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:50	1
Copper	0.0164	J	0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:50	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/17/20 17:21	08/18/20 02:50	1
Calcium	<0.50		5.0	0.50	mg/L		08/17/20 17:21	08/18/20 02:50	1
Manganese	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:50	1
Nickel	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:50	1
Selenium	<0.020		0.050	0.020	mg/L		08/17/20 17:21	08/18/20 02:50	1
Silver	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:50	1
Vanadium	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:50	1
Zinc	0.0279	J	0.50	0.020	mg/L		08/17/20 17:21	08/18/20 02:50	1
Potassium	<0.50		2.5	0.50	mg/L		08/17/20 17:21	08/18/20 02:50	1

Lab Sample ID: LB2 500-556920/1-C
Matrix: Solid
Analysis Batch: 557361

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 557245

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.40	0.20	mg/L		08/17/20 17:21	08/18/20 07:22	1
Magnesium	<0.50		2.5	0.50	mg/L		08/17/20 17:21	08/18/20 07:22	1

Lab Sample ID: LB 500-556907/1-B
Matrix: Solid
Analysis Batch: 557308

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 557242

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		08/17/20 17:17	08/18/20 03:14	1
Manganese	<0.010		0.025	0.010	mg/L		08/17/20 17:17	08/18/20 03:14	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-557245/24-A
Matrix: Solid
Analysis Batch: 557398

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 557245

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.521	^	mg/L		104	80 - 120
Thallium	0.100	0.112	^	mg/L		112	80 - 120

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

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

Lab Sample ID: LCS 500-557245/2-A
 Matrix: Solid
 Analysis Batch: 557398

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 557245
 %Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.573	^	mg/L		115	80 - 120
Thallium	0.100	0.120	^	mg/L		120	80 - 120

Lab Sample ID: LB2 500-556918/1-B
 Matrix: Solid
 Analysis Batch: 557398

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L			08/18/20 10:15	1
Thallium	<0.0020		0.0020	0.0020	mg/L			08/18/20 10:15	1

Lab Sample ID: LB 500-556919/1-B
 Matrix: Solid
 Analysis Batch: 557398

Client Sample ID: Method Blank
 Prep Type: TCLP
 Prep Batch: 557245

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		08/17/20 17:21	08/18/20 09:20	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		08/17/20 17:21	08/18/20 09:20	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-557383/12-A
 Matrix: Solid
 Analysis Batch: 557609

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 557383

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/18/20 09:55	08/19/20 07:56	1

Lab Sample ID: LCS 500-557383/29-A
 Matrix: Solid
 Analysis Batch: 557609

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 557383
 %Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00197		mg/L		98	80 - 120

Lab Sample ID: MB 500-557385/12-A
 Matrix: Solid
 Analysis Batch: 557609

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 557385

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/18/20 09:55	08/19/20 09:02	1

Lab Sample ID: LCS 500-557385/14-A
 Matrix: Solid
 Analysis Batch: 557609

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 557385
 %Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00198		mg/L		99	80 - 120

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

Method: 7470A - TCLP Mercury (Continued)

Lab Sample ID: LB2 500-556920/2-B
Matrix: Solid
Analysis Batch: 557609

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 557383

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/18/20 09:55	08/19/20 08:41	1

Lab Sample ID: LB 500-556919/1-C
Matrix: Solid
Analysis Batch: 557609

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 557385

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/18/20 09:55	08/19/20 09:04	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-556281/12-A
Matrix: Solid
Analysis Batch: 556451

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 556281

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		08/11/20 14:25	08/12/20 09:24	1

Lab Sample ID: LCS 500-556281/13-A
Matrix: Solid
Analysis Batch: 556451

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556281

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.170		mg/Kg		102	80 - 120

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 500-556872/1-A
Matrix: Solid
Analysis Batch: 557430

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 556872

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.12		0.24	0.12	mg/Kg		08/14/20 15:05	08/17/20 14:28	1

Lab Sample ID: HLCS 500-556872/2-A
Matrix: Solid
Analysis Batch: 557430

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556872

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	12.0	13.1		mg/Kg		109	90 - 110

Lab Sample ID: LCS 500-556872/3-A
Matrix: Solid
Analysis Batch: 557430

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556872

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	2.40	2.32		mg/Kg		97	85 - 115

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

Method: 9012B - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: LLCS 500-556872/4-A
Matrix: Solid
Analysis Batch: 557430

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556872
%Rec.

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	1.20	1.34		mg/Kg		111	75 - 125

Method: 9045D - pH

Lab Sample ID: 500-185942-1 DU
Matrix: Solid
Analysis Batch: 556437

Client Sample ID: 2412V2-12-B01 (0-5)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	8.7		8.8		SU		1	



Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

Client Sample ID: 2412V2-12-B01 (0-5)

Lab Sample ID: 500-185942-1

Date Collected: 08/04/20 12:00

Matrix: Solid

Date Received: 08/04/20 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			556907	08/14/20 12:25	JLC	TAL CHI
SPLP East	Prep	3010A			557242	08/17/20 17:17	BDE	TAL CHI
SPLP East	Analysis	6010B		1	557308	08/18/20 04:02	JEF	TAL CHI
TCLP	Leach	1311			556919	08/14/20 14:05	JLC	TAL CHI
TCLP	Prep	3010A			557245	08/17/20 17:21	BDE	TAL CHI
TCLP	Analysis	6010B		1	557360	08/18/20 02:00	JEF	TAL CHI
TCLP	Leach	1311			556919	08/14/20 14:05	JLC	TAL CHI
TCLP	Prep	3010A			557245	08/17/20 17:21	BDE	TAL CHI
TCLP	Analysis	6020A		1	557398	08/18/20 09:47	FXG	TAL CHI
TCLP	Leach	1311			556919	08/14/20 14:05	JLC	TAL CHI
TCLP	Prep	7470A			557385	08/18/20 09:55	MJG	TAL CHI
TCLP	Analysis	7470A		1	557609	08/19/20 09:40	MJG	TAL CHI
Total/NA	Analysis	9045D		1	556437	08/11/20 17:04	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	556605	08/13/20 07:39	LWN	TAL CHI

Client Sample ID: 2412V2-12-B01 (0-5)

Lab Sample ID: 500-185942-1

Date Collected: 08/04/20 12:00

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 89.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			556455	08/05/20 08:30	PMF	TAL CHI
Total/NA	Analysis	8260B		1	556446	08/12/20 17:14	PMF	TAL CHI
Total/NA	Prep	3541			556949	08/14/20 17:27	ACK	TAL CHI
Total/NA	Analysis	8270D		1	557147	08/17/20 13:20	AJD	TAL CHI
Total/NA	Prep	3050B			556317	08/11/20 17:27	BDE	TAL CHI
Total/NA	Analysis	6010B		1	556556	08/12/20 17:57	EEN	TAL CHI
Total/NA	Prep	3050B			556317	08/11/20 17:27	BDE	TAL CHI
Total/NA	Analysis	6010B		2	556572	08/13/20 00:26	EEN	TAL CHI
Total/NA	Prep	7471B			556281	08/11/20 14:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	556451	08/12/20 09:27	MJG	TAL CHI
Total/NA	Prep	9010C			556872	08/14/20 15:05	MS	TAL CHI
Total/NA	Analysis	9012B		1	557430		MS	TAL CHI
					(Start)	08/17/20 15:19		
					(End)	08/17/20 15:22		

Client Sample ID: 2412V2-12-B01 (5-7.5)

Lab Sample ID: 500-185942-2

Date Collected: 08/04/20 12:05

Matrix: Solid

Date Received: 08/04/20 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			556907	08/14/20 12:25	JLC	TAL CHI
SPLP East	Prep	3010A			557242	08/17/20 17:17	BDE	TAL CHI
SPLP East	Analysis	6010B		1	557308	08/18/20 04:10	JEF	TAL CHI
TCLP	Leach	1311			556919	08/14/20 14:05	JLC	TAL CHI
TCLP	Prep	3010A			557245	08/17/20 17:21	BDE	TAL CHI
TCLP	Analysis	6010B		1	557360	08/18/20 02:04	JEF	TAL CHI

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Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

Client Sample ID: 2412V2-12-B01 (5-7.5)

Lab Sample ID: 500-185942-2

Date Collected: 08/04/20 12:05

Matrix: Solid

Date Received: 08/04/20 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			556919	08/14/20 14:05	JLC	TAL CHI
TCLP	Prep	3010A			557245	08/17/20 17:21	BDE	TAL CHI
TCLP	Analysis	6020A		1	557398	08/18/20 09:49	FXG	TAL CHI
TCLP	Leach	1311			556919	08/14/20 14:05	JLC	TAL CHI
TCLP	Prep	7470A			557385	08/18/20 09:55	MJG	TAL CHI
TCLP	Analysis	7470A		1	557609	08/19/20 09:42	MJG	TAL CHI
Total/NA	Analysis	9045D		1	556437	08/11/20 17:09	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	556605	08/13/20 07:39	LWN	TAL CHI

Client Sample ID: 2412V2-12-B01 (5-7.5)

Lab Sample ID: 500-185942-2

Date Collected: 08/04/20 12:05

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			556455	08/05/20 08:30	PMF	TAL CHI
Total/NA	Analysis	8260B		1	556446	08/12/20 17:39	PMF	TAL CHI
Total/NA	Prep	3541			556949	08/14/20 17:27	ACK	TAL CHI
Total/NA	Analysis	8270D		1	557147	08/17/20 16:31	AJD	TAL CHI
Total/NA	Prep	3050B			556317	08/11/20 17:27	BDE	TAL CHI
Total/NA	Analysis	6010B		1	556556	08/12/20 18:01	EEN	TAL CHI
Total/NA	Prep	3050B			556317	08/11/20 17:27	BDE	TAL CHI
Total/NA	Analysis	6010B		2	556572	08/13/20 00:30	EEN	TAL CHI
Total/NA	Prep	7471B			556281	08/11/20 14:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	556451	08/12/20 09:30	MJG	TAL CHI
Total/NA	Prep	9010C			556872	08/14/20 15:05	MS	TAL CHI
Total/NA	Analysis	9012B		1	557430		MS	TAL CHI
					(Start)	08/17/20 15:22		
					(End)	08/17/20 15:26		

Client Sample ID: 2412V2-12-B02 (0-5)

Lab Sample ID: 500-185942-3

Date Collected: 08/04/20 09:05

Matrix: Solid

Date Received: 08/04/20 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			556919	08/14/20 14:05	JLC	TAL CHI
TCLP	Prep	3010A			557245	08/17/20 17:21	BDE	TAL CHI
TCLP	Analysis	6010B		1	557360	08/18/20 02:17	JEF	TAL CHI
TCLP	Leach	1311			556919	08/14/20 14:05	JLC	TAL CHI
TCLP	Prep	3010A			557245	08/17/20 17:21	BDE	TAL CHI
TCLP	Analysis	6020A		1	557398	08/18/20 09:51	FXG	TAL CHI
TCLP	Leach	1311			556919	08/14/20 14:05	JLC	TAL CHI
TCLP	Prep	7470A			557385	08/18/20 09:55	MJG	TAL CHI
TCLP	Analysis	7470A		1	557609	08/19/20 09:44	MJG	TAL CHI
Total/NA	Analysis	9045D		1	556437	08/11/20 17:12	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	556605	08/13/20 07:39	LWN	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

Client Sample ID: 2412V2-12-B02 (0-5)

Lab Sample ID: 500-185942-3

Date Collected: 08/04/20 09:05

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 86.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			556455	08/05/20 08:30	PMF	TAL CHI
Total/NA	Analysis	8260B		1	556446	08/12/20 18:05	PMF	TAL CHI
Total/NA	Prep	3541			556949	08/14/20 17:27	ACK	TAL CHI
Total/NA	Analysis	8270D		1	557147	08/17/20 15:09	AJD	TAL CHI
Total/NA	Prep	3050B			556317	08/11/20 17:27	BDE	TAL CHI
Total/NA	Analysis	6010B		1	556556	08/12/20 18:05	EEN	TAL CHI
Total/NA	Prep	3050B			556317	08/11/20 17:27	BDE	TAL CHI
Total/NA	Analysis	6010B		2	556572	08/13/20 00:34	EEN	TAL CHI
Total/NA	Prep	7471B			556281	08/11/20 14:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	556451	08/12/20 09:31	MJG	TAL CHI
Total/NA	Prep	9010C			556872	08/14/20 15:05	MS	TAL CHI
Total/NA	Analysis	9012B		1	557430		MS	TAL CHI
					(Start)	08/17/20 15:26		
					(End)	08/17/20 15:30		

Client Sample ID: 2412V2-12-B02 (5-7.5)

Lab Sample ID: 500-185942-4

Date Collected: 08/04/20 09:10

Matrix: Solid

Date Received: 08/04/20 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			556907	08/14/20 12:25	JLC	TAL CHI
SPLP East	Prep	3010A			557242	08/17/20 17:17	BDE	TAL CHI
SPLP East	Analysis	6010B		1	557308	08/18/20 04:26	JEF	TAL CHI
TCLP	Leach	1311			556920	08/14/20 14:05	JLC	TAL CHI
TCLP	Prep	3010A			557245	08/17/20 17:21	BDE	TAL CHI
TCLP	Analysis	6010B		1	557308	08/18/20 02:58	JEF	TAL CHI
TCLP	Leach	1311			556920	08/14/20 14:05	JLC	TAL CHI
TCLP	Prep	3010A			557245	08/17/20 17:21	BDE	TAL CHI
TCLP	Analysis	6010B		1	557361	08/18/20 07:30	JEF	TAL CHI
TCLP	Leach	1311			556920	08/14/20 14:05	JLC	TAL CHI
TCLP	Prep	3010A			557245	08/17/20 17:21	BDE	TAL CHI
TCLP	Analysis	6010B		10	557361	08/18/20 07:34	JEF	TAL CHI
TCLP	Leach	1311			556920	08/14/20 14:05	JLC	TAL CHI
TCLP	Prep	3010A			557245	08/17/20 17:21	BDE	TAL CHI
TCLP	Analysis	6020A		1	557398	08/18/20 10:19	FXG	TAL CHI
TCLP	Leach	1311			556920	08/14/20 14:05	JLC	TAL CHI
TCLP	Prep	7470A			557383	08/18/20 09:55	MJG	TAL CHI
TCLP	Analysis	7470A		1	557609	08/19/20 08:47	MJG	TAL CHI
Total/NA	Analysis	9045D		1	556437	08/11/20 17:14	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	556605	08/13/20 07:39	LWN	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

Client Sample ID: 2412V2-12-B02 (5-7.5)

Lab Sample ID: 500-185942-4

Date Collected: 08/04/20 09:10

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 90.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			556455	08/05/20 08:30	PMF	TAL CHI
Total/NA	Analysis	8260B		1	556446	08/12/20 18:30	PMF	TAL CHI
Total/NA	Prep	3541			556949	08/14/20 17:27	ACK	TAL CHI
Total/NA	Analysis	8270D		1	557147	08/17/20 15:36	AJD	TAL CHI
Total/NA	Prep	3050B			556317	08/11/20 17:27	BDE	TAL CHI
Total/NA	Analysis	6010B		1	556556	08/12/20 18:09	EEN	TAL CHI
Total/NA	Prep	3050B			556317	08/11/20 17:27	BDE	TAL CHI
Total/NA	Analysis	6010B		10	556572	08/13/20 00:38	EEN	TAL CHI
Total/NA	Prep	7471B			556281	08/11/20 14:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	556451	08/12/20 09:33	MJG	TAL CHI
Total/NA	Prep	9010C			556872	08/14/20 15:05	MS	TAL CHI
Total/NA	Analysis	9012B		1	557430	(Start) 08/17/20 15:29 (End) 08/17/20 15:33	MS	TAL CHI

Client Sample ID: 2412V2-12-B03 (0-5)

Lab Sample ID: 500-185942-5

Date Collected: 08/04/20 08:30

Matrix: Solid

Date Received: 08/04/20 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			556907	08/14/20 12:25	JLC	TAL CHI
SPLP East	Prep	3010A			557242	08/17/20 17:17	BDE	TAL CHI
SPLP East	Analysis	6010B		1	557308	08/18/20 04:18	JEF	TAL CHI
TCLP	Leach	1311			556919	08/14/20 14:05	JLC	TAL CHI
TCLP	Prep	3010A			557245	08/17/20 17:21	BDE	TAL CHI
TCLP	Analysis	6010B		1	557360	08/18/20 02:21	JEF	TAL CHI
TCLP	Leach	1311			556919	08/14/20 14:05	JLC	TAL CHI
TCLP	Prep	3010A			557245	08/17/20 17:21	BDE	TAL CHI
TCLP	Analysis	6020A		1	557398	08/18/20 09:53	FXG	TAL CHI
TCLP	Leach	1311			556919	08/14/20 14:05	JLC	TAL CHI
TCLP	Prep	7470A			557385	08/18/20 09:55	MJG	TAL CHI
TCLP	Analysis	7470A		1	557609	08/19/20 09:47	MJG	TAL CHI
Total/NA	Analysis	9045D		1	556437	08/11/20 17:17	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	556605	08/13/20 07:39	LWN	TAL CHI

Client Sample ID: 2412V2-12-B03 (0-5)

Lab Sample ID: 500-185942-5

Date Collected: 08/04/20 08:30

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 96.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			556455	08/05/20 08:30	PMF	TAL CHI
Total/NA	Analysis	8260B		1	556446	08/12/20 19:09	PMF	TAL CHI
Total/NA	Prep	3541			556949	08/14/20 17:27	ACK	TAL CHI
Total/NA	Analysis	8270D		1	557105	08/17/20 14:18	AJD	TAL CHI

Eurofins TestAmerica, Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

Client Sample ID: 2412V2-12-B03 (0-5)

Lab Sample ID: 500-185942-5

Date Collected: 08/04/20 08:30

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 96.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			556317	08/11/20 17:27	BDE	TAL CHI
Total/NA	Analysis	6010B		1	556556	08/12/20 18:13	EEN	TAL CHI
Total/NA	Prep	3050B			556317	08/11/20 17:27	BDE	TAL CHI
Total/NA	Analysis	6010B		10	556572	08/13/20 00:50	EEN	TAL CHI
Total/NA	Prep	7471B			556281	08/11/20 14:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	556451	08/12/20 09:35	MJG	TAL CHI
Total/NA	Prep	9010C			556872	08/14/20 15:05	MS	TAL CHI
Total/NA	Analysis	9012B		1	557430	08/17/20 15:33	MS	TAL CHI
					(Start)	08/17/20 15:33		
					(End)	08/17/20 15:37		

Client Sample ID: 2412V2-12-B03 (0-5) Dup

Lab Sample ID: 500-185942-6

Date Collected: 08/04/20 08:35

Matrix: Solid

Date Received: 08/04/20 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			556907	08/14/20 12:25	JLC	TAL CHI
SPLP East	Prep	3010A			557242	08/17/20 17:17	BDE	TAL CHI
SPLP East	Analysis	6010B		1	557308	08/18/20 04:22	JEF	TAL CHI
TCLP	Leach	1311			556919	08/14/20 14:05	JLC	TAL CHI
TCLP	Prep	3010A			557245	08/17/20 17:21	BDE	TAL CHI
TCLP	Analysis	6010B		1	557360	08/18/20 02:25	JEF	TAL CHI
TCLP	Leach	1311			556919	08/14/20 14:05	JLC	TAL CHI
TCLP	Prep	3010A			557245	08/17/20 17:21	BDE	TAL CHI
TCLP	Analysis	6020A		1	557398	08/18/20 09:55	FXG	TAL CHI
TCLP	Leach	1311			556919	08/14/20 14:05	JLC	TAL CHI
TCLP	Prep	7470A			557385	08/18/20 09:55	MJG	TAL CHI
TCLP	Analysis	7470A		1	557609	08/19/20 09:49	MJG	TAL CHI
Total/NA	Analysis	9045D		1	556437	08/11/20 17:19	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	556605	08/13/20 07:39	LWN	TAL CHI

Client Sample ID: 2412V2-12-B03 (0-5) Dup

Lab Sample ID: 500-185942-6

Date Collected: 08/04/20 08:35

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 96.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			556455	08/05/20 08:30	PMF	TAL CHI
Total/NA	Analysis	8260B		1	556601	08/13/20 11:39	PMF	TAL CHI
Total/NA	Prep	3541			556949	08/14/20 17:27	ACK	TAL CHI
Total/NA	Analysis	8270D		1	557105	08/17/20 16:06	AJD	TAL CHI
Total/NA	Prep	3050B			556317	08/11/20 17:27	BDE	TAL CHI
Total/NA	Analysis	6010B		1	556556	08/12/20 18:25	EEN	TAL CHI
Total/NA	Prep	3050B			556317	08/11/20 17:27	BDE	TAL CHI
Total/NA	Analysis	6010B		10	556572	08/13/20 00:54	EEN	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

Client Sample ID: 2412V2-12-B03 (0-5) Dup

Lab Sample ID: 500-185942-6

Date Collected: 08/04/20 08:35

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 96.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			556281	08/11/20 14:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	556451	08/12/20 09:37	MJG	TAL CHI
Total/NA	Prep	9010C			556872	08/14/20 15:05	MS	TAL CHI
Total/NA	Analysis	9012B		1	557430	08/17/20 15:37	MS	TAL CHI
					(Start)	08/17/20 15:37		
					(End)	08/17/20 15:40		

Client Sample ID: 2412V2-12-B03 (5-7.5)

Lab Sample ID: 500-185942-7

Date Collected: 08/04/20 08:40

Matrix: Solid

Date Received: 08/04/20 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			556907	08/14/20 12:25	JLC	TAL CHI
SPLP East	Prep	3010A			557242	08/17/20 17:17	BDE	TAL CHI
SPLP East	Analysis	6010B		1	557308	08/18/20 04:30	JEF	TAL CHI
TCLP	Leach	1311			556919	08/14/20 14:05	JLC	TAL CHI
TCLP	Prep	3010A			557245	08/17/20 17:21	BDE	TAL CHI
TCLP	Analysis	6010B		1	557360	08/18/20 02:29	JEF	TAL CHI
TCLP	Leach	1311			556919	08/14/20 14:05	JLC	TAL CHI
TCLP	Prep	3010A			557245	08/17/20 17:21	BDE	TAL CHI
TCLP	Analysis	6020A		1	557398	08/18/20 09:57	FXG	TAL CHI
TCLP	Leach	1311			556919	08/14/20 14:05	JLC	TAL CHI
TCLP	Prep	7470A			557385	08/18/20 09:55	MJG	TAL CHI
TCLP	Analysis	7470A		1	557609	08/19/20 09:51	MJG	TAL CHI
Total/NA	Analysis	9045D		1	556437	08/11/20 17:22	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	556605	08/13/20 07:39	LWN	TAL CHI

Client Sample ID: 2412V2-12-B03 (5-7.5)

Lab Sample ID: 500-185942-7

Date Collected: 08/04/20 08:40

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 86.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			556455	08/05/20 08:30	PMF	TAL CHI
Total/NA	Analysis	8260B		1	556446	08/12/20 20:01	PMF	TAL CHI
Total/NA	Prep	3541			556949	08/14/20 17:27	ACK	TAL CHI
Total/NA	Analysis	8270D		1	557147	08/17/20 16:58	AJD	TAL CHI
Total/NA	Prep	3050B			556317	08/11/20 17:27	BDE	TAL CHI
Total/NA	Analysis	6010B		1	556556	08/12/20 18:29	EEN	TAL CHI
Total/NA	Prep	7471B			556281	08/11/20 14:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	556451	08/12/20 09:38	MJG	TAL CHI
Total/NA	Prep	9010C			556872	08/14/20 15:05	MS	TAL CHI
Total/NA	Analysis	9012B		1	557430	08/17/20 15:40	MS	TAL CHI
					(Start)	08/17/20 15:40		
					(End)	08/17/20 15:44		

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

Client Sample ID: 2412V2-12-B04 (0-5)

Lab Sample ID: 500-185942-8

Date Collected: 08/04/20 08:00

Matrix: Solid

Date Received: 08/04/20 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			556919	08/14/20 14:05	JLC	TAL CHI
TCLP	Prep	3010A			557245	08/17/20 17:21	BDE	TAL CHI
TCLP	Analysis	6010B		1	557360	08/18/20 02:33	JEF	TAL CHI
TCLP	Leach	1311			556919	08/14/20 14:05	JLC	TAL CHI
TCLP	Prep	3010A			557245	08/17/20 17:21	BDE	TAL CHI
TCLP	Analysis	6020A		1	557398	08/18/20 09:59	FXG	TAL CHI
TCLP	Leach	1311			556919	08/14/20 14:05	JLC	TAL CHI
TCLP	Prep	7470A			557385	08/18/20 09:55	MJG	TAL CHI
TCLP	Analysis	7470A		1	557609	08/19/20 09:53	MJG	TAL CHI
Total/NA	Analysis	9045D		1	556437	08/11/20 17:24	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	556605	08/13/20 07:39	LWN	TAL CHI

Client Sample ID: 2412V2-12-B04 (0-5)

Lab Sample ID: 500-185942-8

Date Collected: 08/04/20 08:00

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 83.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			556455	08/05/20 08:30	PMF	TAL CHI
Total/NA	Analysis	8260B		1	556446	08/12/20 20:26	PMF	TAL CHI
Total/NA	Prep	3541			556949	08/14/20 17:27	ACK	TAL CHI
Total/NA	Analysis	8270D		1	557147	08/17/20 16:04	AJD	TAL CHI
Total/NA	Prep	3050B			556317	08/11/20 17:27	BDE	TAL CHI
Total/NA	Analysis	6010B		1	556556	08/12/20 18:33	EEEN	TAL CHI
Total/NA	Prep	7471B			556281	08/11/20 14:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	556451	08/12/20 09:44	MJG	TAL CHI
Total/NA	Prep	9010C			556872	08/14/20 15:05	MS	TAL CHI
Total/NA	Analysis	9012B		1	557430		MS	TAL CHI
					(Start)	08/17/20 15:44		
					(End)	08/17/20 15:48		

Client Sample ID: 2412V2-12-B04 (5-7.5)

Lab Sample ID: 500-185942-9

Date Collected: 08/04/20 08:05

Matrix: Solid

Date Received: 08/04/20 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			556907	08/14/20 12:25	JLC	TAL CHI
SPLP East	Prep	3010A			557242	08/17/20 17:17	BDE	TAL CHI
SPLP East	Analysis	6010B		1	557308	08/18/20 04:50	JEF	TAL CHI
TCLP	Leach	1311			556920	08/14/20 14:05	JLC	TAL CHI
TCLP	Prep	3010A			557245	08/17/20 17:21	BDE	TAL CHI
TCLP	Analysis	6010B		1	557308	08/18/20 03:02	JEF	TAL CHI
TCLP	Leach	1311			556920	08/14/20 14:05	JLC	TAL CHI
TCLP	Prep	3010A			557245	08/17/20 17:21	BDE	TAL CHI
TCLP	Analysis	6010B		1	557361	08/18/20 07:38	JEF	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

Client Sample ID: 2412V2-12-B04 (5-7.5)

Lab Sample ID: 500-185942-9

Date Collected: 08/04/20 08:05

Matrix: Solid

Date Received: 08/04/20 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			556920	08/14/20 14:05	JLC	TAL CHI
TCLP	Prep	3010A			557245	08/17/20 17:21	BDE	TAL CHI
TCLP	Analysis	6010B		10	557361	08/18/20 07:43	JEF	TAL CHI
TCLP	Leach	1311			556920	08/14/20 14:05	JLC	TAL CHI
TCLP	Prep	3010A			557245	08/17/20 17:21	BDE	TAL CHI
TCLP	Analysis	6020A		1	557398	08/18/20 10:21	FXG	TAL CHI
TCLP	Leach	1311			556920	08/14/20 14:05	JLC	TAL CHI
TCLP	Prep	7470A			557383	08/18/20 09:55	MJG	TAL CHI
TCLP	Analysis	7470A		1	557609	08/19/20 08:49	MJG	TAL CHI
Total/NA	Analysis	9045D		1	556437	08/11/20 17:27	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	556605	08/13/20 07:39	LWN	TAL CHI

Client Sample ID: 2412V2-12-B04 (5-7.5)

Lab Sample ID: 500-185942-9

Date Collected: 08/04/20 08:05

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			556455	08/05/20 08:30	PMF	TAL CHI
Total/NA	Analysis	8260B		1	556446	08/12/20 20:52	PMF	TAL CHI
Total/NA	Prep	3541			556949	08/14/20 17:27	ACK	TAL CHI
Total/NA	Analysis	8270D		1	557147	08/17/20 13:47	AJD	TAL CHI
Total/NA	Prep	3050B			556317	08/11/20 17:27	BDE	TAL CHI
Total/NA	Analysis	6010B		1	556556	08/12/20 18:37	EEN	TAL CHI
Total/NA	Prep	3050B			556317	08/11/20 17:27	BDE	TAL CHI
Total/NA	Analysis	6010B		10	556572	08/13/20 00:58	EEN	TAL CHI
Total/NA	Prep	7471B			556281	08/11/20 14:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	556451	08/12/20 09:45	MJG	TAL CHI
Total/NA	Prep	9010C			556872	08/14/20 15:05	MS	TAL CHI
Total/NA	Analysis	9012B		1	557430		MS	TAL CHI
					(Start)	08/17/20 15:48		
					(End)	08/17/20 15:51		

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185942-1

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-21

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TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 6
Phone: 708.534.5200 Fax: 708.53



500-185942 COC

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 #: 500-185942

Chain of Custody Number: _____

Page 1 of 1

Temperature °C of Cooler: 5.8, 4.3, 5.9, 4.4

Client		Client Project #		Preservative		Parameter		Matrix		Matrix		Matrix		Matrix		Matrix		Matrix		Preservative Key	
<u>Terracon</u>		<u>1120204P</u>																		1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		Date		Time		# of Containers		Matrix		Matrix		Matrix		Matrix		Matrix		Comments	
<u>1120204P</u>																					
Project Location/State		Lab Project #		Date		Time		# of Containers		Matrix		Matrix		Matrix		Matrix		Matrix		Comments	
<u>Hampshire, IL</u>																					
Sampler		Lab PM		Date		Time		# of Containers		Matrix		Matrix		Matrix		Matrix		Matrix		Comments	
<u>D.G. FT</u>																					
<u>1</u>		<u>241202-12-B01 (0-5)</u>		<u>8/4/20</u>	<u>1200</u>	<u>6</u>	<u>SO</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>2</u>		<u>241202-12-B01 (5-7.5)</u>		<u>8/4/20</u>	<u>1205</u>	<u>6</u>	<u>SO</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>3</u>		<u>241202-12-B02 (0-5)</u>		<u>8/4/20</u>	<u>0905</u>	<u>6</u>	<u>SO</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>4</u>		<u>241202-12-B02 (5-7.5)</u>		<u>8/4/20</u>	<u>0910</u>	<u>6</u>	<u>SO</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>5</u>		<u>241202-12-B03 (0-5)</u>		<u>8/4/20</u>	<u>0830</u>	<u>6</u>	<u>SO</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>6</u>		<u>241202-12-B03 (0-5) Dup</u>		<u>8/4/20</u>	<u>0835</u>	<u>6</u>	<u>SO</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>7</u>		<u>241202-12-B03 (5-7.5)</u>		<u>8/4/20</u>	<u>0840</u>	<u>6</u>	<u>SO</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>8</u>		<u>241202-12-B04 (0-5)</u>		<u>8/4/20</u>	<u>0800</u>	<u>6</u>	<u>SO</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>9</u>		<u>241202-12-B04 (5-7.5)</u>		<u>8/4/20</u>	<u>0805</u>	<u>6</u>	<u>SO</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	

Turnaround Time Required (Business Days)

1 Day 2 Days 5 Days 7 Days 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>V. Neel</u> Company <u>Terracon</u> Date <u>8/4/2020</u> Time <u>1600</u>	Received By <u>V. Neel</u> Company <u>TA</u> Date <u>8/4/20</u> Time <u>1600</u>	Lab Courier <u>TA</u>
Relinquished By <u>V. Neel</u> Company <u>TA</u> Date <u>8/4/20</u> Time <u>1740</u>	Received By <u>Shirley</u> Company <u>TA-CHT</u> Date <u>8/5/20</u> Time <u>0730</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
* STANDARD TURN
* NO Aluminum
* Hold SPLP 23 Inorganics Ref Terracon Instruction

Lab Comments:

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-185942-1

Login Number: 185942

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.8,4.3,5.9,4.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 557-IL Route 72 at State Street/Getzelman Rd Office Phone Number, if available: _____

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

S State St (Northbound) IDOT STA 200+70 to 201+90; IL Route 72 (Westbound) STA 501+10 to 502+40 (ISGS Site 2412V2-13)

City: Hampshire State: IL Zip Code: 60140

County: Kane Township: Hampshire

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

Latitude: 42.08832 Longitude: - 88.53013

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

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

Estimated Volume of debris (cu. Yd.): 376

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

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

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

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

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

Soil from borings B01 and B03 were sampled adjacent to ISGS Site No 2412V2-13.
See Exhibit 2 and Table 17 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 J185943-1.

Also see Preliminary Site Investigation Report prepared by Terracon. CCDD/USFO facility in MSA County.

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

I, Matt Weiss (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51 a] 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

Printed Name: _____

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Date:

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

Comparison of Detected Constituents to MACs-PTB 174-009;Work Order:074A
Preliminary Site Investigation
FAP 557-IL Route 72 at State St./Getzelman Road (PESA #2412V2-13)
Hampshire, Kane Co, IL
Terracon Project No. 11207011P
Page 1 of 4

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2412V2-13-B01 (0-5)	2412V2-13-B01 (5-7.5)
				CCDD	Sample Depth (feet)	(0-5)	(5-7.5)
		mg/kg	Date Collected	8/4/2020	8/4/2020		
		pH 6.25-9.0					
Semivolatile Organic Analytical Parameters							
Acenaphthene	mg/kg	0.09	0.13	570		<0.0069	<0.0065
Acenaphthylene	mg/kg	0.03	0.07	85		<0.0050	<0.0048
Anthracene	mg/kg	0.25	0.4	12000		0.014	<0.0060
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.084	0.0074
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.09	0.01
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.14	0.011
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.044	<0.012
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.043	<0.011
Chrysene	mg/kg	1.2	2.7	88		0.093	<0.0099
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		<0.0074	<0.0070
Fluoranthene	mg/kg	2.7	4.1	3100		0.2	0.014
Fluorene	mg/kg	0.1	0.18	560		<0.0054	<0.0051
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.038	<0.0094
Naphthalene	mg/kg	0.04	0.2	1.8		<0.0059	<0.0056
Phenanthrene	mg/kg	1.3	2.5	210		0.087	0.0059
Pyrene	mg/kg	1.9	3.0	2300		0.15	0.013
2-Methylnaphthalene	mg/kg	---	0.14	---		0.0099	<0.0067
Inorganic Analytical Parameters							
Arsenic	mg/kg	---	13	11.3		5	6.7
Barium	mg/kg	---	110	1500		86	42
Cadmium	mg/kg	---	0.6	5.2		0.27	0.15
Chromium, total	mg/kg	---	16.2	21		15	9.7
Lead	mg/kg	---	36	107		54	11
Mercury	mg/kg	---	0.06	0.89		0.046	0.025
Selenium	mg/kg	---	0.48	1.3		0.34	<0.32
Silver	mg/kg	---	0.55	4.4		<0.071	<0.070
Antimony	mg/kg	---	4.0	5		0.25	0.48
Beryllium	mg/kg	---	0.59	22		0.68	0.4
Calcium	mg/kg	---	9,300	---		8000	53000
Cobalt	mg/kg	---	8.9	20		8.1	6.7
Copper	mg/kg	---	19.6	2900		13	14
Cyanide	mg/kg	---	0.51	---		<0.15	<0.16
Iron	mg/kg	---	15,900	15000		14000	14000
Magnesium	mg/kg	---	4,820	325000		5800	30000
Manganese	mg/kg	---	636	630		500	630
Nickel	mg/kg	---	18	100		18	18
Potassium	mg/kg	---	1,268	---		1600	1300
Sodium	mg/kg	---	130	---		840	350
Thallium	mg/kg	---	0.32	2.6		0.42	0.39
Vanadium	mg/kg	---	25.2	550		24	18
Zinc	mg/kg	---	95	5100		81	40
pH			6.25	9		8.4	8.1

Preliminary Site Investigation

FAP 557-IL Route 72 at State St./Getzelman Road (PESA #2412V2-13)

Hampshire, Kane Co, IL

Terracon Project No. 11207011P

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2412V2-13-B01 (0-5)	2412V2-13-B01 (5-7.5)
				CCDD	Sample Depth (feet)	(0-5)	(5-7.5)
		mg/kg	Date Collected	8/4/2020	8/4/2020		
		pH 6.25-9.0					
Inorganic Analytical Parameters (SPLP)							
Antimony,SPLP	mg/L	---	---	---		--	--
Arsenic,SPLP	mg/L	---	---	---		--	--
Barium,SPLP	mg/L	---	---	---		--	--
Beryllium,SPLP	mg/L	---	---	---		--	--
Cadmium,SPLP	mg/L	---	---	---		--	--
Calcium,SPLP	mg/L	---	---	---		--	--
Chromium,SPLP	mg/L	---	---	---		--	--
Cobalt,SPLP	mg/L	---	---	---		--	--
Copper,SPLP	mg/L	---	---	---		--	--
Iron,SPLP	mg/L	---	---	---		--	--
Lead,SPLP	mg/L	---	---	---		--	--
Magnesium,SPLP	mg/L	---	---	---		--	--
Manganese,SPLP	mg/L	---	---	---		2	0.15
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	---	---	---		0.57	0.28
Cadmium,TCLP	mg/L	---	---	---		<0.0020	<0.0020
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	---	---	---		230	460
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	---	---	---		110	170
Manganese,TCLP	mg/L	---	---	---		0.27	0.35
Nickel,TCLP	mg/L	---	---	---		<0.010	<0.010
Potassium,TCLP	mg/L	---	---	---		2.9	2.7
Sodium,TCLP	mg/L	---	---	---		--	--
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.010	<0.010
Zinc,TCLP	mg/L	---	---	---		0.089	<0.020

Comparison of Detected Constituents to MACs-PTB 174-009;Work Order:074A

Preliminary Site Investigation

FAP 557-IL Route 72 at State St./Getzelman Road (PESA #2412V2-13)

Hampshire, Kane Co, IL

Terracon Project No. 11207011P

Page 3 of 4

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2412V2-13-B03 (0-5)	2412V2-13-B03 (5-7.5)
				CCDD	Sample Depth (feet)	(0-5)	(5-7.5)
		mg/kg	Date Collected	8/4/2020	8/4/2020		
		pH 6.25-9.0					
Semivolatile Organic Analytical Parameters							
Acenaphthene	mg/kg	0.09	0.13	570		0.0078	<0.0065
Acenaphthylene	mg/kg	0.03	0.07	85		0.0079	<0.0048
Anthracene	mg/kg	0.25	0.4	12000		0.027	0.0081
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.2	0.059
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.24	0.072
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.4	0.098
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.11	0.036
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.14	0.028
Chrysene	mg/kg	1.2	2.7	88		0.23	0.066
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		0.03	0.0091
Fluoranthene	mg/kg	2.7	4.1	3100		0.46	0.13
Fluorene	mg/kg	0.1	0.18	560		0.0078	<0.0051
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.077	0.033
Naphthalene	mg/kg	0.04	0.2	1.8		0.012	<0.0056
Phenanthrene	mg/kg	1.3	2.5	210		0.18	0.051
Pyrene	mg/kg	1.9	3.0	2300		0.41	0.096
2-Methylnaphthalene	mg/kg	---	0.14	---		0.025	0.011
Inorganic Analytical Parameters							
Arsenic	mg/kg	---	13	11.3		4.8	5.3
Barium	mg/kg	---	110	1500		86	47
Cadmium	mg/kg	---	0.6	5.2		0.33	0.22
Chromium, total	mg/kg	---	16.2	21		13	12
Lead	mg/kg	---	36	107		100	15
Mercury	mg/kg	---	0.06	0.89		0.057	0.024
Selenium	mg/kg	---	0.48	1.3		0.43	<0.32
Silver	mg/kg	---	0.55	4.4		<0.074	<0.071
Antimony	mg/kg	---	4.0	5		0.29	0.45
Beryllium	mg/kg	---	0.59	22		0.69	0.56
Calcium	mg/kg	---	9,300	---		17000	46000
Cobalt	mg/kg	---	8.9	20		7.5	6.7
Copper	mg/kg	---	19.6	2900		14	12
Cyanide	mg/kg	---	0.51	---		<0.13	<0.13
Iron	mg/kg	---	15,900	15000		14000	13000
Magnesium	mg/kg	---	4,820	325000		9300	24000
Manganese	mg/kg	---	636	630		540	360
Nickel	mg/kg	---	18	100		17	17
Potassium	mg/kg	---	1,268	---		1400	1700
Sodium	mg/kg	---	130	---		1000	600
Thallium	mg/kg	---	0.32	2.6		0.37	<0.28
Vanadium	mg/kg	---	25.2	550		22	18
Zinc	mg/kg	---	95	5100		81	130
pH			6.25	9		8.4	8.6

Preliminary Site Investigation

FAP 557-IL Route 72 at State St./Getzelman Road (PESA #2412V2-13)

Hampshire, Kane Co, IL

Terracon Project No. 11207011P

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2412V2-13-B03 (0-5)	2412V2-13-B03 (5-7.5)
				CCDD	Sample Depth (feet)	(0-5)	(5-7.5)
		mg/kg	Date Collected	8/4/2020	8/4/2020		
		pH 6.25-9.0					
Inorganic Analytical Parameters (SPLP)							
Antimony,SPLP	mg/L	---	---	---		--	--
Arsenic,SPLP	mg/L	---	---	---		--	--
Barium,SPLP	mg/L	---	---	---		--	--
Beryllium,SPLP	mg/L	---	---	---		--	--
Cadmium,SPLP	mg/L	---	---	---		--	--
Calcium,SPLP	mg/L	---	---	---		--	--
Chromium,SPLP	mg/L	---	---	---		--	--
Cobalt,SPLP	mg/L	---	---	---		--	--
Copper,SPLP	mg/L	---	---	---		--	--
Iron,SPLP	mg/L	---	---	---		--	--
Lead,SPLP	mg/L	---	---	---		--	--
Magnesium,SPLP	mg/L	---	---	---		--	--
Manganese,SPLP	mg/L	---	---	---		0.93	1.5
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	---	---	---		0.5	0.33
Cadmium,TCLP	mg/L	---	---	---		<0.0020	<0.0020
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	---	---	---		280	340
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	---	---	---		110	170
Manganese,TCLP	mg/L	---	---	---		0.55	0.46
Nickel,TCLP	mg/L	---	---	---		<0.010	<0.010
Potassium,TCLP	mg/L	---	---	---		3.1	2.7
Sodium,TCLP	mg/L	---	---	---		--	--
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.010	<0.010
Zinc,TCLP	mg/L	---	---	---		0.098	0.057

ANALYTICAL REPORT

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

Laboratory Job ID: 500-185943-1
Client Project/Site: IDOT - Hampshire - WO 074

For:

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

Attn: Mr. Matthew Weiss



Authorized for release by:
8/19/2020 4:17:55 PM

Richard Wright, Senior Project Manager
(708)746-0045
Richard.Wright@Eurofinset.com

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 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 - Hampshire - WO 074

Job ID: 500-185943-1

Job ID: 500-185943-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-185943-1

Receipt

The samples were received on 8/4/2020 5:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 4.3° C, 4.4° C, 5.8° C and 5.9° C.

GC/MS VOA

Method 8260B: The laboratory control sample (LCS) for 556601 recovered outside control limits for Chloroethane. This poor purging analyte was biased low in the LCS and was not detected in the associated samples; therefore, the data have been reported. 2412V2-13-B01 (0-5) (500-185943-1), 2412V2-13-B01 (5-7.5) (500-185943-2), 2412V2-13-B02 (0-5) (500-185943-3), 2412V2-13-B02 (0-5) Dup (500-185943-4), 2412V2-13-B02 (5-7.5) (500-185943-5), 2412V2-13-B03 (0-5) (500-185943-6) and 2412V2-13-B03 (5-7.5) (500-185943-7)

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 6010B: The following samples were diluted due to the abundance of non-target analytes: 2412V2-13-B01 (0-5) (500-185943-1), 2412V2-13-B01 (5-7.5) (500-185943-2), 2412V2-13-B02 (0-5) (500-185943-3), 2412V2-13-B03 (0-5) (500-185943-6) and 2412V2-13-B03 (5-7.5) (500-185943-7). Elevated reporting limits (RLs) are provided.

Method 6010B: The laboratory control sample (LCS) for preparation batch 500-556917 and 500-557243 and analytical batch 500-557361 recovered outside control limits for the following analytes: zinc. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 6020A: The laboratory control sample (LCS) associated with batch 500-557398 recovered above the upper control limit for Thallium. The samples associated with this LCS were non-detects for the affected analyte; 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.

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 - Hampshire - WO 074

Job ID: 500-185943-1

Client Sample ID: 2412V2-13-B01 (0-5)

Lab Sample ID: 500-185943-1

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	0.084		0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.090		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	0.044		0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.043		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.093		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.20		0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.038		0.038	0.0099	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.0099	J	0.077	0.0070	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.087		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.15		0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.25	J B	1.1	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.0		0.55	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	86		0.55	0.063	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.68		0.22	0.052	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.27	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	15	B	0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.1		0.55	0.14	mg/Kg	2	☼	6010B	Total/NA
Copper	13		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	14000		11	5.7	mg/Kg	1	☼	6010B	Total/NA
Lead	54		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	5800		5.5	2.7	mg/Kg	1	☼	6010B	Total/NA
Calcium	8000	B	11	1.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	500		0.55	0.080	mg/Kg	1	☼	6010B	Total/NA
Nickel	18		0.55	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.34	J	0.55	0.32	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.42	J	0.55	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	24		0.28	0.065	mg/Kg	1	☼	6010B	Total/NA
Zinc	81		1.1	0.49	mg/Kg	1	☼	6010B	Total/NA
Potassium	1600		28	9.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	840		55	8.2	mg/Kg	1	☼	6010B	Total/NA
Barium	0.57		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	230		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	110		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.27		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.9		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.089	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	0.046		0.018	0.0061	mg/Kg	1	☼	7471B	Total/NA
pH	8.4		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2412V2-13-B01 (5-7.5)

Lab Sample ID: 500-185943-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0074	J	0.036	0.0049	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.010	J	0.036	0.0070	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.011	J	0.036	0.0078	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.014	J	0.036	0.0067	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0059	J	0.036	0.0050	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.013	J	0.036	0.0072	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185943-1

Client Sample ID: 2412V2-13-B01 (5-7.5) (Continued)

Lab Sample ID: 500-185943-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.48	J B	1.1	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.7		0.54	0.18	mg/Kg	1	☼	6010B	Total/NA
Barium	42		0.54	0.061	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.40		0.22	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.15	B	0.11	0.019	mg/Kg	1	☼	6010B	Total/NA
Chromium	9.7	B	0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.7		0.54	0.14	mg/Kg	2	☼	6010B	Total/NA
Copper	14		0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	14000		11	5.6	mg/Kg	1	☼	6010B	Total/NA
Lead	11		0.27	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	30000		5.4	2.7	mg/Kg	1	☼	6010B	Total/NA
Calcium	53000	B	22	3.7	mg/Kg	2	☼	6010B	Total/NA
Manganese	630		0.54	0.078	mg/Kg	1	☼	6010B	Total/NA
Nickel	18		0.54	0.16	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.39	J	0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.27	0.064	mg/Kg	1	☼	6010B	Total/NA
Zinc	40		1.1	0.47	mg/Kg	1	☼	6010B	Total/NA
Potassium	1300		27	9.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	350		54	8.0	mg/Kg	1	☼	6010B	Total/NA
Barium	0.28	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	460		5.0	0.50	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	2.7		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.15		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.025		0.019	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	8.1		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2412V2-13-B02 (0-5)

Lab Sample ID: 500-185943-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.0087	J	0.039	0.0066	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.051		0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.057		0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.098		0.039	0.0085	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	0.018	J	0.039	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.061		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.11		0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.014	J	0.080	0.0073	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.0082	J	0.039	0.0061	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.051		0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.084		0.039	0.0079	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.49	J B	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.2		0.57	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	110		0.57	0.065	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.78		0.23	0.053	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.38	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	13	B	0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.4		0.57	0.15	mg/Kg	2	☼	6010B	Total/NA
Copper	12		0.57	0.16	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185943-1

Client Sample ID: 2412V2-13-B02 (0-5) (Continued)

Lab Sample ID: 500-185943-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	17000		11	5.9	mg/Kg	1	☼	6010B	Total/NA
Lead	72		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	9100		5.7	2.8	mg/Kg	1	☼	6010B	Total/NA
Calcium	16000	B	11	1.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	740		0.57	0.082	mg/Kg	1	☼	6010B	Total/NA
Nickel	17		0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.36	J	0.57	0.33	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.47	J	0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	25		0.28	0.067	mg/Kg	1	☼	6010B	Total/NA
Zinc	75		1.1	0.50	mg/Kg	1	☼	6010B	Total/NA
Potassium	1200		28	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	98		57	8.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.43	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	270		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	110		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.51		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.6	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.051	J B *	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.16		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.037		0.019	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	7.9		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2412V2-13-B02 (0-5) Dup

Lab Sample ID: 500-185943-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.011	J	0.040	0.0067	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.056		0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.068		0.040	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.10		0.040	0.0086	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.032	J	0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.034	J	0.040	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.066		0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.12		0.040	0.0074	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.029	J	0.040	0.010	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.012	J	0.080	0.0073	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.0092	J	0.040	0.0061	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.054		0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.090		0.040	0.0079	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.49	J B	1.2	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	3.6		0.59	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	72		0.59	0.067	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.55		0.24	0.055	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.18	B	0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Chromium	13	B	0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	4.9		0.29	0.077	mg/Kg	1	☼	6010B	Total/NA
Copper	9.5		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	13000		12	6.1	mg/Kg	1	☼	6010B	Total/NA
Lead	18		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	3300		5.9	2.9	mg/Kg	1	☼	6010B	Total/NA
Calcium	5400	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	320		0.59	0.085	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185943-1

Client Sample ID: 2412V2-13-B02 (0-5) Dup (Continued)

Lab Sample ID: 500-185943-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	13		0.59	0.17	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.34	J	0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.29	0.069	mg/Kg	1	☼	6010B	Total/NA
Zinc	52		1.2	0.52	mg/Kg	1	☼	6010B	Total/NA
Potassium	1200		29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	60		59	8.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.30	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	150		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	55		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.14		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.6	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.026	J B *	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.030		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: 2412V2-13-B02 (5-7.5)

Lab Sample ID: 500-185943-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0072	J	0.035	0.0047	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.012	J	0.035	0.0068	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.012	J	0.035	0.0076	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.010	J	0.035	0.0096	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.013	J	0.035	0.0065	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.013	J	0.035	0.0070	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.58	J B	1.0	0.20	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.4		0.52	0.18	mg/Kg	1	☼	6010B	Total/NA
Barium	31		0.52	0.059	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.32		0.21	0.048	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.15	B	0.10	0.019	mg/Kg	1	☼	6010B	Total/NA
Chromium	8.1	B	0.52	0.26	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.1		0.26	0.068	mg/Kg	1	☼	6010B	Total/NA
Copper	11		0.52	0.14	mg/Kg	1	☼	6010B	Total/NA
Iron	16000	B	100	54	mg/Kg	10	☼	6010B	Total/NA
Lead	8.6		0.26	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	42000	B	52	26	mg/Kg	10	☼	6010B	Total/NA
Calcium	72000	B	100	17	mg/Kg	10	☼	6010B	Total/NA
Manganese	420		0.52	0.075	mg/Kg	1	☼	6010B	Total/NA
Nickel	14		0.52	0.15	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.26	0.061	mg/Kg	1	☼	6010B	Total/NA
Zinc	32		1.0	0.45	mg/Kg	1	☼	6010B	Total/NA
Potassium	820		26	9.1	mg/Kg	1	☼	6010B	Total/NA
Sodium	110		52	7.6	mg/Kg	1	☼	6010B	Total/NA
Barium	0.29	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	540		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	80		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.63		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.7	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.022	J	0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.014	J	0.018	0.0059	mg/Kg	1	☼	7471B	Total/NA
pH	8.6		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185943-1

Client Sample ID: 2412V2-13-B03 (0-5)

Lab Sample ID: 500-185943-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.0078	J	0.039	0.0070	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.0079	J	0.039	0.0051	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.027	J	0.039	0.0065	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.20		0.039	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.24		0.039	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.40		0.039	0.0084	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.11	F1	0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.14		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.23		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.030	J F1	0.039	0.0075	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.46	F1	0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0078	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.077	F1	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	0.012	J	0.039	0.0060	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.18		0.039	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.41		0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.29	J B	1.2	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.8		0.58	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	86		0.58	0.066	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.69		0.23	0.054	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.33	B	0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Chromium	13	B	0.58	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.5		0.58	0.15	mg/Kg	2	☼	6010B	Total/NA
Copper	14		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	14000		12	6.0	mg/Kg	1	☼	6010B	Total/NA
Lead	100		0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	9300		5.8	2.9	mg/Kg	1	☼	6010B	Total/NA
Calcium	17000	B	12	1.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	540		0.58	0.083	mg/Kg	1	☼	6010B	Total/NA
Nickel	17		0.58	0.17	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.43	J	0.58	0.34	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.37	J	0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.29	0.068	mg/Kg	1	☼	6010B	Total/NA
Zinc	81		1.2	0.50	mg/Kg	1	☼	6010B	Total/NA
Potassium	1400		29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	1000		58	8.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.50		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	280		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	110		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.55		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.1		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.098	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	0.057		0.020	0.0067	mg/Kg	1	☼	7471B	Total/NA
pH	8.4		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2412V2-13-B03 (5-7.5)

Lab Sample ID: 500-185943-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.0081	J	0.036	0.0061	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185943-1

Client Sample ID: 2412V2-13-B03 (5-7.5) (Continued)

Lab Sample ID: 500-185943-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.059		0.036	0.0049	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.072		0.036	0.0070	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.098		0.036	0.0079	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.036		0.036	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.028	J	0.036	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.066		0.036	0.0099	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.0091	J	0.036	0.0070	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.13		0.036	0.0067	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.033	J	0.036	0.0094	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.011	J	0.073	0.0067	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.051		0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.096		0.036	0.0072	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.45	J B	1.1	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.3		0.55	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	47		0.55	0.063	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.56		0.22	0.052	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.22	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	12	B	0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.7		0.55	0.14	mg/Kg	2	☼	6010B	Total/NA
Copper	12		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	13000		11	5.7	mg/Kg	1	☼	6010B	Total/NA
Lead	15		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	24000		5.5	2.7	mg/Kg	1	☼	6010B	Total/NA
Calcium	46000	B	22	3.7	mg/Kg	2	☼	6010B	Total/NA
Manganese	360		0.55	0.080	mg/Kg	1	☼	6010B	Total/NA
Nickel	17		0.55	0.16	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.28	0.065	mg/Kg	1	☼	6010B	Total/NA
Zinc	130		1.1	0.48	mg/Kg	1	☼	6010B	Total/NA
Potassium	1700		28	9.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	600		55	8.2	mg/Kg	1	☼	6010B	Total/NA
Barium	0.33	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	340		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	170		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.46		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.7		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.057	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	0.024		0.017	0.0058	mg/Kg	1	☼	7471B	Total/NA
pH	8.6		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185943-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-185943-1	2412V2-13-B01 (0-5)	Solid	08/04/20 10:20	08/04/20 17:40	
500-185943-2	2412V2-13-B01 (5-7.5)	Solid	08/04/20 10:25	08/04/20 17:40	
500-185943-3	2412V2-13-B02 (0-5)	Solid	08/04/20 09:35	08/04/20 17:40	
500-185943-4	2412V2-13-B02 (0-5) Dup	Solid	08/04/20 09:40	08/04/20 17:40	
500-185943-5	2412V2-13-B02 (5-7.5)	Solid	08/04/20 09:45	08/04/20 17:40	
500-185943-6	2412V2-13-B03 (0-5)	Solid	08/04/20 10:45	08/04/20 17:40	
500-185943-7	2412V2-13-B03 (5-7.5)	Solid	08/04/20 10:50	08/04/20 17:40	

- 1
- 2
- 3
- 4
- 5
- 6
- 7
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- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185943-1

Client Sample ID: 2412V2-13-B01 (0-5)

Lab Sample ID: 500-185943-1

Date Collected: 08/04/20 10:20

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 82.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0077		0.018	0.0077	mg/Kg	☼	08/05/20 08:30	08/13/20 12:04	1
Benzene	<0.00045		0.0018	0.00045	mg/Kg	☼	08/05/20 08:30	08/13/20 12:04	1
Bromodichloromethane	<0.00036		0.0018	0.00036	mg/Kg	☼	08/05/20 08:30	08/13/20 12:04	1
Bromoform	<0.00052		0.0018	0.00052	mg/Kg	☼	08/05/20 08:30	08/13/20 12:04	1
Bromomethane	<0.0017		0.0044	0.0017	mg/Kg	☼	08/05/20 08:30	08/13/20 12:04	1
2-Butanone (MEK)	<0.0020		0.0044	0.0020	mg/Kg	☼	08/05/20 08:30	08/13/20 12:04	1
Carbon disulfide	<0.00092		0.0044	0.00092	mg/Kg	☼	08/05/20 08:30	08/13/20 12:04	1
Carbon tetrachloride	<0.00052		0.0018	0.00052	mg/Kg	☼	08/05/20 08:30	08/13/20 12:04	1
Chlorobenzene	<0.00066		0.0018	0.00066	mg/Kg	☼	08/05/20 08:30	08/13/20 12:04	1
Chloroethane	<0.0013	*	0.0044	0.0013	mg/Kg	☼	08/05/20 08:30	08/13/20 12:04	1
Chloroform	<0.00062		0.0018	0.00062	mg/Kg	☼	08/05/20 08:30	08/13/20 12:04	1
Chloromethane	<0.0018		0.0044	0.0018	mg/Kg	☼	08/05/20 08:30	08/13/20 12:04	1
cis-1,2-Dichloroethene	<0.00050		0.0018	0.00050	mg/Kg	☼	08/05/20 08:30	08/13/20 12:04	1
cis-1,3-Dichloropropene	<0.00054		0.0018	0.00054	mg/Kg	☼	08/05/20 08:30	08/13/20 12:04	1
Dibromochloromethane	<0.00058		0.0018	0.00058	mg/Kg	☼	08/05/20 08:30	08/13/20 12:04	1
1,1-Dichloroethane	<0.00061		0.0018	0.00061	mg/Kg	☼	08/05/20 08:30	08/13/20 12:04	1
1,2-Dichloroethane	<0.0014		0.0044	0.0014	mg/Kg	☼	08/05/20 08:30	08/13/20 12:04	1
1,1-Dichloroethene	<0.00061		0.0018	0.00061	mg/Kg	☼	08/05/20 08:30	08/13/20 12:04	1
1,2-Dichloropropane	<0.00046		0.0018	0.00046	mg/Kg	☼	08/05/20 08:30	08/13/20 12:04	1
1,3-Dichloropropane, Total	<0.00062		0.0018	0.00062	mg/Kg	☼	08/05/20 08:30	08/13/20 12:04	1
Ethylbenzene	<0.00085		0.0018	0.00085	mg/Kg	☼	08/05/20 08:30	08/13/20 12:04	1
2-Hexanone	<0.0014		0.0044	0.0014	mg/Kg	☼	08/05/20 08:30	08/13/20 12:04	1
Methylene Chloride	<0.0018		0.0044	0.0018	mg/Kg	☼	08/05/20 08:30	08/13/20 12:04	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0044	0.0013	mg/Kg	☼	08/05/20 08:30	08/13/20 12:04	1
Methyl tert-butyl ether	<0.00052		0.0018	0.00052	mg/Kg	☼	08/05/20 08:30	08/13/20 12:04	1
Styrene	<0.00054		0.0018	0.00054	mg/Kg	☼	08/05/20 08:30	08/13/20 12:04	1
1,1,2,2-Tetrachloroethane	<0.00057		0.0018	0.00057	mg/Kg	☼	08/05/20 08:30	08/13/20 12:04	1
Tetrachloroethene	<0.00061		0.0018	0.00061	mg/Kg	☼	08/05/20 08:30	08/13/20 12:04	1
Toluene	<0.00045		0.0018	0.00045	mg/Kg	☼	08/05/20 08:30	08/13/20 12:04	1
trans-1,2-Dichloroethene	<0.00079		0.0018	0.00079	mg/Kg	☼	08/05/20 08:30	08/13/20 12:04	1
trans-1,3-Dichloropropene	<0.00062		0.0018	0.00062	mg/Kg	☼	08/05/20 08:30	08/13/20 12:04	1
1,1,1-Trichloroethane	<0.00060		0.0018	0.00060	mg/Kg	☼	08/05/20 08:30	08/13/20 12:04	1
1,1,2-Trichloroethane	<0.00076		0.0018	0.00076	mg/Kg	☼	08/05/20 08:30	08/13/20 12:04	1
Trichloroethene	<0.00060		0.0018	0.00060	mg/Kg	☼	08/05/20 08:30	08/13/20 12:04	1
Vinyl acetate	<0.0015		0.0044	0.0015	mg/Kg	☼	08/05/20 08:30	08/13/20 12:04	1
Vinyl chloride	<0.00079		0.0018	0.00079	mg/Kg	☼	08/05/20 08:30	08/13/20 12:04	1
Xylenes, Total	<0.00057		0.0036	0.00057	mg/Kg	☼	08/05/20 08:30	08/13/20 12:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		75 - 131	08/05/20 08:30	08/13/20 12:04	1
Dibromofluoromethane	100		75 - 126	08/05/20 08:30	08/13/20 12:04	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134	08/05/20 08:30	08/13/20 12:04	1
Toluene-d8 (Surr)	93		75 - 124	08/05/20 08:30	08/13/20 12:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0069		0.038	0.0069	mg/Kg	☼	08/14/20 19:22	08/17/20 12:29	1
Acenaphthylene	<0.0050		0.038	0.0050	mg/Kg	☼	08/14/20 19:22	08/17/20 12:29	1
Anthracene	0.014	J	0.038	0.0064	mg/Kg	☼	08/14/20 19:22	08/17/20 12:29	1
Benzo[a]anthracene	0.084		0.038	0.0052	mg/Kg	☼	08/14/20 19:22	08/17/20 12:29	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185943-1

Client Sample ID: 2412V2-13-B01 (0-5)

Lab Sample ID: 500-185943-1

Date Collected: 08/04/20 10:20

Matrix: Solid

Date Received: 08/04/20 17:40

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	0.090		0.038	0.0074	mg/Kg	☼	08/14/20 19:22	08/17/20 12:29	1
Benzo[b]fluoranthene	0.14		0.038	0.0083	mg/Kg	☼	08/14/20 19:22	08/17/20 12:29	1
Benzo[g,h,i]perylene	0.044		0.038	0.012	mg/Kg	☼	08/14/20 19:22	08/17/20 12:29	1
Benzo[k]fluoranthene	0.043		0.038	0.011	mg/Kg	☼	08/14/20 19:22	08/17/20 12:29	1
Bis(2-chloroethoxy)methane	<0.039		0.19	0.039	mg/Kg	☼	08/14/20 19:22	08/17/20 12:29	1
Bis(2-chloroethyl)ether	<0.057		0.19	0.057	mg/Kg	☼	08/14/20 19:22	08/17/20 12:29	1
Bis(2-ethylhexyl) phthalate	<0.070		0.19	0.070	mg/Kg	☼	08/14/20 19:22	08/17/20 12:29	1
4-Bromophenyl phenyl ether	<0.050		0.19	0.050	mg/Kg	☼	08/14/20 19:22	08/17/20 12:29	1
Butyl benzyl phthalate	<0.073		0.19	0.073	mg/Kg	☼	08/14/20 19:22	08/17/20 12:29	1
Carbazole	<0.096		0.19	0.096	mg/Kg	☼	08/14/20 19:22	08/17/20 12:29	1
4-Chloroaniline	<0.18		0.77	0.18	mg/Kg	☼	08/14/20 19:22	08/17/20 12:29	1
4-Chloro-3-methylphenol	<0.13		0.38	0.13	mg/Kg	☼	08/14/20 19:22	08/17/20 12:29	1
2-Chloronaphthalene	<0.042		0.19	0.042	mg/Kg	☼	08/14/20 19:22	08/17/20 12:29	1
2-Chlorophenol	<0.065		0.19	0.065	mg/Kg	☼	08/14/20 19:22	08/17/20 12:29	1
4-Chlorophenyl phenyl ether	<0.045		0.19	0.045	mg/Kg	☼	08/14/20 19:22	08/17/20 12:29	1
Chrysene	0.093		0.038	0.010	mg/Kg	☼	08/14/20 19:22	08/17/20 12:29	1
Dibenz(a,h)anthracene	<0.0074		0.038	0.0074	mg/Kg	☼	08/14/20 19:22	08/17/20 12:29	1
Dibenzofuran	<0.045		0.19	0.045	mg/Kg	☼	08/14/20 19:22	08/17/20 12:29	1
1,2-Dichlorobenzene	<0.046		0.19	0.046	mg/Kg	☼	08/14/20 19:22	08/17/20 12:29	1
1,3-Dichlorobenzene	<0.043		0.19	0.043	mg/Kg	☼	08/14/20 19:22	08/17/20 12:29	1
1,4-Dichlorobenzene	<0.049		0.19	0.049	mg/Kg	☼	08/14/20 19:22	08/17/20 12:29	1
3,3'-Dichlorobenzidine	<0.054		0.19	0.054	mg/Kg	☼	08/14/20 19:22	08/17/20 12:29	1
2,4-Dichlorophenol	<0.091		0.38	0.091	mg/Kg	☼	08/14/20 19:22	08/17/20 12:29	1
Diethyl phthalate	<0.065		0.19	0.065	mg/Kg	☼	08/14/20 19:22	08/17/20 12:29	1
2,4-Dimethylphenol	<0.15		0.38	0.15	mg/Kg	☼	08/14/20 19:22	08/17/20 12:29	1
Dimethyl phthalate	<0.050		0.19	0.050	mg/Kg	☼	08/14/20 19:22	08/17/20 12:29	1
Di-n-butyl phthalate	<0.058		0.19	0.058	mg/Kg	☼	08/14/20 19:22	08/17/20 12:29	1
4,6-Dinitro-2-methylphenol	<0.31		0.77	0.31	mg/Kg	☼	08/14/20 19:22	08/17/20 12:29	1
2,4-Dinitrophenol	<0.67		0.77	0.67	mg/Kg	☼	08/14/20 19:22	08/17/20 12:29	1
2,4-Dinitrotoluene	<0.061		0.19	0.061	mg/Kg	☼	08/14/20 19:22	08/17/20 12:29	1
2,6-Dinitrotoluene	<0.075		0.19	0.075	mg/Kg	☼	08/14/20 19:22	08/17/20 12:29	1
Di-n-octyl phthalate	<0.062		0.19	0.062	mg/Kg	☼	08/14/20 19:22	08/17/20 12:29	1
Fluoranthene	0.20		0.038	0.0071	mg/Kg	☼	08/14/20 19:22	08/17/20 12:29	1
Fluorene	<0.0054		0.038	0.0054	mg/Kg	☼	08/14/20 19:22	08/17/20 12:29	1
Hexachlorobenzene	<0.0089		0.077	0.0089	mg/Kg	☼	08/14/20 19:22	08/17/20 12:29	1
Hexachlorobutadiene	<0.060		0.19	0.060	mg/Kg	☼	08/14/20 19:22	08/17/20 12:29	1
Hexachlorocyclopentadiene	<0.22		0.77	0.22	mg/Kg	☼	08/14/20 19:22	08/17/20 12:29	1
Hexachloroethane	<0.058		0.19	0.058	mg/Kg	☼	08/14/20 19:22	08/17/20 12:29	1
Indeno[1,2,3-cd]pyrene	0.038		0.038	0.0099	mg/Kg	☼	08/14/20 19:22	08/17/20 12:29	1
Isophorone	<0.043		0.19	0.043	mg/Kg	☼	08/14/20 19:22	08/17/20 12:29	1
2-Methylnaphthalene	0.0099 J		0.077	0.0070	mg/Kg	☼	08/14/20 19:22	08/17/20 12:29	1
2-Methylphenol	<0.061		0.19	0.061	mg/Kg	☼	08/14/20 19:22	08/17/20 12:29	1
3 & 4 Methylphenol	<0.064		0.19	0.064	mg/Kg	☼	08/14/20 19:22	08/17/20 12:29	1
Naphthalene	<0.0059		0.038	0.0059	mg/Kg	☼	08/14/20 19:22	08/17/20 12:29	1
2-Nitroaniline	<0.052		0.19	0.052	mg/Kg	☼	08/14/20 19:22	08/17/20 12:29	1
3-Nitroaniline	<0.12		0.38	0.12	mg/Kg	☼	08/14/20 19:22	08/17/20 12:29	1
4-Nitroaniline	<0.16		0.38	0.16	mg/Kg	☼	08/14/20 19:22	08/17/20 12:29	1
Nitrobenzene	<0.0096		0.038	0.0096	mg/Kg	☼	08/14/20 19:22	08/17/20 12:29	1
2-Nitrophenol	<0.090		0.38	0.090	mg/Kg	☼	08/14/20 19:22	08/17/20 12:29	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185943-1

Client Sample ID: 2412V2-13-B01 (0-5)

Lab Sample ID: 500-185943-1

Date Collected: 08/04/20 10:20

Matrix: Solid

Date Received: 08/04/20 17:40

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	<0.36		0.77	0.36	mg/Kg	☼	08/14/20 19:22	08/17/20 12:29	1
N-Nitrosodi-n-propylamine	<0.047		0.077	0.047	mg/Kg	☼	08/14/20 19:22	08/17/20 12:29	1
N-Nitrosodiphenylamine	<0.045		0.19	0.045	mg/Kg	☼	08/14/20 19:22	08/17/20 12:29	1
2,2'-oxybis[1-chloropropane]	<0.044		0.19	0.044	mg/Kg	☼	08/14/20 19:22	08/17/20 12:29	1
Pentachlorophenol	<0.61		0.77	0.61	mg/Kg	☼	08/14/20 19:22	08/17/20 12:29	1
Phenanthrene	0.087		0.038	0.0053	mg/Kg	☼	08/14/20 19:22	08/17/20 12:29	1
Phenol	<0.085		0.19	0.085	mg/Kg	☼	08/14/20 19:22	08/17/20 12:29	1
Pyrene	0.15		0.038	0.0076	mg/Kg	☼	08/14/20 19:22	08/17/20 12:29	1
1,2,4-Trichlorobenzene	<0.041		0.19	0.041	mg/Kg	☼	08/14/20 19:22	08/17/20 12:29	1
2,4,5-Trichlorophenol	<0.087		0.38	0.087	mg/Kg	☼	08/14/20 19:22	08/17/20 12:29	1
2,4,6-Trichlorophenol	<0.13		0.38	0.13	mg/Kg	☼	08/14/20 19:22	08/17/20 12:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	93		43 - 145	08/14/20 19:22	08/17/20 12:29	1
2-Fluorophenol	83		31 - 166	08/14/20 19:22	08/17/20 12:29	1
Nitrobenzene-d5	69		37 - 147	08/14/20 19:22	08/17/20 12:29	1
Phenol-d5	72		30 - 153	08/14/20 19:22	08/17/20 12:29	1
Terphenyl-d14	110		42 - 157	08/14/20 19:22	08/17/20 12:29	1
2,4,6-Tribromophenol	112		31 - 143	08/14/20 19:22	08/17/20 12:29	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.25	J B	1.1	0.21	mg/Kg	☼	08/11/20 17:27	08/12/20 18:41	1
Arsenic	5.0		0.55	0.19	mg/Kg	☼	08/11/20 17:27	08/12/20 18:41	1
Barium	86		0.55	0.063	mg/Kg	☼	08/11/20 17:27	08/12/20 18:41	1
Beryllium	0.68		0.22	0.052	mg/Kg	☼	08/11/20 17:27	08/12/20 18:41	1
Cadmium	0.27	B	0.11	0.020	mg/Kg	☼	08/11/20 17:27	08/12/20 18:41	1
Chromium	15	B	0.55	0.27	mg/Kg	☼	08/11/20 17:27	08/12/20 18:41	1
Cobalt	8.1		0.55	0.14	mg/Kg	☼	08/11/20 17:27	08/13/20 01:02	2
Copper	13		0.55	0.15	mg/Kg	☼	08/11/20 17:27	08/12/20 18:41	1
Iron	14000		11	5.7	mg/Kg	☼	08/11/20 17:27	08/12/20 18:41	1
Lead	54		0.28	0.13	mg/Kg	☼	08/11/20 17:27	08/12/20 18:41	1
Magnesium	5800		5.5	2.7	mg/Kg	☼	08/11/20 17:27	08/12/20 18:41	1
Calcium	8000	B	11	1.9	mg/Kg	☼	08/11/20 17:27	08/12/20 18:41	1
Manganese	500		0.55	0.080	mg/Kg	☼	08/11/20 17:27	08/12/20 18:41	1
Nickel	18		0.55	0.16	mg/Kg	☼	08/11/20 17:27	08/12/20 18:41	1
Selenium	0.34	J	0.55	0.32	mg/Kg	☼	08/11/20 17:27	08/12/20 18:41	1
Silver	<0.071		0.28	0.071	mg/Kg	☼	08/11/20 17:27	08/12/20 18:41	1
Thallium	0.42	J	0.55	0.28	mg/Kg	☼	08/11/20 17:27	08/12/20 18:41	1
Vanadium	24		0.28	0.065	mg/Kg	☼	08/11/20 17:27	08/12/20 18:41	1
Zinc	81		1.1	0.49	mg/Kg	☼	08/11/20 17:27	08/12/20 18:41	1
Potassium	1600		28	9.8	mg/Kg	☼	08/11/20 17:27	08/12/20 18:41	1
Sodium	840		55	8.2	mg/Kg	☼	08/11/20 17:27	08/12/20 18:41	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/17/20 17:19	08/18/20 05:36	1
Barium	0.57		0.50	0.050	mg/L		08/17/20 17:19	08/18/20 05:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/17/20 17:19	08/18/20 05:36	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/17/20 17:19	08/18/20 05:36	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185943-1

Client Sample ID: 2412V2-13-B01 (0-5)

Lab Sample ID: 500-185943-1

Date Collected: 08/04/20 10:20

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 82.7

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		08/17/20 17:19	08/18/20 05:36	1
Chromium	<0.010		0.025	0.010	mg/L		08/17/20 17:19	08/18/20 05:36	1
Cobalt	<0.010		0.025	0.010	mg/L		08/17/20 17:19	08/18/20 05:36	1
Copper	<0.010		0.025	0.010	mg/L		08/17/20 17:19	08/18/20 05:36	1
Iron	<0.20		0.40	0.20	mg/L		08/17/20 17:19	08/18/20 05:36	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/17/20 17:19	08/18/20 05:36	1
Magnesium	110		2.5	0.50	mg/L		08/17/20 17:19	08/18/20 05:36	1
Manganese	0.27		0.025	0.010	mg/L		08/17/20 17:19	08/18/20 05:36	1
Nickel	<0.010		0.025	0.010	mg/L		08/17/20 17:19	08/18/20 05:36	1
Potassium	2.9		2.5	0.50	mg/L		08/17/20 17:19	08/18/20 05:36	1
Selenium	<0.020		0.050	0.020	mg/L		08/17/20 17:19	08/18/20 05:36	1
Silver	<0.010		0.025	0.010	mg/L		08/17/20 17:19	08/18/20 05:36	1
Vanadium	<0.010		0.025	0.010	mg/L		08/17/20 17:19	08/18/20 05:36	1
Zinc	0.089	J B *	0.50	0.020	mg/L		08/17/20 17:19	08/18/20 05:36	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		08/17/20 17:16	08/18/20 10:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/17/20 17:19	08/18/20 10:33	1
Thallium	<0.0020	*	0.0020	0.0020	mg/L		08/17/20 17:19	08/18/20 10:33	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/18/20 09:55	08/19/20 08:06	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.046		0.018	0.0061	mg/Kg	☼	08/11/20 14:25	08/12/20 09:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.15		0.29	0.15	mg/Kg	☼	08/14/20 15:05	08/17/20 15:51	1
pH	8.4		0.2	0.2	SU			08/11/20 17:34	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185943-1

Client Sample ID: 2412V2-13-B01 (5-7.5)

Lab Sample ID: 500-185943-2

Date Collected: 08/04/20 10:25

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 87.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0070		0.016	0.0070	mg/Kg	☼	08/05/20 08:30	08/13/20 12:30	1
Benzene	<0.00041		0.0016	0.00041	mg/Kg	☼	08/05/20 08:30	08/13/20 12:30	1
Bromodichloromethane	<0.00033		0.0016	0.00033	mg/Kg	☼	08/05/20 08:30	08/13/20 12:30	1
Bromoform	<0.00047		0.0016	0.00047	mg/Kg	☼	08/05/20 08:30	08/13/20 12:30	1
Bromomethane	<0.0015		0.0040	0.0015	mg/Kg	☼	08/05/20 08:30	08/13/20 12:30	1
2-Butanone (MEK)	<0.0018		0.0040	0.0018	mg/Kg	☼	08/05/20 08:30	08/13/20 12:30	1
Carbon disulfide	<0.00084		0.0040	0.00084	mg/Kg	☼	08/05/20 08:30	08/13/20 12:30	1
Carbon tetrachloride	<0.00047		0.0016	0.00047	mg/Kg	☼	08/05/20 08:30	08/13/20 12:30	1
Chlorobenzene	<0.00060		0.0016	0.00060	mg/Kg	☼	08/05/20 08:30	08/13/20 12:30	1
Chloroethane	<0.0012 *		0.0040	0.0012	mg/Kg	☼	08/05/20 08:30	08/13/20 12:30	1
Chloroform	<0.00056		0.0016	0.00056	mg/Kg	☼	08/05/20 08:30	08/13/20 12:30	1
Chloromethane	<0.0016		0.0040	0.0016	mg/Kg	☼	08/05/20 08:30	08/13/20 12:30	1
cis-1,2-Dichloroethene	<0.00045		0.0016	0.00045	mg/Kg	☼	08/05/20 08:30	08/13/20 12:30	1
cis-1,3-Dichloropropene	<0.00049		0.0016	0.00049	mg/Kg	☼	08/05/20 08:30	08/13/20 12:30	1
Dibromochloromethane	<0.00053		0.0016	0.00053	mg/Kg	☼	08/05/20 08:30	08/13/20 12:30	1
1,1-Dichloroethane	<0.00055		0.0016	0.00055	mg/Kg	☼	08/05/20 08:30	08/13/20 12:30	1
1,2-Dichloroethane	<0.0013		0.0040	0.0013	mg/Kg	☼	08/05/20 08:30	08/13/20 12:30	1
1,1-Dichloroethene	<0.00055		0.0016	0.00055	mg/Kg	☼	08/05/20 08:30	08/13/20 12:30	1
1,2-Dichloropropane	<0.00042		0.0016	0.00042	mg/Kg	☼	08/05/20 08:30	08/13/20 12:30	1
1,3-Dichloropropane, Total	<0.00057		0.0016	0.00057	mg/Kg	☼	08/05/20 08:30	08/13/20 12:30	1
Ethylbenzene	<0.00077		0.0016	0.00077	mg/Kg	☼	08/05/20 08:30	08/13/20 12:30	1
2-Hexanone	<0.0013		0.0040	0.0013	mg/Kg	☼	08/05/20 08:30	08/13/20 12:30	1
Methylene Chloride	<0.0016		0.0040	0.0016	mg/Kg	☼	08/05/20 08:30	08/13/20 12:30	1
4-Methyl-2-pentanone (MIBK)	<0.0012		0.0040	0.0012	mg/Kg	☼	08/05/20 08:30	08/13/20 12:30	1
Methyl tert-butyl ether	<0.00047		0.0016	0.00047	mg/Kg	☼	08/05/20 08:30	08/13/20 12:30	1
Styrene	<0.00049		0.0016	0.00049	mg/Kg	☼	08/05/20 08:30	08/13/20 12:30	1
1,1,2,2-Tetrachloroethane	<0.00052		0.0016	0.00052	mg/Kg	☼	08/05/20 08:30	08/13/20 12:30	1
Tetrachloroethene	<0.00055		0.0016	0.00055	mg/Kg	☼	08/05/20 08:30	08/13/20 12:30	1
Toluene	<0.00041		0.0016	0.00041	mg/Kg	☼	08/05/20 08:30	08/13/20 12:30	1
trans-1,2-Dichloroethene	<0.00071		0.0016	0.00071	mg/Kg	☼	08/05/20 08:30	08/13/20 12:30	1
trans-1,3-Dichloropropene	<0.00057		0.0016	0.00057	mg/Kg	☼	08/05/20 08:30	08/13/20 12:30	1
1,1,1-Trichloroethane	<0.00054		0.0016	0.00054	mg/Kg	☼	08/05/20 08:30	08/13/20 12:30	1
1,1,2-Trichloroethane	<0.00069		0.0016	0.00069	mg/Kg	☼	08/05/20 08:30	08/13/20 12:30	1
Trichloroethene	<0.00055		0.0016	0.00055	mg/Kg	☼	08/05/20 08:30	08/13/20 12:30	1
Vinyl acetate	<0.0014		0.0040	0.0014	mg/Kg	☼	08/05/20 08:30	08/13/20 12:30	1
Vinyl chloride	<0.00071		0.0016	0.00071	mg/Kg	☼	08/05/20 08:30	08/13/20 12:30	1
Xylenes, Total	<0.00052		0.0032	0.00052	mg/Kg	☼	08/05/20 08:30	08/13/20 12:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		75 - 131	08/05/20 08:30	08/13/20 12:30	1
Dibromofluoromethane	98		75 - 126	08/05/20 08:30	08/13/20 12:30	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	08/05/20 08:30	08/13/20 12:30	1
Toluene-d8 (Surr)	97		75 - 124	08/05/20 08:30	08/13/20 12:30	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	☼	08/14/20 19:22	08/17/20 14:15	1
Acenaphthylene	<0.0048		0.036	0.0048	mg/Kg	☼	08/14/20 19:22	08/17/20 14:15	1
Anthracene	<0.0060		0.036	0.0060	mg/Kg	☼	08/14/20 19:22	08/17/20 14:15	1
Benzo[a]anthracene	0.0074	J	0.036	0.0049	mg/Kg	☼	08/14/20 19:22	08/17/20 14:15	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185943-1

Client Sample ID: 2412V2-13-B01 (5-7.5)

Lab Sample ID: 500-185943-2

Date Collected: 08/04/20 10:25

Matrix: Solid

Date Received: 08/04/20 17:40

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	0.010	J	0.036	0.0070	mg/Kg	☼	08/14/20 19:22	08/17/20 14:15	1
Benzo[b]fluoranthene	0.011	J	0.036	0.0078	mg/Kg	☼	08/14/20 19:22	08/17/20 14:15	1
Benzo[g,h,i]perylene	<0.012		0.036	0.012	mg/Kg	☼	08/14/20 19:22	08/17/20 14:15	1
Benzo[k]fluoranthene	<0.011		0.036	0.011	mg/Kg	☼	08/14/20 19:22	08/17/20 14:15	1
Bis(2-chloroethoxy)methane	<0.037		0.18	0.037	mg/Kg	☼	08/14/20 19:22	08/17/20 14:15	1
Bis(2-chloroethyl)ether	<0.054		0.18	0.054	mg/Kg	☼	08/14/20 19:22	08/17/20 14:15	1
Bis(2-ethylhexyl) phthalate	<0.066		0.18	0.066	mg/Kg	☼	08/14/20 19:22	08/17/20 14:15	1
4-Bromophenyl phenyl ether	<0.048		0.18	0.048	mg/Kg	☼	08/14/20 19:22	08/17/20 14:15	1
Butyl benzyl phthalate	<0.069		0.18	0.069	mg/Kg	☼	08/14/20 19:22	08/17/20 14:15	1
Carbazole	<0.090		0.18	0.090	mg/Kg	☼	08/14/20 19:22	08/17/20 14:15	1
4-Chloroaniline	<0.17		0.73	0.17	mg/Kg	☼	08/14/20 19:22	08/17/20 14:15	1
4-Chloro-3-methylphenol	<0.12		0.36	0.12	mg/Kg	☼	08/14/20 19:22	08/17/20 14:15	1
2-Chloronaphthalene	<0.040		0.18	0.040	mg/Kg	☼	08/14/20 19:22	08/17/20 14:15	1
2-Chlorophenol	<0.062		0.18	0.062	mg/Kg	☼	08/14/20 19:22	08/17/20 14:15	1
4-Chlorophenyl phenyl ether	<0.042		0.18	0.042	mg/Kg	☼	08/14/20 19:22	08/17/20 14:15	1
Chrysene	<0.0099		0.036	0.0099	mg/Kg	☼	08/14/20 19:22	08/17/20 14:15	1
Dibenz(a,h)anthracene	<0.0070		0.036	0.0070	mg/Kg	☼	08/14/20 19:22	08/17/20 14:15	1
Dibenzofuran	<0.042		0.18	0.042	mg/Kg	☼	08/14/20 19:22	08/17/20 14:15	1
1,2-Dichlorobenzene	<0.043		0.18	0.043	mg/Kg	☼	08/14/20 19:22	08/17/20 14:15	1
1,3-Dichlorobenzene	<0.041		0.18	0.041	mg/Kg	☼	08/14/20 19:22	08/17/20 14:15	1
1,4-Dichlorobenzene	<0.046		0.18	0.046	mg/Kg	☼	08/14/20 19:22	08/17/20 14:15	1
3,3'-Dichlorobenzidine	<0.051		0.18	0.051	mg/Kg	☼	08/14/20 19:22	08/17/20 14:15	1
2,4-Dichlorophenol	<0.086		0.36	0.086	mg/Kg	☼	08/14/20 19:22	08/17/20 14:15	1
Diethyl phthalate	<0.061		0.18	0.061	mg/Kg	☼	08/14/20 19:22	08/17/20 14:15	1
2,4-Dimethylphenol	<0.14		0.36	0.14	mg/Kg	☼	08/14/20 19:22	08/17/20 14:15	1
Dimethyl phthalate	<0.047		0.18	0.047	mg/Kg	☼	08/14/20 19:22	08/17/20 14:15	1
Di-n-butyl phthalate	<0.055		0.18	0.055	mg/Kg	☼	08/14/20 19:22	08/17/20 14:15	1
4,6-Dinitro-2-methylphenol	<0.29		0.73	0.29	mg/Kg	☼	08/14/20 19:22	08/17/20 14:15	1
2,4-Dinitrophenol	<0.64		0.73	0.64	mg/Kg	☼	08/14/20 19:22	08/17/20 14:15	1
2,4-Dinitrotoluene	<0.057		0.18	0.057	mg/Kg	☼	08/14/20 19:22	08/17/20 14:15	1
2,6-Dinitrotoluene	<0.071		0.18	0.071	mg/Kg	☼	08/14/20 19:22	08/17/20 14:15	1
Di-n-octyl phthalate	<0.059		0.18	0.059	mg/Kg	☼	08/14/20 19:22	08/17/20 14:15	1
Fluoranthene	0.014	J	0.036	0.0067	mg/Kg	☼	08/14/20 19:22	08/17/20 14:15	1
Fluorene	<0.0051		0.036	0.0051	mg/Kg	☼	08/14/20 19:22	08/17/20 14:15	1
Hexachlorobenzene	<0.0084		0.073	0.0084	mg/Kg	☼	08/14/20 19:22	08/17/20 14:15	1
Hexachlorobutadiene	<0.057		0.18	0.057	mg/Kg	☼	08/14/20 19:22	08/17/20 14:15	1
Hexachlorocyclopentadiene	<0.21		0.73	0.21	mg/Kg	☼	08/14/20 19:22	08/17/20 14:15	1
Hexachloroethane	<0.055		0.18	0.055	mg/Kg	☼	08/14/20 19:22	08/17/20 14:15	1
Indeno[1,2,3-cd]pyrene	<0.0094		0.036	0.0094	mg/Kg	☼	08/14/20 19:22	08/17/20 14:15	1
Isophorone	<0.041		0.18	0.041	mg/Kg	☼	08/14/20 19:22	08/17/20 14:15	1
2-Methylnaphthalene	<0.0067		0.073	0.0067	mg/Kg	☼	08/14/20 19:22	08/17/20 14:15	1
2-Methylphenol	<0.058		0.18	0.058	mg/Kg	☼	08/14/20 19:22	08/17/20 14:15	1
3 & 4 Methylphenol	<0.060		0.18	0.060	mg/Kg	☼	08/14/20 19:22	08/17/20 14:15	1
Naphthalene	<0.0056		0.036	0.0056	mg/Kg	☼	08/14/20 19:22	08/17/20 14:15	1
2-Nitroaniline	<0.049		0.18	0.049	mg/Kg	☼	08/14/20 19:22	08/17/20 14:15	1
3-Nitroaniline	<0.11		0.36	0.11	mg/Kg	☼	08/14/20 19:22	08/17/20 14:15	1
4-Nitroaniline	<0.15		0.36	0.15	mg/Kg	☼	08/14/20 19:22	08/17/20 14:15	1
Nitrobenzene	<0.0090		0.036	0.0090	mg/Kg	☼	08/14/20 19:22	08/17/20 14:15	1
2-Nitrophenol	<0.085		0.36	0.085	mg/Kg	☼	08/14/20 19:22	08/17/20 14:15	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185943-1

Client Sample ID: 2412V2-13-B01 (5-7.5)

Lab Sample ID: 500-185943-2

Date Collected: 08/04/20 10:25

Matrix: Solid

Date Received: 08/04/20 17:40

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	<0.34		0.73	0.34	mg/Kg	☼	08/14/20 19:22	08/17/20 14:15	1
N-Nitrosodi-n-propylamine	<0.044		0.073	0.044	mg/Kg	☼	08/14/20 19:22	08/17/20 14:15	1
N-Nitrosodiphenylamine	<0.043		0.18	0.043	mg/Kg	☼	08/14/20 19:22	08/17/20 14:15	1
2,2'-oxybis[1-chloropropane]	<0.042		0.18	0.042	mg/Kg	☼	08/14/20 19:22	08/17/20 14:15	1
Pentachlorophenol	<0.58		0.73	0.58	mg/Kg	☼	08/14/20 19:22	08/17/20 14:15	1
Phenanthrene	0.0059	J	0.036	0.0050	mg/Kg	☼	08/14/20 19:22	08/17/20 14:15	1
Phenol	<0.080		0.18	0.080	mg/Kg	☼	08/14/20 19:22	08/17/20 14:15	1
Pyrene	0.013	J	0.036	0.0072	mg/Kg	☼	08/14/20 19:22	08/17/20 14:15	1
1,2,4-Trichlorobenzene	<0.039		0.18	0.039	mg/Kg	☼	08/14/20 19:22	08/17/20 14:15	1
2,4,5-Trichlorophenol	<0.083		0.36	0.083	mg/Kg	☼	08/14/20 19:22	08/17/20 14:15	1
2,4,6-Trichlorophenol	<0.12		0.36	0.12	mg/Kg	☼	08/14/20 19:22	08/17/20 14:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	85		43 - 145	08/14/20 19:22	08/17/20 14:15	1
2-Fluorophenol	96		31 - 166	08/14/20 19:22	08/17/20 14:15	1
Nitrobenzene-d5	78		37 - 147	08/14/20 19:22	08/17/20 14:15	1
Phenol-d5	85		30 - 153	08/14/20 19:22	08/17/20 14:15	1
Terphenyl-d14	105		42 - 157	08/14/20 19:22	08/17/20 14:15	1
2,4,6-Tribromophenol	46		31 - 143	08/14/20 19:22	08/17/20 14:15	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.48	J B	1.1	0.21	mg/Kg	☼	08/11/20 17:27	08/12/20 18:45	1
Arsenic	6.7		0.54	0.18	mg/Kg	☼	08/11/20 17:27	08/12/20 18:45	1
Barium	42		0.54	0.061	mg/Kg	☼	08/11/20 17:27	08/12/20 18:45	1
Beryllium	0.40		0.22	0.050	mg/Kg	☼	08/11/20 17:27	08/12/20 18:45	1
Cadmium	0.15	B	0.11	0.019	mg/Kg	☼	08/11/20 17:27	08/12/20 18:45	1
Chromium	9.7	B	0.54	0.27	mg/Kg	☼	08/11/20 17:27	08/12/20 18:45	1
Cobalt	6.7		0.54	0.14	mg/Kg	☼	08/11/20 17:27	08/13/20 01:06	2
Copper	14		0.54	0.15	mg/Kg	☼	08/11/20 17:27	08/12/20 18:45	1
Iron	14000		11	5.6	mg/Kg	☼	08/11/20 17:27	08/12/20 18:45	1
Lead	11		0.27	0.12	mg/Kg	☼	08/11/20 17:27	08/12/20 18:45	1
Magnesium	30000		5.4	2.7	mg/Kg	☼	08/11/20 17:27	08/12/20 18:45	1
Calcium	53000	B	22	3.7	mg/Kg	☼	08/11/20 17:27	08/13/20 01:06	2
Manganese	630		0.54	0.078	mg/Kg	☼	08/11/20 17:27	08/12/20 18:45	1
Nickel	18		0.54	0.16	mg/Kg	☼	08/11/20 17:27	08/12/20 18:45	1
Selenium	<0.32		0.54	0.32	mg/Kg	☼	08/11/20 17:27	08/12/20 18:45	1
Silver	<0.070		0.27	0.070	mg/Kg	☼	08/11/20 17:27	08/12/20 18:45	1
Thallium	0.39	J	0.54	0.27	mg/Kg	☼	08/11/20 17:27	08/12/20 18:45	1
Vanadium	18		0.27	0.064	mg/Kg	☼	08/11/20 17:27	08/12/20 18:45	1
Zinc	40		1.1	0.47	mg/Kg	☼	08/11/20 17:27	08/12/20 18:45	1
Potassium	1300		27	9.5	mg/Kg	☼	08/11/20 17:27	08/12/20 18:45	1
Sodium	350		54	8.0	mg/Kg	☼	08/11/20 17:27	08/12/20 18:45	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/17/20 17:19	08/18/20 05:40	1
Barium	0.28	J	0.50	0.050	mg/L		08/17/20 17:19	08/18/20 05:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/17/20 17:19	08/18/20 05:40	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/17/20 17:19	08/18/20 05:40	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185943-1

Client Sample ID: 2412V2-13-B01 (5-7.5)

Lab Sample ID: 500-185943-2

Date Collected: 08/04/20 10:25

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 87.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	460		5.0	0.50	mg/L		08/17/20 17:19	08/18/20 05:40	1
Chromium	<0.010		0.025	0.010	mg/L		08/17/20 17:19	08/18/20 05:40	1
Cobalt	<0.010		0.025	0.010	mg/L		08/17/20 17:19	08/18/20 05:40	1
Copper	<0.010		0.025	0.010	mg/L		08/17/20 17:19	08/18/20 05:40	1
Iron	<0.20		0.40	0.20	mg/L		08/17/20 17:19	08/18/20 05:40	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/17/20 17:19	08/18/20 05:40	1
Magnesium	170		2.5	0.50	mg/L		08/17/20 17:19	08/18/20 05:40	1
Manganese	0.35		0.025	0.010	mg/L		08/17/20 17:19	08/18/20 05:40	1
Nickel	<0.010		0.025	0.010	mg/L		08/17/20 17:19	08/18/20 05:40	1
Potassium	2.7		2.5	0.50	mg/L		08/17/20 17:19	08/18/20 05:40	1
Selenium	<0.020		0.050	0.020	mg/L		08/17/20 17:19	08/18/20 05:40	1
Silver	<0.010		0.025	0.010	mg/L		08/17/20 17:19	08/18/20 05:40	1
Vanadium	<0.010		0.025	0.010	mg/L		08/17/20 17:19	08/18/20 05:40	1
Zinc	<0.020	*	0.50	0.020	mg/L		08/17/20 17:19	08/18/20 05:40	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		08/17/20 17:16	08/18/20 10:23	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		08/17/20 17:19	08/18/20 10:35	1
Thallium	<0.0020	*	0.0020	0.0020	mg/L		08/17/20 17:19	08/18/20 10:35	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/18/20 09:55	08/19/20 08:09	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	☼	08/11/20 14:25	08/12/20 09:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.16		0.32	0.16	mg/Kg	☼	08/14/20 15:05	08/17/20 16:02	1
pH	8.1		0.2	0.2	SU			08/11/20 17:37	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185943-1

Client Sample ID: 2412V2-13-B02 (0-5)

Lab Sample ID: 500-185943-3

Date Collected: 08/04/20 09:35

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0071		0.016	0.0071	mg/Kg	☼	08/05/20 08:30	08/13/20 12:56	1
Benzene	<0.00042		0.0016	0.00042	mg/Kg	☼	08/05/20 08:30	08/13/20 12:56	1
Bromodichloromethane	<0.00033		0.0016	0.00033	mg/Kg	☼	08/05/20 08:30	08/13/20 12:56	1
Bromoform	<0.00048		0.0016	0.00048	mg/Kg	☼	08/05/20 08:30	08/13/20 12:56	1
Bromomethane	<0.0015		0.0041	0.0015	mg/Kg	☼	08/05/20 08:30	08/13/20 12:56	1
2-Butanone (MEK)	<0.0018		0.0041	0.0018	mg/Kg	☼	08/05/20 08:30	08/13/20 12:56	1
Carbon disulfide	<0.00085		0.0041	0.00085	mg/Kg	☼	08/05/20 08:30	08/13/20 12:56	1
Carbon tetrachloride	<0.00047		0.0016	0.00047	mg/Kg	☼	08/05/20 08:30	08/13/20 12:56	1
Chlorobenzene	<0.00060		0.0016	0.00060	mg/Kg	☼	08/05/20 08:30	08/13/20 12:56	1
Chloroethane	<0.0012 *		0.0041	0.0012	mg/Kg	☼	08/05/20 08:30	08/13/20 12:56	1
Chloroform	<0.00056		0.0016	0.00056	mg/Kg	☼	08/05/20 08:30	08/13/20 12:56	1
Chloromethane	<0.0016		0.0041	0.0016	mg/Kg	☼	08/05/20 08:30	08/13/20 12:56	1
cis-1,2-Dichloroethene	<0.00045		0.0016	0.00045	mg/Kg	☼	08/05/20 08:30	08/13/20 12:56	1
cis-1,3-Dichloropropene	<0.00049		0.0016	0.00049	mg/Kg	☼	08/05/20 08:30	08/13/20 12:56	1
Dibromochloromethane	<0.00053		0.0016	0.00053	mg/Kg	☼	08/05/20 08:30	08/13/20 12:56	1
1,1-Dichloroethane	<0.00056		0.0016	0.00056	mg/Kg	☼	08/05/20 08:30	08/13/20 12:56	1
1,2-Dichloroethane	<0.0013		0.0041	0.0013	mg/Kg	☼	08/05/20 08:30	08/13/20 12:56	1
1,1-Dichloroethene	<0.00056		0.0016	0.00056	mg/Kg	☼	08/05/20 08:30	08/13/20 12:56	1
1,2-Dichloropropane	<0.00042		0.0016	0.00042	mg/Kg	☼	08/05/20 08:30	08/13/20 12:56	1
1,3-Dichloropropane, Total	<0.00057		0.0016	0.00057	mg/Kg	☼	08/05/20 08:30	08/13/20 12:56	1
Ethylbenzene	<0.00078		0.0016	0.00078	mg/Kg	☼	08/05/20 08:30	08/13/20 12:56	1
2-Hexanone	<0.0013		0.0041	0.0013	mg/Kg	☼	08/05/20 08:30	08/13/20 12:56	1
Methylene Chloride	<0.0016		0.0041	0.0016	mg/Kg	☼	08/05/20 08:30	08/13/20 12:56	1
4-Methyl-2-pentanone (MIBK)	<0.0012		0.0041	0.0012	mg/Kg	☼	08/05/20 08:30	08/13/20 12:56	1
Methyl tert-butyl ether	<0.00048		0.0016	0.00048	mg/Kg	☼	08/05/20 08:30	08/13/20 12:56	1
Styrene	<0.00049		0.0016	0.00049	mg/Kg	☼	08/05/20 08:30	08/13/20 12:56	1
1,1,2,2-Tetrachloroethane	<0.00052		0.0016	0.00052	mg/Kg	☼	08/05/20 08:30	08/13/20 12:56	1
Tetrachloroethene	<0.00055		0.0016	0.00055	mg/Kg	☼	08/05/20 08:30	08/13/20 12:56	1
Toluene	<0.00041		0.0016	0.00041	mg/Kg	☼	08/05/20 08:30	08/13/20 12:56	1
trans-1,2-Dichloroethene	<0.00072		0.0016	0.00072	mg/Kg	☼	08/05/20 08:30	08/13/20 12:56	1
trans-1,3-Dichloropropene	<0.00057		0.0016	0.00057	mg/Kg	☼	08/05/20 08:30	08/13/20 12:56	1
1,1,1-Trichloroethane	<0.00055		0.0016	0.00055	mg/Kg	☼	08/05/20 08:30	08/13/20 12:56	1
1,1,2-Trichloroethane	<0.00070		0.0016	0.00070	mg/Kg	☼	08/05/20 08:30	08/13/20 12:56	1
Trichloroethene	<0.00055		0.0016	0.00055	mg/Kg	☼	08/05/20 08:30	08/13/20 12:56	1
Vinyl acetate	<0.0014		0.0041	0.0014	mg/Kg	☼	08/05/20 08:30	08/13/20 12:56	1
Vinyl chloride	<0.00072		0.0016	0.00072	mg/Kg	☼	08/05/20 08:30	08/13/20 12:56	1
Xylenes, Total	<0.00052		0.0033	0.00052	mg/Kg	☼	08/05/20 08:30	08/13/20 12:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		75 - 131	08/05/20 08:30	08/13/20 12:56	1
Dibromofluoromethane	100		75 - 126	08/05/20 08:30	08/13/20 12:56	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	08/05/20 08:30	08/13/20 12:56	1
Toluene-d8 (Surr)	95		75 - 124	08/05/20 08:30	08/13/20 12:56	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	☼	08/14/20 19:22	08/17/20 12:57	1
Acenaphthylene	<0.0052		0.039	0.0052	mg/Kg	☼	08/14/20 19:22	08/17/20 12:57	1
Anthracene	0.0087	J	0.039	0.0066	mg/Kg	☼	08/14/20 19:22	08/17/20 12:57	1
Benzo[a]anthracene	0.051		0.039	0.0053	mg/Kg	☼	08/14/20 19:22	08/17/20 12:57	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185943-1

Client Sample ID: 2412V2-13-B02 (0-5)

Lab Sample ID: 500-185943-3

Date Collected: 08/04/20 09:35

Matrix: Solid

Date Received: 08/04/20 17:40

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	0.057		0.039	0.0077	mg/Kg	☼	08/14/20 19:22	08/17/20 12:57	1
Benzo[b]fluoranthene	0.098		0.039	0.0085	mg/Kg	☼	08/14/20 19:22	08/17/20 12:57	1
Benzo[g,h,i]perylene	0.027	J	0.039	0.013	mg/Kg	☼	08/14/20 19:22	08/17/20 12:57	1
Benzo[k]fluoranthene	0.018	J	0.039	0.012	mg/Kg	☼	08/14/20 19:22	08/17/20 12:57	1
Bis(2-chloroethoxy)methane	<0.040		0.20	0.040	mg/Kg	☼	08/14/20 19:22	08/17/20 12:57	1
Bis(2-chloroethyl)ether	<0.059		0.20	0.059	mg/Kg	☼	08/14/20 19:22	08/17/20 12:57	1
Bis(2-ethylhexyl) phthalate	<0.072		0.20	0.072	mg/Kg	☼	08/14/20 19:22	08/17/20 12:57	1
4-Bromophenyl phenyl ether	<0.052		0.20	0.052	mg/Kg	☼	08/14/20 19:22	08/17/20 12:57	1
Butyl benzyl phthalate	<0.075		0.20	0.075	mg/Kg	☼	08/14/20 19:22	08/17/20 12:57	1
Carbazole	<0.099		0.20	0.099	mg/Kg	☼	08/14/20 19:22	08/17/20 12:57	1
4-Chloroaniline	<0.19		0.80	0.19	mg/Kg	☼	08/14/20 19:22	08/17/20 12:57	1
4-Chloro-3-methylphenol	<0.13		0.39	0.13	mg/Kg	☼	08/14/20 19:22	08/17/20 12:57	1
2-Chloronaphthalene	<0.044		0.20	0.044	mg/Kg	☼	08/14/20 19:22	08/17/20 12:57	1
2-Chlorophenol	<0.068		0.20	0.068	mg/Kg	☼	08/14/20 19:22	08/17/20 12:57	1
4-Chlorophenyl phenyl ether	<0.046		0.20	0.046	mg/Kg	☼	08/14/20 19:22	08/17/20 12:57	1
Chrysene	0.061		0.039	0.011	mg/Kg	☼	08/14/20 19:22	08/17/20 12:57	1
Dibenz(a,h)anthracene	<0.0077		0.039	0.0077	mg/Kg	☼	08/14/20 19:22	08/17/20 12:57	1
Dibenzofuran	<0.046		0.20	0.046	mg/Kg	☼	08/14/20 19:22	08/17/20 12:57	1
1,2-Dichlorobenzene	<0.047		0.20	0.047	mg/Kg	☼	08/14/20 19:22	08/17/20 12:57	1
1,3-Dichlorobenzene	<0.045		0.20	0.045	mg/Kg	☼	08/14/20 19:22	08/17/20 12:57	1
1,4-Dichlorobenzene	<0.051		0.20	0.051	mg/Kg	☼	08/14/20 19:22	08/17/20 12:57	1
3,3'-Dichlorobenzidine	<0.055		0.20	0.055	mg/Kg	☼	08/14/20 19:22	08/17/20 12:57	1
2,4-Dichlorophenol	<0.094		0.39	0.094	mg/Kg	☼	08/14/20 19:22	08/17/20 12:57	1
Diethyl phthalate	<0.067		0.20	0.067	mg/Kg	☼	08/14/20 19:22	08/17/20 12:57	1
2,4-Dimethylphenol	<0.15		0.39	0.15	mg/Kg	☼	08/14/20 19:22	08/17/20 12:57	1
Dimethyl phthalate	<0.052		0.20	0.052	mg/Kg	☼	08/14/20 19:22	08/17/20 12:57	1
Di-n-butyl phthalate	<0.060		0.20	0.060	mg/Kg	☼	08/14/20 19:22	08/17/20 12:57	1
4,6-Dinitro-2-methylphenol	<0.32		0.80	0.32	mg/Kg	☼	08/14/20 19:22	08/17/20 12:57	1
2,4-Dinitrophenol	<0.70		0.80	0.70	mg/Kg	☼	08/14/20 19:22	08/17/20 12:57	1
2,4-Dinitrotoluene	<0.063		0.20	0.063	mg/Kg	☼	08/14/20 19:22	08/17/20 12:57	1
2,6-Dinitrotoluene	<0.078		0.20	0.078	mg/Kg	☼	08/14/20 19:22	08/17/20 12:57	1
Di-n-octyl phthalate	<0.065		0.20	0.065	mg/Kg	☼	08/14/20 19:22	08/17/20 12:57	1
Fluoranthene	0.11		0.039	0.0073	mg/Kg	☼	08/14/20 19:22	08/17/20 12:57	1
Fluorene	<0.0056		0.039	0.0056	mg/Kg	☼	08/14/20 19:22	08/17/20 12:57	1
Hexachlorobenzene	<0.0092		0.080	0.0092	mg/Kg	☼	08/14/20 19:22	08/17/20 12:57	1
Hexachlorobutadiene	<0.062		0.20	0.062	mg/Kg	☼	08/14/20 19:22	08/17/20 12:57	1
Hexachlorocyclopentadiene	<0.23		0.80	0.23	mg/Kg	☼	08/14/20 19:22	08/17/20 12:57	1
Hexachloroethane	<0.060		0.20	0.060	mg/Kg	☼	08/14/20 19:22	08/17/20 12:57	1
Indeno[1,2,3-cd]pyrene	<0.010		0.039	0.010	mg/Kg	☼	08/14/20 19:22	08/17/20 12:57	1
Isophorone	<0.044		0.20	0.044	mg/Kg	☼	08/14/20 19:22	08/17/20 12:57	1
2-Methylnaphthalene	0.014	J	0.080	0.0073	mg/Kg	☼	08/14/20 19:22	08/17/20 12:57	1
2-Methylphenol	<0.064		0.20	0.064	mg/Kg	☼	08/14/20 19:22	08/17/20 12:57	1
3 & 4 Methylphenol	<0.066		0.20	0.066	mg/Kg	☼	08/14/20 19:22	08/17/20 12:57	1
Naphthalene	0.0082	J	0.039	0.0061	mg/Kg	☼	08/14/20 19:22	08/17/20 12:57	1
2-Nitroaniline	<0.053		0.20	0.053	mg/Kg	☼	08/14/20 19:22	08/17/20 12:57	1
3-Nitroaniline	<0.12		0.39	0.12	mg/Kg	☼	08/14/20 19:22	08/17/20 12:57	1
4-Nitroaniline	<0.17		0.39	0.17	mg/Kg	☼	08/14/20 19:22	08/17/20 12:57	1
Nitrobenzene	<0.0099		0.039	0.0099	mg/Kg	☼	08/14/20 19:22	08/17/20 12:57	1
2-Nitrophenol	<0.094		0.39	0.094	mg/Kg	☼	08/14/20 19:22	08/17/20 12:57	1

Euofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185943-1

Client Sample ID: 2412V2-13-B02 (0-5)

Lab Sample ID: 500-185943-3

Date Collected: 08/04/20 09:35

Matrix: Solid

Date Received: 08/04/20 17:40

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	<0.38		0.80	0.38	mg/Kg	☼	08/14/20 19:22	08/17/20 12:57	1
N-Nitrosodi-n-propylamine	<0.048		0.080	0.048	mg/Kg	☼	08/14/20 19:22	08/17/20 12:57	1
N-Nitrosodiphenylamine	<0.047		0.20	0.047	mg/Kg	☼	08/14/20 19:22	08/17/20 12:57	1
2,2'-oxybis[1-chloropropane]	<0.046		0.20	0.046	mg/Kg	☼	08/14/20 19:22	08/17/20 12:57	1
Pentachlorophenol	<0.64		0.80	0.64	mg/Kg	☼	08/14/20 19:22	08/17/20 12:57	1
Phenanthrene	0.051		0.039	0.0055	mg/Kg	☼	08/14/20 19:22	08/17/20 12:57	1
Phenol	<0.088		0.20	0.088	mg/Kg	☼	08/14/20 19:22	08/17/20 12:57	1
Pyrene	0.084		0.039	0.0079	mg/Kg	☼	08/14/20 19:22	08/17/20 12:57	1
1,2,4-Trichlorobenzene	<0.043		0.20	0.043	mg/Kg	☼	08/14/20 19:22	08/17/20 12:57	1
2,4,5-Trichlorophenol	<0.090		0.39	0.090	mg/Kg	☼	08/14/20 19:22	08/17/20 12:57	1
2,4,6-Trichlorophenol	<0.14		0.39	0.14	mg/Kg	☼	08/14/20 19:22	08/17/20 12:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	91		43 - 145	08/14/20 19:22	08/17/20 12:57	1
2-Fluorophenol	83		31 - 166	08/14/20 19:22	08/17/20 12:57	1
Nitrobenzene-d5	69		37 - 147	08/14/20 19:22	08/17/20 12:57	1
Phenol-d5	71		30 - 153	08/14/20 19:22	08/17/20 12:57	1
Terphenyl-d14	108		42 - 157	08/14/20 19:22	08/17/20 12:57	1
2,4,6-Tribromophenol	114		31 - 143	08/14/20 19:22	08/17/20 12:57	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	☼	08/11/20 17:27	08/12/20 18:49	1
Arsenic	7.2		0.57	0.19	mg/Kg	☼	08/11/20 17:27	08/12/20 18:49	1
Barium	110		0.57	0.065	mg/Kg	☼	08/11/20 17:27	08/12/20 18:49	1
Beryllium	0.78		0.23	0.053	mg/Kg	☼	08/11/20 17:27	08/12/20 18:49	1
Cadmium	0.38	B	0.11	0.020	mg/Kg	☼	08/11/20 17:27	08/12/20 18:49	1
Chromium	13	B	0.57	0.28	mg/Kg	☼	08/11/20 17:27	08/12/20 18:49	1
Cobalt	8.4		0.57	0.15	mg/Kg	☼	08/11/20 17:27	08/13/20 01:14	2
Copper	12		0.57	0.16	mg/Kg	☼	08/11/20 17:27	08/12/20 18:49	1
Iron	17000		11	5.9	mg/Kg	☼	08/11/20 17:27	08/12/20 18:49	1
Lead	72		0.28	0.13	mg/Kg	☼	08/11/20 17:27	08/12/20 18:49	1
Magnesium	9100		5.7	2.8	mg/Kg	☼	08/11/20 17:27	08/12/20 18:49	1
Calcium	16000	B	11	1.9	mg/Kg	☼	08/11/20 17:27	08/12/20 18:49	1
Manganese	740		0.57	0.082	mg/Kg	☼	08/11/20 17:27	08/12/20 18:49	1
Nickel	17		0.57	0.16	mg/Kg	☼	08/11/20 17:27	08/12/20 18:49	1
Selenium	0.36	J	0.57	0.33	mg/Kg	☼	08/11/20 17:27	08/12/20 18:49	1
Silver	<0.073		0.28	0.073	mg/Kg	☼	08/11/20 17:27	08/12/20 18:49	1
Thallium	0.47	J	0.57	0.28	mg/Kg	☼	08/11/20 17:27	08/12/20 18:49	1
Vanadium	25		0.28	0.067	mg/Kg	☼	08/11/20 17:27	08/12/20 18:49	1
Zinc	75		1.1	0.50	mg/Kg	☼	08/11/20 17:27	08/12/20 18:49	1
Potassium	1200		28	10	mg/Kg	☼	08/11/20 17:27	08/12/20 18:49	1
Sodium	98		57	8.4	mg/Kg	☼	08/11/20 17:27	08/12/20 18:49	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/17/20 17:19	08/18/20 05:45	1
Barium	0.43	J	0.50	0.050	mg/L		08/17/20 17:19	08/18/20 05:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/17/20 17:19	08/18/20 05:45	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/17/20 17:19	08/18/20 05:45	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185943-1

Client Sample ID: 2412V2-13-B02 (0-5)

Lab Sample ID: 500-185943-3

Date Collected: 08/04/20 09:35

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	270		5.0	0.50	mg/L		08/17/20 17:19	08/18/20 05:45	1
Chromium	<0.010		0.025	0.010	mg/L		08/17/20 17:19	08/18/20 05:45	1
Cobalt	<0.010		0.025	0.010	mg/L		08/17/20 17:19	08/18/20 05:45	1
Copper	<0.010		0.025	0.010	mg/L		08/17/20 17:19	08/18/20 05:45	1
Iron	<0.20		0.40	0.20	mg/L		08/17/20 17:19	08/18/20 05:45	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/17/20 17:19	08/18/20 05:45	1
Magnesium	110		2.5	0.50	mg/L		08/17/20 17:19	08/18/20 05:45	1
Manganese	0.51		0.025	0.010	mg/L		08/17/20 17:19	08/18/20 05:45	1
Nickel	<0.010		0.025	0.010	mg/L		08/17/20 17:19	08/18/20 05:45	1
Potassium	1.6 J		2.5	0.50	mg/L		08/17/20 17:19	08/18/20 05:45	1
Selenium	<0.020		0.050	0.020	mg/L		08/17/20 17:19	08/18/20 05:45	1
Silver	<0.010		0.025	0.010	mg/L		08/17/20 17:19	08/18/20 05:45	1
Vanadium	<0.010		0.025	0.010	mg/L		08/17/20 17:19	08/18/20 05:45	1
Zinc	0.051 J B *		0.50	0.020	mg/L		08/17/20 17:19	08/18/20 05:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.16		0.025	0.010	mg/L		08/17/20 17:16	08/18/20 10:27	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		08/17/20 17:19	08/18/20 10:37	1
Thallium	<0.0020	*	0.0020	0.0020	mg/L		08/17/20 17:19	08/18/20 10:37	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/18/20 09:55	08/19/20 08:11	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.037		0.019	0.0062	mg/Kg	☼	08/11/20 14:25	08/12/20 09:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.15		0.30	0.15	mg/Kg	☼	08/14/20 15:05	08/17/20 16:06	1
pH	7.9		0.2	0.2	SU			08/11/20 17:39	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185943-1

Client Sample ID: 2412V2-13-B02 (0-5) Dup

Lab Sample ID: 500-185943-4

Date Collected: 08/04/20 09:40

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 82.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0071		0.016	0.0071	mg/Kg	☼	08/05/20 08:30	08/13/20 13:21	1
Benzene	<0.00042		0.0016	0.00042	mg/Kg	☼	08/05/20 08:30	08/13/20 13:21	1
Bromodichloromethane	<0.00033		0.0016	0.00033	mg/Kg	☼	08/05/20 08:30	08/13/20 13:21	1
Bromoform	<0.00048		0.0016	0.00048	mg/Kg	☼	08/05/20 08:30	08/13/20 13:21	1
Bromomethane	<0.0015		0.0041	0.0015	mg/Kg	☼	08/05/20 08:30	08/13/20 13:21	1
2-Butanone (MEK)	<0.0018		0.0041	0.0018	mg/Kg	☼	08/05/20 08:30	08/13/20 13:21	1
Carbon disulfide	<0.00085		0.0041	0.00085	mg/Kg	☼	08/05/20 08:30	08/13/20 13:21	1
Carbon tetrachloride	<0.00047		0.0016	0.00047	mg/Kg	☼	08/05/20 08:30	08/13/20 13:21	1
Chlorobenzene	<0.00060		0.0016	0.00060	mg/Kg	☼	08/05/20 08:30	08/13/20 13:21	1
Chloroethane	<0.0012 *		0.0041	0.0012	mg/Kg	☼	08/05/20 08:30	08/13/20 13:21	1
Chloroform	<0.00057		0.0016	0.00057	mg/Kg	☼	08/05/20 08:30	08/13/20 13:21	1
Chloromethane	<0.0016		0.0041	0.0016	mg/Kg	☼	08/05/20 08:30	08/13/20 13:21	1
cis-1,2-Dichloroethene	<0.00046		0.0016	0.00046	mg/Kg	☼	08/05/20 08:30	08/13/20 13:21	1
cis-1,3-Dichloropropene	<0.00049		0.0016	0.00049	mg/Kg	☼	08/05/20 08:30	08/13/20 13:21	1
Dibromochloromethane	<0.00053		0.0016	0.00053	mg/Kg	☼	08/05/20 08:30	08/13/20 13:21	1
1,1-Dichloroethane	<0.00056		0.0016	0.00056	mg/Kg	☼	08/05/20 08:30	08/13/20 13:21	1
1,2-Dichloroethane	<0.0013		0.0041	0.0013	mg/Kg	☼	08/05/20 08:30	08/13/20 13:21	1
1,1-Dichloroethene	<0.00056		0.0016	0.00056	mg/Kg	☼	08/05/20 08:30	08/13/20 13:21	1
1,2-Dichloropropane	<0.00042		0.0016	0.00042	mg/Kg	☼	08/05/20 08:30	08/13/20 13:21	1
1,3-Dichloropropane, Total	<0.00057		0.0016	0.00057	mg/Kg	☼	08/05/20 08:30	08/13/20 13:21	1
Ethylbenzene	<0.00078		0.0016	0.00078	mg/Kg	☼	08/05/20 08:30	08/13/20 13:21	1
2-Hexanone	<0.0013		0.0041	0.0013	mg/Kg	☼	08/05/20 08:30	08/13/20 13:21	1
Methylene Chloride	<0.0016		0.0041	0.0016	mg/Kg	☼	08/05/20 08:30	08/13/20 13:21	1
4-Methyl-2-pentanone (MIBK)	<0.0012		0.0041	0.0012	mg/Kg	☼	08/05/20 08:30	08/13/20 13:21	1
Methyl tert-butyl ether	<0.00048		0.0016	0.00048	mg/Kg	☼	08/05/20 08:30	08/13/20 13:21	1
Styrene	<0.00049		0.0016	0.00049	mg/Kg	☼	08/05/20 08:30	08/13/20 13:21	1
1,1,2,2-Tetrachloroethane	<0.00052		0.0016	0.00052	mg/Kg	☼	08/05/20 08:30	08/13/20 13:21	1
Tetrachloroethene	<0.00056		0.0016	0.00056	mg/Kg	☼	08/05/20 08:30	08/13/20 13:21	1
Toluene	<0.00041		0.0016	0.00041	mg/Kg	☼	08/05/20 08:30	08/13/20 13:21	1
trans-1,2-Dichloroethene	<0.00072		0.0016	0.00072	mg/Kg	☼	08/05/20 08:30	08/13/20 13:21	1
trans-1,3-Dichloropropene	<0.00057		0.0016	0.00057	mg/Kg	☼	08/05/20 08:30	08/13/20 13:21	1
1,1,1-Trichloroethane	<0.00055		0.0016	0.00055	mg/Kg	☼	08/05/20 08:30	08/13/20 13:21	1
1,1,2-Trichloroethane	<0.00070		0.0016	0.00070	mg/Kg	☼	08/05/20 08:30	08/13/20 13:21	1
Trichloroethene	<0.00055		0.0016	0.00055	mg/Kg	☼	08/05/20 08:30	08/13/20 13:21	1
Vinyl acetate	<0.0014		0.0041	0.0014	mg/Kg	☼	08/05/20 08:30	08/13/20 13:21	1
Vinyl chloride	<0.00072		0.0016	0.00072	mg/Kg	☼	08/05/20 08:30	08/13/20 13:21	1
Xylenes, Total	<0.00052		0.0033	0.00052	mg/Kg	☼	08/05/20 08:30	08/13/20 13:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		75 - 131	08/05/20 08:30	08/13/20 13:21	1
Dibromofluoromethane	101		75 - 126	08/05/20 08:30	08/13/20 13:21	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	08/05/20 08:30	08/13/20 13:21	1
Toluene-d8 (Surr)	93		75 - 124	08/05/20 08:30	08/13/20 13:21	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	☼	08/14/20 19:22	08/17/20 13:24	1
Acenaphthylene	<0.0053		0.040	0.0053	mg/Kg	☼	08/14/20 19:22	08/17/20 13:24	1
Anthracene	0.011	J	0.040	0.0067	mg/Kg	☼	08/14/20 19:22	08/17/20 13:24	1
Benzo[a]anthracene	0.056		0.040	0.0054	mg/Kg	☼	08/14/20 19:22	08/17/20 13:24	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185943-1

Client Sample ID: 2412V2-13-B02 (0-5) Dup

Lab Sample ID: 500-185943-4

Date Collected: 08/04/20 09:40

Matrix: Solid

Date Received: 08/04/20 17:40

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	0.068		0.040	0.0077	mg/Kg	☼	08/14/20 19:22	08/17/20 13:24	1
Benzo[b]fluoranthene	0.10		0.040	0.0086	mg/Kg	☼	08/14/20 19:22	08/17/20 13:24	1
Benzo[g,h,i]perylene	0.032	J	0.040	0.013	mg/Kg	☼	08/14/20 19:22	08/17/20 13:24	1
Benzo[k]fluoranthene	0.034	J	0.040	0.012	mg/Kg	☼	08/14/20 19:22	08/17/20 13:24	1
Bis(2-chloroethoxy)methane	<0.041		0.20	0.041	mg/Kg	☼	08/14/20 19:22	08/17/20 13:24	1
Bis(2-chloroethyl)ether	<0.060		0.20	0.060	mg/Kg	☼	08/14/20 19:22	08/17/20 13:24	1
Bis(2-ethylhexyl) phthalate	<0.073		0.20	0.073	mg/Kg	☼	08/14/20 19:22	08/17/20 13:24	1
4-Bromophenyl phenyl ether	<0.053		0.20	0.053	mg/Kg	☼	08/14/20 19:22	08/17/20 13:24	1
Butyl benzyl phthalate	<0.076		0.20	0.076	mg/Kg	☼	08/14/20 19:22	08/17/20 13:24	1
Carbazole	<0.10		0.20	0.10	mg/Kg	☼	08/14/20 19:22	08/17/20 13:24	1
4-Chloroaniline	<0.19		0.80	0.19	mg/Kg	☼	08/14/20 19:22	08/17/20 13:24	1
4-Chloro-3-methylphenol	<0.14		0.40	0.14	mg/Kg	☼	08/14/20 19:22	08/17/20 13:24	1
2-Chloronaphthalene	<0.044		0.20	0.044	mg/Kg	☼	08/14/20 19:22	08/17/20 13:24	1
2-Chlorophenol	<0.068		0.20	0.068	mg/Kg	☼	08/14/20 19:22	08/17/20 13:24	1
4-Chlorophenyl phenyl ether	<0.047		0.20	0.047	mg/Kg	☼	08/14/20 19:22	08/17/20 13:24	1
Chrysene	0.066		0.040	0.011	mg/Kg	☼	08/14/20 19:22	08/17/20 13:24	1
Dibenz(a,h)anthracene	<0.0077		0.040	0.0077	mg/Kg	☼	08/14/20 19:22	08/17/20 13:24	1
Dibenzofuran	<0.047		0.20	0.047	mg/Kg	☼	08/14/20 19:22	08/17/20 13:24	1
1,2-Dichlorobenzene	<0.048		0.20	0.048	mg/Kg	☼	08/14/20 19:22	08/17/20 13:24	1
1,3-Dichlorobenzene	<0.045		0.20	0.045	mg/Kg	☼	08/14/20 19:22	08/17/20 13:24	1
1,4-Dichlorobenzene	<0.051		0.20	0.051	mg/Kg	☼	08/14/20 19:22	08/17/20 13:24	1
3,3'-Dichlorobenzidine	<0.056		0.20	0.056	mg/Kg	☼	08/14/20 19:22	08/17/20 13:24	1
2,4-Dichlorophenol	<0.095		0.40	0.095	mg/Kg	☼	08/14/20 19:22	08/17/20 13:24	1
Diethyl phthalate	<0.068		0.20	0.068	mg/Kg	☼	08/14/20 19:22	08/17/20 13:24	1
2,4-Dimethylphenol	<0.15		0.40	0.15	mg/Kg	☼	08/14/20 19:22	08/17/20 13:24	1
Dimethyl phthalate	<0.052		0.20	0.052	mg/Kg	☼	08/14/20 19:22	08/17/20 13:24	1
Di-n-butyl phthalate	<0.061		0.20	0.061	mg/Kg	☼	08/14/20 19:22	08/17/20 13:24	1
4,6-Dinitro-2-methylphenol	<0.32		0.80	0.32	mg/Kg	☼	08/14/20 19:22	08/17/20 13:24	1
2,4-Dinitrophenol	<0.70		0.80	0.70	mg/Kg	☼	08/14/20 19:22	08/17/20 13:24	1
2,4-Dinitrotoluene	<0.063		0.20	0.063	mg/Kg	☼	08/14/20 19:22	08/17/20 13:24	1
2,6-Dinitrotoluene	<0.078		0.20	0.078	mg/Kg	☼	08/14/20 19:22	08/17/20 13:24	1
Di-n-octyl phthalate	<0.065		0.20	0.065	mg/Kg	☼	08/14/20 19:22	08/17/20 13:24	1
Fluoranthene	0.12		0.040	0.0074	mg/Kg	☼	08/14/20 19:22	08/17/20 13:24	1
Fluorene	<0.0056		0.040	0.0056	mg/Kg	☼	08/14/20 19:22	08/17/20 13:24	1
Hexachlorobenzene	<0.0092		0.080	0.0092	mg/Kg	☼	08/14/20 19:22	08/17/20 13:24	1
Hexachlorobutadiene	<0.063		0.20	0.063	mg/Kg	☼	08/14/20 19:22	08/17/20 13:24	1
Hexachlorocyclopentadiene	<0.23		0.80	0.23	mg/Kg	☼	08/14/20 19:22	08/17/20 13:24	1
Hexachloroethane	<0.061		0.20	0.061	mg/Kg	☼	08/14/20 19:22	08/17/20 13:24	1
Indeno[1,2,3-cd]pyrene	0.029	J	0.040	0.010	mg/Kg	☼	08/14/20 19:22	08/17/20 13:24	1
Isophorone	<0.045		0.20	0.045	mg/Kg	☼	08/14/20 19:22	08/17/20 13:24	1
2-Methylnaphthalene	0.012	J	0.080	0.0073	mg/Kg	☼	08/14/20 19:22	08/17/20 13:24	1
2-Methylphenol	<0.064		0.20	0.064	mg/Kg	☼	08/14/20 19:22	08/17/20 13:24	1
3 & 4 Methylphenol	<0.066		0.20	0.066	mg/Kg	☼	08/14/20 19:22	08/17/20 13:24	1
Naphthalene	0.0092	J	0.040	0.0061	mg/Kg	☼	08/14/20 19:22	08/17/20 13:24	1
2-Nitroaniline	<0.054		0.20	0.054	mg/Kg	☼	08/14/20 19:22	08/17/20 13:24	1
3-Nitroaniline	<0.12		0.40	0.12	mg/Kg	☼	08/14/20 19:22	08/17/20 13:24	1
4-Nitroaniline	<0.17		0.40	0.17	mg/Kg	☼	08/14/20 19:22	08/17/20 13:24	1
Nitrobenzene	<0.0099		0.040	0.0099	mg/Kg	☼	08/14/20 19:22	08/17/20 13:24	1
2-Nitrophenol	<0.094		0.40	0.094	mg/Kg	☼	08/14/20 19:22	08/17/20 13:24	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185943-1

Client Sample ID: 2412V2-13-B02 (0-5) Dup

Lab Sample ID: 500-185943-4

Date Collected: 08/04/20 09:40

Matrix: Solid

Date Received: 08/04/20 17:40

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	<0.38		0.80	0.38	mg/Kg	☼	08/14/20 19:22	08/17/20 13:24	1
N-Nitrosodi-n-propylamine	<0.049		0.080	0.049	mg/Kg	☼	08/14/20 19:22	08/17/20 13:24	1
N-Nitrosodiphenylamine	<0.047		0.20	0.047	mg/Kg	☼	08/14/20 19:22	08/17/20 13:24	1
2,2'-oxybis[1-chloropropane]	<0.046		0.20	0.046	mg/Kg	☼	08/14/20 19:22	08/17/20 13:24	1
Pentachlorophenol	<0.64		0.80	0.64	mg/Kg	☼	08/14/20 19:22	08/17/20 13:24	1
Phenanthrene	0.054		0.040	0.0056	mg/Kg	☼	08/14/20 19:22	08/17/20 13:24	1
Phenol	<0.089		0.20	0.089	mg/Kg	☼	08/14/20 19:22	08/17/20 13:24	1
Pyrene	0.090		0.040	0.0079	mg/Kg	☼	08/14/20 19:22	08/17/20 13:24	1
1,2,4-Trichlorobenzene	<0.043		0.20	0.043	mg/Kg	☼	08/14/20 19:22	08/17/20 13:24	1
2,4,5-Trichlorophenol	<0.091		0.40	0.091	mg/Kg	☼	08/14/20 19:22	08/17/20 13:24	1
2,4,6-Trichlorophenol	<0.14		0.40	0.14	mg/Kg	☼	08/14/20 19:22	08/17/20 13:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	91		43 - 145	08/14/20 19:22	08/17/20 13:24	1
2-Fluorophenol	84		31 - 166	08/14/20 19:22	08/17/20 13:24	1
Nitrobenzene-d5	70		37 - 147	08/14/20 19:22	08/17/20 13:24	1
Phenol-d5	71		30 - 153	08/14/20 19:22	08/17/20 13:24	1
Terphenyl-d14	107		42 - 157	08/14/20 19:22	08/17/20 13:24	1
2,4,6-Tribromophenol	112		31 - 143	08/14/20 19:22	08/17/20 13:24	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.49	J B	1.2	0.23	mg/Kg	☼	08/11/20 17:27	08/12/20 18:53	1
Arsenic	3.6		0.59	0.20	mg/Kg	☼	08/11/20 17:27	08/12/20 18:53	1
Barium	72		0.59	0.067	mg/Kg	☼	08/11/20 17:27	08/12/20 18:53	1
Beryllium	0.55		0.24	0.055	mg/Kg	☼	08/11/20 17:27	08/12/20 18:53	1
Cadmium	0.18	B	0.12	0.021	mg/Kg	☼	08/11/20 17:27	08/12/20 18:53	1
Chromium	13	B	0.59	0.29	mg/Kg	☼	08/11/20 17:27	08/12/20 18:53	1
Cobalt	4.9		0.29	0.077	mg/Kg	☼	08/11/20 17:27	08/12/20 18:53	1
Copper	9.5		0.59	0.16	mg/Kg	☼	08/11/20 17:27	08/12/20 18:53	1
Iron	13000		12	6.1	mg/Kg	☼	08/11/20 17:27	08/12/20 18:53	1
Lead	18		0.29	0.14	mg/Kg	☼	08/11/20 17:27	08/12/20 18:53	1
Magnesium	3300		5.9	2.9	mg/Kg	☼	08/11/20 17:27	08/12/20 18:53	1
Calcium	5400	B	12	2.0	mg/Kg	☼	08/11/20 17:27	08/12/20 18:53	1
Manganese	320		0.59	0.085	mg/Kg	☼	08/11/20 17:27	08/12/20 18:53	1
Nickel	13		0.59	0.17	mg/Kg	☼	08/11/20 17:27	08/12/20 18:53	1
Selenium	<0.35		0.59	0.35	mg/Kg	☼	08/11/20 17:27	08/12/20 18:53	1
Silver	<0.076		0.29	0.076	mg/Kg	☼	08/11/20 17:27	08/12/20 18:53	1
Thallium	0.34	J	0.59	0.29	mg/Kg	☼	08/11/20 17:27	08/12/20 18:53	1
Vanadium	20		0.29	0.069	mg/Kg	☼	08/11/20 17:27	08/12/20 18:53	1
Zinc	52		1.2	0.52	mg/Kg	☼	08/11/20 17:27	08/12/20 18:53	1
Potassium	1200		29	10	mg/Kg	☼	08/11/20 17:27	08/12/20 18:53	1
Sodium	60		59	8.7	mg/Kg	☼	08/11/20 17:27	08/12/20 18:53	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		08/17/20 17:19	08/18/20 05:49	1
Barium	0.30	J	0.50	0.050	mg/L		08/17/20 17:19	08/18/20 05:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/17/20 17:19	08/18/20 05:49	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/17/20 17:19	08/18/20 05:49	1

Euofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185943-1

Client Sample ID: 2412V2-13-B02 (0-5) Dup

Lab Sample ID: 500-185943-4

Date Collected: 08/04/20 09:40

Matrix: Solid

Date Received: 08/04/20 17:40

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		08/17/20 17:19	08/18/20 05:49	1
Chromium	<0.010		0.025	0.010	mg/L		08/17/20 17:19	08/18/20 05:49	1
Cobalt	<0.010		0.025	0.010	mg/L		08/17/20 17:19	08/18/20 05:49	1
Copper	<0.010		0.025	0.010	mg/L		08/17/20 17:19	08/18/20 05:49	1
Iron	<0.20		0.40	0.20	mg/L		08/17/20 17:19	08/18/20 05:49	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/17/20 17:19	08/18/20 05:49	1
Magnesium	55		2.5	0.50	mg/L		08/17/20 17:19	08/18/20 05:49	1
Manganese	0.14		0.025	0.010	mg/L		08/17/20 17:19	08/18/20 05:49	1
Nickel	<0.010		0.025	0.010	mg/L		08/17/20 17:19	08/18/20 05:49	1
Potassium	1.6 J		2.5	0.50	mg/L		08/17/20 17:19	08/18/20 05:49	1
Selenium	<0.020		0.050	0.020	mg/L		08/17/20 17:19	08/18/20 05:49	1
Silver	<0.010		0.025	0.010	mg/L		08/17/20 17:19	08/18/20 05:49	1
Vanadium	<0.010		0.025	0.010	mg/L		08/17/20 17:19	08/18/20 05:49	1
Zinc	0.026 J B *		0.50	0.020	mg/L		08/17/20 17:19	08/18/20 05:49	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		08/17/20 17:19	08/18/20 10:39	1
Thallium	<0.0020	*	0.0020	0.0020	mg/L		08/17/20 17:19	08/18/20 10:39	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/18/20 09:55	08/19/20 08:13	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.018	0.0061	mg/Kg	☼	08/11/20 14:25	08/12/20 09:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.16		0.32	0.16	mg/Kg	☼	08/14/20 15:05	08/17/20 16:09	1
pH	7.7		0.2	0.2	SU			08/11/20 17:42	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185943-1

Client Sample ID: 2412V2-13-B02 (5-7.5)

Lab Sample ID: 500-185943-5

Date Collected: 08/04/20 09:45

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 90.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0068		0.016	0.0068	mg/Kg	☼	08/05/20 08:30	08/13/20 13:47	1
Benzene	<0.00040		0.0016	0.00040	mg/Kg	☼	08/05/20 08:30	08/13/20 13:47	1
Bromodichloromethane	<0.00032		0.0016	0.00032	mg/Kg	☼	08/05/20 08:30	08/13/20 13:47	1
Bromoform	<0.00045		0.0016	0.00045	mg/Kg	☼	08/05/20 08:30	08/13/20 13:47	1
Bromomethane	<0.0015		0.0039	0.0015	mg/Kg	☼	08/05/20 08:30	08/13/20 13:47	1
2-Butanone (MEK)	<0.0017		0.0039	0.0017	mg/Kg	☼	08/05/20 08:30	08/13/20 13:47	1
Carbon disulfide	<0.00081		0.0039	0.00081	mg/Kg	☼	08/05/20 08:30	08/13/20 13:47	1
Carbon tetrachloride	<0.00045		0.0016	0.00045	mg/Kg	☼	08/05/20 08:30	08/13/20 13:47	1
Chlorobenzene	<0.00057		0.0016	0.00057	mg/Kg	☼	08/05/20 08:30	08/13/20 13:47	1
Chloroethane	<0.0012 *		0.0039	0.0012	mg/Kg	☼	08/05/20 08:30	08/13/20 13:47	1
Chloroform	<0.00054		0.0016	0.00054	mg/Kg	☼	08/05/20 08:30	08/13/20 13:47	1
Chloromethane	<0.0016		0.0039	0.0016	mg/Kg	☼	08/05/20 08:30	08/13/20 13:47	1
cis-1,2-Dichloroethene	<0.00043		0.0016	0.00043	mg/Kg	☼	08/05/20 08:30	08/13/20 13:47	1
cis-1,3-Dichloropropene	<0.00047		0.0016	0.00047	mg/Kg	☼	08/05/20 08:30	08/13/20 13:47	1
Dibromochloromethane	<0.00051		0.0016	0.00051	mg/Kg	☼	08/05/20 08:30	08/13/20 13:47	1
1,1-Dichloroethane	<0.00053		0.0016	0.00053	mg/Kg	☼	08/05/20 08:30	08/13/20 13:47	1
1,2-Dichloroethane	<0.0012		0.0039	0.0012	mg/Kg	☼	08/05/20 08:30	08/13/20 13:47	1
1,1-Dichloroethene	<0.00053		0.0016	0.00053	mg/Kg	☼	08/05/20 08:30	08/13/20 13:47	1
1,2-Dichloropropane	<0.00040		0.0016	0.00040	mg/Kg	☼	08/05/20 08:30	08/13/20 13:47	1
1,3-Dichloropropane, Total	<0.00055		0.0016	0.00055	mg/Kg	☼	08/05/20 08:30	08/13/20 13:47	1
Ethylbenzene	<0.00074		0.0016	0.00074	mg/Kg	☼	08/05/20 08:30	08/13/20 13:47	1
2-Hexanone	<0.0012		0.0039	0.0012	mg/Kg	☼	08/05/20 08:30	08/13/20 13:47	1
Methylene Chloride	<0.0015		0.0039	0.0015	mg/Kg	☼	08/05/20 08:30	08/13/20 13:47	1
4-Methyl-2-pentanone (MIBK)	<0.0012		0.0039	0.0012	mg/Kg	☼	08/05/20 08:30	08/13/20 13:47	1
Methyl tert-butyl ether	<0.00046		0.0016	0.00046	mg/Kg	☼	08/05/20 08:30	08/13/20 13:47	1
Styrene	<0.00047		0.0016	0.00047	mg/Kg	☼	08/05/20 08:30	08/13/20 13:47	1
1,1,2,2-Tetrachloroethane	<0.00050		0.0016	0.00050	mg/Kg	☼	08/05/20 08:30	08/13/20 13:47	1
Tetrachloroethene	<0.00053		0.0016	0.00053	mg/Kg	☼	08/05/20 08:30	08/13/20 13:47	1
Toluene	<0.00039		0.0016	0.00039	mg/Kg	☼	08/05/20 08:30	08/13/20 13:47	1
trans-1,2-Dichloroethene	<0.00069		0.0016	0.00069	mg/Kg	☼	08/05/20 08:30	08/13/20 13:47	1
trans-1,3-Dichloropropene	<0.00055		0.0016	0.00055	mg/Kg	☼	08/05/20 08:30	08/13/20 13:47	1
1,1,1-Trichloroethane	<0.00052		0.0016	0.00052	mg/Kg	☼	08/05/20 08:30	08/13/20 13:47	1
1,1,2-Trichloroethane	<0.00067		0.0016	0.00067	mg/Kg	☼	08/05/20 08:30	08/13/20 13:47	1
Trichloroethene	<0.00053		0.0016	0.00053	mg/Kg	☼	08/05/20 08:30	08/13/20 13:47	1
Vinyl acetate	<0.0014		0.0039	0.0014	mg/Kg	☼	08/05/20 08:30	08/13/20 13:47	1
Vinyl chloride	<0.00069		0.0016	0.00069	mg/Kg	☼	08/05/20 08:30	08/13/20 13:47	1
Xylenes, Total	<0.00050		0.0031	0.00050	mg/Kg	☼	08/05/20 08:30	08/13/20 13:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		75 - 131	08/05/20 08:30	08/13/20 13:47	1
Dibromofluoromethane	101		75 - 126	08/05/20 08:30	08/13/20 13:47	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	08/05/20 08:30	08/13/20 13:47	1
Toluene-d8 (Surr)	94		75 - 124	08/05/20 08:30	08/13/20 13:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0063		0.035	0.0063	mg/Kg	☼	08/14/20 19:22	08/17/20 14:42	1
Acenaphthylene	<0.0046		0.035	0.0046	mg/Kg	☼	08/14/20 19:22	08/17/20 14:42	1
Anthracene	<0.0059		0.035	0.0059	mg/Kg	☼	08/14/20 19:22	08/17/20 14:42	1
Benzo[a]anthracene	0.0072	J	0.035	0.0047	mg/Kg	☼	08/14/20 19:22	08/17/20 14:42	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185943-1

Client Sample ID: 2412V2-13-B02 (5-7.5)

Lab Sample ID: 500-185943-5

Date Collected: 08/04/20 09:45

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 90.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.012	J	0.035	0.0068	mg/Kg	☼	08/14/20 19:22	08/17/20 14:42	1
Benzo[b]fluoranthene	0.012	J	0.035	0.0076	mg/Kg	☼	08/14/20 19:22	08/17/20 14:42	1
Benzo[g,h,i]perylene	<0.011		0.035	0.011	mg/Kg	☼	08/14/20 19:22	08/17/20 14:42	1
Benzo[k]fluoranthene	<0.010		0.035	0.010	mg/Kg	☼	08/14/20 19:22	08/17/20 14:42	1
Bis(2-chloroethoxy)methane	<0.036		0.18	0.036	mg/Kg	☼	08/14/20 19:22	08/17/20 14:42	1
Bis(2-chloroethyl)ether	<0.053		0.18	0.053	mg/Kg	☼	08/14/20 19:22	08/17/20 14:42	1
Bis(2-ethylhexyl) phthalate	<0.064		0.18	0.064	mg/Kg	☼	08/14/20 19:22	08/17/20 14:42	1
4-Bromophenyl phenyl ether	<0.046		0.18	0.046	mg/Kg	☼	08/14/20 19:22	08/17/20 14:42	1
Butyl benzyl phthalate	<0.067		0.18	0.067	mg/Kg	☼	08/14/20 19:22	08/17/20 14:42	1
Carbazole	<0.088		0.18	0.088	mg/Kg	☼	08/14/20 19:22	08/17/20 14:42	1
4-Chloroaniline	<0.17		0.71	0.17	mg/Kg	☼	08/14/20 19:22	08/17/20 14:42	1
4-Chloro-3-methylphenol	<0.12		0.35	0.12	mg/Kg	☼	08/14/20 19:22	08/17/20 14:42	1
2-Chloronaphthalene	<0.039		0.18	0.039	mg/Kg	☼	08/14/20 19:22	08/17/20 14:42	1
2-Chlorophenol	<0.060		0.18	0.060	mg/Kg	☼	08/14/20 19:22	08/17/20 14:42	1
4-Chlorophenyl phenyl ether	<0.041		0.18	0.041	mg/Kg	☼	08/14/20 19:22	08/17/20 14:42	1
Chrysene	0.010	J	0.035	0.0096	mg/Kg	☼	08/14/20 19:22	08/17/20 14:42	1
Dibenz(a,h)anthracene	<0.0068		0.035	0.0068	mg/Kg	☼	08/14/20 19:22	08/17/20 14:42	1
Dibenzofuran	<0.041		0.18	0.041	mg/Kg	☼	08/14/20 19:22	08/17/20 14:42	1
1,2-Dichlorobenzene	<0.042		0.18	0.042	mg/Kg	☼	08/14/20 19:22	08/17/20 14:42	1
1,3-Dichlorobenzene	<0.040		0.18	0.040	mg/Kg	☼	08/14/20 19:22	08/17/20 14:42	1
1,4-Dichlorobenzene	<0.045		0.18	0.045	mg/Kg	☼	08/14/20 19:22	08/17/20 14:42	1
3,3'-Dichlorobenzidine	<0.049		0.18	0.049	mg/Kg	☼	08/14/20 19:22	08/17/20 14:42	1
2,4-Dichlorophenol	<0.084		0.35	0.084	mg/Kg	☼	08/14/20 19:22	08/17/20 14:42	1
Diethyl phthalate	<0.060		0.18	0.060	mg/Kg	☼	08/14/20 19:22	08/17/20 14:42	1
2,4-Dimethylphenol	<0.13		0.35	0.13	mg/Kg	☼	08/14/20 19:22	08/17/20 14:42	1
Dimethyl phthalate	<0.046		0.18	0.046	mg/Kg	☼	08/14/20 19:22	08/17/20 14:42	1
Di-n-butyl phthalate	<0.054		0.18	0.054	mg/Kg	☼	08/14/20 19:22	08/17/20 14:42	1
4,6-Dinitro-2-methylphenol	<0.28		0.71	0.28	mg/Kg	☼	08/14/20 19:22	08/17/20 14:42	1
2,4-Dinitrophenol	<0.62		0.71	0.62	mg/Kg	☼	08/14/20 19:22	08/17/20 14:42	1
2,4-Dinitrotoluene	<0.056		0.18	0.056	mg/Kg	☼	08/14/20 19:22	08/17/20 14:42	1
2,6-Dinitrotoluene	<0.069		0.18	0.069	mg/Kg	☼	08/14/20 19:22	08/17/20 14:42	1
Di-n-octyl phthalate	<0.058		0.18	0.058	mg/Kg	☼	08/14/20 19:22	08/17/20 14:42	1
Fluoranthene	0.013	J	0.035	0.0065	mg/Kg	☼	08/14/20 19:22	08/17/20 14:42	1
Fluorene	<0.0050		0.035	0.0050	mg/Kg	☼	08/14/20 19:22	08/17/20 14:42	1
Hexachlorobenzene	<0.0082		0.071	0.0082	mg/Kg	☼	08/14/20 19:22	08/17/20 14:42	1
Hexachlorobutadiene	<0.055		0.18	0.055	mg/Kg	☼	08/14/20 19:22	08/17/20 14:42	1
Hexachlorocyclopentadiene	<0.20		0.71	0.20	mg/Kg	☼	08/14/20 19:22	08/17/20 14:42	1
Hexachloroethane	<0.054		0.18	0.054	mg/Kg	☼	08/14/20 19:22	08/17/20 14:42	1
Indeno[1,2,3-cd]pyrene	<0.0091		0.035	0.0091	mg/Kg	☼	08/14/20 19:22	08/17/20 14:42	1
Isophorone	<0.040		0.18	0.040	mg/Kg	☼	08/14/20 19:22	08/17/20 14:42	1
2-Methylnaphthalene	<0.0065		0.071	0.0065	mg/Kg	☼	08/14/20 19:22	08/17/20 14:42	1
2-Methylphenol	<0.057		0.18	0.057	mg/Kg	☼	08/14/20 19:22	08/17/20 14:42	1
3 & 4 Methylphenol	<0.059		0.18	0.059	mg/Kg	☼	08/14/20 19:22	08/17/20 14:42	1
Naphthalene	<0.0054		0.035	0.0054	mg/Kg	☼	08/14/20 19:22	08/17/20 14:42	1
2-Nitroaniline	<0.047		0.18	0.047	mg/Kg	☼	08/14/20 19:22	08/17/20 14:42	1
3-Nitroaniline	<0.11		0.35	0.11	mg/Kg	☼	08/14/20 19:22	08/17/20 14:42	1
4-Nitroaniline	<0.15		0.35	0.15	mg/Kg	☼	08/14/20 19:22	08/17/20 14:42	1
Nitrobenzene	<0.0088		0.035	0.0088	mg/Kg	☼	08/14/20 19:22	08/17/20 14:42	1
2-Nitrophenol	<0.083		0.35	0.083	mg/Kg	☼	08/14/20 19:22	08/17/20 14:42	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185943-1

Client Sample ID: 2412V2-13-B02 (5-7.5)

Lab Sample ID: 500-185943-5

Date Collected: 08/04/20 09:45

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 90.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.34		0.71	0.34	mg/Kg	☼	08/14/20 19:22	08/17/20 14:42	1
N-Nitrosodi-n-propylamine	<0.043		0.071	0.043	mg/Kg	☼	08/14/20 19:22	08/17/20 14:42	1
N-Nitrosodiphenylamine	<0.042		0.18	0.042	mg/Kg	☼	08/14/20 19:22	08/17/20 14:42	1
2,2'-oxybis[1-chloropropane]	<0.041		0.18	0.041	mg/Kg	☼	08/14/20 19:22	08/17/20 14:42	1
Pentachlorophenol	<0.57		0.71	0.57	mg/Kg	☼	08/14/20 19:22	08/17/20 14:42	1
Phenanthrene	<0.0049		0.035	0.0049	mg/Kg	☼	08/14/20 19:22	08/17/20 14:42	1
Phenol	<0.078		0.18	0.078	mg/Kg	☼	08/14/20 19:22	08/17/20 14:42	1
Pyrene	0.013	J	0.035	0.0070	mg/Kg	☼	08/14/20 19:22	08/17/20 14:42	1
1,2,4-Trichlorobenzene	<0.038		0.18	0.038	mg/Kg	☼	08/14/20 19:22	08/17/20 14:42	1
2,4,5-Trichlorophenol	<0.080		0.35	0.080	mg/Kg	☼	08/14/20 19:22	08/17/20 14:42	1
2,4,6-Trichlorophenol	<0.12		0.35	0.12	mg/Kg	☼	08/14/20 19:22	08/17/20 14:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	89		43 - 145	08/14/20 19:22	08/17/20 14:42	1
2-Fluorophenol	96		31 - 166	08/14/20 19:22	08/17/20 14:42	1
Nitrobenzene-d5	83		37 - 147	08/14/20 19:22	08/17/20 14:42	1
Phenol-d5	81		30 - 153	08/14/20 19:22	08/17/20 14:42	1
Terphenyl-d14	105		42 - 157	08/14/20 19:22	08/17/20 14:42	1
2,4,6-Tribromophenol	54		31 - 143	08/14/20 19:22	08/17/20 14:42	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.58	J B	1.0	0.20	mg/Kg	☼	08/11/20 17:27	08/12/20 18:57	1
Arsenic	7.4		0.52	0.18	mg/Kg	☼	08/11/20 17:27	08/12/20 18:57	1
Barium	31		0.52	0.059	mg/Kg	☼	08/11/20 17:27	08/12/20 18:57	1
Beryllium	0.32		0.21	0.048	mg/Kg	☼	08/11/20 17:27	08/12/20 18:57	1
Cadmium	0.15	B	0.10	0.019	mg/Kg	☼	08/11/20 17:27	08/12/20 18:57	1
Chromium	8.1	B	0.52	0.26	mg/Kg	☼	08/11/20 17:27	08/12/20 18:57	1
Cobalt	5.1		0.26	0.068	mg/Kg	☼	08/11/20 17:27	08/12/20 18:57	1
Copper	11		0.52	0.14	mg/Kg	☼	08/11/20 17:27	08/12/20 18:57	1
Iron	16000	B	100	54	mg/Kg	☼	08/11/20 17:27	08/13/20 01:18	10
Lead	8.6		0.26	0.12	mg/Kg	☼	08/11/20 17:27	08/12/20 18:57	1
Magnesium	42000	B	52	26	mg/Kg	☼	08/11/20 17:27	08/13/20 01:18	10
Calcium	72000	B	100	17	mg/Kg	☼	08/11/20 17:27	08/13/20 01:18	10
Manganese	420		0.52	0.075	mg/Kg	☼	08/11/20 17:27	08/12/20 18:57	1
Nickel	14		0.52	0.15	mg/Kg	☼	08/11/20 17:27	08/12/20 18:57	1
Selenium	<0.30		0.52	0.30	mg/Kg	☼	08/11/20 17:27	08/12/20 18:57	1
Silver	<0.067		0.26	0.067	mg/Kg	☼	08/11/20 17:27	08/12/20 18:57	1
Thallium	<0.26		0.52	0.26	mg/Kg	☼	08/11/20 17:27	08/12/20 18:57	1
Vanadium	18		0.26	0.061	mg/Kg	☼	08/11/20 17:27	08/12/20 18:57	1
Zinc	32		1.0	0.45	mg/Kg	☼	08/11/20 17:27	08/12/20 18:57	1
Potassium	820		26	9.1	mg/Kg	☼	08/11/20 17:27	08/12/20 18:57	1
Sodium	110		52	7.6	mg/Kg	☼	08/11/20 17:27	08/12/20 18:57	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		08/17/20 17:19	08/18/20 05:53	1
Barium	0.29	J	0.50	0.050	mg/L		08/17/20 17:19	08/18/20 05:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/17/20 17:19	08/18/20 05:53	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/17/20 17:19	08/18/20 05:53	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185943-1

Client Sample ID: 2412V2-13-B02 (5-7.5)

Lab Sample ID: 500-185943-5

Date Collected: 08/04/20 09:45

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 90.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	540		5.0	0.50	mg/L		08/17/20 17:19	08/18/20 05:53	1
Chromium	<0.010		0.025	0.010	mg/L		08/17/20 17:19	08/18/20 05:53	1
Cobalt	<0.010		0.025	0.010	mg/L		08/17/20 17:19	08/18/20 05:53	1
Copper	<0.010		0.025	0.010	mg/L		08/17/20 17:19	08/18/20 05:53	1
Iron	<0.20		0.40	0.20	mg/L		08/17/20 17:19	08/18/20 05:53	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/17/20 17:19	08/18/20 05:53	1
Magnesium	80		2.5	0.50	mg/L		08/17/20 17:19	08/18/20 05:53	1
Manganese	0.63		0.025	0.010	mg/L		08/17/20 17:19	08/18/20 05:53	1
Nickel	<0.010		0.025	0.010	mg/L		08/17/20 17:19	08/18/20 05:53	1
Potassium	1.7 J		2.5	0.50	mg/L		08/17/20 17:19	08/18/20 05:53	1
Selenium	<0.020		0.050	0.020	mg/L		08/17/20 17:19	08/18/20 05:53	1
Silver	<0.010		0.025	0.010	mg/L		08/17/20 17:19	08/18/20 05:53	1
Vanadium	<0.010		0.025	0.010	mg/L		08/17/20 17:19	08/18/20 05:53	1
Zinc	<0.020 *		0.50	0.020	mg/L		08/17/20 17:19	08/18/20 05:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.022 J		0.025	0.010	mg/L		08/17/20 17:16	08/18/20 10:35	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		08/17/20 17:19	08/18/20 10:41	1
Thallium	<0.0020 *		0.0020	0.0020	mg/L		08/17/20 17:19	08/18/20 10:41	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/18/20 09:55	08/19/20 08:15	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.014 J		0.018	0.0059	mg/Kg	☼	08/11/20 14:25	08/12/20 10:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.15		0.29	0.15	mg/Kg	☼	08/14/20 15:05	08/17/20 16:13	1
pH	8.6		0.2	0.2	SU			08/11/20 17:44	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185943-1

Client Sample ID: 2412V2-13-B03 (0-5)

Lab Sample ID: 500-185943-6

Date Collected: 08/04/20 10:45

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 82.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0066		0.015	0.0066	mg/Kg	☼	08/05/20 08:30	08/13/20 14:12	1
Benzene	<0.00039		0.0015	0.00039	mg/Kg	☼	08/05/20 08:30	08/13/20 14:12	1
Bromodichloromethane	<0.00031		0.0015	0.00031	mg/Kg	☼	08/05/20 08:30	08/13/20 14:12	1
Bromoform	<0.00044		0.0015	0.00044	mg/Kg	☼	08/05/20 08:30	08/13/20 14:12	1
Bromomethane	<0.0014		0.0038	0.0014	mg/Kg	☼	08/05/20 08:30	08/13/20 14:12	1
2-Butanone (MEK)	<0.0017		0.0038	0.0017	mg/Kg	☼	08/05/20 08:30	08/13/20 14:12	1
Carbon disulfide	<0.00079		0.0038	0.00079	mg/Kg	☼	08/05/20 08:30	08/13/20 14:12	1
Carbon tetrachloride	<0.00044		0.0015	0.00044	mg/Kg	☼	08/05/20 08:30	08/13/20 14:12	1
Chlorobenzene	<0.00056		0.0015	0.00056	mg/Kg	☼	08/05/20 08:30	08/13/20 14:12	1
Chloroethane	<0.0011 *		0.0038	0.0011	mg/Kg	☼	08/05/20 08:30	08/13/20 14:12	1
Chloroform	<0.00053		0.0015	0.00053	mg/Kg	☼	08/05/20 08:30	08/13/20 14:12	1
Chloromethane	<0.0015		0.0038	0.0015	mg/Kg	☼	08/05/20 08:30	08/13/20 14:12	1
cis-1,2-Dichloroethene	<0.00043		0.0015	0.00043	mg/Kg	☼	08/05/20 08:30	08/13/20 14:12	1
cis-1,3-Dichloropropene	<0.00046		0.0015	0.00046	mg/Kg	☼	08/05/20 08:30	08/13/20 14:12	1
Dibromochloromethane	<0.00050		0.0015	0.00050	mg/Kg	☼	08/05/20 08:30	08/13/20 14:12	1
1,1-Dichloroethane	<0.00052		0.0015	0.00052	mg/Kg	☼	08/05/20 08:30	08/13/20 14:12	1
1,2-Dichloroethane	<0.0012		0.0038	0.0012	mg/Kg	☼	08/05/20 08:30	08/13/20 14:12	1
1,1-Dichloroethene	<0.00052		0.0015	0.00052	mg/Kg	☼	08/05/20 08:30	08/13/20 14:12	1
1,2-Dichloropropane	<0.00039		0.0015	0.00039	mg/Kg	☼	08/05/20 08:30	08/13/20 14:12	1
1,3-Dichloropropane, Total	<0.00053		0.0015	0.00053	mg/Kg	☼	08/05/20 08:30	08/13/20 14:12	1
Ethylbenzene	<0.00073		0.0015	0.00073	mg/Kg	☼	08/05/20 08:30	08/13/20 14:12	1
2-Hexanone	<0.0012		0.0038	0.0012	mg/Kg	☼	08/05/20 08:30	08/13/20 14:12	1
Methylene Chloride	<0.0015		0.0038	0.0015	mg/Kg	☼	08/05/20 08:30	08/13/20 14:12	1
4-Methyl-2-pentanone (MIBK)	<0.0011		0.0038	0.0011	mg/Kg	☼	08/05/20 08:30	08/13/20 14:12	1
Methyl tert-butyl ether	<0.00045		0.0015	0.00045	mg/Kg	☼	08/05/20 08:30	08/13/20 14:12	1
Styrene	<0.00046		0.0015	0.00046	mg/Kg	☼	08/05/20 08:30	08/13/20 14:12	1
1,1,2,2-Tetrachloroethane	<0.00049		0.0015	0.00049	mg/Kg	☼	08/05/20 08:30	08/13/20 14:12	1
Tetrachloroethene	<0.00052		0.0015	0.00052	mg/Kg	☼	08/05/20 08:30	08/13/20 14:12	1
Toluene	<0.00038		0.0015	0.00038	mg/Kg	☼	08/05/20 08:30	08/13/20 14:12	1
trans-1,2-Dichloroethene	<0.00067		0.0015	0.00067	mg/Kg	☼	08/05/20 08:30	08/13/20 14:12	1
trans-1,3-Dichloropropene	<0.00053		0.0015	0.00053	mg/Kg	☼	08/05/20 08:30	08/13/20 14:12	1
1,1,1-Trichloroethane	<0.00051		0.0015	0.00051	mg/Kg	☼	08/05/20 08:30	08/13/20 14:12	1
1,1,2-Trichloroethane	<0.00065		0.0015	0.00065	mg/Kg	☼	08/05/20 08:30	08/13/20 14:12	1
Trichloroethene	<0.00051		0.0015	0.00051	mg/Kg	☼	08/05/20 08:30	08/13/20 14:12	1
Vinyl acetate	<0.0013		0.0038	0.0013	mg/Kg	☼	08/05/20 08:30	08/13/20 14:12	1
Vinyl chloride	<0.00067		0.0015	0.00067	mg/Kg	☼	08/05/20 08:30	08/13/20 14:12	1
Xylenes, Total	<0.00049		0.0030	0.00049	mg/Kg	☼	08/05/20 08:30	08/13/20 14:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		75 - 131	08/05/20 08:30	08/13/20 14:12	1
Dibromofluoromethane	101		75 - 126	08/05/20 08:30	08/13/20 14:12	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	08/05/20 08:30	08/13/20 14:12	1
Toluene-d8 (Surr)	93		75 - 124	08/05/20 08:30	08/13/20 14:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.0078	J	0.039	0.0070	mg/Kg	☼	08/14/20 19:22	08/17/20 16:32	1
Acenaphthylene	0.0079	J	0.039	0.0051	mg/Kg	☼	08/14/20 19:22	08/17/20 16:32	1
Anthracene	0.027	J	0.039	0.0065	mg/Kg	☼	08/14/20 19:22	08/17/20 16:32	1
Benzo[a]anthracene	0.20		0.039	0.0052	mg/Kg	☼	08/14/20 19:22	08/17/20 16:32	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185943-1

Client Sample ID: 2412V2-13-B03 (0-5)

Lab Sample ID: 500-185943-6

Date Collected: 08/04/20 10:45

Matrix: Solid

Date Received: 08/04/20 17:40

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	0.24		0.039	0.0075	mg/Kg	☼	08/14/20 19:22	08/17/20 16:32	1
Benzo[b]fluoranthene	0.40		0.039	0.0084	mg/Kg	☼	08/14/20 19:22	08/17/20 16:32	1
Benzo[g,h,i]perylene	0.11	F1	0.039	0.013	mg/Kg	☼	08/14/20 19:22	08/17/20 16:32	1
Benzo[k]fluoranthene	0.14		0.039	0.011	mg/Kg	☼	08/14/20 19:22	08/17/20 16:32	1
Bis(2-chloroethoxy)methane	<0.040	F1	0.20	0.040	mg/Kg	☼	08/14/20 19:22	08/17/20 16:32	1
Bis(2-chloroethyl)ether	<0.058		0.20	0.058	mg/Kg	☼	08/14/20 19:22	08/17/20 16:32	1
Bis(2-ethylhexyl) phthalate	<0.071		0.20	0.071	mg/Kg	☼	08/14/20 19:22	08/17/20 16:32	1
4-Bromophenyl phenyl ether	<0.051		0.20	0.051	mg/Kg	☼	08/14/20 19:22	08/17/20 16:32	1
Butyl benzyl phthalate	<0.074		0.20	0.074	mg/Kg	☼	08/14/20 19:22	08/17/20 16:32	1
Carbazole	<0.097		0.20	0.097	mg/Kg	☼	08/14/20 19:22	08/17/20 16:32	1
4-Chloroaniline	<0.18		0.78	0.18	mg/Kg	☼	08/14/20 19:22	08/17/20 16:32	1
4-Chloro-3-methylphenol	<0.13		0.39	0.13	mg/Kg	☼	08/14/20 19:22	08/17/20 16:32	1
2-Chloronaphthalene	<0.043		0.20	0.043	mg/Kg	☼	08/14/20 19:22	08/17/20 16:32	1
2-Chlorophenol	<0.066		0.20	0.066	mg/Kg	☼	08/14/20 19:22	08/17/20 16:32	1
4-Chlorophenyl phenyl ether	<0.045		0.20	0.045	mg/Kg	☼	08/14/20 19:22	08/17/20 16:32	1
Chrysene	0.23		0.039	0.011	mg/Kg	☼	08/14/20 19:22	08/17/20 16:32	1
Dibenz(a,h)anthracene	0.030	J F1	0.039	0.0075	mg/Kg	☼	08/14/20 19:22	08/17/20 16:32	1
Dibenzofuran	<0.045		0.20	0.045	mg/Kg	☼	08/14/20 19:22	08/17/20 16:32	1
1,2-Dichlorobenzene	<0.046		0.20	0.046	mg/Kg	☼	08/14/20 19:22	08/17/20 16:32	1
1,3-Dichlorobenzene	<0.044		0.20	0.044	mg/Kg	☼	08/14/20 19:22	08/17/20 16:32	1
1,4-Dichlorobenzene	<0.050		0.20	0.050	mg/Kg	☼	08/14/20 19:22	08/17/20 16:32	1
3,3'-Dichlorobenzidine	<0.054	F1	0.20	0.054	mg/Kg	☼	08/14/20 19:22	08/17/20 16:32	1
2,4-Dichlorophenol	<0.092		0.39	0.092	mg/Kg	☼	08/14/20 19:22	08/17/20 16:32	1
Diethyl phthalate	<0.066	F1	0.20	0.066	mg/Kg	☼	08/14/20 19:22	08/17/20 16:32	1
2,4-Dimethylphenol	<0.15		0.39	0.15	mg/Kg	☼	08/14/20 19:22	08/17/20 16:32	1
Dimethyl phthalate	<0.051		0.20	0.051	mg/Kg	☼	08/14/20 19:22	08/17/20 16:32	1
Di-n-butyl phthalate	<0.059		0.20	0.059	mg/Kg	☼	08/14/20 19:22	08/17/20 16:32	1
4,6-Dinitro-2-methylphenol	<0.31	F1	0.78	0.31	mg/Kg	☼	08/14/20 19:22	08/17/20 16:32	1
2,4-Dinitrophenol	<0.68	F1	0.78	0.68	mg/Kg	☼	08/14/20 19:22	08/17/20 16:32	1
2,4-Dinitrotoluene	<0.062		0.20	0.062	mg/Kg	☼	08/14/20 19:22	08/17/20 16:32	1
2,6-Dinitrotoluene	<0.076		0.20	0.076	mg/Kg	☼	08/14/20 19:22	08/17/20 16:32	1
Di-n-octyl phthalate	<0.063		0.20	0.063	mg/Kg	☼	08/14/20 19:22	08/17/20 16:32	1
Fluoranthene	0.46	F1	0.039	0.0072	mg/Kg	☼	08/14/20 19:22	08/17/20 16:32	1
Fluorene	0.0078	J	0.039	0.0055	mg/Kg	☼	08/14/20 19:22	08/17/20 16:32	1
Hexachlorobenzene	<0.0090	F1	0.078	0.0090	mg/Kg	☼	08/14/20 19:22	08/17/20 16:32	1
Hexachlorobutadiene	<0.061		0.20	0.061	mg/Kg	☼	08/14/20 19:22	08/17/20 16:32	1
Hexachlorocyclopentadiene	<0.22	F1	0.78	0.22	mg/Kg	☼	08/14/20 19:22	08/17/20 16:32	1
Hexachloroethane	<0.059	F1	0.20	0.059	mg/Kg	☼	08/14/20 19:22	08/17/20 16:32	1
Indeno[1,2,3-cd]pyrene	0.077	F1	0.039	0.010	mg/Kg	☼	08/14/20 19:22	08/17/20 16:32	1
Isophorone	<0.044		0.20	0.044	mg/Kg	☼	08/14/20 19:22	08/17/20 16:32	1
2-Methylnaphthalene	0.025	J	0.078	0.0071	mg/Kg	☼	08/14/20 19:22	08/17/20 16:32	1
2-Methylphenol	<0.062		0.20	0.062	mg/Kg	☼	08/14/20 19:22	08/17/20 16:32	1
3 & 4 Methylphenol	<0.065		0.20	0.065	mg/Kg	☼	08/14/20 19:22	08/17/20 16:32	1
Naphthalene	0.012	J	0.039	0.0060	mg/Kg	☼	08/14/20 19:22	08/17/20 16:32	1
2-Nitroaniline	<0.052		0.20	0.052	mg/Kg	☼	08/14/20 19:22	08/17/20 16:32	1
3-Nitroaniline	<0.12		0.39	0.12	mg/Kg	☼	08/14/20 19:22	08/17/20 16:32	1
4-Nitroaniline	<0.16		0.39	0.16	mg/Kg	☼	08/14/20 19:22	08/17/20 16:32	1
Nitrobenzene	<0.0097		0.039	0.0097	mg/Kg	☼	08/14/20 19:22	08/17/20 16:32	1
2-Nitrophenol	<0.092		0.39	0.092	mg/Kg	☼	08/14/20 19:22	08/17/20 16:32	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185943-1

Client Sample ID: 2412V2-13-B03 (0-5)

Lab Sample ID: 500-185943-6

Date Collected: 08/04/20 10:45

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 82.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.37		0.78	0.37	mg/Kg	☼	08/14/20 19:22	08/17/20 16:32	1
N-Nitrosodi-n-propylamine	<0.047		0.078	0.047	mg/Kg	☼	08/14/20 19:22	08/17/20 16:32	1
N-Nitrosodiphenylamine	<0.046		0.20	0.046	mg/Kg	☼	08/14/20 19:22	08/17/20 16:32	1
2,2'-oxybis[1-chloropropane]	<0.045		0.20	0.045	mg/Kg	☼	08/14/20 19:22	08/17/20 16:32	1
Pentachlorophenol	<0.62	F2	0.78	0.62	mg/Kg	☼	08/14/20 19:22	08/17/20 16:32	1
Phenanthrene	0.18		0.039	0.0054	mg/Kg	☼	08/14/20 19:22	08/17/20 16:32	1
Phenol	<0.086		0.20	0.086	mg/Kg	☼	08/14/20 19:22	08/17/20 16:32	1
Pyrene	0.41		0.039	0.0077	mg/Kg	☼	08/14/20 19:22	08/17/20 16:32	1
1,2,4-Trichlorobenzene	<0.042		0.20	0.042	mg/Kg	☼	08/14/20 19:22	08/17/20 16:32	1
2,4,5-Trichlorophenol	<0.089		0.39	0.089	mg/Kg	☼	08/14/20 19:22	08/17/20 16:32	1
2,4,6-Trichlorophenol	<0.13		0.39	0.13	mg/Kg	☼	08/14/20 19:22	08/17/20 16:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	106		43 - 145	08/14/20 19:22	08/17/20 16:32	1
2-Fluorophenol	90		31 - 166	08/14/20 19:22	08/17/20 16:32	1
Nitrobenzene-d5	77		37 - 147	08/14/20 19:22	08/17/20 16:32	1
Phenol-d5	75		30 - 153	08/14/20 19:22	08/17/20 16:32	1
Terphenyl-d14	141		42 - 157	08/14/20 19:22	08/17/20 16:32	1
2,4,6-Tribromophenol	130		31 - 143	08/14/20 19:22	08/17/20 16:32	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.29	J B	1.2	0.22	mg/Kg	☼	08/11/20 17:27	08/12/20 19:01	1
Arsenic	4.8		0.58	0.20	mg/Kg	☼	08/11/20 17:27	08/12/20 19:01	1
Barium	86		0.58	0.066	mg/Kg	☼	08/11/20 17:27	08/12/20 19:01	1
Beryllium	0.69		0.23	0.054	mg/Kg	☼	08/11/20 17:27	08/12/20 19:01	1
Cadmium	0.33	B	0.12	0.021	mg/Kg	☼	08/11/20 17:27	08/12/20 19:01	1
Chromium	13	B	0.58	0.28	mg/Kg	☼	08/11/20 17:27	08/12/20 19:01	1
Cobalt	7.5		0.58	0.15	mg/Kg	☼	08/11/20 17:27	08/13/20 01:22	2
Copper	14		0.58	0.16	mg/Kg	☼	08/11/20 17:27	08/12/20 19:01	1
Iron	14000		12	6.0	mg/Kg	☼	08/11/20 17:27	08/12/20 19:01	1
Lead	100		0.29	0.13	mg/Kg	☼	08/11/20 17:27	08/12/20 19:01	1
Magnesium	9300		5.8	2.9	mg/Kg	☼	08/11/20 17:27	08/12/20 19:01	1
Calcium	17000	B	12	1.9	mg/Kg	☼	08/11/20 17:27	08/12/20 19:01	1
Manganese	540		0.58	0.083	mg/Kg	☼	08/11/20 17:27	08/12/20 19:01	1
Nickel	17		0.58	0.17	mg/Kg	☼	08/11/20 17:27	08/12/20 19:01	1
Selenium	0.43	J	0.58	0.34	mg/Kg	☼	08/11/20 17:27	08/12/20 19:01	1
Silver	<0.074		0.29	0.074	mg/Kg	☼	08/11/20 17:27	08/12/20 19:01	1
Thallium	0.37	J	0.58	0.29	mg/Kg	☼	08/11/20 17:27	08/12/20 19:01	1
Vanadium	22		0.29	0.068	mg/Kg	☼	08/11/20 17:27	08/12/20 19:01	1
Zinc	81		1.2	0.50	mg/Kg	☼	08/11/20 17:27	08/12/20 19:01	1
Potassium	1400		29	10	mg/Kg	☼	08/11/20 17:27	08/12/20 19:01	1
Sodium	1000		58	8.5	mg/Kg	☼	08/11/20 17:27	08/12/20 19:01	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		08/17/20 17:19	08/18/20 05:57	1
Barium	0.50		0.50	0.050	mg/L		08/17/20 17:19	08/18/20 05:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/17/20 17:19	08/18/20 05:57	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/17/20 17:19	08/18/20 05:57	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185943-1

Client Sample ID: 2412V2-13-B03 (0-5)

Lab Sample ID: 500-185943-6

Date Collected: 08/04/20 10:45

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 82.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	280		5.0	0.50	mg/L		08/17/20 17:19	08/18/20 05:57	1
Chromium	<0.010		0.025	0.010	mg/L		08/17/20 17:19	08/18/20 05:57	1
Cobalt	<0.010		0.025	0.010	mg/L		08/17/20 17:19	08/18/20 05:57	1
Copper	<0.010		0.025	0.010	mg/L		08/17/20 17:19	08/18/20 05:57	1
Iron	<0.20		0.40	0.20	mg/L		08/17/20 17:19	08/18/20 05:57	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/17/20 17:19	08/18/20 05:57	1
Magnesium	110		2.5	0.50	mg/L		08/17/20 17:19	08/18/20 05:57	1
Manganese	0.55		0.025	0.010	mg/L		08/17/20 17:19	08/18/20 05:57	1
Nickel	<0.010		0.025	0.010	mg/L		08/17/20 17:19	08/18/20 05:57	1
Potassium	3.1		2.5	0.50	mg/L		08/17/20 17:19	08/18/20 05:57	1
Selenium	<0.020		0.050	0.020	mg/L		08/17/20 17:19	08/18/20 05:57	1
Silver	<0.010		0.025	0.010	mg/L		08/17/20 17:19	08/18/20 05:57	1
Vanadium	<0.010		0.025	0.010	mg/L		08/17/20 17:19	08/18/20 05:57	1
Zinc	0.098	J B *	0.50	0.020	mg/L		08/17/20 17:19	08/18/20 05:57	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		08/17/20 17:16	08/18/20 10:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/17/20 17:19	08/18/20 10:43	1
Thallium	<0.0020	*	0.0020	0.0020	mg/L		08/17/20 17:19	08/18/20 10:43	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/18/20 09:55	08/19/20 08:21	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.057		0.020	0.0067	mg/Kg	☼	08/11/20 14:25	08/12/20 10:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.13		0.27	0.13	mg/Kg	☼	08/14/20 15:05	08/17/20 16:17	1
pH	8.4		0.2	0.2	SU			08/11/20 17:47	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185943-1

Client Sample ID: 2412V2-13-B03 (5-7.5)

Lab Sample ID: 500-185943-7

Date Collected: 08/04/20 10:50

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 86.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0068		0.016	0.0068	mg/Kg	☼	08/05/20 08:30	08/13/20 14:38	1
Benzene	<0.00040		0.0016	0.00040	mg/Kg	☼	08/05/20 08:30	08/13/20 14:38	1
Bromodichloromethane	<0.00032		0.0016	0.00032	mg/Kg	☼	08/05/20 08:30	08/13/20 14:38	1
Bromoform	<0.00045		0.0016	0.00045	mg/Kg	☼	08/05/20 08:30	08/13/20 14:38	1
Bromomethane	<0.0015		0.0039	0.0015	mg/Kg	☼	08/05/20 08:30	08/13/20 14:38	1
2-Butanone (MEK)	<0.0017		0.0039	0.0017	mg/Kg	☼	08/05/20 08:30	08/13/20 14:38	1
Carbon disulfide	<0.00081		0.0039	0.00081	mg/Kg	☼	08/05/20 08:30	08/13/20 14:38	1
Carbon tetrachloride	<0.00045		0.0016	0.00045	mg/Kg	☼	08/05/20 08:30	08/13/20 14:38	1
Chlorobenzene	<0.00057		0.0016	0.00057	mg/Kg	☼	08/05/20 08:30	08/13/20 14:38	1
Chloroethane	<0.0011 *		0.0039	0.0011	mg/Kg	☼	08/05/20 08:30	08/13/20 14:38	1
Chloroform	<0.00054		0.0016	0.00054	mg/Kg	☼	08/05/20 08:30	08/13/20 14:38	1
Chloromethane	<0.0016		0.0039	0.0016	mg/Kg	☼	08/05/20 08:30	08/13/20 14:38	1
cis-1,2-Dichloroethene	<0.00043		0.0016	0.00043	mg/Kg	☼	08/05/20 08:30	08/13/20 14:38	1
cis-1,3-Dichloropropene	<0.00047		0.0016	0.00047	mg/Kg	☼	08/05/20 08:30	08/13/20 14:38	1
Dibromochloromethane	<0.00051		0.0016	0.00051	mg/Kg	☼	08/05/20 08:30	08/13/20 14:38	1
1,1-Dichloroethane	<0.00053		0.0016	0.00053	mg/Kg	☼	08/05/20 08:30	08/13/20 14:38	1
1,2-Dichloroethane	<0.0012		0.0039	0.0012	mg/Kg	☼	08/05/20 08:30	08/13/20 14:38	1
1,1-Dichloroethene	<0.00053		0.0016	0.00053	mg/Kg	☼	08/05/20 08:30	08/13/20 14:38	1
1,2-Dichloropropane	<0.00040		0.0016	0.00040	mg/Kg	☼	08/05/20 08:30	08/13/20 14:38	1
1,3-Dichloropropane, Total	<0.00054		0.0016	0.00054	mg/Kg	☼	08/05/20 08:30	08/13/20 14:38	1
Ethylbenzene	<0.00074		0.0016	0.00074	mg/Kg	☼	08/05/20 08:30	08/13/20 14:38	1
2-Hexanone	<0.0012		0.0039	0.0012	mg/Kg	☼	08/05/20 08:30	08/13/20 14:38	1
Methylene Chloride	<0.0015		0.0039	0.0015	mg/Kg	☼	08/05/20 08:30	08/13/20 14:38	1
4-Methyl-2-pentanone (MIBK)	<0.0011		0.0039	0.0011	mg/Kg	☼	08/05/20 08:30	08/13/20 14:38	1
Methyl tert-butyl ether	<0.00046		0.0016	0.00046	mg/Kg	☼	08/05/20 08:30	08/13/20 14:38	1
Styrene	<0.00047		0.0016	0.00047	mg/Kg	☼	08/05/20 08:30	08/13/20 14:38	1
1,1,2,2-Tetrachloroethane	<0.00050		0.0016	0.00050	mg/Kg	☼	08/05/20 08:30	08/13/20 14:38	1
Tetrachloroethene	<0.00053		0.0016	0.00053	mg/Kg	☼	08/05/20 08:30	08/13/20 14:38	1
Toluene	<0.00039		0.0016	0.00039	mg/Kg	☼	08/05/20 08:30	08/13/20 14:38	1
trans-1,2-Dichloroethene	<0.00069		0.0016	0.00069	mg/Kg	☼	08/05/20 08:30	08/13/20 14:38	1
trans-1,3-Dichloropropene	<0.00054		0.0016	0.00054	mg/Kg	☼	08/05/20 08:30	08/13/20 14:38	1
1,1,1-Trichloroethane	<0.00052		0.0016	0.00052	mg/Kg	☼	08/05/20 08:30	08/13/20 14:38	1
1,1,2-Trichloroethane	<0.00067		0.0016	0.00067	mg/Kg	☼	08/05/20 08:30	08/13/20 14:38	1
Trichloroethene	<0.00052		0.0016	0.00052	mg/Kg	☼	08/05/20 08:30	08/13/20 14:38	1
Vinyl acetate	<0.0013		0.0039	0.0013	mg/Kg	☼	08/05/20 08:30	08/13/20 14:38	1
Vinyl chloride	<0.00069		0.0016	0.00069	mg/Kg	☼	08/05/20 08:30	08/13/20 14:38	1
Xylenes, Total	<0.00050		0.0031	0.00050	mg/Kg	☼	08/05/20 08:30	08/13/20 14:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		75 - 131	08/05/20 08:30	08/13/20 14:38	1
Dibromofluoromethane	102		75 - 126	08/05/20 08:30	08/13/20 14:38	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	08/05/20 08:30	08/13/20 14:38	1
Toluene-d8 (Surr)	92		75 - 124	08/05/20 08:30	08/13/20 14:38	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	☼	08/14/20 19:22	08/17/20 12:02	1
Acenaphthylene	<0.0048		0.036	0.0048	mg/Kg	☼	08/14/20 19:22	08/17/20 12:02	1
Anthracene	0.0081	J	0.036	0.0061	mg/Kg	☼	08/14/20 19:22	08/17/20 12:02	1
Benzo[a]anthracene	0.059		0.036	0.0049	mg/Kg	☼	08/14/20 19:22	08/17/20 12:02	1

Eurolins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185943-1

Client Sample ID: 2412V2-13-B03 (5-7.5)

Lab Sample ID: 500-185943-7

Date Collected: 08/04/20 10:50

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 86.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.072		0.036	0.0070	mg/Kg	☼	08/14/20 19:22	08/17/20 12:02	1
Benzo[b]fluoranthene	0.098		0.036	0.0079	mg/Kg	☼	08/14/20 19:22	08/17/20 12:02	1
Benzo[g,h,i]perylene	0.036		0.036	0.012	mg/Kg	☼	08/14/20 19:22	08/17/20 12:02	1
Benzo[k]fluoranthene	0.028	J	0.036	0.011	mg/Kg	☼	08/14/20 19:22	08/17/20 12:02	1
Bis(2-chloroethoxy)methane	<0.037		0.18	0.037	mg/Kg	☼	08/14/20 19:22	08/17/20 12:02	1
Bis(2-chloroethyl)ether	<0.055		0.18	0.055	mg/Kg	☼	08/14/20 19:22	08/17/20 12:02	1
Bis(2-ethylhexyl) phthalate	<0.066		0.18	0.066	mg/Kg	☼	08/14/20 19:22	08/17/20 12:02	1
4-Bromophenyl phenyl ether	<0.048		0.18	0.048	mg/Kg	☼	08/14/20 19:22	08/17/20 12:02	1
Butyl benzyl phthalate	<0.069		0.18	0.069	mg/Kg	☼	08/14/20 19:22	08/17/20 12:02	1
Carbazole	<0.091		0.18	0.091	mg/Kg	☼	08/14/20 19:22	08/17/20 12:02	1
4-Chloroaniline	<0.17		0.73	0.17	mg/Kg	☼	08/14/20 19:22	08/17/20 12:02	1
4-Chloro-3-methylphenol	<0.12		0.36	0.12	mg/Kg	☼	08/14/20 19:22	08/17/20 12:02	1
2-Chloronaphthalene	<0.040		0.18	0.040	mg/Kg	☼	08/14/20 19:22	08/17/20 12:02	1
2-Chlorophenol	<0.062		0.18	0.062	mg/Kg	☼	08/14/20 19:22	08/17/20 12:02	1
4-Chlorophenyl phenyl ether	<0.042		0.18	0.042	mg/Kg	☼	08/14/20 19:22	08/17/20 12:02	1
Chrysene	0.066		0.036	0.0099	mg/Kg	☼	08/14/20 19:22	08/17/20 12:02	1
Dibenz(a,h)anthracene	0.0091	J	0.036	0.0070	mg/Kg	☼	08/14/20 19:22	08/17/20 12:02	1
Dibenzofuran	<0.043		0.18	0.043	mg/Kg	☼	08/14/20 19:22	08/17/20 12:02	1
1,2-Dichlorobenzene	<0.043		0.18	0.043	mg/Kg	☼	08/14/20 19:22	08/17/20 12:02	1
1,3-Dichlorobenzene	<0.041		0.18	0.041	mg/Kg	☼	08/14/20 19:22	08/17/20 12:02	1
1,4-Dichlorobenzene	<0.047		0.18	0.047	mg/Kg	☼	08/14/20 19:22	08/17/20 12:02	1
3,3'-Dichlorobenzidine	<0.051		0.18	0.051	mg/Kg	☼	08/14/20 19:22	08/17/20 12:02	1
2,4-Dichlorophenol	<0.086		0.36	0.086	mg/Kg	☼	08/14/20 19:22	08/17/20 12:02	1
Diethyl phthalate	<0.062		0.18	0.062	mg/Kg	☼	08/14/20 19:22	08/17/20 12:02	1
2,4-Dimethylphenol	<0.14		0.36	0.14	mg/Kg	☼	08/14/20 19:22	08/17/20 12:02	1
Dimethyl phthalate	<0.048		0.18	0.048	mg/Kg	☼	08/14/20 19:22	08/17/20 12:02	1
Di-n-butyl phthalate	<0.055		0.18	0.055	mg/Kg	☼	08/14/20 19:22	08/17/20 12:02	1
4,6-Dinitro-2-methylphenol	<0.29		0.73	0.29	mg/Kg	☼	08/14/20 19:22	08/17/20 12:02	1
2,4-Dinitrophenol	<0.64		0.73	0.64	mg/Kg	☼	08/14/20 19:22	08/17/20 12:02	1
2,4-Dinitrotoluene	<0.058		0.18	0.058	mg/Kg	☼	08/14/20 19:22	08/17/20 12:02	1
2,6-Dinitrotoluene	<0.072		0.18	0.072	mg/Kg	☼	08/14/20 19:22	08/17/20 12:02	1
Di-n-octyl phthalate	<0.059		0.18	0.059	mg/Kg	☼	08/14/20 19:22	08/17/20 12:02	1
Fluoranthene	0.13		0.036	0.0067	mg/Kg	☼	08/14/20 19:22	08/17/20 12:02	1
Fluorene	<0.0051		0.036	0.0051	mg/Kg	☼	08/14/20 19:22	08/17/20 12:02	1
Hexachlorobenzene	<0.0084		0.073	0.0084	mg/Kg	☼	08/14/20 19:22	08/17/20 12:02	1
Hexachlorobutadiene	<0.057		0.18	0.057	mg/Kg	☼	08/14/20 19:22	08/17/20 12:02	1
Hexachlorocyclopentadiene	<0.21		0.73	0.21	mg/Kg	☼	08/14/20 19:22	08/17/20 12:02	1
Hexachloroethane	<0.055		0.18	0.055	mg/Kg	☼	08/14/20 19:22	08/17/20 12:02	1
Indeno[1,2,3-cd]pyrene	0.033	J	0.036	0.0094	mg/Kg	☼	08/14/20 19:22	08/17/20 12:02	1
Isophorone	<0.041		0.18	0.041	mg/Kg	☼	08/14/20 19:22	08/17/20 12:02	1
2-Methylnaphthalene	0.011	J	0.073	0.0067	mg/Kg	☼	08/14/20 19:22	08/17/20 12:02	1
2-Methylphenol	<0.058		0.18	0.058	mg/Kg	☼	08/14/20 19:22	08/17/20 12:02	1
3 & 4 Methylphenol	<0.061		0.18	0.061	mg/Kg	☼	08/14/20 19:22	08/17/20 12:02	1
Naphthalene	<0.0056		0.036	0.0056	mg/Kg	☼	08/14/20 19:22	08/17/20 12:02	1
2-Nitroaniline	<0.049		0.18	0.049	mg/Kg	☼	08/14/20 19:22	08/17/20 12:02	1
3-Nitroaniline	<0.11		0.36	0.11	mg/Kg	☼	08/14/20 19:22	08/17/20 12:02	1
4-Nitroaniline	<0.15		0.36	0.15	mg/Kg	☼	08/14/20 19:22	08/17/20 12:02	1
Nitrobenzene	<0.0091		0.036	0.0091	mg/Kg	☼	08/14/20 19:22	08/17/20 12:02	1
2-Nitrophenol	<0.086		0.36	0.086	mg/Kg	☼	08/14/20 19:22	08/17/20 12:02	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185943-1

Client Sample ID: 2412V2-13-B03 (5-7.5)

Lab Sample ID: 500-185943-7

Date Collected: 08/04/20 10:50

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 86.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.35		0.73	0.35	mg/Kg	☼	08/14/20 19:22	08/17/20 12:02	1
N-Nitrosodi-n-propylamine	<0.044		0.073	0.044	mg/Kg	☼	08/14/20 19:22	08/17/20 12:02	1
N-Nitrosodiphenylamine	<0.043		0.18	0.043	mg/Kg	☼	08/14/20 19:22	08/17/20 12:02	1
2,2'-oxybis[1-chloropropane]	<0.042		0.18	0.042	mg/Kg	☼	08/14/20 19:22	08/17/20 12:02	1
Pentachlorophenol	<0.58		0.73	0.58	mg/Kg	☼	08/14/20 19:22	08/17/20 12:02	1
Phenanthrene	0.051		0.036	0.0051	mg/Kg	☼	08/14/20 19:22	08/17/20 12:02	1
Phenol	<0.081		0.18	0.081	mg/Kg	☼	08/14/20 19:22	08/17/20 12:02	1
Pyrene	0.096		0.036	0.0072	mg/Kg	☼	08/14/20 19:22	08/17/20 12:02	1
1,2,4-Trichlorobenzene	<0.039		0.18	0.039	mg/Kg	☼	08/14/20 19:22	08/17/20 12:02	1
2,4,5-Trichlorophenol	<0.083		0.36	0.083	mg/Kg	☼	08/14/20 19:22	08/17/20 12:02	1
2,4,6-Trichlorophenol	<0.12		0.36	0.12	mg/Kg	☼	08/14/20 19:22	08/17/20 12:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	88		43 - 145	08/14/20 19:22	08/17/20 12:02	1
2-Fluorophenol	78		31 - 166	08/14/20 19:22	08/17/20 12:02	1
Nitrobenzene-d5	67		37 - 147	08/14/20 19:22	08/17/20 12:02	1
Phenol-d5	64		30 - 153	08/14/20 19:22	08/17/20 12:02	1
Terphenyl-d14	98		42 - 157	08/14/20 19:22	08/17/20 12:02	1
2,4,6-Tribromophenol	102		31 - 143	08/14/20 19:22	08/17/20 12:02	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.45	J B	1.1	0.21	mg/Kg	☼	08/11/20 17:27	08/12/20 19:13	1
Arsenic	5.3		0.55	0.19	mg/Kg	☼	08/11/20 17:27	08/12/20 19:13	1
Barium	47		0.55	0.063	mg/Kg	☼	08/11/20 17:27	08/12/20 19:13	1
Beryllium	0.56		0.22	0.052	mg/Kg	☼	08/11/20 17:27	08/12/20 19:13	1
Cadmium	0.22	B	0.11	0.020	mg/Kg	☼	08/11/20 17:27	08/12/20 19:13	1
Chromium	12	B	0.55	0.27	mg/Kg	☼	08/11/20 17:27	08/12/20 19:13	1
Cobalt	6.7		0.55	0.14	mg/Kg	☼	08/11/20 17:27	08/13/20 01:26	2
Copper	12		0.55	0.15	mg/Kg	☼	08/11/20 17:27	08/12/20 19:13	1
Iron	13000		11	5.7	mg/Kg	☼	08/11/20 17:27	08/12/20 19:13	1
Lead	15		0.28	0.13	mg/Kg	☼	08/11/20 17:27	08/12/20 19:13	1
Magnesium	24000		5.5	2.7	mg/Kg	☼	08/11/20 17:27	08/12/20 19:13	1
Calcium	46000	B	22	3.7	mg/Kg	☼	08/11/20 17:27	08/13/20 01:26	2
Manganese	360		0.55	0.080	mg/Kg	☼	08/11/20 17:27	08/12/20 19:13	1
Nickel	17		0.55	0.16	mg/Kg	☼	08/11/20 17:27	08/12/20 19:13	1
Selenium	<0.32		0.55	0.32	mg/Kg	☼	08/11/20 17:27	08/12/20 19:13	1
Silver	<0.071		0.28	0.071	mg/Kg	☼	08/11/20 17:27	08/12/20 19:13	1
Thallium	<0.28		0.55	0.28	mg/Kg	☼	08/11/20 17:27	08/12/20 19:13	1
Vanadium	18		0.28	0.065	mg/Kg	☼	08/11/20 17:27	08/12/20 19:13	1
Zinc	130		1.1	0.48	mg/Kg	☼	08/11/20 17:27	08/12/20 19:13	1
Potassium	1700		28	9.8	mg/Kg	☼	08/11/20 17:27	08/12/20 19:13	1
Sodium	600		55	8.2	mg/Kg	☼	08/11/20 17:27	08/12/20 19:13	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/17/20 17:19	08/18/20 06:02	1
Barium	0.33	J	0.50	0.050	mg/L		08/17/20 17:19	08/18/20 06:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/17/20 17:19	08/18/20 06:02	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/17/20 17:19	08/18/20 06:02	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185943-1

Client Sample ID: 2412V2-13-B03 (5-7.5)

Lab Sample ID: 500-185943-7

Date Collected: 08/04/20 10:50

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 86.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	340		5.0	0.50	mg/L		08/17/20 17:19	08/18/20 06:02	1
Chromium	<0.010		0.025	0.010	mg/L		08/17/20 17:19	08/18/20 06:02	1
Cobalt	<0.010		0.025	0.010	mg/L		08/17/20 17:19	08/18/20 06:02	1
Copper	<0.010		0.025	0.010	mg/L		08/17/20 17:19	08/18/20 06:02	1
Iron	<0.20		0.40	0.20	mg/L		08/17/20 17:19	08/18/20 06:02	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/17/20 17:19	08/18/20 06:02	1
Magnesium	170		2.5	0.50	mg/L		08/17/20 17:19	08/18/20 06:02	1
Manganese	0.46		0.025	0.010	mg/L		08/17/20 17:19	08/18/20 06:02	1
Nickel	<0.010		0.025	0.010	mg/L		08/17/20 17:19	08/18/20 06:02	1
Potassium	2.7		2.5	0.50	mg/L		08/17/20 17:19	08/18/20 06:02	1
Selenium	<0.020		0.050	0.020	mg/L		08/17/20 17:19	08/18/20 06:02	1
Silver	<0.010		0.025	0.010	mg/L		08/17/20 17:19	08/18/20 06:02	1
Vanadium	<0.010		0.025	0.010	mg/L		08/17/20 17:19	08/18/20 06:02	1
Zinc	0.057	J B *	0.50	0.020	mg/L		08/17/20 17:19	08/18/20 06:02	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		08/17/20 17:16	08/18/20 10:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/17/20 17:19	08/18/20 10:45	1
Thallium	<0.0020	*	0.0020	0.0020	mg/L		08/17/20 17:19	08/18/20 10:45	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		08/18/20 09:55	08/19/20 08:23	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.017	0.0058	mg/Kg	☼	08/11/20 14:25	08/12/20 10:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.13		0.25	0.13	mg/Kg	☼	08/14/20 15:05	08/17/20 16:20	1
pH	8.6		0.2	0.2	SU			08/11/20 17:49	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185943-1

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 exceeds control limits.
F2	MS/MSD RPD exceeds 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
*	LCS or LCSD 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.

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
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185943-1

GC/MS VOA

Analysis Batch: 556601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185943-1	2412V2-13-B01 (0-5)	Total/NA	Solid	8260B	556637
500-185943-2	2412V2-13-B01 (5-7.5)	Total/NA	Solid	8260B	556637
500-185943-3	2412V2-13-B02 (0-5)	Total/NA	Solid	8260B	556637
500-185943-4	2412V2-13-B02 (0-5) Dup	Total/NA	Solid	8260B	556637
500-185943-5	2412V2-13-B02 (5-7.5)	Total/NA	Solid	8260B	556637
500-185943-6	2412V2-13-B03 (0-5)	Total/NA	Solid	8260B	556637
500-185943-7	2412V2-13-B03 (5-7.5)	Total/NA	Solid	8260B	556637
MB 500-556601/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-556601/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-556601/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

Prep Batch: 556637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185943-1	2412V2-13-B01 (0-5)	Total/NA	Solid	5035	
500-185943-2	2412V2-13-B01 (5-7.5)	Total/NA	Solid	5035	
500-185943-3	2412V2-13-B02 (0-5)	Total/NA	Solid	5035	
500-185943-4	2412V2-13-B02 (0-5) Dup	Total/NA	Solid	5035	
500-185943-5	2412V2-13-B02 (5-7.5)	Total/NA	Solid	5035	
500-185943-6	2412V2-13-B03 (0-5)	Total/NA	Solid	5035	
500-185943-7	2412V2-13-B03 (5-7.5)	Total/NA	Solid	5035	

GC/MS Semi VOA

Prep Batch: 556975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185943-1	2412V2-13-B01 (0-5)	Total/NA	Solid	3541	
500-185943-2	2412V2-13-B01 (5-7.5)	Total/NA	Solid	3541	
500-185943-3	2412V2-13-B02 (0-5)	Total/NA	Solid	3541	
500-185943-4	2412V2-13-B02 (0-5) Dup	Total/NA	Solid	3541	
500-185943-5	2412V2-13-B02 (5-7.5)	Total/NA	Solid	3541	
500-185943-6	2412V2-13-B03 (0-5)	Total/NA	Solid	3541	
500-185943-7	2412V2-13-B03 (5-7.5)	Total/NA	Solid	3541	
MB 500-556975/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-556975/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-185943-6 MS	2412V2-13-B03 (0-5)	Total/NA	Solid	3541	
500-185943-6 MSD	2412V2-13-B03 (0-5)	Total/NA	Solid	3541	

Analysis Batch: 557105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185943-1	2412V2-13-B01 (0-5)	Total/NA	Solid	8270D	556975
500-185943-3	2412V2-13-B02 (0-5)	Total/NA	Solid	8270D	556975
500-185943-4	2412V2-13-B02 (0-5) Dup	Total/NA	Solid	8270D	556975
500-185943-6	2412V2-13-B03 (0-5)	Total/NA	Solid	8270D	556975
500-185943-7	2412V2-13-B03 (5-7.5)	Total/NA	Solid	8270D	556975
500-185943-6 MS	2412V2-13-B03 (0-5)	Total/NA	Solid	8270D	556975
500-185943-6 MSD	2412V2-13-B03 (0-5)	Total/NA	Solid	8270D	556975

Analysis Batch: 557147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185943-2	2412V2-13-B01 (5-7.5)	Total/NA	Solid	8270D	556975
500-185943-5	2412V2-13-B02 (5-7.5)	Total/NA	Solid	8270D	556975

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185943-1

GC/MS Semi VOA (Continued)

Analysis Batch: 557147 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-556975/1-A	Method Blank	Total/NA	Solid	8270D	556975
LCS 500-556975/2-A	Lab Control Sample	Total/NA	Solid	8270D	556975

Metals

Prep Batch: 556281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185943-1	2412V2-13-B01 (0-5)	Total/NA	Solid	7471B	
500-185943-2	2412V2-13-B01 (5-7.5)	Total/NA	Solid	7471B	
500-185943-3	2412V2-13-B02 (0-5)	Total/NA	Solid	7471B	
500-185943-4	2412V2-13-B02 (0-5) Dup	Total/NA	Solid	7471B	
500-185943-5	2412V2-13-B02 (5-7.5)	Total/NA	Solid	7471B	
500-185943-6	2412V2-13-B03 (0-5)	Total/NA	Solid	7471B	
500-185943-7	2412V2-13-B03 (5-7.5)	Total/NA	Solid	7471B	
MB 500-556281/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-556281/13-A	Lab Control Sample	Total/NA	Solid	7471B	
500-185943-2 MS	2412V2-13-B01 (5-7.5)	Total/NA	Solid	7471B	
500-185943-2 MSD	2412V2-13-B01 (5-7.5)	Total/NA	Solid	7471B	
500-185943-2 DU	2412V2-13-B01 (5-7.5)	Total/NA	Solid	7471B	

Prep Batch: 556317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185943-1	2412V2-13-B01 (0-5)	Total/NA	Solid	3050B	
500-185943-2	2412V2-13-B01 (5-7.5)	Total/NA	Solid	3050B	
500-185943-3	2412V2-13-B02 (0-5)	Total/NA	Solid	3050B	
500-185943-4	2412V2-13-B02 (0-5) Dup	Total/NA	Solid	3050B	
500-185943-5	2412V2-13-B02 (5-7.5)	Total/NA	Solid	3050B	
500-185943-6	2412V2-13-B03 (0-5)	Total/NA	Solid	3050B	
500-185943-7	2412V2-13-B03 (5-7.5)	Total/NA	Solid	3050B	
MB 500-556317/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-556317/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 556451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185943-1	2412V2-13-B01 (0-5)	Total/NA	Solid	7471B	556281
500-185943-2	2412V2-13-B01 (5-7.5)	Total/NA	Solid	7471B	556281
500-185943-3	2412V2-13-B02 (0-5)	Total/NA	Solid	7471B	556281
500-185943-4	2412V2-13-B02 (0-5) Dup	Total/NA	Solid	7471B	556281
500-185943-5	2412V2-13-B02 (5-7.5)	Total/NA	Solid	7471B	556281
500-185943-6	2412V2-13-B03 (0-5)	Total/NA	Solid	7471B	556281
500-185943-7	2412V2-13-B03 (5-7.5)	Total/NA	Solid	7471B	556281
MB 500-556281/12-A	Method Blank	Total/NA	Solid	7471B	556281
LCS 500-556281/13-A	Lab Control Sample	Total/NA	Solid	7471B	556281
500-185943-2 MS	2412V2-13-B01 (5-7.5)	Total/NA	Solid	7471B	556281
500-185943-2 MSD	2412V2-13-B01 (5-7.5)	Total/NA	Solid	7471B	556281
500-185943-2 DU	2412V2-13-B01 (5-7.5)	Total/NA	Solid	7471B	556281

Analysis Batch: 556556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185943-1	2412V2-13-B01 (0-5)	Total/NA	Solid	6010B	556317
500-185943-2	2412V2-13-B01 (5-7.5)	Total/NA	Solid	6010B	556317

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185943-1

Metals (Continued)

Analysis Batch: 556556 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185943-3	2412V2-13-B02 (0-5)	Total/NA	Solid	6010B	556317
500-185943-4	2412V2-13-B02 (0-5) Dup	Total/NA	Solid	6010B	556317
500-185943-5	2412V2-13-B02 (5-7.5)	Total/NA	Solid	6010B	556317
500-185943-6	2412V2-13-B03 (0-5)	Total/NA	Solid	6010B	556317
500-185943-7	2412V2-13-B03 (5-7.5)	Total/NA	Solid	6010B	556317
MB 500-556317/1-A	Method Blank	Total/NA	Solid	6010B	556317
LCS 500-556317/2-A	Lab Control Sample	Total/NA	Solid	6010B	556317

Analysis Batch: 556572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185943-1	2412V2-13-B01 (0-5)	Total/NA	Solid	6010B	556317
500-185943-2	2412V2-13-B01 (5-7.5)	Total/NA	Solid	6010B	556317
500-185943-3	2412V2-13-B02 (0-5)	Total/NA	Solid	6010B	556317
500-185943-5	2412V2-13-B02 (5-7.5)	Total/NA	Solid	6010B	556317
500-185943-6	2412V2-13-B03 (0-5)	Total/NA	Solid	6010B	556317
500-185943-7	2412V2-13-B03 (5-7.5)	Total/NA	Solid	6010B	556317

Leach Batch: 556906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185943-1	2412V2-13-B01 (0-5)	SPLP East	Solid	1312	
500-185943-2	2412V2-13-B01 (5-7.5)	SPLP East	Solid	1312	
500-185943-3	2412V2-13-B02 (0-5)	SPLP East	Solid	1312	
500-185943-5	2412V2-13-B02 (5-7.5)	SPLP East	Solid	1312	
500-185943-6	2412V2-13-B03 (0-5)	SPLP East	Solid	1312	
500-185943-7	2412V2-13-B03 (5-7.5)	SPLP East	Solid	1312	
LB 500-556906/1-B	Method Blank	SPLP East	Solid	1312	

Leach Batch: 556917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185943-1	2412V2-13-B01 (0-5)	TCLP	Solid	1311	
500-185943-2	2412V2-13-B01 (5-7.5)	TCLP	Solid	1311	
500-185943-3	2412V2-13-B02 (0-5)	TCLP	Solid	1311	
500-185943-4	2412V2-13-B02 (0-5) Dup	TCLP	Solid	1311	
500-185943-5	2412V2-13-B02 (5-7.5)	TCLP	Solid	1311	
500-185943-6	2412V2-13-B03 (0-5)	TCLP	Solid	1311	
500-185943-7	2412V2-13-B03 (5-7.5)	TCLP	Solid	1311	
LB 500-556917/1-B	Method Blank	TCLP	Solid	1311	
LB 500-556917/2-B	Method Blank	TCLP	Solid	1311	
500-185943-7 MS	2412V2-13-B03 (5-7.5)	TCLP	Solid	1311	
500-185943-7 DU	2412V2-13-B03 (5-7.5)	TCLP	Solid	1311	

Prep Batch: 557241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185943-1	2412V2-13-B01 (0-5)	SPLP East	Solid	3010A	556906
500-185943-2	2412V2-13-B01 (5-7.5)	SPLP East	Solid	3010A	556906
500-185943-3	2412V2-13-B02 (0-5)	SPLP East	Solid	3010A	556906
500-185943-5	2412V2-13-B02 (5-7.5)	SPLP East	Solid	3010A	556906
500-185943-6	2412V2-13-B03 (0-5)	SPLP East	Solid	3010A	556906
500-185943-7	2412V2-13-B03 (5-7.5)	SPLP East	Solid	3010A	556906
LB 500-556906/1-B	Method Blank	SPLP East	Solid	3010A	556906
LCS 500-557241/2-A	Lab Control Sample	Total/NA	Solid	3010A	

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185943-1

Metals

Prep Batch: 557243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185943-1	2412V2-13-B01 (0-5)	TCLP	Solid	3010A	556917
500-185943-2	2412V2-13-B01 (5-7.5)	TCLP	Solid	3010A	556917
500-185943-3	2412V2-13-B02 (0-5)	TCLP	Solid	3010A	556917
500-185943-4	2412V2-13-B02 (0-5) Dup	TCLP	Solid	3010A	556917
500-185943-5	2412V2-13-B02 (5-7.5)	TCLP	Solid	3010A	556917
500-185943-6	2412V2-13-B03 (0-5)	TCLP	Solid	3010A	556917
500-185943-7	2412V2-13-B03 (5-7.5)	TCLP	Solid	3010A	556917
LB 500-556917/1-B	Method Blank	TCLP	Solid	3010A	556917
LCS 500-557243/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 557361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185943-1	2412V2-13-B01 (0-5)	TCLP	Solid	6010B	557243
500-185943-2	2412V2-13-B01 (5-7.5)	TCLP	Solid	6010B	557243
500-185943-3	2412V2-13-B02 (0-5)	TCLP	Solid	6010B	557243
500-185943-4	2412V2-13-B02 (0-5) Dup	TCLP	Solid	6010B	557243
500-185943-5	2412V2-13-B02 (5-7.5)	TCLP	Solid	6010B	557243
500-185943-6	2412V2-13-B03 (0-5)	TCLP	Solid	6010B	557243
500-185943-7	2412V2-13-B03 (5-7.5)	TCLP	Solid	6010B	557243
LB 500-556917/1-B	Method Blank	TCLP	Solid	6010B	557243
LCS 500-557243/2-A	Lab Control Sample	Total/NA	Solid	6010B	557243

Prep Batch: 557383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185943-1	2412V2-13-B01 (0-5)	TCLP	Solid	7470A	556917
500-185943-2	2412V2-13-B01 (5-7.5)	TCLP	Solid	7470A	556917
500-185943-3	2412V2-13-B02 (0-5)	TCLP	Solid	7470A	556917
500-185943-4	2412V2-13-B02 (0-5) Dup	TCLP	Solid	7470A	556917
500-185943-5	2412V2-13-B02 (5-7.5)	TCLP	Solid	7470A	556917
500-185943-6	2412V2-13-B03 (0-5)	TCLP	Solid	7470A	556917
500-185943-7	2412V2-13-B03 (5-7.5)	TCLP	Solid	7470A	556917
LB 500-556917/2-B	Method Blank	TCLP	Solid	7470A	556917
MB 500-557383/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-557383/14-A	Lab Control Sample	Total/NA	Solid	7470A	
500-185943-7 MS	2412V2-13-B03 (5-7.5)	TCLP	Solid	7470A	556917
500-185943-7 DU	2412V2-13-B03 (5-7.5)	TCLP	Solid	7470A	556917

Analysis Batch: 557398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185943-1	2412V2-13-B01 (0-5)	TCLP	Solid	6020A	557243
500-185943-2	2412V2-13-B01 (5-7.5)	TCLP	Solid	6020A	557243
500-185943-3	2412V2-13-B02 (0-5)	TCLP	Solid	6020A	557243
500-185943-4	2412V2-13-B02 (0-5) Dup	TCLP	Solid	6020A	557243
500-185943-5	2412V2-13-B02 (5-7.5)	TCLP	Solid	6020A	557243
500-185943-6	2412V2-13-B03 (0-5)	TCLP	Solid	6020A	557243
500-185943-7	2412V2-13-B03 (5-7.5)	TCLP	Solid	6020A	557243
LB 500-556917/1-B	Method Blank	TCLP	Solid	6020A	557243
LCS 500-557243/2-A	Lab Control Sample	Total/NA	Solid	6020A	557243

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185943-1

Metals

Analysis Batch: 557412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185943-1	2412V2-13-B01 (0-5)	SPLP East	Solid	6010B	557241
500-185943-2	2412V2-13-B01 (5-7.5)	SPLP East	Solid	6010B	557241
500-185943-3	2412V2-13-B02 (0-5)	SPLP East	Solid	6010B	557241
500-185943-5	2412V2-13-B02 (5-7.5)	SPLP East	Solid	6010B	557241
500-185943-6	2412V2-13-B03 (0-5)	SPLP East	Solid	6010B	557241
500-185943-7	2412V2-13-B03 (5-7.5)	SPLP East	Solid	6010B	557241
LB 500-556906/1-B	Method Blank	SPLP East	Solid	6010B	557241
LCS 500-557241/2-A	Lab Control Sample	Total/NA	Solid	6010B	557241

Analysis Batch: 557609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185943-1	2412V2-13-B01 (0-5)	TCLP	Solid	7470A	557383
500-185943-2	2412V2-13-B01 (5-7.5)	TCLP	Solid	7470A	557383
500-185943-3	2412V2-13-B02 (0-5)	TCLP	Solid	7470A	557383
500-185943-4	2412V2-13-B02 (0-5) Dup	TCLP	Solid	7470A	557383
500-185943-5	2412V2-13-B02 (5-7.5)	TCLP	Solid	7470A	557383
500-185943-6	2412V2-13-B03 (0-5)	TCLP	Solid	7470A	557383
500-185943-7	2412V2-13-B03 (5-7.5)	TCLP	Solid	7470A	557383
LB 500-556917/2-B	Method Blank	TCLP	Solid	7470A	557383
MB 500-557383/12-A	Method Blank	Total/NA	Solid	7470A	557383
LCS 500-557383/14-A	Lab Control Sample	Total/NA	Solid	7470A	557383
500-185943-7 MS	2412V2-13-B03 (5-7.5)	TCLP	Solid	7470A	557383
500-185943-7 DU	2412V2-13-B03 (5-7.5)	TCLP	Solid	7470A	557383

General Chemistry

Analysis Batch: 556437

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185943-1	2412V2-13-B01 (0-5)	Total/NA	Solid	9045D	
500-185943-2	2412V2-13-B01 (5-7.5)	Total/NA	Solid	9045D	
500-185943-3	2412V2-13-B02 (0-5)	Total/NA	Solid	9045D	
500-185943-4	2412V2-13-B02 (0-5) Dup	Total/NA	Solid	9045D	
500-185943-5	2412V2-13-B02 (5-7.5)	Total/NA	Solid	9045D	
500-185943-6	2412V2-13-B03 (0-5)	Total/NA	Solid	9045D	
500-185943-7	2412V2-13-B03 (5-7.5)	Total/NA	Solid	9045D	
LCS 500-556437/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-556437/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Analysis Batch: 556605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185943-1	2412V2-13-B01 (0-5)	Total/NA	Solid	Moisture	
500-185943-2	2412V2-13-B01 (5-7.5)	Total/NA	Solid	Moisture	
500-185943-3	2412V2-13-B02 (0-5)	Total/NA	Solid	Moisture	
500-185943-4	2412V2-13-B02 (0-5) Dup	Total/NA	Solid	Moisture	
500-185943-5	2412V2-13-B02 (5-7.5)	Total/NA	Solid	Moisture	
500-185943-6	2412V2-13-B03 (0-5)	Total/NA	Solid	Moisture	
500-185943-7	2412V2-13-B03 (5-7.5)	Total/NA	Solid	Moisture	

Prep Batch: 556872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185943-1	2412V2-13-B01 (0-5)	Total/NA	Solid	9010C	

Eurofins TestAmerica, Chicago

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185943-1

General Chemistry (Continued)

Prep Batch: 556872 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185943-2	2412V2-13-B01 (5-7.5)	Total/NA	Solid	9010C	
500-185943-3	2412V2-13-B02 (0-5)	Total/NA	Solid	9010C	
500-185943-4	2412V2-13-B02 (0-5) Dup	Total/NA	Solid	9010C	
500-185943-5	2412V2-13-B02 (5-7.5)	Total/NA	Solid	9010C	
500-185943-6	2412V2-13-B03 (0-5)	Total/NA	Solid	9010C	
500-185943-7	2412V2-13-B03 (5-7.5)	Total/NA	Solid	9010C	
MB 500-556872/1-A	Method Blank	Total/NA	Solid	9010C	
HLCS 500-556872/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 500-556872/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 500-556872/4-A	Lab Control Sample	Total/NA	Solid	9010C	

Analysis Batch: 557430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185943-1	2412V2-13-B01 (0-5)	Total/NA	Solid	9012B	556872
500-185943-2	2412V2-13-B01 (5-7.5)	Total/NA	Solid	9012B	556872
500-185943-3	2412V2-13-B02 (0-5)	Total/NA	Solid	9012B	556872
500-185943-4	2412V2-13-B02 (0-5) Dup	Total/NA	Solid	9012B	556872
500-185943-5	2412V2-13-B02 (5-7.5)	Total/NA	Solid	9012B	556872
500-185943-6	2412V2-13-B03 (0-5)	Total/NA	Solid	9012B	556872
500-185943-7	2412V2-13-B03 (5-7.5)	Total/NA	Solid	9012B	556872
MB 500-556872/1-A	Method Blank	Total/NA	Solid	9012B	556872
HLCS 500-556872/2-A	Lab Control Sample	Total/NA	Solid	9012B	556872
LCS 500-556872/3-A	Lab Control Sample	Total/NA	Solid	9012B	556872
LLCS 500-556872/4-A	Lab Control Sample	Total/NA	Solid	9012B	556872

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185943-1

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)
500-185943-1	2412V2-13-B01 (0-5)	101	100	104	93
500-185943-2	2412V2-13-B01 (5-7.5)	99	98	99	97
500-185943-3	2412V2-13-B02 (0-5)	100	100	102	95
500-185943-4	2412V2-13-B02 (0-5) Dup	99	101	103	93
500-185943-5	2412V2-13-B02 (5-7.5)	97	101	100	94
500-185943-6	2412V2-13-B03 (0-5)	96	101	102	93
500-185943-7	2412V2-13-B03 (5-7.5)	99	102	100	92
LCS 500-556601/4	Lab Control Sample	88	96	91	95
LCSD 500-556601/5	Lab Control Sample Dup	89	95	93	96
MB 500-556601/7	Method Blank	95	97	97	93

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)
500-185943-1	2412V2-13-B01 (0-5)	93	83	69	72	110	112
500-185943-2	2412V2-13-B01 (5-7.5)	85	96	78	85	105	46
500-185943-3	2412V2-13-B02 (0-5)	91	83	69	71	108	114
500-185943-4	2412V2-13-B02 (0-5) Dup	91	84	70	71	107	112
500-185943-5	2412V2-13-B02 (5-7.5)	89	96	83	81	105	54
500-185943-6	2412V2-13-B03 (0-5)	106	90	77	75	141	130
500-185943-6 MS	2412V2-13-B03 (0-5)	107	86	80	77	130	131
500-185943-6 MSD	2412V2-13-B03 (0-5)	84	74	66	64	116	104
500-185943-7	2412V2-13-B03 (5-7.5)	88	78	67	64	98	102
LCS 500-556975/2-A	Lab Control Sample	105	100	89	86	109	116
MB 500-556975/1-A	Method Blank	96	95	81	78	105	73

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 - Hampshire - WO 074

Job ID: 500-185943-1

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

Lab Sample ID: MB 500-556601/7
Matrix: Solid
Analysis Batch: 556601

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			08/13/20 10:22	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg			08/13/20 10:22	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg			08/13/20 10:22	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg			08/13/20 10:22	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg			08/13/20 10:22	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			08/13/20 10:22	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg			08/13/20 10:22	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg			08/13/20 10:22	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg			08/13/20 10:22	1
Chloroethane	<0.0015		0.0050	0.0015	mg/Kg			08/13/20 10:22	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg			08/13/20 10:22	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg			08/13/20 10:22	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg			08/13/20 10:22	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg			08/13/20 10:22	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg			08/13/20 10:22	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg			08/13/20 10:22	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg			08/13/20 10:22	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg			08/13/20 10:22	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			08/13/20 10:22	1
1,3-Dichloropropene, Total	<0.00070		0.0020	0.00070	mg/Kg			08/13/20 10:22	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg			08/13/20 10:22	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg			08/13/20 10:22	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg			08/13/20 10:22	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg			08/13/20 10:22	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg			08/13/20 10:22	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg			08/13/20 10:22	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg			08/13/20 10:22	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg			08/13/20 10:22	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg			08/13/20 10:22	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg			08/13/20 10:22	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg			08/13/20 10:22	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg			08/13/20 10:22	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg			08/13/20 10:22	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg			08/13/20 10:22	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg			08/13/20 10:22	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg			08/13/20 10:22	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg			08/13/20 10:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		75 - 131		08/13/20 10:22	1
Dibromofluoromethane	97		75 - 126		08/13/20 10:22	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134		08/13/20 10:22	1
Toluene-d8 (Surr)	93		75 - 124		08/13/20 10:22	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185943-1

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

Lab Sample ID: LCS 500-556601/4

Matrix: Solid

Analysis Batch: 556601

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	0.0390		mg/Kg		78	40 - 150
Benzene	0.0500	0.0457		mg/Kg		91	70 - 125
Bromodichloromethane	0.0500	0.0474		mg/Kg		95	67 - 129
Bromoform	0.0500	0.0485		mg/Kg		97	68 - 136
Bromomethane	0.0500	0.0498		mg/Kg		100	70 - 130
2-Butanone (MEK)	0.0500	0.0326		mg/Kg		65	47 - 138
Carbon disulfide	0.0500	0.0458		mg/Kg		92	70 - 129
Carbon tetrachloride	0.0500	0.0519		mg/Kg		104	75 - 125
Chlorobenzene	0.0500	0.0480		mg/Kg		96	50 - 150
Chloroethane	0.0500	0.0363	*	mg/Kg		73	75 - 125
Chloroform	0.0500	0.0475		mg/Kg		95	57 - 135
Chloromethane	0.0500	0.0362		mg/Kg		72	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0475		mg/Kg		95	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0460		mg/Kg		92	70 - 125
Dibromochloromethane	0.0500	0.0498		mg/Kg		100	69 - 125
1,1-Dichloroethane	0.0500	0.0434		mg/Kg		87	70 - 125
1,2-Dichloroethane	0.0500	0.0449		mg/Kg		90	70 - 130
1,1-Dichloroethene	0.0500	0.0481		mg/Kg		96	70 - 120
1,2-Dichloropropane	0.0500	0.0412		mg/Kg		82	70 - 125
Ethylbenzene	0.0500	0.0493		mg/Kg		99	61 - 136
2-Hexanone	0.0500	0.0333		mg/Kg		67	48 - 146
Methylene Chloride	0.0500	0.0456		mg/Kg		91	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0338		mg/Kg		68	50 - 148
Methyl tert-butyl ether	0.0500	0.0473		mg/Kg		95	50 - 140
Styrene	0.0500	0.0495		mg/Kg		99	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0412		mg/Kg		82	70 - 122
Tetrachloroethene	0.0500	0.0520		mg/Kg		104	70 - 124
Toluene	0.0500	0.0464		mg/Kg		93	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0499		mg/Kg		100	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0465		mg/Kg		93	70 - 125
1,1,1-Trichloroethane	0.0500	0.0515		mg/Kg		103	70 - 128
1,1,2-Trichloroethane	0.0500	0.0455		mg/Kg		91	70 - 125
Trichloroethene	0.0500	0.0509		mg/Kg		102	70 - 125
Vinyl acetate	0.0500	0.0396		mg/Kg		79	40 - 153
Vinyl chloride	0.0500	0.0424		mg/Kg		85	70 - 125
Xylenes, Total	0.100	0.0981		mg/Kg		98	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	88		75 - 131
Dibromofluoromethane	96		75 - 126
1,2-Dichloroethane-d4 (Surr)	91		70 - 134
Toluene-d8 (Surr)	95		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185943-1

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

Lab Sample ID: LCSD 500-556601/5

Matrix: Solid

Analysis Batch: 556601

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	0.0399		mg/Kg		80	40 - 150	2	30
Benzene	0.0500	0.0439		mg/Kg		88	70 - 125	4	30
Bromodichloromethane	0.0500	0.0461		mg/Kg		92	67 - 129	3	30
Bromoform	0.0500	0.0475		mg/Kg		95	68 - 136	2	30
Bromomethane	0.0500	0.0489		mg/Kg		98	70 - 130	2	30
2-Butanone (MEK)	0.0500	0.0361		mg/Kg		72	47 - 138	10	30
Carbon disulfide	0.0500	0.0432		mg/Kg		86	70 - 129	6	30
Carbon tetrachloride	0.0500	0.0485		mg/Kg		97	75 - 125	7	30
Chlorobenzene	0.0500	0.0460		mg/Kg		92	50 - 150	4	30
Chloroethane	0.0500	0.0419		mg/Kg		84	75 - 125	14	30
Chloroform	0.0500	0.0453		mg/Kg		91	57 - 135	5	30
Chloromethane	0.0500	0.0361		mg/Kg		72	70 - 125	0	30
cis-1,2-Dichloroethene	0.0500	0.0447		mg/Kg		89	70 - 125	6	30
cis-1,3-Dichloropropene	0.0500	0.0458		mg/Kg		92	70 - 125	0	30
Dibromochloromethane	0.0500	0.0493		mg/Kg		99	69 - 125	1	30
1,1-Dichloroethane	0.0500	0.0408		mg/Kg		82	70 - 125	6	30
1,2-Dichloroethane	0.0500	0.0438		mg/Kg		88	70 - 130	2	30
1,1-Dichloroethene	0.0500	0.0446		mg/Kg		89	70 - 120	8	30
1,2-Dichloropropane	0.0500	0.0402		mg/Kg		80	70 - 125	3	30
Ethylbenzene	0.0500	0.0473		mg/Kg		95	61 - 136	4	30
2-Hexanone	0.0500	0.0351		mg/Kg		70	48 - 146	5	30
Methylene Chloride	0.0500	0.0421		mg/Kg		84	70 - 126	8	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0358		mg/Kg		72	50 - 148	6	30
Methyl tert-butyl ether	0.0500	0.0450		mg/Kg		90	50 - 140	5	30
Styrene	0.0500	0.0473		mg/Kg		95	70 - 125	4	30
1,1,1,2-Tetrachloroethane	0.0500	0.0416		mg/Kg		83	70 - 122	1	30
Tetrachloroethene	0.0500	0.0505		mg/Kg		101	70 - 124	3	30
Toluene	0.0500	0.0450		mg/Kg		90	70 - 125	3	30
trans-1,2-Dichloroethene	0.0500	0.0454		mg/Kg		91	70 - 125	10	30
trans-1,3-Dichloropropene	0.0500	0.0462		mg/Kg		92	70 - 125	1	30
1,1,1-Trichloroethane	0.0500	0.0475		mg/Kg		95	70 - 128	8	30
1,1,2-Trichloroethane	0.0500	0.0449		mg/Kg		90	70 - 125	1	30
Trichloroethene	0.0500	0.0493		mg/Kg		99	70 - 125	3	30
Vinyl acetate	0.0500	0.0414		mg/Kg		83	40 - 153	4	30
Vinyl chloride	0.0500	0.0424		mg/Kg		85	70 - 125	0	30
Xylenes, Total	0.100	0.0934		mg/Kg		93	53 - 147	5	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	89		75 - 131
Dibromofluoromethane	95		75 - 126
1,2-Dichloroethane-d4 (Surr)	93		70 - 134
Toluene-d8 (Surr)	96		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185943-1

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

Lab Sample ID: MB 500-556975/1-A

Matrix: Solid

Analysis Batch: 557147

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 556975

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0060		0.033	0.0060	mg/Kg		08/14/20 19:22	08/17/20 11:58	1
Acenaphthylene	<0.0044		0.033	0.0044	mg/Kg		08/14/20 19:22	08/17/20 11:58	1
Anthracene	<0.0056		0.033	0.0056	mg/Kg		08/14/20 19:22	08/17/20 11:58	1
Benzo[a]anthracene	<0.0045		0.033	0.0045	mg/Kg		08/14/20 19:22	08/17/20 11:58	1
Benzo[a]pyrene	<0.0064		0.033	0.0064	mg/Kg		08/14/20 19:22	08/17/20 11:58	1
Benzo[b]fluoranthene	<0.0072		0.033	0.0072	mg/Kg		08/14/20 19:22	08/17/20 11:58	1
Benzo[g,h,i]perylene	<0.011		0.033	0.011	mg/Kg		08/14/20 19:22	08/17/20 11:58	1
Benzo[k]fluoranthene	<0.0098		0.033	0.0098	mg/Kg		08/14/20 19:22	08/17/20 11:58	1
Bis(2-chloroethoxy)methane	<0.034		0.17	0.034	mg/Kg		08/14/20 19:22	08/17/20 11:58	1
Bis(2-chloroethyl)ether	<0.050		0.17	0.050	mg/Kg		08/14/20 19:22	08/17/20 11:58	1
Bis(2-ethylhexyl) phthalate	<0.061		0.17	0.061	mg/Kg		08/14/20 19:22	08/17/20 11:58	1
4-Bromophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		08/14/20 19:22	08/17/20 11:58	1
Butyl benzyl phthalate	<0.063		0.17	0.063	mg/Kg		08/14/20 19:22	08/17/20 11:58	1
Carbazole	<0.083		0.17	0.083	mg/Kg		08/14/20 19:22	08/17/20 11:58	1
4-Chloroaniline	<0.16		0.67	0.16	mg/Kg		08/14/20 19:22	08/17/20 11:58	1
4-Chloro-3-methylphenol	<0.11		0.33	0.11	mg/Kg		08/14/20 19:22	08/17/20 11:58	1
2-Chloronaphthalene	<0.037		0.17	0.037	mg/Kg		08/14/20 19:22	08/17/20 11:58	1
2-Chlorophenol	<0.057		0.17	0.057	mg/Kg		08/14/20 19:22	08/17/20 11:58	1
4-Chlorophenyl phenyl ether	<0.039		0.17	0.039	mg/Kg		08/14/20 19:22	08/17/20 11:58	1
Chrysene	<0.0091		0.033	0.0091	mg/Kg		08/14/20 19:22	08/17/20 11:58	1
Dibenz(a,h)anthracene	<0.0064		0.033	0.0064	mg/Kg		08/14/20 19:22	08/17/20 11:58	1
Dibenzofuran	<0.039		0.17	0.039	mg/Kg		08/14/20 19:22	08/17/20 11:58	1
1,2-Dichlorobenzene	<0.040		0.17	0.040	mg/Kg		08/14/20 19:22	08/17/20 11:58	1
1,3-Dichlorobenzene	<0.037		0.17	0.037	mg/Kg		08/14/20 19:22	08/17/20 11:58	1
1,4-Dichlorobenzene	<0.043		0.17	0.043	mg/Kg		08/14/20 19:22	08/17/20 11:58	1
3,3'-Dichlorobenzidine	<0.047		0.17	0.047	mg/Kg		08/14/20 19:22	08/17/20 11:58	1
2,4-Dichlorophenol	<0.079		0.33	0.079	mg/Kg		08/14/20 19:22	08/17/20 11:58	1
Diethyl phthalate	<0.056		0.17	0.056	mg/Kg		08/14/20 19:22	08/17/20 11:58	1
2,4-Dimethylphenol	<0.13		0.33	0.13	mg/Kg		08/14/20 19:22	08/17/20 11:58	1
Dimethyl phthalate	<0.043		0.17	0.043	mg/Kg		08/14/20 19:22	08/17/20 11:58	1
Di-n-butyl phthalate	<0.051		0.17	0.051	mg/Kg		08/14/20 19:22	08/17/20 11:58	1
4,6-Dinitro-2-methylphenol	<0.27		0.67	0.27	mg/Kg		08/14/20 19:22	08/17/20 11:58	1
2,4-Dinitrophenol	<0.59		0.67	0.59	mg/Kg		08/14/20 19:22	08/17/20 11:58	1
2,4-Dinitrotoluene	<0.053		0.17	0.053	mg/Kg		08/14/20 19:22	08/17/20 11:58	1
2,6-Dinitrotoluene	<0.065		0.17	0.065	mg/Kg		08/14/20 19:22	08/17/20 11:58	1
Di-n-octyl phthalate	<0.054		0.17	0.054	mg/Kg		08/14/20 19:22	08/17/20 11:58	1
Fluoranthene	<0.0062		0.033	0.0062	mg/Kg		08/14/20 19:22	08/17/20 11:58	1
Fluorene	<0.0047		0.033	0.0047	mg/Kg		08/14/20 19:22	08/17/20 11:58	1
Hexachlorobenzene	<0.0077		0.067	0.0077	mg/Kg		08/14/20 19:22	08/17/20 11:58	1
Hexachlorobutadiene	<0.052		0.17	0.052	mg/Kg		08/14/20 19:22	08/17/20 11:58	1
Hexachlorocyclopentadiene	<0.19		0.67	0.19	mg/Kg		08/14/20 19:22	08/17/20 11:58	1
Hexachloroethane	<0.051		0.17	0.051	mg/Kg		08/14/20 19:22	08/17/20 11:58	1
Indeno[1,2,3-cd]pyrene	<0.0086		0.033	0.0086	mg/Kg		08/14/20 19:22	08/17/20 11:58	1
Isophorone	<0.037		0.17	0.037	mg/Kg		08/14/20 19:22	08/17/20 11:58	1
2-Methylnaphthalene	<0.0061		0.067	0.0061	mg/Kg		08/14/20 19:22	08/17/20 11:58	1
2-Methylphenol	<0.053		0.17	0.053	mg/Kg		08/14/20 19:22	08/17/20 11:58	1
3 & 4 Methylphenol	<0.055		0.17	0.055	mg/Kg		08/14/20 19:22	08/17/20 11:58	1
Naphthalene	<0.0051		0.033	0.0051	mg/Kg		08/14/20 19:22	08/17/20 11:58	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185943-1

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

Lab Sample ID: MB 500-556975/1-A
Matrix: Solid
Analysis Batch: 557147

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 556975

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2-Nitroaniline	<0.045		0.17	0.045	mg/Kg		08/14/20 19:22	08/17/20 11:58	1
3-Nitroaniline	<0.10		0.33	0.10	mg/Kg		08/14/20 19:22	08/17/20 11:58	1
4-Nitroaniline	<0.14		0.33	0.14	mg/Kg		08/14/20 19:22	08/17/20 11:58	1
Nitrobenzene	<0.0083		0.033	0.0083	mg/Kg		08/14/20 19:22	08/17/20 11:58	1
2-Nitrophenol	<0.079		0.33	0.079	mg/Kg		08/14/20 19:22	08/17/20 11:58	1
4-Nitrophenol	<0.32		0.67	0.32	mg/Kg		08/14/20 19:22	08/17/20 11:58	1
N-Nitrosodi-n-propylamine	<0.041		0.067	0.041	mg/Kg		08/14/20 19:22	08/17/20 11:58	1
N-Nitrosodiphenylamine	<0.039		0.17	0.039	mg/Kg		08/14/20 19:22	08/17/20 11:58	1
2,2'-oxybis[1-chloropropane]	<0.039		0.17	0.039	mg/Kg		08/14/20 19:22	08/17/20 11:58	1
Pentachlorophenol	<0.53		0.67	0.53	mg/Kg		08/14/20 19:22	08/17/20 11:58	1
Phenanthrene	<0.0046		0.033	0.0046	mg/Kg		08/14/20 19:22	08/17/20 11:58	1
Phenol	<0.074		0.17	0.074	mg/Kg		08/14/20 19:22	08/17/20 11:58	1
Pyrene	<0.0066		0.033	0.0066	mg/Kg		08/14/20 19:22	08/17/20 11:58	1
1,2,4-Trichlorobenzene	<0.036		0.17	0.036	mg/Kg		08/14/20 19:22	08/17/20 11:58	1
2,4,5-Trichlorophenol	<0.076		0.33	0.076	mg/Kg		08/14/20 19:22	08/17/20 11:58	1
2,4,6-Trichlorophenol	<0.11		0.33	0.11	mg/Kg		08/14/20 19:22	08/17/20 11:58	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorobiphenyl	96		43 - 145	08/14/20 19:22	08/17/20 11:58	1
2-Fluorophenol	95		31 - 166	08/14/20 19:22	08/17/20 11:58	1
Nitrobenzene-d5	81		37 - 147	08/14/20 19:22	08/17/20 11:58	1
Phenol-d5	78		30 - 153	08/14/20 19:22	08/17/20 11:58	1
Terphenyl-d14	105		42 - 157	08/14/20 19:22	08/17/20 11:58	1
2,4,6-Tribromophenol	73		31 - 143	08/14/20 19:22	08/17/20 11:58	1

Lab Sample ID: LCS 500-556975/2-A
Matrix: Solid
Analysis Batch: 557147

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556975

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1.33	1.14		mg/Kg		86	65 - 124
Acenaphthylene	1.33	1.28		mg/Kg		96	68 - 120
Anthracene	1.33	1.26		mg/Kg		95	70 - 114
Benzo[a]anthracene	1.33	1.32		mg/Kg		99	67 - 122
Benzo[a]pyrene	1.33	1.26		mg/Kg		95	65 - 133
Benzo[b]fluoranthene	1.33	1.39		mg/Kg		104	69 - 129
Benzo[g,h,i]perylene	1.33	1.45		mg/Kg		109	72 - 131
Benzo[k]fluoranthene	1.33	1.22		mg/Kg		92	68 - 127
Bis(2-chloroethoxy)methane	1.33	1.06		mg/Kg		80	60 - 112
Bis(2-chloroethyl)ether	1.33	0.981		mg/Kg		74	55 - 111
Bis(2-ethylhexyl) phthalate	1.33	1.22		mg/Kg		92	72 - 131
4-Bromophenyl phenyl ether	1.33	1.23		mg/Kg		92	68 - 118
Butyl benzyl phthalate	1.33	1.30		mg/Kg		98	71 - 129
Carbazole	1.33	1.22		mg/Kg		91	65 - 142
4-Chloroaniline	1.33	0.951		mg/Kg		71	30 - 150
4-Chloro-3-methylphenol	1.33	1.09		mg/Kg		82	65 - 122
2-Chloronaphthalene	1.33	1.21		mg/Kg		91	69 - 114
2-Chlorophenol	1.33	1.17		mg/Kg		88	64 - 110

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185943-1

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

Lab Sample ID: LCS 500-556975/2-A

Matrix: Solid

Analysis Batch: 557147

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 556975

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorophenyl phenyl ether	1.33	1.32		mg/Kg		99	62 - 119
Chrysene	1.33	1.30		mg/Kg		98	63 - 120
Dibenz(a,h)anthracene	1.33	1.35		mg/Kg		101	64 - 131
Dibenzofuran	1.33	1.32		mg/Kg		99	66 - 115
1,2-Dichlorobenzene	1.33	1.21		mg/Kg		90	62 - 110
1,3-Dichlorobenzene	1.33	1.17		mg/Kg		88	65 - 124
1,4-Dichlorobenzene	1.33	1.17		mg/Kg		87	61 - 110
3,3'-Dichlorobenzidine	1.33	0.989		mg/Kg		74	35 - 128
2,4-Dichlorophenol	1.33	1.26		mg/Kg		95	58 - 120
Diethyl phthalate	1.33	1.21		mg/Kg		91	58 - 120
2,4-Dimethylphenol	1.33	1.10		mg/Kg		83	60 - 110
Dimethyl phthalate	1.33	1.36		mg/Kg		102	69 - 116
Di-n-butyl phthalate	1.33	1.22		mg/Kg		91	65 - 120
4,6-Dinitro-2-methylphenol	2.67	0.709		mg/Kg		27	10 - 110
2,4-Dinitrophenol	2.67	<0.59		mg/Kg		19	10 - 100
2,4-Dinitrotoluene	1.33	1.46		mg/Kg		110	69 - 124
2,6-Dinitrotoluene	1.33	1.44		mg/Kg		108	70 - 123
Di-n-octyl phthalate	1.33	1.19		mg/Kg		89	68 - 134
Fluoranthene	1.33	1.32		mg/Kg		99	62 - 120
Fluorene	1.33	1.31		mg/Kg		98	62 - 120
Hexachlorobenzene	1.33	1.32		mg/Kg		99	63 - 124
Hexachlorobutadiene	1.33	1.42		mg/Kg		107	56 - 120
Hexachlorocyclopentadiene	1.33	1.11		mg/Kg		83	10 - 133
Hexachloroethane	1.33	1.06		mg/Kg		80	60 - 114
Indeno[1,2,3-cd]pyrene	1.33	1.50		mg/Kg		113	68 - 130
Isophorone	1.33	1.17		mg/Kg		88	55 - 110
2-Methylnaphthalene	1.33	1.36		mg/Kg		102	69 - 112
2-Methylphenol	1.33	1.32		mg/Kg		99	60 - 120
3 & 4 Methylphenol	1.33	1.14		mg/Kg		86	57 - 120
Naphthalene	1.33	1.25		mg/Kg		94	63 - 110
2-Nitroaniline	1.33	0.986		mg/Kg		74	57 - 124
3-Nitroaniline	1.33	0.812		mg/Kg		61	40 - 122
4-Nitroaniline	1.33	0.979		mg/Kg		73	60 - 160
Nitrobenzene	1.33	1.09		mg/Kg		82	60 - 116
2-Nitrophenol	1.33	1.28		mg/Kg		96	60 - 120
4-Nitrophenol	2.67	2.04		mg/Kg		77	30 - 122
N-Nitrosodi-n-propylamine	1.33	1.25		mg/Kg		94	56 - 118
N-Nitrosodiphenylamine	1.33	1.23		mg/Kg		92	65 - 112
2,2'-oxybis[1-chloropropane]	1.33	1.09		mg/Kg		82	40 - 124
Pentachlorophenol	2.67	1.36		mg/Kg		51	13 - 112
Phenanthrene	1.33	1.26		mg/Kg		95	62 - 120
Phenol	1.33	1.09		mg/Kg		82	56 - 122
Pyrene	1.33	1.37		mg/Kg		103	61 - 128
1,2,4-Trichlorobenzene	1.33	1.36		mg/Kg		102	66 - 117
2,4,5-Trichlorophenol	1.33	1.19		mg/Kg		89	50 - 120
2,4,6-Trichlorophenol	1.33	1.24		mg/Kg		93	57 - 120

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185943-1

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

Lab Sample ID: LCS 500-556975/2-A
Matrix: Solid
Analysis Batch: 557147

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556975

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	105		43 - 145
2-Fluorophenol	100		31 - 166
Nitrobenzene-d5	89		37 - 147
Phenol-d5	86		30 - 153
Terphenyl-d14	109		42 - 157
2,4,6-Tribromophenol	116		31 - 143

Lab Sample ID: 500-185943-6 MS
Matrix: Solid
Analysis Batch: 557105

Client Sample ID: 2412V2-13-B03 (0-5)
Prep Type: Total/NA
Prep Batch: 556975

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
Acenaphthene	0.0078	J	1.60	1.65		mg/Kg	☼	103	65 - 124
Acenaphthylene	0.0079	J	1.60	1.51		mg/Kg	☼	94	68 - 120
Anthracene	0.027	J	1.60	1.61		mg/Kg	☼	99	70 - 114
Benzo[a]anthracene	0.20		1.60	1.84		mg/Kg	☼	102	67 - 122
Benzo[a]pyrene	0.24		1.60	1.84		mg/Kg	☼	100	65 - 133
Benzo[b]fluoranthene	0.40		1.60	2.41		mg/Kg	☼	125	69 - 129
Benzo[g,h,i]perylene	0.11	F1	1.60	0.920	F1	mg/Kg	☼	51	72 - 131
Benzo[k]fluoranthene	0.14		1.60	2.05		mg/Kg	☼	119	68 - 127
Bis(2-chloroethoxy)methane	<0.040	F1	1.60	1.04		mg/Kg	☼	65	60 - 112
Bis(2-chloroethyl)ether	<0.058		1.60	1.15		mg/Kg	☼	72	55 - 111
Bis(2-ethylhexyl) phthalate	<0.071		1.60	1.89		mg/Kg	☼	118	72 - 131
4-Bromophenyl phenyl ether	<0.051		1.60	1.69		mg/Kg	☼	106	68 - 118
Butyl benzyl phthalate	<0.074		1.60	1.71		mg/Kg	☼	107	71 - 129
Carbazole	<0.097		1.60	1.61		mg/Kg	☼	101	65 - 142
4-Chloroaniline	<0.18		1.60	0.697	J	mg/Kg	☼	44	30 - 150
4-Chloro-3-methylphenol	<0.13		1.60	1.37		mg/Kg	☼	85	65 - 122
2-Chloronaphthalene	<0.043		1.60	1.50		mg/Kg	☼	93	69 - 114
2-Chlorophenol	<0.066		1.60	1.42		mg/Kg	☼	88	64 - 110
4-Chlorophenyl phenyl ether	<0.045		1.60	1.83		mg/Kg	☼	114	62 - 119
Chrysene	0.23		1.60	1.61		mg/Kg	☼	87	63 - 120
Dibenz(a,h)anthracene	0.030	J F1	1.60	0.946	F1	mg/Kg	☼	57	64 - 131
Dibenzofuran	<0.045		1.60	1.70		mg/Kg	☼	106	66 - 115
1,2-Dichlorobenzene	<0.046		1.60	1.37		mg/Kg	☼	86	62 - 110
1,3-Dichlorobenzene	<0.044		1.60	1.31		mg/Kg	☼	82	60 - 110
1,4-Dichlorobenzene	<0.050		1.60	1.31		mg/Kg	☼	82	61 - 110
3,3'-Dichlorobenzidine	<0.054	F1	1.60	0.342	F1	mg/Kg	☼	21	35 - 128
2,4-Dichlorophenol	<0.092		1.60	1.62		mg/Kg	☼	101	58 - 120
Diethyl phthalate	<0.066	F1	1.60	2.04	F1	mg/Kg	☼	127	58 - 120
2,4-Dimethylphenol	<0.15		1.60	1.31		mg/Kg	☼	82	60 - 110
Dimethyl phthalate	<0.051		1.60	1.68		mg/Kg	☼	105	69 - 116
Di-n-butyl phthalate	<0.059		1.60	1.67		mg/Kg	☼	105	65 - 120
4,6-Dinitro-2-methylphenol	<0.31	F1	3.20	<0.32	F1	mg/Kg	☼	0	10 - 110
2,4-Dinitrophenol	<0.68	F1	3.20	<0.70	F1	mg/Kg	☼	0	10 - 100
2,4-Dinitrotoluene	<0.062		1.60	1.34		mg/Kg	☼	84	69 - 124
2,6-Dinitrotoluene	<0.076		1.60	1.54		mg/Kg	☼	96	70 - 123
Di-n-octyl phthalate	<0.063		1.60	1.34		mg/Kg	☼	84	68 - 134

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185943-1

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

Lab Sample ID: 500-185943-6 MS

Matrix: Solid

Analysis Batch: 557105

Client Sample ID: 2412V2-13-B03 (0-5)

Prep Type: Total/NA

Prep Batch: 556975

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier		Result	Qualifier					
Fluoranthene	0.46	F1	1.60	2.64	F1	mg/Kg	☼	136	62 - 120	
Fluorene	0.0078	J	1.60	1.79		mg/Kg	☼	111	62 - 120	
Hexachlorobenzene	<0.0090	F1	1.60	2.05	F1	mg/Kg	☼	128	63 - 124	
Hexachlorobutadiene	<0.061		1.60	1.92		mg/Kg	☼	120	56 - 120	
Hexachlorocyclopentadiene	<0.22	F1	1.60	<0.23	F1	mg/Kg	☼	0	10 - 133	
Hexachloroethane	<0.059	F1	1.60	0.832	F1	mg/Kg	☼	52	60 - 114	
Indeno[1,2,3-cd]pyrene	0.077	F1	1.60	0.948	F1	mg/Kg	☼	54	68 - 130	
Isophorone	<0.044		1.60	1.13		mg/Kg	☼	71	55 - 110	
2-Methylnaphthalene	0.025	J	1.60	1.74		mg/Kg	☼	107	69 - 112	
2-Methylphenol	<0.062		1.60	1.21		mg/Kg	☼	75	60 - 120	
3 & 4 Methylphenol	<0.065		1.60	1.18		mg/Kg	☼	73	57 - 120	
Naphthalene	0.012	J	1.60	1.48		mg/Kg	☼	92	63 - 110	
2-Nitroaniline	<0.052		1.60	1.22		mg/Kg	☼	76	57 - 124	
3-Nitroaniline	<0.12		1.60	1.20		mg/Kg	☼	75	40 - 122	
4-Nitroaniline	<0.16		1.60	1.17		mg/Kg	☼	73	60 - 160	
Nitrobenzene	<0.0097		1.60	1.17		mg/Kg	☼	73	60 - 116	
2-Nitrophenol	<0.092		1.60	1.21		mg/Kg	☼	76	60 - 120	
4-Nitrophenol	<0.37		3.20	3.83		mg/Kg	☼	120	30 - 122	
N-Nitrosodi-n-propylamine	<0.047		1.60	1.05		mg/Kg	☼	66	56 - 118	
N-Nitrosodiphenylamine	<0.046		1.60	1.40		mg/Kg	☼	87	65 - 112	
2,2'-oxybis[1-chloropropane]	<0.045		1.60	1.29		mg/Kg	☼	81	40 - 124	
Pentachlorophenol	<0.62	F2	3.20	2.64		mg/Kg	☼	82	13 - 112	
Phenanthrene	0.18		1.60	1.95		mg/Kg	☼	111	62 - 120	
Phenol	<0.086		1.60	1.11		mg/Kg	☼	69	56 - 122	
Pyrene	0.41		1.60	2.37		mg/Kg	☼	122	61 - 128	
1,2,4-Trichlorobenzene	<0.042		1.60	1.69		mg/Kg	☼	105	66 - 117	
2,4,5-Trichlorophenol	<0.089		1.60	1.53		mg/Kg	☼	95	50 - 120	
2,4,6-Trichlorophenol	<0.13		1.60	1.68		mg/Kg	☼	105	57 - 120	

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	107		43 - 145
2-Fluorophenol	86		31 - 166
Nitrobenzene-d5	80		37 - 147
Phenol-d5	77		30 - 153
Terphenyl-d14	130		42 - 157
2,4,6-Tribromophenol	131		31 - 143

Lab Sample ID: 500-185943-6 MSD

Matrix: Solid

Analysis Batch: 557105

Client Sample ID: 2412V2-13-B03 (0-5)

Prep Type: Total/NA

Prep Batch: 556975

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec.	Limits	RPD	
	Result	Qualifier		Result	Qualifier						RPD	Limit
Acenaphthene	0.0078	J	1.53	1.34		mg/Kg	☼	87	65 - 124	21	30	
Acenaphthylene	0.0079	J	1.53	1.25		mg/Kg	☼	81	68 - 120	19	30	
Anthracene	0.027	J	1.53	1.36		mg/Kg	☼	87	70 - 114	17	30	
Benzo[a]anthracene	0.20		1.53	1.48		mg/Kg	☼	84	67 - 122	22	30	
Benzo[a]pyrene	0.24		1.53	1.48		mg/Kg	☼	81	65 - 133	22	30	
Benzo[b]fluoranthene	0.40		1.53	1.90		mg/Kg	☼	98	69 - 129	24	30	

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185943-1

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

Lab Sample ID: 500-185943-6 MSD

Matrix: Solid

Analysis Batch: 557105

Client Sample ID: 2412V2-13-B03 (0-5)

Prep Type: Total/NA

Prep Batch: 556975

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier		Result	Qualifier				Limits		Limit
Benzo[g,h,i]perylene	0.11	F1	1.53	0.730	F1	mg/Kg	☼	41	72 - 131	23	30
Benzo[k]fluoranthene	0.14		1.53	1.68		mg/Kg	☼	101	68 - 127	19	30
Bis(2-chloroethoxy)methane	<0.040	F1	1.53	0.897	F1	mg/Kg	☼	59	60 - 112	15	30
Bis(2-chloroethyl)ether	<0.058		1.53	0.983		mg/Kg	☼	64	55 - 111	16	30
Bis(2-ethylhexyl) phthalate	<0.071		1.53	1.62		mg/Kg	☼	106	72 - 131	15	30
4-Bromophenyl phenyl ether	<0.051		1.53	1.46		mg/Kg	☼	95	68 - 118	15	30
Butyl benzyl phthalate	<0.074		1.53	1.47		mg/Kg	☼	96	71 - 129	15	30
Carbazole	<0.097		1.53	1.41		mg/Kg	☼	92	65 - 142	13	30
4-Chloroaniline	<0.18		1.53	0.881		mg/Kg	☼	57	30 - 150	23	30
4-Chloro-3-methylphenol	<0.13		1.53	1.17		mg/Kg	☼	76	65 - 122	15	30
2-Chloronaphthalene	<0.043		1.53	1.25		mg/Kg	☼	81	69 - 114	18	30
2-Chlorophenol	<0.066		1.53	1.21		mg/Kg	☼	79	64 - 110	15	30
4-Chlorophenyl phenyl ether	<0.045		1.53	1.48		mg/Kg	☼	97	62 - 119	21	30
Chrysene	0.23		1.53	1.29		mg/Kg	☼	69	63 - 120	22	30
Dibenz(a,h)anthracene	0.030	J F1	1.53	0.769	F1	mg/Kg	☼	48	64 - 131	21	30
Dibenzofuran	<0.045		1.53	1.38		mg/Kg	☼	90	66 - 115	21	30
1,2-Dichlorobenzene	<0.046		1.53	1.19		mg/Kg	☼	78	62 - 110	14	30
1,3-Dichlorobenzene	<0.044		1.53	1.17		mg/Kg	☼	76	60 - 110	11	30
1,4-Dichlorobenzene	<0.050		1.53	1.16		mg/Kg	☼	76	61 - 110	12	30
3,3'-Dichlorobenzidine	<0.054	F1	1.53	0.404	F1	mg/Kg	☼	26	35 - 128	17	30
2,4-Dichlorophenol	<0.092		1.53	1.41		mg/Kg	☼	92	58 - 120	14	30
Diethyl phthalate	<0.066	F1	1.53	1.63		mg/Kg	☼	107	58 - 120	22	30
2,4-Dimethylphenol	<0.15		1.53	1.14		mg/Kg	☼	74	60 - 110	14	30
Dimethyl phthalate	<0.051		1.53	1.38		mg/Kg	☼	90	69 - 116	20	30
Di-n-butyl phthalate	<0.059		1.53	1.46		mg/Kg	☼	95	65 - 120	14	30
4,6-Dinitro-2-methylphenol	<0.31	F1	3.06	<0.31	F1	mg/Kg	☼	0	10 - 110	NC	30
2,4-Dinitrophenol	<0.68	F1	3.06	<0.67	F1	mg/Kg	☼	0	10 - 100	NC	30
2,4-Dinitrotoluene	<0.062		1.53	1.10		mg/Kg	☼	72	69 - 124	20	30
2,6-Dinitrotoluene	<0.076		1.53	1.29		mg/Kg	☼	84	70 - 123	18	30
Di-n-octyl phthalate	<0.063		1.53	1.16		mg/Kg	☼	76	68 - 134	15	30
Fluoranthene	0.46	F1	1.53	1.98		mg/Kg	☼	99	62 - 120	28	30
Fluorene	0.0078	J	1.53	1.46		mg/Kg	☼	95	62 - 120	20	30
Hexachlorobenzene	<0.0090	F1	1.53	1.74		mg/Kg	☼	114	63 - 124	16	30
Hexachlorobutadiene	<0.061		1.53	1.67		mg/Kg	☼	109	56 - 120	14	30
Hexachlorocyclopentadiene	<0.22	F1	1.53	<0.22	F1	mg/Kg	☼	0	10 - 133	NC	30
Hexachloroethane	<0.059	F1	1.53	0.713	F1	mg/Kg	☼	47	60 - 114	15	30
Indeno[1,2,3-cd]pyrene	0.077	F1	1.53	0.775	F1	mg/Kg	☼	46	68 - 130	20	30
Isophorone	<0.044		1.53	0.992		mg/Kg	☼	65	55 - 110	13	30
2-Methylnaphthalene	0.025	J	1.53	1.49		mg/Kg	☼	95	69 - 112	16	30
2-Methylphenol	<0.062		1.53	1.08		mg/Kg	☼	70	60 - 120	11	30
3 & 4 Methylphenol	<0.065		1.53	1.03		mg/Kg	☼	67	57 - 120	13	30
Naphthalene	0.012	J	1.53	1.27		mg/Kg	☼	82	63 - 110	15	30
2-Nitroaniline	<0.052		1.53	0.973		mg/Kg	☼	64	57 - 124	23	30
3-Nitroaniline	<0.12		1.53	1.18		mg/Kg	☼	77	40 - 122	2	30
4-Nitroaniline	<0.16		1.53	1.02		mg/Kg	☼	67	60 - 160	14	30
Nitrobenzene	<0.0097		1.53	0.995		mg/Kg	☼	65	60 - 116	16	30
2-Nitrophenol	<0.092		1.53	1.04		mg/Kg	☼	68	60 - 120	16	30
4-Nitrophenol	<0.37		3.06	3.20		mg/Kg	☼	104	30 - 122	18	30
N-Nitrosodi-n-propylamine	<0.047		1.53	0.901		mg/Kg	☼	59	56 - 118	15	30

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185943-1

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

Lab Sample ID: 500-185943-6 MSD

Matrix: Solid

Analysis Batch: 557105

Client Sample ID: 2412V2-13-B03 (0-5)

Prep Type: Total/NA

Prep Batch: 556975

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
N-Nitrosodiphenylamine	<0.046		1.53	1.20		mg/Kg	☼	78	65 - 112	15	30
2,2'-oxybis[1-chloropropane]	<0.045		1.53	1.12		mg/Kg	☼	73	40 - 124	15	30
Pentachlorophenol	<0.62	F2	3.06	1.32	F2	mg/Kg	☼	43	13 - 112	67	30
Phenanthrene	0.18		1.53	1.55		mg/Kg	☼	89	62 - 120	23	30
Phenol	<0.086		1.53	0.905		mg/Kg	☼	59	56 - 122	20	30
Pyrene	0.41		1.53	1.87		mg/Kg	☼	95	61 - 128	24	30
1,2,4-Trichlorobenzene	<0.042		1.53	1.44		mg/Kg	☼	94	66 - 117	16	30
2,4,5-Trichlorophenol	<0.089		1.53	1.32		mg/Kg	☼	86	50 - 120	15	30
2,4,6-Trichlorophenol	<0.13		1.53	1.34		mg/Kg	☼	87	57 - 120	23	30

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
2-Fluorobiphenyl	84		43 - 145
2-Fluorophenol	74		31 - 166
Nitrobenzene-d5	66		37 - 147
Phenol-d5	64		30 - 153
Terphenyl-d14	116		42 - 157
2,4,6-Tribromophenol	104		31 - 143

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-556317/1-A

Matrix: Solid

Analysis Batch: 556556

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 556317

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	0.463	J	2.0	0.39	mg/Kg		08/11/20 17:27	08/12/20 17:21	1
Arsenic	<0.34		1.0	0.34	mg/Kg		08/11/20 17:27	08/12/20 17:21	1
Barium	<0.11		1.0	0.11	mg/Kg		08/11/20 17:27	08/12/20 17:21	1
Beryllium	<0.093		0.40	0.093	mg/Kg		08/11/20 17:27	08/12/20 17:21	1
Cadmium	0.0475	J	0.20	0.036	mg/Kg		08/11/20 17:27	08/12/20 17:21	1
Chromium	0.592	J	1.0	0.50	mg/Kg		08/11/20 17:27	08/12/20 17:21	1
Cobalt	<0.13		0.50	0.13	mg/Kg		08/11/20 17:27	08/12/20 17:21	1
Copper	<0.28		1.0	0.28	mg/Kg		08/11/20 17:27	08/12/20 17:21	1
Iron	<10		20	10	mg/Kg		08/11/20 17:27	08/12/20 17:21	1
Lead	<0.23		0.50	0.23	mg/Kg		08/11/20 17:27	08/12/20 17:21	1
Magnesium	<5.0		10	5.0	mg/Kg		08/11/20 17:27	08/12/20 17:21	1
Calcium	7.58	J	20	3.4	mg/Kg		08/11/20 17:27	08/12/20 17:21	1
Manganese	<0.15		1.0	0.15	mg/Kg		08/11/20 17:27	08/12/20 17:21	1
Nickel	<0.29		1.0	0.29	mg/Kg		08/11/20 17:27	08/12/20 17:21	1
Selenium	<0.59		1.0	0.59	mg/Kg		08/11/20 17:27	08/12/20 17:21	1
Silver	<0.13		0.50	0.13	mg/Kg		08/11/20 17:27	08/12/20 17:21	1
Thallium	<0.50		1.0	0.50	mg/Kg		08/11/20 17:27	08/12/20 17:21	1
Vanadium	<0.12		0.50	0.12	mg/Kg		08/11/20 17:27	08/12/20 17:21	1
Zinc	<0.88		2.0	0.88	mg/Kg		08/11/20 17:27	08/12/20 17:21	1
Potassium	<18		50	18	mg/Kg		08/11/20 17:27	08/12/20 17:21	1
Sodium	<15		100	15	mg/Kg		08/11/20 17:27	08/12/20 17:21	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185943-1

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

Lab Sample ID: LCS 500-556317/2-A
Matrix: Solid
Analysis Batch: 556556

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556317
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	50.0	42.3		mg/Kg		85	80 - 120
Arsenic	10.0	9.01		mg/Kg		90	80 - 120
Barium	200	188		mg/Kg		94	80 - 120
Beryllium	5.00	4.65		mg/Kg		93	80 - 120
Cadmium	5.00	4.45		mg/Kg		89	80 - 120
Chromium	20.0	19.4		mg/Kg		97	80 - 120
Cobalt	50.0	47.5		mg/Kg		95	80 - 120
Copper	25.0	23.2		mg/Kg		93	80 - 120
Iron	100	88.1		mg/Kg		88	80 - 120
Lead	10.0	9.30		mg/Kg		93	80 - 120
Magnesium	1000	899		mg/Kg		90	80 - 120
Calcium	1000	926		mg/Kg		93	80 - 120
Manganese	50.0	46.1		mg/Kg		92	80 - 120
Nickel	50.0	48.3		mg/Kg		97	80 - 120
Selenium	10.0	8.01		mg/Kg		80	80 - 120
Silver	5.00	4.49		mg/Kg		90	80 - 120
Thallium	10.0	9.43		mg/Kg		94	80 - 120
Vanadium	50.0	47.3		mg/Kg		95	80 - 120
Zinc	50.0	46.3		mg/Kg		93	80 - 120
Potassium	1000	947		mg/Kg		95	80 - 120
Sodium	1000	956		mg/Kg		96	80 - 120

Lab Sample ID: LCS 500-557241/2-A
Matrix: Solid
Analysis Batch: 557412

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 557241
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Manganese	0.500	0.495		mg/L		99	80 - 120

Lab Sample ID: LCS 500-557243/2-A
Matrix: Solid
Analysis Batch: 557361

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 557243
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.100	0.110		mg/L		110	80 - 120
Barium	0.500	0.494	J	mg/L		99	80 - 120
Beryllium	0.0500	0.0487		mg/L		97	80 - 120
Cadmium	0.0500	0.0516		mg/L		103	80 - 120
Chromium	0.200	0.197		mg/L		99	80 - 120
Cobalt	0.500	0.534		mg/L		107	80 - 120
Copper	0.250	0.260		mg/L		104	80 - 120
Iron	1.00	1.04		mg/L		104	80 - 120
Lead	0.100	0.100		mg/L		100	80 - 120
Magnesium	10.0	9.52		mg/L		95	80 - 120
Calcium	10.0	10.2		mg/L		102	80 - 120
Manganese	0.500	0.483		mg/L		97	80 - 120
Nickel	0.500	0.528		mg/L		106	80 - 120
Selenium	0.100	0.113		mg/L		113	80 - 120
Silver	0.0500	0.0506		mg/L		101	80 - 120

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185943-1

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

Lab Sample ID: LCS 500-557243/2-A
Matrix: Solid
Analysis Batch: 557361

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 557243

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vanadium	0.500	0.492		mg/L		98	80 - 120
Zinc	0.500	0.603	*	mg/L		121	80 - 120
Potassium	10.0	10.3		mg/L		103	80 - 120

Lab Sample ID: LB 500-556917/1-B
Matrix: Solid
Analysis Batch: 557361

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 557243

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/17/20 17:19	08/18/20 05:03	1
Barium	<0.050		0.50	0.050	mg/L		08/17/20 17:19	08/18/20 05:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/17/20 17:19	08/18/20 05:03	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/17/20 17:19	08/18/20 05:03	1
Chromium	<0.010		0.025	0.010	mg/L		08/17/20 17:19	08/18/20 05:03	1
Cobalt	<0.010		0.025	0.010	mg/L		08/17/20 17:19	08/18/20 05:03	1
Copper	0.0137	J	0.025	0.010	mg/L		08/17/20 17:19	08/18/20 05:03	1
Iron	<0.20		0.40	0.20	mg/L		08/17/20 17:19	08/18/20 05:03	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/17/20 17:19	08/18/20 05:03	1
Magnesium	<0.50		2.5	0.50	mg/L		08/17/20 17:19	08/18/20 05:03	1
Calcium	<0.50		5.0	0.50	mg/L		08/17/20 17:19	08/18/20 05:03	1
Manganese	<0.010		0.025	0.010	mg/L		08/17/20 17:19	08/18/20 05:03	1
Nickel	<0.010		0.025	0.010	mg/L		08/17/20 17:19	08/18/20 05:03	1
Selenium	<0.020		0.050	0.020	mg/L		08/17/20 17:19	08/18/20 05:03	1
Silver	<0.010		0.025	0.010	mg/L		08/17/20 17:19	08/18/20 05:03	1
Vanadium	<0.010		0.025	0.010	mg/L		08/17/20 17:19	08/18/20 05:03	1
Zinc	0.0223	J	0.50	0.020	mg/L		08/17/20 17:19	08/18/20 05:03	1
Potassium	<0.50		2.5	0.50	mg/L		08/17/20 17:19	08/18/20 05:03	1

Lab Sample ID: LB 500-556906/1-B
Matrix: Solid
Analysis Batch: 557412

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 557241

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.010		0.025	0.010	mg/L		08/17/20 17:16	08/18/20 10:11	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-557243/2-A
Matrix: Solid
Analysis Batch: 557398

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 557243

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.567		mg/L		113	80 - 120
Thallium	0.100	0.125	*	mg/L		125	80 - 120

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185943-1

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

Lab Sample ID: LB 500-556917/1-B
Matrix: Solid
Analysis Batch: 557398

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 557243

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/17/20 17:19	08/18/20 10:29	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/17/20 17:19	08/18/20 10:29	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-557383/12-A
Matrix: Solid
Analysis Batch: 557609

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 557383

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/18/20 09:55	08/19/20 07:56	1

Lab Sample ID: LCS 500-557383/14-A
Matrix: Solid
Analysis Batch: 557609

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 557383

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00184		mg/L		92	80 - 120

Lab Sample ID: LB 500-556917/2-B
Matrix: Solid
Analysis Batch: 557609

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 557383

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/18/20 09:55	08/19/20 07:58	1

Lab Sample ID: 500-185943-7 MS
Matrix: Solid
Analysis Batch: 557609

Client Sample ID: 2412V2-13-B03 (5-7.5)
Prep Type: TCLP
Prep Batch: 557383

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	<0.00020		0.00100	0.000925		mg/L		93	75 - 125

Lab Sample ID: 500-185943-7 DU
Matrix: Solid
Analysis Batch: 557609

Client Sample ID: 2412V2-13-B03 (5-7.5)
Prep Type: TCLP
Prep Batch: 557383

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 500-556281/12-A
Matrix: Solid
Analysis Batch: 556451

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 556281

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		08/11/20 14:25	08/12/20 09:24	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185943-1

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 500-556281/13-A
Matrix: Solid
Analysis Batch: 556451

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556281
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.170		mg/Kg		102	80 - 120

Lab Sample ID: 500-185943-2 MS
Matrix: Solid
Analysis Batch: 556451

Client Sample ID: 2412V2-13-B01 (5-7.5)
Prep Type: Total/NA
Prep Batch: 556281
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	0.025		0.0933	0.123		mg/Kg	☼	105	75 - 125

Lab Sample ID: 500-185943-2 MSD
Matrix: Solid
Analysis Batch: 556451

Client Sample ID: 2412V2-13-B01 (5-7.5)
Prep Type: Total/NA
Prep Batch: 556281
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.025		0.0933	0.120		mg/Kg	☼	102	75 - 125	2	20

Lab Sample ID: 500-185943-2 DU
Matrix: Solid
Analysis Batch: 556451

Client Sample ID: 2412V2-13-B01 (5-7.5)
Prep Type: Total/NA
Prep Batch: 556281
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	DU Result	DU Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.025		0.0933	0.0213		mg/Kg	☼			16	20

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 500-556872/1-A
Matrix: Solid
Analysis Batch: 557430

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 556872

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.12		0.24	0.12	mg/Kg		08/14/20 15:05	08/17/20 14:28	1

Lab Sample ID: HLCS 500-556872/2-A
Matrix: Solid
Analysis Batch: 557430

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556872
%Rec.

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	12.0	13.1		mg/Kg		109	90 - 110

Lab Sample ID: LCS 500-556872/3-A
Matrix: Solid
Analysis Batch: 557430

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556872
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	2.40	2.32		mg/Kg		97	85 - 115

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185943-1

Method: 9012B - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: LLCS 500-556872/4-A
Matrix: Solid
Analysis Batch: 557430

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556872
%Rec.

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	1.20	1.34		mg/Kg		111	75 - 125

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185943-1

Client Sample ID: 2412V2-13-B01 (0-5)

Lab Sample ID: 500-185943-1

Date Collected: 08/04/20 10:20

Matrix: Solid

Date Received: 08/04/20 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			556906	08/14/20 12:25	JLC	TAL CHI
SPLP East	Prep	3010A			557241	08/17/20 17:16	BDE	TAL CHI
SPLP East	Analysis	6010B		1	557412	08/18/20 10:19	JEF	TAL CHI
TCLP	Leach	1311			556917	08/14/20 12:25	JLC	TAL CHI
TCLP	Prep	3010A			557243	08/17/20 17:19	BDE	TAL CHI
TCLP	Analysis	6010B		1	557361	08/18/20 05:36	JEF	TAL CHI
TCLP	Leach	1311			556917	08/14/20 12:25	JLC	TAL CHI
TCLP	Prep	3010A			557243	08/17/20 17:19	BDE	TAL CHI
TCLP	Analysis	6020A		1	557398	08/18/20 10:33	FXG	TAL CHI
TCLP	Leach	1311			556917	08/14/20 12:25	JLC	TAL CHI
TCLP	Prep	7470A			557383	08/18/20 09:55	MJG	TAL CHI
TCLP	Analysis	7470A		1	557609	08/19/20 08:06	MJG	TAL CHI
Total/NA	Analysis	9045D		1	556437	08/11/20 17:34	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	556605	08/13/20 07:39	LWN	TAL CHI

Client Sample ID: 2412V2-13-B01 (0-5)

Lab Sample ID: 500-185943-1

Date Collected: 08/04/20 10:20

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 82.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			556637	08/05/20 08:30	PMF	TAL CHI
Total/NA	Analysis	8260B		1	556601	08/13/20 12:04	PMF	TAL CHI
Total/NA	Prep	3541			556975	08/14/20 19:22	JP1	TAL CHI
Total/NA	Analysis	8270D		1	557105	08/17/20 12:29	AJD	TAL CHI
Total/NA	Prep	3050B			556317	08/11/20 17:27	BDE	TAL CHI
Total/NA	Analysis	6010B		1	556556	08/12/20 18:41	EEN	TAL CHI
Total/NA	Prep	3050B			556317	08/11/20 17:27	BDE	TAL CHI
Total/NA	Analysis	6010B		2	556572	08/13/20 01:02	EEN	TAL CHI
Total/NA	Prep	7471B			556281	08/11/20 14:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	556451	08/12/20 09:47	MJG	TAL CHI
Total/NA	Prep	9010C			556872	08/14/20 15:05	MS	TAL CHI
Total/NA	Analysis	9012B		1	557430		MS	TAL CHI
					(Start)	08/17/20 15:51		
					(End)	08/17/20 15:55		

Client Sample ID: 2412V2-13-B01 (5-7.5)

Lab Sample ID: 500-185943-2

Date Collected: 08/04/20 10:25

Matrix: Solid

Date Received: 08/04/20 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			556906	08/14/20 12:25	JLC	TAL CHI
SPLP East	Prep	3010A			557241	08/17/20 17:16	BDE	TAL CHI
SPLP East	Analysis	6010B		1	557412	08/18/20 10:23	JEF	TAL CHI
TCLP	Leach	1311			556917	08/14/20 12:25	JLC	TAL CHI
TCLP	Prep	3010A			557243	08/17/20 17:19	BDE	TAL CHI
TCLP	Analysis	6010B		1	557361	08/18/20 05:40	JEF	TAL CHI

Eurofins TestAmerica, Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185943-1

Client Sample ID: 2412V2-13-B01 (5-7.5)

Lab Sample ID: 500-185943-2

Date Collected: 08/04/20 10:25

Matrix: Solid

Date Received: 08/04/20 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			556917	08/14/20 12:25	JLC	TAL CHI
TCLP	Prep	3010A			557243	08/17/20 17:19	BDE	TAL CHI
TCLP	Analysis	6020A		1	557398	08/18/20 10:35	FXG	TAL CHI
TCLP	Leach	1311			556917	08/14/20 12:25	JLC	TAL CHI
TCLP	Prep	7470A			557383	08/18/20 09:55	MJG	TAL CHI
TCLP	Analysis	7470A		1	557609	08/19/20 08:09	MJG	TAL CHI
Total/NA	Analysis	9045D		1	556437	08/11/20 17:37	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	556605	08/13/20 07:39	LWN	TAL CHI

Client Sample ID: 2412V2-13-B01 (5-7.5)

Lab Sample ID: 500-185943-2

Date Collected: 08/04/20 10:25

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 87.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			556637	08/05/20 08:30	PMF	TAL CHI
Total/NA	Analysis	8260B		1	556601	08/13/20 12:30	PMF	TAL CHI
Total/NA	Prep	3541			556975	08/14/20 19:22	JP1	TAL CHI
Total/NA	Analysis	8270D		1	557147	08/17/20 14:15	AJD	TAL CHI
Total/NA	Prep	3050B			556317	08/11/20 17:27	BDE	TAL CHI
Total/NA	Analysis	6010B		1	556556	08/12/20 18:45	EEN	TAL CHI
Total/NA	Prep	3050B			556317	08/11/20 17:27	BDE	TAL CHI
Total/NA	Analysis	6010B		2	556572	08/13/20 01:06	EEN	TAL CHI
Total/NA	Prep	7471B			556281	08/11/20 14:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	556451	08/12/20 09:49	MJG	TAL CHI
Total/NA	Prep	9010C			556872	08/14/20 15:05	MS	TAL CHI
Total/NA	Analysis	9012B		1	557430		MS	TAL CHI
					(Start)	08/17/20 16:02		
					(End)	08/17/20 16:06		

Client Sample ID: 2412V2-13-B02 (0-5)

Lab Sample ID: 500-185943-3

Date Collected: 08/04/20 09:35

Matrix: Solid

Date Received: 08/04/20 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			556906	08/14/20 12:25	JLC	TAL CHI
SPLP East	Prep	3010A			557241	08/17/20 17:16	BDE	TAL CHI
SPLP East	Analysis	6010B		1	557412	08/18/20 10:27	JEF	TAL CHI
TCLP	Leach	1311			556917	08/14/20 12:25	JLC	TAL CHI
TCLP	Prep	3010A			557243	08/17/20 17:19	BDE	TAL CHI
TCLP	Analysis	6010B		1	557361	08/18/20 05:45	JEF	TAL CHI
TCLP	Leach	1311			556917	08/14/20 12:25	JLC	TAL CHI
TCLP	Prep	3010A			557243	08/17/20 17:19	BDE	TAL CHI
TCLP	Analysis	6020A		1	557398	08/18/20 10:37	FXG	TAL CHI
TCLP	Leach	1311			556917	08/14/20 12:25	JLC	TAL CHI
TCLP	Prep	7470A			557383	08/18/20 09:55	MJG	TAL CHI
TCLP	Analysis	7470A		1	557609	08/19/20 08:11	MJG	TAL CHI

Eurofins TestAmerica, Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185943-1

Client Sample ID: 2412V2-13-B02 (0-5)

Lab Sample ID: 500-185943-3

Date Collected: 08/04/20 09:35

Matrix: Solid

Date Received: 08/04/20 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	556437	08/11/20 17:39	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	556605	08/13/20 07:39	LWN	TAL CHI

Client Sample ID: 2412V2-13-B02 (0-5)

Lab Sample ID: 500-185943-3

Date Collected: 08/04/20 09:35

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 83.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			556637	08/05/20 08:30	PMF	TAL CHI
Total/NA	Analysis	8260B		1	556601	08/13/20 12:56	PMF	TAL CHI
Total/NA	Prep	3541			556975	08/14/20 19:22	JP1	TAL CHI
Total/NA	Analysis	8270D		1	557105	08/17/20 12:57	AJD	TAL CHI
Total/NA	Prep	3050B			556317	08/11/20 17:27	BDE	TAL CHI
Total/NA	Analysis	6010B		1	556556	08/12/20 18:49	EEN	TAL CHI
Total/NA	Prep	3050B			556317	08/11/20 17:27	BDE	TAL CHI
Total/NA	Analysis	6010B		2	556572	08/13/20 01:14	EEN	TAL CHI
Total/NA	Prep	7471B			556281	08/11/20 14:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	556451	08/12/20 09:56	MJG	TAL CHI
Total/NA	Prep	9010C			556872	08/14/20 15:05	MS	TAL CHI
Total/NA	Analysis	9012B		1	557430		MS	TAL CHI
					(Start)	08/17/20 16:06		
					(End)	08/17/20 16:09		

Client Sample ID: 2412V2-13-B02 (0-5) Dup

Lab Sample ID: 500-185943-4

Date Collected: 08/04/20 09:40

Matrix: Solid

Date Received: 08/04/20 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			556917	08/14/20 12:25	JLC	TAL CHI
TCLP	Prep	3010A			557243	08/17/20 17:19	BDE	TAL CHI
TCLP	Analysis	6010B		1	557361	08/18/20 05:49	JEF	TAL CHI
TCLP	Leach	1311			556917	08/14/20 12:25	JLC	TAL CHI
TCLP	Prep	3010A			557243	08/17/20 17:19	BDE	TAL CHI
TCLP	Analysis	6020A		1	557398	08/18/20 10:39	FXG	TAL CHI
TCLP	Leach	1311			556917	08/14/20 12:25	JLC	TAL CHI
TCLP	Prep	7470A			557383	08/18/20 09:55	MJG	TAL CHI
TCLP	Analysis	7470A		1	557609	08/19/20 08:13	MJG	TAL CHI
Total/NA	Analysis	9045D		1	556437	08/11/20 17:42	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	556605	08/13/20 07:39	LWN	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185943-1

Client Sample ID: 2412V2-13-B02 (0-5) Dup

Lab Sample ID: 500-185943-4

Date Collected: 08/04/20 09:40

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 82.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			556637	08/05/20 08:30	PMF	TAL CHI
Total/NA	Analysis	8260B		1	556601	08/13/20 13:21	PMF	TAL CHI
Total/NA	Prep	3541			556975	08/14/20 19:22	JP1	TAL CHI
Total/NA	Analysis	8270D		1	557105	08/17/20 13:24	AJD	TAL CHI
Total/NA	Prep	3050B			556317	08/11/20 17:27	BDE	TAL CHI
Total/NA	Analysis	6010B		1	556556	08/12/20 18:53	EEN	TAL CHI
Total/NA	Prep	7471B			556281	08/11/20 14:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	556451	08/12/20 09:58	MJG	TAL CHI
Total/NA	Prep	9010C			556872	08/14/20 15:05	MS	TAL CHI
Total/NA	Analysis	9012B		1	557430		MS	TAL CHI
					(Start)	08/17/20 16:09		
					(End)	08/17/20 16:13		

Client Sample ID: 2412V2-13-B02 (5-7.5)

Lab Sample ID: 500-185943-5

Date Collected: 08/04/20 09:45

Matrix: Solid

Date Received: 08/04/20 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			556906	08/14/20 12:25	JLC	TAL CHI
SPLP East	Prep	3010A			557241	08/17/20 17:16	BDE	TAL CHI
SPLP East	Analysis	6010B		1	557412	08/18/20 10:35	JEF	TAL CHI
TCLP	Leach	1311			556917	08/14/20 12:25	JLC	TAL CHI
TCLP	Prep	3010A			557243	08/17/20 17:19	BDE	TAL CHI
TCLP	Analysis	6010B		1	557361	08/18/20 05:53	JEF	TAL CHI
TCLP	Leach	1311			556917	08/14/20 12:25	JLC	TAL CHI
TCLP	Prep	3010A			557243	08/17/20 17:19	BDE	TAL CHI
TCLP	Analysis	6020A		1	557398	08/18/20 10:41	FXG	TAL CHI
TCLP	Leach	1311			556917	08/14/20 12:25	JLC	TAL CHI
TCLP	Prep	7470A			557383	08/18/20 09:55	MJG	TAL CHI
TCLP	Analysis	7470A		1	557609	08/19/20 08:15	MJG	TAL CHI
Total/NA	Analysis	9045D		1	556437	08/11/20 17:44	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	556605	08/13/20 07:39	LWN	TAL CHI

Client Sample ID: 2412V2-13-B02 (5-7.5)

Lab Sample ID: 500-185943-5

Date Collected: 08/04/20 09:45

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 90.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			556637	08/05/20 08:30	PMF	TAL CHI
Total/NA	Analysis	8260B		1	556601	08/13/20 13:47	PMF	TAL CHI
Total/NA	Prep	3541			556975	08/14/20 19:22	JP1	TAL CHI
Total/NA	Analysis	8270D		1	557147	08/17/20 14:42	AJD	TAL CHI
Total/NA	Prep	3050B			556317	08/11/20 17:27	BDE	TAL CHI
Total/NA	Analysis	6010B		1	556556	08/12/20 18:57	EEN	TAL CHI

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Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185943-1

Client Sample ID: 2412V2-13-B02 (5-7.5)

Lab Sample ID: 500-185943-5

Date Collected: 08/04/20 09:45

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 90.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			556317	08/11/20 17:27	BDE	TAL CHI
Total/NA	Analysis	6010B		10	556572	08/13/20 01:18	EEN	TAL CHI
Total/NA	Prep	7471B			556281	08/11/20 14:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	556451	08/12/20 10:00	MJG	TAL CHI
Total/NA	Prep	9010C			556872	08/14/20 15:05	MS	TAL CHI
Total/NA	Analysis	9012B		1	557430		MS	TAL CHI
					(Start)	08/17/20 16:13		
					(End)	08/17/20 16:17		

Client Sample ID: 2412V2-13-B03 (0-5)

Lab Sample ID: 500-185943-6

Date Collected: 08/04/20 10:45

Matrix: Solid

Date Received: 08/04/20 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			556906	08/14/20 12:25	JLC	TAL CHI
SPLP East	Prep	3010A			557241	08/17/20 17:16	BDE	TAL CHI
SPLP East	Analysis	6010B		1	557412	08/18/20 10:39	JEF	TAL CHI
TCLP	Leach	1311			556917	08/14/20 12:25	JLC	TAL CHI
TCLP	Prep	3010A			557243	08/17/20 17:19	BDE	TAL CHI
TCLP	Analysis	6010B		1	557361	08/18/20 05:57	JEF	TAL CHI
TCLP	Leach	1311			556917	08/14/20 12:25	JLC	TAL CHI
TCLP	Prep	3010A			557243	08/17/20 17:19	BDE	TAL CHI
TCLP	Analysis	6020A		1	557398	08/18/20 10:43	FXG	TAL CHI
TCLP	Leach	1311			556917	08/14/20 12:25	JLC	TAL CHI
TCLP	Prep	7470A			557383	08/18/20 09:55	MJG	TAL CHI
TCLP	Analysis	7470A		1	557609	08/19/20 08:21	MJG	TAL CHI
Total/NA	Analysis	9045D		1	556437	08/11/20 17:47	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	556605	08/13/20 07:39	LWN	TAL CHI

Client Sample ID: 2412V2-13-B03 (0-5)

Lab Sample ID: 500-185943-6

Date Collected: 08/04/20 10:45

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 82.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			556637	08/05/20 08:30	PMF	TAL CHI
Total/NA	Analysis	8260B		1	556601	08/13/20 14:12	PMF	TAL CHI
Total/NA	Prep	3541			556975	08/14/20 19:22	JP1	TAL CHI
Total/NA	Analysis	8270D		1	557105	08/17/20 16:32	AJD	TAL CHI
Total/NA	Prep	3050B			556317	08/11/20 17:27	BDE	TAL CHI
Total/NA	Analysis	6010B		1	556556	08/12/20 19:01	EEN	TAL CHI
Total/NA	Prep	3050B			556317	08/11/20 17:27	BDE	TAL CHI
Total/NA	Analysis	6010B		2	556572	08/13/20 01:22	EEN	TAL CHI
Total/NA	Prep	7471B			556281	08/11/20 14:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	556451	08/12/20 10:12	MJG	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185943-1

Client Sample ID: 2412V2-13-B03 (0-5)

Lab Sample ID: 500-185943-6

Date Collected: 08/04/20 10:45

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 82.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	9010C			556872	08/14/20 15:05	MS	TAL CHI
Total/NA	Analysis	9012B		1	557430	08/17/20 16:17 (Start)	MS	TAL CHI
						08/17/20 16:20 (End)		

Client Sample ID: 2412V2-13-B03 (5-7.5)

Lab Sample ID: 500-185943-7

Date Collected: 08/04/20 10:50

Matrix: Solid

Date Received: 08/04/20 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			556906	08/14/20 12:25	JLC	TAL CHI
SPLP East	Prep	3010A			557241	08/17/20 17:16	BDE	TAL CHI
SPLP East	Analysis	6010B		1	557412	08/18/20 10:55	JEF	TAL CHI
TCLP	Leach	1311			556917	08/14/20 12:25	JLC	TAL CHI
TCLP	Prep	3010A			557243	08/17/20 17:19	BDE	TAL CHI
TCLP	Analysis	6010B		1	557361	08/18/20 06:02	JEF	TAL CHI
TCLP	Leach	1311			556917	08/14/20 12:25	JLC	TAL CHI
TCLP	Prep	3010A			557243	08/17/20 17:19	BDE	TAL CHI
TCLP	Analysis	6020A		1	557398	08/18/20 10:45	FXG	TAL CHI
TCLP	Leach	1311			556917	08/14/20 12:25	JLC	TAL CHI
TCLP	Prep	7470A			557383	08/18/20 09:55	MJG	TAL CHI
TCLP	Analysis	7470A		1	557609	08/19/20 08:23	MJG	TAL CHI
Total/NA	Analysis	9045D		1	556437	08/11/20 17:49	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	556605	08/13/20 07:39	LWN	TAL CHI

Client Sample ID: 2412V2-13-B03 (5-7.5)

Lab Sample ID: 500-185943-7

Date Collected: 08/04/20 10:50

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 86.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			556637	08/05/20 08:30	PMF	TAL CHI
Total/NA	Analysis	8260B		1	556601	08/13/20 14:38	PMF	TAL CHI
Total/NA	Prep	3541			556975	08/14/20 19:22	JP1	TAL CHI
Total/NA	Analysis	8270D		1	557105	08/17/20 12:02	AJD	TAL CHI
Total/NA	Prep	3050B			556317	08/11/20 17:27	BDE	TAL CHI
Total/NA	Analysis	6010B		1	556556	08/12/20 19:13	EEN	TAL CHI
Total/NA	Prep	3050B			556317	08/11/20 17:27	BDE	TAL CHI
Total/NA	Analysis	6010B		2	556572	08/13/20 01:26	EEN	TAL CHI
Total/NA	Prep	7471B			556281	08/11/20 14:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	556451	08/12/20 10:14	MJG	TAL CHI
Total/NA	Prep	9010C			556872	08/14/20 15:05	MS	TAL CHI
Total/NA	Analysis	9012B		1	557430	08/17/20 16:20 (Start)	MS	TAL CHI
						08/17/20 16:24 (End)		

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185943-1

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

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Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185943-1

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-21

- 1
- 2
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- 10
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- 12
- 13
- 14

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 604
Phone: 708.534.5200 Fax: 708.534.1



500-185943 COC

Report To (optional)
Contact: Math Weiss
Company: Terracon
Address: 192 Elkridge Blvd
Address: Blondelle Heights, IL
Phone: 630-445-0160
Fax:
E-Mail: math.weiss@terracon.com

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

Chain of Custody Record

Lab Job #: 500-185943

Chain of Custody Number: _____

Page 1 of 1

Temperature °C of Cooler: 5.8, 4.3, 5.9, 4.4

Client		Client Project #		Preservative		Parameter		Comments								
Terracon		11207011P														
Project Name				Date		Time		Matrix								
11207011P				8/14/20		1020		Voc's								
Project Location/State		Lab Project #		Date		Time		Matrix								
Hampshire, IL				8/14/20		1025		Sulc's								
Sampler		Lab PM		Date		Time		Matrix								
D.G. Fl				8/14/20		0935		Total 23								
Lab ID	M/S/MSD	Sample ID	Date	Time	# of Containers	Matrix	Voc's	Sulc's	Total 23	Inorganics	pH	TCUP 23	Inorganics	SPCL 23	Inorganics	Comments
1		241202-13-B01 (0-5)	8/14/20	1020	6	SO	X	X	X	X	X	X	X	X		
2		241202-13-B01 (5-7.5)	8/14/20	1025	6	SO	X	X	X	X	X	X	X	X		
3		241202-13-B02 (0-5)	8/14/20	0935	6	SO	X	X	X	X	X	X	X	X		
4		241202-13-B02 (0-5) Dup	8/14/20	0940	6	SO	X	X	X	X	X	X	X	X		
5		241202-13-B02 (5-7.5)	8/14/20	0945	6	SO	X	X	X	X	X	X	X	X		
6		241202-13-B03 (0-5)	8/14/20	1045	6	SO	X	X	X	X	X	X	X	X		
7		241202-13-B03 (5-7.5)	8/14/20	1050	6	SO	X	X	X	X	X	X	X	X		

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

Turnaround Time Required (Business Days)

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

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>Van Wagon</u>	Company Terracon	Date 8/14/2020	Time 1600	Received By <u>[Signature]</u>	Company TH	Date 8/14/20	Time 1600
Relinquished By <u>P. Neal</u>	Company TH	Date 8/14/20	Time 1740	Received By <u>[Signature]</u>	Company TH-ENT	Date 8/15/20	Time 0730

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:
* STANDARD TURN
* NO ALUMINUM
* Hold SPCL 23 Inorganics per Terracon Instruction

Lab Comments: _____

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-185943-1

Login Number: 185943

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.8,4.3,5.9,4.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 557-IL Route 72 at State Street/Getzelman Rd Office Phone Number, if available: _____

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

IL Route 72 (Eastbound) IDOT STA 497+20 to 498+50 (ISGS Site 2412V2-15)

City: Hampshire State: IL Zip Code: 60140

County: Kane Township: Hampshire

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

Latitude: 42.08832 Longitude: - 88.53013

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

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

Estimated Volume of debris (cu. Yd.): 74

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

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

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

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

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

Soil from boring B01 was sampled adjacent to ISGS Site No 2412V2-15.

See Exhibit 2 and Table 19 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 J185873-1.

Also see Preliminary Site Investigation Report prepared by Terracon. CCDD/USFO facility in MSA County.

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

I, Matt Weiss (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51 a] 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

Printed Name: _____

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Date:

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

Comparison of Detected Constituents to MACs-PTB 174-009;Work Order:074A
Preliminary Site Investigation
FAP 557-IL Route 72 at State St./Getzelman Road (PESA #2412V2-15)
Hampshire, Kane Co, IL
Terracon Project No. 11207011P
Page 1 of 2

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2412V2-15-B01 (0-5)	2412V2-15-B01 (5-7.5)
				CCDD	Sample Depth (feet)	(0-5)	(5-7.5)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	8/3/2020	8/3/2020
Volatile Organic Analytical Parameters							
Acetone	mg/kg	---	---	25		0.022	<0.0064
Inorganic Analytical Parameters							
Arsenic	mg/kg	---	13	11.3		5.6	6.2
Barium	mg/kg	---	110	1500		75	53
Cadmium	mg/kg	---	0.6	5.2		0.09	0.035
Chromium, total	mg/kg	---	16.2	21		15	17
Lead	mg/kg	---	36	107		20	12
Mercury	mg/kg	---	0.06	0.89		0.052	0.027
Selenium	mg/kg	---	0.48	1.3		<0.32	<0.33
Silver	mg/kg	---	0.55	4.4		<0.070	<0.073
Antimony	mg/kg	---	4.0	5		<0.21	0.43
Beryllium	mg/kg	---	0.59	22		0.66	0.74
Calcium	mg/kg	---	9,300	---		16000	6600
Cobalt	mg/kg	---	8.9	20		8	8.4
Copper	mg/kg	---	19.6	2900		14	17
Cyanide	mg/kg	---	0.51	---		0.19	0.2
Iron	mg/kg	---	15,900	15000		15000	17000
Magnesium	mg/kg	---	4,820	325000		11000	6200
Manganese	mg/kg	---	636	630		340	400
Nickel	mg/kg	---	18	100		20	25
Potassium	mg/kg	---	1,268	---		1500	2400
Sodium	mg/kg	---	130	---		110	95
Thallium	mg/kg	---	0.32	2.6		0.35	0.31
Vanadium	mg/kg	---	25.2	550		26	25
Zinc	mg/kg	---	95	5100		61	54
pH			6.25	9		8	8

Comparison of Detected Constituents to MACs-PTB 174-009;Work Order:074A
Preliminary Site Investigation
FAP 557-IL Route 72 at State St./Getzelman Road (PESA #2412V2-15)
Hampshire, Kane Co, IL
Terracon Project No. 11207011P
Page 2 of 2

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2412V2-15-B01 (0-5)	2412V2-15-B01 (5-7.5)
				CCDD	Sample Depth (feet)	(0-5)	(5-7.5)
		mg/kg	Date Collected	8/3/2020	8/3/2020		
		Chicago	MSAs	pH 6.25-9.0			
Inorganic Analytical Parameters (SPLP)							
Antimony,SPLP	mg/L	---	---	---		--	--
Arsenic,SPLP	mg/L	---	---	---		--	--
Barium,SPLP	mg/L	---	---	---		--	--
Beryllium,SPLP	mg/L	---	---	---		--	--
Cadmium,SPLP	mg/L	---	---	---		--	--
Calcium,SPLP	mg/L	---	---	---		--	--
Chromium,SPLP	mg/L	---	---	---		--	--
Cobalt,SPLP	mg/L	---	---	---		--	--
Copper,SPLP	mg/L	---	---	---		--	--
Iron,SPLP	mg/L	---	---	---		--	--
Lead,SPLP	mg/L	---	---	---		--	--
Magnesium,SPLP	mg/L	---	---	---		--	--
Manganese,SPLP	mg/L	---	---	---		0.22	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
Barium,TCLP	mg/L	---	---	---		0.76	0.63
Cadmium,TCLP	mg/L	---	---	---		<0.0020	0.002
Chromium,TCLP	mg/L	---	---	---		<0.010	0.028
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	---	---	---		280	240
Cobalt,TCLP	mg/L	---	---	---		0.022	<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	---	---	---		120	120
Manganese,TCLP	mg/L	---	---	---		6.9	7.7
Nickel,TCLP	mg/L	---	---	---		0.02	0.043
Potassium,TCLP	mg/L	---	---	---		3.1	20
Sodium,TCLP	mg/L	---	---	---		--	--
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.010	<0.010
Zinc,TCLP	mg/L	---	---	---		0.096	0.023

ANALYTICAL REPORT

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

Laboratory Job ID: 500-185873-1
Client Project/Site: IDOT - Hampshire - WO 074
Revision: 1

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

Attn: Mr. Matthew Weiss



Authorized for release by:
8/25/2020 9:07:05 AM

Richard Wright, Senior Project Manager
(708)746-0045
Richard.Wright@Eurofinset.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 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 - Hampshire - WO 074

Job ID: 500-185873-1

Job ID: 500-185873-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-185873-1

Revision

The report being provided is a revision of the original report sent on 8/17/2020. The report (revision 1) is being revised due to correction and removal of "NR" VOC results for lab sample 2.

Receipt

The samples were received on 8/3/2020 6:25 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 5.4° C, 5.7° C and 5.9° C.

GC/MS VOA

Method 8260B: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for 556063 recovered outside control limits for the following analytes: Bromomethane and Chloroethane. These analytes were not detected in the associated samples; therefore, the data have been reported.2412V2-15-B01 (0-5) (500-185873-1) and 2412V2-15-B01 (5-7.5) (500-185873-2)

Method 8260B: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for 556207 recovered outside control limits for the following analytes: Bromomethane and Chloromethane. These analytes were not detected in the associated samples; therefore, the data have been reported.2412V2-15-B02 (0-5) (500-185873-3), 2412V2-15-B02 (0-5) Dup (500-185873-4), 2412V2-15-B02 (5-7.5) (500-185873-5), 2412V2-15-B03 (0-5) (500-185873-6) and 2412V2-15-B03 (5-7.5) (500-185873-7)

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 6010B: The following sample was diluted due to the abundance of non-target analytes: 2412V2-15-B02 (0-5) (500-185873-3). Elevated reporting limits (RLs) are provided.

Method 6010B: The continuing calibration blanks (CCB) contained Iron above the reporting limit (RL). The sample 2412V2-15-B01 (5-7.5) (500-185873-2) associated with this CCB did not contain the target compound; therefore, re-analysis of samples was 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 - Hampshire - WO 074

Job ID: 500-185873-1

Client Sample ID: 2412V2-15-B01 (0-5)

Lab Sample ID: 500-185873-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.022		0.016	0.0070	mg/Kg	1	✳	8260B	Total/NA
Arsenic	5.6		0.55	0.19	mg/Kg	1	✳	6010B	Total/NA
Barium	75		0.55	0.062	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.66		0.22	0.051	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.090	J B F1	0.11	0.020	mg/Kg	1	✳	6010B	Total/NA
Chromium	15		0.55	0.27	mg/Kg	1	✳	6010B	Total/NA
Cobalt	8.0		0.27	0.071	mg/Kg	1	✳	6010B	Total/NA
Copper	14		0.55	0.15	mg/Kg	1	✳	6010B	Total/NA
Iron	15000		11	5.7	mg/Kg	1	✳	6010B	Total/NA
Lead	20	F1	0.27	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	11000	F2	5.5	2.7	mg/Kg	1	✳	6010B	Total/NA
Calcium	16000	F2	11	1.8	mg/Kg	1	✳	6010B	Total/NA
Manganese	340	F2	0.55	0.079	mg/Kg	1	✳	6010B	Total/NA
Nickel	20		0.55	0.16	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.35	J	0.55	0.27	mg/Kg	1	✳	6010B	Total/NA
Vanadium	26		0.27	0.064	mg/Kg	1	✳	6010B	Total/NA
Zinc	61		1.1	0.48	mg/Kg	1	✳	6010B	Total/NA
Potassium	1500	F1	27	9.7	mg/Kg	1	✳	6010B	Total/NA
Sodium	110		55	8.1	mg/Kg	1	✳	6010B	Total/NA
Barium	0.76		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	280		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.022	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	120		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	6.9		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.020	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.1		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.096	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.22		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.052		0.018	0.0060	mg/Kg	1	✳	7471B	Total/NA
Cyanide, Total	0.19	J	0.33	0.16	mg/Kg	1	✳	9012B	Total/NA
pH	8.0		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2412V2-15-B01 (5-7.5)

Lab Sample ID: 500-185873-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.43	J	1.1	0.22	mg/Kg	1	✳	6010B	Total/NA
Arsenic	6.2		0.57	0.19	mg/Kg	1	✳	6010B	Total/NA
Barium	53		0.57	0.064	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.74		0.23	0.053	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.035	J B	0.11	0.020	mg/Kg	1	✳	6010B	Total/NA
Chromium	17		0.57	0.28	mg/Kg	1	✳	6010B	Total/NA
Cobalt	8.4		0.28	0.074	mg/Kg	1	✳	6010B	Total/NA
Copper	17		0.57	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	17000		11	5.9	mg/Kg	1	✳	6010B	Total/NA
Lead	12		0.28	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	6200		5.7	2.8	mg/Kg	1	✳	6010B	Total/NA
Calcium	6600		11	1.9	mg/Kg	1	✳	6010B	Total/NA
Manganese	400		0.57	0.082	mg/Kg	1	✳	6010B	Total/NA
Nickel	25		0.57	0.16	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.31	J	0.57	0.28	mg/Kg	1	✳	6010B	Total/NA
Vanadium	25		0.28	0.067	mg/Kg	1	✳	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185873-1

Client Sample ID: 2412V2-15-B01 (5-7.5) (Continued)

Lab Sample ID: 500-185873-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	54		1.1	0.50	mg/Kg	1	☼	6010B	Total/NA
Potassium	2400		28	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	95		57	8.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.63		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0020	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	240		5.0	0.50	mg/L	1		6010B	TCLP
Chromium	0.028		0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	120		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	7.7		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.043		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	20		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.023	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.027		0.017	0.0058	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.20	J	0.32	0.16	mg/Kg	1	☼	9012B	Total/NA
pH	8.0		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2412V2-15-B02 (0-5)

Lab Sample ID: 500-185873-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.30	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.8		0.57	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	72		0.57	0.065	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.83		0.23	0.054	mg/Kg	1	☼	6010B	Total/NA
Chromium	20		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.1		0.57	0.15	mg/Kg	2	☼	6010B	Total/NA
Copper	14		0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	19000		11	6.0	mg/Kg	1	☼	6010B	Total/NA
Lead	17		0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	3500		5.7	2.8	mg/Kg	1	☼	6010B	Total/NA
Calcium	2600		11	1.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	210		0.57	0.083	mg/Kg	1	☼	6010B	Total/NA
Nickel	20		0.57	0.17	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.40	J	0.57	0.34	mg/Kg	1	☼	6010B	Total/NA
Vanadium	34		0.29	0.068	mg/Kg	1	☼	6010B	Total/NA
Zinc	56		1.1	0.50	mg/Kg	1	☼	6010B	Total/NA
Potassium	1300		29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	950		57	8.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.28	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	63		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	22		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.13		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.2	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.021	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.023		0.019	0.0062	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.19	J	0.28	0.14	mg/Kg	1	☼	9012B	Total/NA
pH	8.4		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2412V2-15-B02 (0-5) Dup

Lab Sample ID: 500-185873-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0068	J	0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185873-1

Client Sample ID: 2412V2-15-B02 (0-5) Dup (Continued)

Lab Sample ID: 500-185873-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	0.0088	J	0.039	0.0076	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.0091	J	0.039	0.0085	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.015	J	0.039	0.0073	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.015	J	0.039	0.0078	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.35	J	1.1	0.22	mg/Kg	1	✳	6010B	Total/NA
Arsenic	5.7		0.57	0.19	mg/Kg	1	✳	6010B	Total/NA
Barium	66		0.57	0.065	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.72		0.23	0.053	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.041	J B	0.11	0.020	mg/Kg	1	✳	6010B	Total/NA
Chromium	17		0.57	0.28	mg/Kg	1	✳	6010B	Total/NA
Cobalt	8.9		0.28	0.074	mg/Kg	1	✳	6010B	Total/NA
Copper	13		0.57	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	15000		11	5.9	mg/Kg	1	✳	6010B	Total/NA
Lead	16		0.28	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	3400		5.7	2.8	mg/Kg	1	✳	6010B	Total/NA
Calcium	3000		11	1.9	mg/Kg	1	✳	6010B	Total/NA
Manganese	250		0.57	0.082	mg/Kg	1	✳	6010B	Total/NA
Nickel	19		0.57	0.16	mg/Kg	1	✳	6010B	Total/NA
Vanadium	29		0.28	0.067	mg/Kg	1	✳	6010B	Total/NA
Zinc	50		1.1	0.50	mg/Kg	1	✳	6010B	Total/NA
Potassium	1400		28	10	mg/Kg	1	✳	6010B	Total/NA
Sodium	790		57	8.4	mg/Kg	1	✳	6010B	Total/NA
Barium	0.35	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	110		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	31		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.19		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.3	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.024	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.2		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.025		0.019	0.0062	mg/Kg	1	✳	7471B	Total/NA
pH	8.5		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2412V2-15-B02 (5-7.5)

Lab Sample ID: 500-185873-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.9		0.57	0.19	mg/Kg	1	✳	6010B	Total/NA
Barium	21		0.57	0.064	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.38		0.23	0.053	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.091	J B	0.11	0.020	mg/Kg	1	✳	6010B	Total/NA
Chromium	8.2		0.57	0.28	mg/Kg	1	✳	6010B	Total/NA
Cobalt	4.5		0.28	0.074	mg/Kg	1	✳	6010B	Total/NA
Copper	9.8		0.57	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	9000		11	5.9	mg/Kg	1	✳	6010B	Total/NA
Lead	5.9		0.28	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	21000		5.7	2.8	mg/Kg	1	✳	6010B	Total/NA
Calcium	33000		11	1.9	mg/Kg	1	✳	6010B	Total/NA
Manganese	190		0.57	0.082	mg/Kg	1	✳	6010B	Total/NA
Nickel	11		0.57	0.16	mg/Kg	1	✳	6010B	Total/NA
Vanadium	15		0.28	0.067	mg/Kg	1	✳	6010B	Total/NA
Zinc	27		1.1	0.50	mg/Kg	1	✳	6010B	Total/NA
Potassium	900		28	10	mg/Kg	1	✳	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185873-1

Client Sample ID: 2412V2-15-B02 (5-7.5) (Continued)

Lab Sample ID: 500-185873-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	420		57	8.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.21	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	300		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	170		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.87		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.6	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.076	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.63		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.013	J	0.018	0.0059	mg/Kg	1	☼	7471B	Total/NA
pH	9.1		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2412V2-15-B03 (0-5)

Lab Sample ID: 500-185873-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0065	J	0.039	0.0052	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.013	J	0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0057	J	0.039	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.012	J	0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.32	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.6		0.56	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	56		0.56	0.064	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.65		0.22	0.052	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.032	J B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.6		0.28	0.074	mg/Kg	1	☼	6010B	Total/NA
Copper	13		0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	15000		11	5.8	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	6800		5.6	2.8	mg/Kg	1	☼	6010B	Total/NA
Calcium	9000		11	1.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	350		0.56	0.081	mg/Kg	1	☼	6010B	Total/NA
Nickel	23		0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.34	J	0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	24		0.28	0.066	mg/Kg	1	☼	6010B	Total/NA
Zinc	48		1.1	0.49	mg/Kg	1	☼	6010B	Total/NA
Potassium	1200		28	9.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	600		56	8.3	mg/Kg	1	☼	6010B	Total/NA
Barium	0.55		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	380		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	170		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.75		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.016	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.86	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.0		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.037		0.018	0.0060	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.13	J	0.26	0.13	mg/Kg	1	☼	9012B	Total/NA
pH	9.0		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185873-1

Client Sample ID: 2412V2-15-B03 (5-7.5)

Lab Sample ID: 500-185873-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Benzo[b]fluoranthene	0.011	J	0.036	0.0079	mg/Kg	1	✳		8270D	Total/NA
Fluoranthene	0.011	J	0.036	0.0067	mg/Kg	1	✳		8270D	Total/NA
Pyrene	0.010	J	0.036	0.0072	mg/Kg	1	✳		8270D	Total/NA
Antimony	0.46	J	1.1	0.21	mg/Kg	1	✳		6010B	Total/NA
Arsenic	6.7		0.55	0.19	mg/Kg	1	✳		6010B	Total/NA
Barium	28		0.55	0.063	mg/Kg	1	✳		6010B	Total/NA
Beryllium	0.33		0.22	0.051	mg/Kg	1	✳		6010B	Total/NA
Cadmium	0.10	J B	0.11	0.020	mg/Kg	1	✳		6010B	Total/NA
Chromium	7.4		0.55	0.27	mg/Kg	1	✳		6010B	Total/NA
Cobalt	3.8		0.28	0.072	mg/Kg	1	✳		6010B	Total/NA
Copper	8.1		0.55	0.15	mg/Kg	1	✳		6010B	Total/NA
Iron	11000		11	5.7	mg/Kg	1	✳		6010B	Total/NA
Lead	6.4		0.28	0.13	mg/Kg	1	✳		6010B	Total/NA
Magnesium	32000		5.5	2.7	mg/Kg	1	✳		6010B	Total/NA
Calcium	92000		110	19	mg/Kg	10	✳		6010B	Total/NA
Manganese	380		0.55	0.080	mg/Kg	1	✳		6010B	Total/NA
Nickel	11		0.55	0.16	mg/Kg	1	✳		6010B	Total/NA
Vanadium	12		0.28	0.065	mg/Kg	1	✳		6010B	Total/NA
Zinc	30		1.1	0.48	mg/Kg	1	✳		6010B	Total/NA
Potassium	760		28	9.8	mg/Kg	1	✳		6010B	Total/NA
Sodium	360		55	8.2	mg/Kg	1	✳		6010B	Total/NA
Barium	0.34	J	0.50	0.050	mg/L	1			6010B	TCLP
Calcium	600		5.0	0.50	mg/L	1			6010B	TCLP
Magnesium	93		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	1.2		0.025	0.010	mg/L	1			6010B	TCLP
Nickel	0.014	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
Manganese	0.43		0.025	0.010	mg/L	1			6010B	SPLP East
Mercury	0.015	J	0.017	0.0058	mg/Kg	1	✳		7471B	Total/NA
pH	9.3		0.2	0.2	SU	1			9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185873-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-185873-1	2412V2-15-B01 (0-5)	Solid	08/03/20 10:30	08/03/20 18:25	
500-185873-2	2412V2-15-B01 (5-7.5)	Solid	08/03/20 10:35	08/03/20 18:25	
500-185873-3	2412V2-15-B02 (0-5)	Solid	08/03/20 10:55	08/03/20 18:25	
500-185873-4	2412V2-15-B02 (0-5) Dup	Solid	08/03/20 11:00	08/03/20 18:25	
500-185873-5	2412V2-15-B02 (5-7.5)	Solid	08/03/20 11:05	08/03/20 18:25	
500-185873-6	2412V2-15-B03 (0-5)	Solid	08/03/20 11:25	08/03/20 18:25	
500-185873-7	2412V2-15-B03 (5-7.5)	Solid	08/03/20 11:30	08/03/20 18:25	

- 1
- 2
- 3
- 4
- 5
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- 13

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185873-1

Client Sample ID: 2412V2-15-B01 (0-5)

Lab Sample ID: 500-185873-1

Date Collected: 08/03/20 10:30

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 87.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.022		0.016	0.0070	mg/Kg	☼	08/04/20 17:04	08/10/20 14:46	1
Benzene	<0.00041		0.0016	0.00041	mg/Kg	☼	08/04/20 17:04	08/10/20 14:46	1
Bromodichloromethane	<0.00033		0.0016	0.00033	mg/Kg	☼	08/04/20 17:04	08/10/20 14:46	1
Bromoform	<0.00047		0.0016	0.00047	mg/Kg	☼	08/04/20 17:04	08/10/20 14:46	1
Bromomethane	<0.0015	*	0.0040	0.0015	mg/Kg	☼	08/04/20 17:04	08/10/20 14:46	1
2-Butanone (MEK)	<0.0018		0.0040	0.0018	mg/Kg	☼	08/04/20 17:04	08/10/20 14:46	1
Carbon disulfide	<0.00084		0.0040	0.00084	mg/Kg	☼	08/04/20 17:04	08/10/20 14:46	1
Carbon tetrachloride	<0.00047		0.0016	0.00047	mg/Kg	☼	08/04/20 17:04	08/10/20 14:46	1
Chlorobenzene	<0.00059		0.0016	0.00059	mg/Kg	☼	08/04/20 17:04	08/10/20 14:46	1
Chloroethane	<0.0012	*	0.0040	0.0012	mg/Kg	☼	08/04/20 17:04	08/10/20 14:46	1
Chloroform	<0.00056		0.0016	0.00056	mg/Kg	☼	08/04/20 17:04	08/10/20 14:46	1
Chloromethane	<0.0016		0.0040	0.0016	mg/Kg	☼	08/04/20 17:04	08/10/20 14:46	1
cis-1,2-Dichloroethene	<0.00045		0.0016	0.00045	mg/Kg	☼	08/04/20 17:04	08/10/20 14:46	1
cis-1,3-Dichloropropene	<0.00048		0.0016	0.00048	mg/Kg	☼	08/04/20 17:04	08/10/20 14:46	1
Dibromochloromethane	<0.00053		0.0016	0.00053	mg/Kg	☼	08/04/20 17:04	08/10/20 14:46	1
1,1-Dichloroethane	<0.00055		0.0016	0.00055	mg/Kg	☼	08/04/20 17:04	08/10/20 14:46	1
1,2-Dichloroethane	<0.0013		0.0040	0.0013	mg/Kg	☼	08/04/20 17:04	08/10/20 14:46	1
1,1-Dichloroethene	<0.00055		0.0016	0.00055	mg/Kg	☼	08/04/20 17:04	08/10/20 14:46	1
1,2-Dichloropropene	<0.00042		0.0016	0.00042	mg/Kg	☼	08/04/20 17:04	08/10/20 14:46	1
1,3-Dichloropropene, Total	<0.00056		0.0016	0.00056	mg/Kg	☼	08/04/20 17:04	08/10/20 14:46	1
Ethylbenzene	<0.00077		0.0016	0.00077	mg/Kg	☼	08/04/20 17:04	08/10/20 14:46	1
2-Hexanone	<0.0013		0.0040	0.0013	mg/Kg	☼	08/04/20 17:04	08/10/20 14:46	1
Methylene Chloride	<0.0016		0.0040	0.0016	mg/Kg	☼	08/04/20 17:04	08/10/20 14:46	1
4-Methyl-2-pentanone (MIBK)	<0.0012		0.0040	0.0012	mg/Kg	☼	08/04/20 17:04	08/10/20 14:46	1
Methyl tert-butyl ether	<0.00047		0.0016	0.00047	mg/Kg	☼	08/04/20 17:04	08/10/20 14:46	1
Styrene	<0.00049		0.0016	0.00049	mg/Kg	☼	08/04/20 17:04	08/10/20 14:46	1
1,1,2,2-Tetrachloroethane	<0.00051		0.0016	0.00051	mg/Kg	☼	08/04/20 17:04	08/10/20 14:46	1
Tetrachloroethene	<0.00055		0.0016	0.00055	mg/Kg	☼	08/04/20 17:04	08/10/20 14:46	1
Toluene	<0.00041		0.0016	0.00041	mg/Kg	☼	08/04/20 17:04	08/10/20 14:46	1
trans-1,2-Dichloroethene	<0.00071		0.0016	0.00071	mg/Kg	☼	08/04/20 17:04	08/10/20 14:46	1
trans-1,3-Dichloropropene	<0.00056		0.0016	0.00056	mg/Kg	☼	08/04/20 17:04	08/10/20 14:46	1
1,1,1-Trichloroethane	<0.00054		0.0016	0.00054	mg/Kg	☼	08/04/20 17:04	08/10/20 14:46	1
1,1,2-Trichloroethane	<0.00069		0.0016	0.00069	mg/Kg	☼	08/04/20 17:04	08/10/20 14:46	1
Trichloroethene	<0.00054		0.0016	0.00054	mg/Kg	☼	08/04/20 17:04	08/10/20 14:46	1
Vinyl acetate	<0.0014		0.0040	0.0014	mg/Kg	☼	08/04/20 17:04	08/10/20 14:46	1
Vinyl chloride	<0.00071		0.0016	0.00071	mg/Kg	☼	08/04/20 17:04	08/10/20 14:46	1
Xylenes, Total	<0.00051		0.0032	0.00051	mg/Kg	☼	08/04/20 17:04	08/10/20 14:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		75 - 131	08/04/20 17:04	08/10/20 14:46	1
Dibromofluoromethane	93		75 - 126	08/04/20 17:04	08/10/20 14:46	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	08/04/20 17:04	08/10/20 14:46	1
Toluene-d8 (Surr)	90		75 - 124	08/04/20 17:04	08/10/20 14:46	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	☼	08/13/20 16:38	08/14/20 11:10	1
Acenaphthylene	<0.0050		0.038	0.0050	mg/Kg	☼	08/13/20 16:38	08/14/20 11:10	1
Anthracene	<0.0063		0.038	0.0063	mg/Kg	☼	08/13/20 16:38	08/14/20 11:10	1
Benzo[a]anthracene	<0.0051		0.038	0.0051	mg/Kg	☼	08/13/20 16:38	08/14/20 11:10	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185873-1

Client Sample ID: 2412V2-15-B01 (0-5)

Lab Sample ID: 500-185873-1

Date Collected: 08/03/20 10:30

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 87.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.0073		0.038	0.0073	mg/Kg	✳	08/13/20 16:38	08/14/20 11:10	1
Benzo[b]fluoranthene	<0.0082		0.038	0.0082	mg/Kg	✳	08/13/20 16:38	08/14/20 11:10	1
Benzo[g,h,i]perylene	<0.012		0.038	0.012	mg/Kg	✳	08/13/20 16:38	08/14/20 11:10	1
Benzo[k]fluoranthene	<0.011		0.038	0.011	mg/Kg	✳	08/13/20 16:38	08/14/20 11:10	1
Bis(2-chloroethoxy)methane	<0.039		0.19	0.039	mg/Kg	✳	08/13/20 16:38	08/14/20 11:10	1
Bis(2-chloroethyl)ether	<0.057		0.19	0.057	mg/Kg	✳	08/13/20 16:38	08/14/20 11:10	1
Bis(2-ethylhexyl) phthalate	<0.069		0.19	0.069	mg/Kg	✳	08/13/20 16:38	08/14/20 11:10	1
4-Bromophenyl phenyl ether	<0.050		0.19	0.050	mg/Kg	✳	08/13/20 16:38	08/14/20 11:10	1
Butyl benzyl phthalate	<0.072		0.19	0.072	mg/Kg	✳	08/13/20 16:38	08/14/20 11:10	1
Carbazole	<0.095		0.19	0.095	mg/Kg	✳	08/13/20 16:38	08/14/20 11:10	1
4-Chloroaniline	<0.18		0.76	0.18	mg/Kg	✳	08/13/20 16:38	08/14/20 11:10	1
4-Chloro-3-methylphenol	<0.13		0.38	0.13	mg/Kg	✳	08/13/20 16:38	08/14/20 11:10	1
2-Chloronaphthalene	<0.042		0.19	0.042	mg/Kg	✳	08/13/20 16:38	08/14/20 11:10	1
2-Chlorophenol	<0.065		0.19	0.065	mg/Kg	✳	08/13/20 16:38	08/14/20 11:10	1
4-Chlorophenyl phenyl ether	<0.044		0.19	0.044	mg/Kg	✳	08/13/20 16:38	08/14/20 11:10	1
Chrysene	<0.010		0.038	0.010	mg/Kg	✳	08/13/20 16:38	08/14/20 11:10	1
Dibenz(a,h)anthracene	<0.0073		0.038	0.0073	mg/Kg	✳	08/13/20 16:38	08/14/20 11:10	1
Dibenzofuran	<0.044		0.19	0.044	mg/Kg	✳	08/13/20 16:38	08/14/20 11:10	1
1,2-Dichlorobenzene	<0.045		0.19	0.045	mg/Kg	✳	08/13/20 16:38	08/14/20 11:10	1
1,3-Dichlorobenzene	<0.043		0.19	0.043	mg/Kg	✳	08/13/20 16:38	08/14/20 11:10	1
1,4-Dichlorobenzene	<0.049		0.19	0.049	mg/Kg	✳	08/13/20 16:38	08/14/20 11:10	1
3,3'-Dichlorobenzidine	<0.053		0.19	0.053	mg/Kg	✳	08/13/20 16:38	08/14/20 11:10	1
2,4-Dichlorophenol	<0.090		0.38	0.090	mg/Kg	✳	08/13/20 16:38	08/14/20 11:10	1
Diethyl phthalate	<0.064		0.19	0.064	mg/Kg	✳	08/13/20 16:38	08/14/20 11:10	1
2,4-Dimethylphenol	<0.14		0.38	0.14	mg/Kg	✳	08/13/20 16:38	08/14/20 11:10	1
Dimethyl phthalate	<0.049		0.19	0.049	mg/Kg	✳	08/13/20 16:38	08/14/20 11:10	1
Di-n-butyl phthalate	<0.058		0.19	0.058	mg/Kg	✳	08/13/20 16:38	08/14/20 11:10	1
4,6-Dinitro-2-methylphenol	<0.30		0.76	0.30	mg/Kg	✳	08/13/20 16:38	08/14/20 11:10	1
2,4-Dinitrophenol	<0.67		0.76	0.67	mg/Kg	✳	08/13/20 16:38	08/14/20 11:10	1
2,4-Dinitrotoluene	<0.060		0.19	0.060	mg/Kg	✳	08/13/20 16:38	08/14/20 11:10	1
2,6-Dinitrotoluene	<0.074		0.19	0.074	mg/Kg	✳	08/13/20 16:38	08/14/20 11:10	1
Di-n-octyl phthalate	<0.062		0.19	0.062	mg/Kg	✳	08/13/20 16:38	08/14/20 11:10	1
Fluoranthene	<0.0070		0.038	0.0070	mg/Kg	✳	08/13/20 16:38	08/14/20 11:10	1
Fluorene	<0.0053		0.038	0.0053	mg/Kg	✳	08/13/20 16:38	08/14/20 11:10	1
Hexachlorobenzene	<0.0088		0.076	0.0088	mg/Kg	✳	08/13/20 16:38	08/14/20 11:10	1
Hexachlorobutadiene	<0.059		0.19	0.059	mg/Kg	✳	08/13/20 16:38	08/14/20 11:10	1
Hexachlorocyclopentadiene	<0.22		0.76	0.22	mg/Kg	✳	08/13/20 16:38	08/14/20 11:10	1
Hexachloroethane	<0.058		0.19	0.058	mg/Kg	✳	08/13/20 16:38	08/14/20 11:10	1
Indeno[1,2,3-cd]pyrene	<0.0098		0.038	0.0098	mg/Kg	✳	08/13/20 16:38	08/14/20 11:10	1
Isophorone	<0.043		0.19	0.043	mg/Kg	✳	08/13/20 16:38	08/14/20 11:10	1
2-Methylnaphthalene	<0.0070		0.076	0.0070	mg/Kg	✳	08/13/20 16:38	08/14/20 11:10	1
2-Methylphenol	<0.061		0.19	0.061	mg/Kg	✳	08/13/20 16:38	08/14/20 11:10	1
3 & 4 Methylphenol	<0.063		0.19	0.063	mg/Kg	✳	08/13/20 16:38	08/14/20 11:10	1
Naphthalene	<0.0058		0.038	0.0058	mg/Kg	✳	08/13/20 16:38	08/14/20 11:10	1
2-Nitroaniline	<0.051		0.19	0.051	mg/Kg	✳	08/13/20 16:38	08/14/20 11:10	1
3-Nitroaniline	<0.12		0.38	0.12	mg/Kg	✳	08/13/20 16:38	08/14/20 11:10	1
4-Nitroaniline	<0.16		0.38	0.16	mg/Kg	✳	08/13/20 16:38	08/14/20 11:10	1
Nitrobenzene	<0.0094		0.038	0.0094	mg/Kg	✳	08/13/20 16:38	08/14/20 11:10	1
2-Nitrophenol	<0.089		0.38	0.089	mg/Kg	✳	08/13/20 16:38	08/14/20 11:10	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185873-1

Client Sample ID: 2412V2-15-B01 (0-5)

Lab Sample ID: 500-185873-1

Date Collected: 08/03/20 10:30

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 87.0

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	✳	08/13/20 16:38	08/14/20 11:10	1
N-Nitrosodi-n-propylamine	<0.046		0.076	0.046	mg/Kg	✳	08/13/20 16:38	08/14/20 11:10	1
N-Nitrosodiphenylamine	<0.045		0.19	0.045	mg/Kg	✳	08/13/20 16:38	08/14/20 11:10	1
2,2'-oxybis[1-chloropropane]	<0.044		0.19	0.044	mg/Kg	✳	08/13/20 16:38	08/14/20 11:10	1
Pentachlorophenol	<0.61		0.76	0.61	mg/Kg	✳	08/13/20 16:38	08/14/20 11:10	1
Phenanthrene	<0.0053		0.038	0.0053	mg/Kg	✳	08/13/20 16:38	08/14/20 11:10	1
Phenol	<0.084		0.19	0.084	mg/Kg	✳	08/13/20 16:38	08/14/20 11:10	1
Pyrene	<0.0075		0.038	0.0075	mg/Kg	✳	08/13/20 16:38	08/14/20 11:10	1
1,2,4-Trichlorobenzene	<0.041		0.19	0.041	mg/Kg	✳	08/13/20 16:38	08/14/20 11:10	1
2,4,5-Trichlorophenol	<0.086		0.38	0.086	mg/Kg	✳	08/13/20 16:38	08/14/20 11:10	1
2,4,6-Trichlorophenol	<0.13		0.38	0.13	mg/Kg	✳	08/13/20 16:38	08/14/20 11:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	90		43 - 145	08/13/20 16:38	08/14/20 11:10	1
2-Fluorophenol	76		31 - 166	08/13/20 16:38	08/14/20 11:10	1
Nitrobenzene-d5	76		37 - 147	08/13/20 16:38	08/14/20 11:10	1
Phenol-d5	68		30 - 153	08/13/20 16:38	08/14/20 11:10	1
Terphenyl-d14	107		42 - 157	08/13/20 16:38	08/14/20 11:10	1
2,4,6-Tribromophenol	122		31 - 143	08/13/20 16:38	08/14/20 11:10	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.21	F1	1.1	0.21	mg/Kg	✳	08/11/20 06:38	08/11/20 22:37	1
Arsenic	5.6		0.55	0.19	mg/Kg	✳	08/11/20 06:38	08/11/20 22:37	1
Barium	75		0.55	0.062	mg/Kg	✳	08/11/20 06:38	08/11/20 22:37	1
Beryllium	0.66		0.22	0.051	mg/Kg	✳	08/11/20 06:38	08/11/20 22:37	1
Cadmium	0.090	J B F1	0.11	0.020	mg/Kg	✳	08/11/20 06:38	08/11/20 22:37	1
Chromium	15		0.55	0.27	mg/Kg	✳	08/11/20 06:38	08/11/20 22:37	1
Cobalt	8.0		0.27	0.071	mg/Kg	✳	08/11/20 06:38	08/11/20 22:37	1
Copper	14		0.55	0.15	mg/Kg	✳	08/11/20 06:38	08/11/20 22:37	1
Iron	15000		11	5.7	mg/Kg	✳	08/11/20 06:38	08/11/20 22:37	1
Lead	20	F1	0.27	0.13	mg/Kg	✳	08/11/20 06:38	08/11/20 22:37	1
Magnesium	11000	F2	5.5	2.7	mg/Kg	✳	08/11/20 06:38	08/11/20 22:37	1
Calcium	16000	F2	11	1.8	mg/Kg	✳	08/11/20 06:38	08/11/20 22:37	1
Manganese	340	F2	0.55	0.079	mg/Kg	✳	08/11/20 06:38	08/11/20 22:37	1
Nickel	20		0.55	0.16	mg/Kg	✳	08/11/20 06:38	08/11/20 22:37	1
Selenium	<0.32	F1	0.55	0.32	mg/Kg	✳	08/11/20 06:38	08/11/20 22:37	1
Silver	<0.070	F1	0.27	0.070	mg/Kg	✳	08/11/20 06:38	08/11/20 22:37	1
Thallium	0.35	J	0.55	0.27	mg/Kg	✳	08/11/20 06:38	08/11/20 22:37	1
Vanadium	26		0.27	0.064	mg/Kg	✳	08/11/20 06:38	08/11/20 22:37	1
Zinc	61		1.1	0.48	mg/Kg	✳	08/11/20 06:38	08/11/20 22:37	1
Potassium	1500	F1	27	9.7	mg/Kg	✳	08/11/20 06:38	08/11/20 22:37	1
Sodium	110		55	8.1	mg/Kg	✳	08/11/20 06:38	08/11/20 22:37	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/13/20 17:12	08/14/20 01:36	1
Barium	0.76		0.50	0.050	mg/L		08/13/20 17:12	08/14/20 01:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/13/20 17:12	08/14/20 01:36	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/13/20 17:12	08/14/20 01:36	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185873-1

Client Sample ID: 2412V2-15-B01 (0-5)

Lab Sample ID: 500-185873-1

Date Collected: 08/03/20 10:30

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 87.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	280		5.0	0.50	mg/L		08/13/20 17:12	08/14/20 01:36	1
Chromium	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:36	1
Cobalt	0.022	J	0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:36	1
Copper	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:36	1
Iron	<0.20		0.40	0.20	mg/L		08/13/20 17:12	08/14/20 01:36	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/13/20 17:12	08/14/20 01:36	1
Magnesium	120		2.5	0.50	mg/L		08/13/20 17:12	08/14/20 01:36	1
Manganese	6.9		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:36	1
Nickel	0.020	J	0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:36	1
Potassium	3.1		2.5	0.50	mg/L		08/13/20 17:12	08/14/20 01:36	1
Selenium	<0.020		0.050	0.020	mg/L		08/13/20 17:12	08/14/20 01:36	1
Silver	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:36	1
Vanadium	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:36	1
Zinc	0.096	J	0.50	0.020	mg/L		08/13/20 17:12	08/14/20 01:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.22		0.025	0.010	mg/L		08/14/20 05:55	08/16/20 20:27	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		08/13/20 17:12	08/14/20 09:37	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/13/20 17:12	08/14/20 09:37	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/13/20 14:20	08/14/20 09:48	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.052		0.018	0.0060	mg/Kg	✱	08/11/20 14:25	08/12/20 08:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.19	J	0.33	0.16	mg/Kg	✱	08/14/20 12:10	08/14/20 15:48	1
pH	8.0		0.2	0.2	SU			08/06/20 20:11	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185873-1

Client Sample ID: 2412V2-15-B01 (5-7.5)

Lab Sample ID: 500-185873-2

Date Collected: 08/03/20 10:35

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0064		0.015	0.0064	mg/Kg	✱	08/04/20 17:04	08/10/20 15:12	1
Benzene	<0.00038		0.0015	0.00038	mg/Kg	✱	08/04/20 17:04	08/10/20 15:12	1
Bromodichloromethane	<0.00030		0.0015	0.00030	mg/Kg	✱	08/04/20 17:04	08/10/20 15:12	1
Bromoform	<0.00043		0.0015	0.00043	mg/Kg	✱	08/04/20 17:04	08/10/20 15:12	1
Bromomethane	<0.0014	*	0.0037	0.0014	mg/Kg	✱	08/04/20 17:04	08/10/20 15:12	1
2-Butanone (MEK)	<0.0016		0.0037	0.0016	mg/Kg	✱	08/04/20 17:04	08/10/20 15:12	1
Carbon disulfide	<0.00077		0.0037	0.00077	mg/Kg	✱	08/04/20 17:04	08/10/20 15:12	1
Carbon tetrachloride	<0.00043		0.0015	0.00043	mg/Kg	✱	08/04/20 17:04	08/10/20 15:12	1
Chlorobenzene	<0.00055		0.0015	0.00055	mg/Kg	✱	08/04/20 17:04	08/10/20 15:12	1
Chloroethane	<0.0011	*	0.0037	0.0011	mg/Kg	✱	08/04/20 17:04	08/10/20 15:12	1
Chloroform	<0.00051		0.0015	0.00051	mg/Kg	✱	08/04/20 17:04	08/10/20 15:12	1
Chloromethane	<0.0015		0.0037	0.0015	mg/Kg	✱	08/04/20 17:04	08/10/20 15:12	1
cis-1,2-Dichloroethene	<0.00041		0.0015	0.00041	mg/Kg	✱	08/04/20 17:04	08/10/20 15:12	1
cis-1,3-Dichloropropene	<0.00045		0.0015	0.00045	mg/Kg	✱	08/04/20 17:04	08/10/20 15:12	1
Dibromochloromethane	<0.00048		0.0015	0.00048	mg/Kg	✱	08/04/20 17:04	08/10/20 15:12	1
1,1-Dichloroethane	<0.00051		0.0015	0.00051	mg/Kg	✱	08/04/20 17:04	08/10/20 15:12	1
1,2-Dichloroethane	<0.0012		0.0037	0.0012	mg/Kg	✱	08/04/20 17:04	08/10/20 15:12	1
1,1-Dichloroethene	<0.00051		0.0015	0.00051	mg/Kg	✱	08/04/20 17:04	08/10/20 15:12	1
1,2-Dichloropropene	<0.00038		0.0015	0.00038	mg/Kg	✱	08/04/20 17:04	08/10/20 15:12	1
1,3-Dichloropropene, Total	<0.00052		0.0015	0.00052	mg/Kg	✱	08/04/20 17:04	08/10/20 15:12	1
Ethylbenzene	<0.00071		0.0015	0.00071	mg/Kg	✱	08/04/20 17:04	08/10/20 15:12	1
2-Hexanone	<0.0012		0.0037	0.0012	mg/Kg	✱	08/04/20 17:04	08/10/20 15:12	1
Methylene Chloride	<0.0015		0.0037	0.0015	mg/Kg	✱	08/04/20 17:04	08/10/20 15:12	1
4-Methyl-2-pentanone (MIBK)	<0.0011		0.0037	0.0011	mg/Kg	✱	08/04/20 17:04	08/10/20 15:12	1
Methyl tert-butyl ether	<0.00043		0.0015	0.00043	mg/Kg	✱	08/04/20 17:04	08/10/20 15:12	1
Styrene	<0.00045		0.0015	0.00045	mg/Kg	✱	08/04/20 17:04	08/10/20 15:12	1
1,1,2,2-Tetrachloroethane	<0.00047		0.0015	0.00047	mg/Kg	✱	08/04/20 17:04	08/10/20 15:12	1
Tetrachloroethene	<0.00050		0.0015	0.00050	mg/Kg	✱	08/04/20 17:04	08/10/20 15:12	1
Toluene	<0.00037		0.0015	0.00037	mg/Kg	✱	08/04/20 17:04	08/10/20 15:12	1
trans-1,2-Dichloroethene	<0.00066		0.0015	0.00066	mg/Kg	✱	08/04/20 17:04	08/10/20 15:12	1
trans-1,3-Dichloropropene	<0.00052		0.0015	0.00052	mg/Kg	✱	08/04/20 17:04	08/10/20 15:12	1
1,1,1-Trichloroethane	<0.00050		0.0015	0.00050	mg/Kg	✱	08/04/20 17:04	08/10/20 15:12	1
1,1,2-Trichloroethane	<0.00064		0.0015	0.00064	mg/Kg	✱	08/04/20 17:04	08/10/20 15:12	1
Trichloroethene	<0.00050		0.0015	0.00050	mg/Kg	✱	08/04/20 17:04	08/10/20 15:12	1
Vinyl acetate	<0.0013		0.0037	0.0013	mg/Kg	✱	08/04/20 17:04	08/10/20 15:12	1
Vinyl chloride	<0.00066		0.0015	0.00066	mg/Kg	✱	08/04/20 17:04	08/10/20 15:12	1
Xylenes, Total	<0.00047		0.0030	0.00047	mg/Kg	✱	08/04/20 17:04	08/10/20 15:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		75 - 131	08/04/20 17:04	08/10/20 15:12	1
Dibromofluoromethane	94		75 - 126	08/04/20 17:04	08/10/20 15:12	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	08/04/20 17:04	08/10/20 15:12	1
Toluene-d8 (Surr)	89		75 - 124	08/04/20 17:04	08/10/20 15:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0069		0.038	0.0069	mg/Kg	✱	08/13/20 16:38	08/14/20 11:34	1
Acenaphthylene	<0.0051		0.038	0.0051	mg/Kg	✱	08/13/20 16:38	08/14/20 11:34	1
Anthracene	<0.0064		0.038	0.0064	mg/Kg	✱	08/13/20 16:38	08/14/20 11:34	1
Benzo[a]anthracene	<0.0052		0.038	0.0052	mg/Kg	✱	08/13/20 16:38	08/14/20 11:34	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185873-1

Client Sample ID: 2412V2-15-B01 (5-7.5)

Lab Sample ID: 500-185873-2

Date Collected: 08/03/20 10:35

Matrix: Solid

Date Received: 08/03/20 18:25

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	<0.0075		0.038	0.0075	mg/Kg	☼	08/13/20 16:38	08/14/20 11:34	1
Benzo[b]fluoranthene	<0.0083		0.038	0.0083	mg/Kg	☼	08/13/20 16:38	08/14/20 11:34	1
Benzo[g,h,i]perylene	<0.012		0.038	0.012	mg/Kg	☼	08/13/20 16:38	08/14/20 11:34	1
Benzo[k]fluoranthene	<0.011		0.038	0.011	mg/Kg	☼	08/13/20 16:38	08/14/20 11:34	1
Bis(2-chloroethoxy)methane	<0.039	F1	0.19	0.039	mg/Kg	☼	08/13/20 16:38	08/14/20 11:34	1
Bis(2-chloroethyl)ether	<0.058	F1	0.19	0.058	mg/Kg	☼	08/13/20 16:38	08/14/20 11:34	1
Bis(2-ethylhexyl) phthalate	<0.070		0.19	0.070	mg/Kg	☼	08/13/20 16:38	08/14/20 11:34	1
4-Bromophenyl phenyl ether	<0.051		0.19	0.051	mg/Kg	☼	08/13/20 16:38	08/14/20 11:34	1
Butyl benzyl phthalate	<0.073		0.19	0.073	mg/Kg	☼	08/13/20 16:38	08/14/20 11:34	1
Carbazole	<0.096		0.19	0.096	mg/Kg	☼	08/13/20 16:38	08/14/20 11:34	1
4-Chloroaniline	<0.18		0.78	0.18	mg/Kg	☼	08/13/20 16:38	08/14/20 11:34	1
4-Chloro-3-methylphenol	<0.13	F1	0.38	0.13	mg/Kg	☼	08/13/20 16:38	08/14/20 11:34	1
2-Chloronaphthalene	<0.043		0.19	0.043	mg/Kg	☼	08/13/20 16:38	08/14/20 11:34	1
2-Chlorophenol	<0.066	F1	0.19	0.066	mg/Kg	☼	08/13/20 16:38	08/14/20 11:34	1
4-Chlorophenyl phenyl ether	<0.045		0.19	0.045	mg/Kg	☼	08/13/20 16:38	08/14/20 11:34	1
Chrysene	<0.011		0.038	0.011	mg/Kg	☼	08/13/20 16:38	08/14/20 11:34	1
Dibenz(a,h)anthracene	<0.0075		0.038	0.0075	mg/Kg	☼	08/13/20 16:38	08/14/20 11:34	1
Dibenzofuran	<0.045		0.19	0.045	mg/Kg	☼	08/13/20 16:38	08/14/20 11:34	1
1,2-Dichlorobenzene	<0.046	F1	0.19	0.046	mg/Kg	☼	08/13/20 16:38	08/14/20 11:34	1
1,3-Dichlorobenzene	<0.043	F1	0.19	0.043	mg/Kg	☼	08/13/20 16:38	08/14/20 11:34	1
1,4-Dichlorobenzene	<0.049	F1	0.19	0.049	mg/Kg	☼	08/13/20 16:38	08/14/20 11:34	1
3,3'-Dichlorobenzidine	<0.054		0.19	0.054	mg/Kg	☼	08/13/20 16:38	08/14/20 11:34	1
2,4-Dichlorophenol	<0.092		0.38	0.092	mg/Kg	☼	08/13/20 16:38	08/14/20 11:34	1
Diethyl phthalate	<0.065		0.19	0.065	mg/Kg	☼	08/13/20 16:38	08/14/20 11:34	1
2,4-Dimethylphenol	<0.15		0.38	0.15	mg/Kg	☼	08/13/20 16:38	08/14/20 11:34	1
Dimethyl phthalate	<0.050		0.19	0.050	mg/Kg	☼	08/13/20 16:38	08/14/20 11:34	1
Di-n-butyl phthalate	<0.059		0.19	0.059	mg/Kg	☼	08/13/20 16:38	08/14/20 11:34	1
4,6-Dinitro-2-methylphenol	<0.31		0.78	0.31	mg/Kg	☼	08/13/20 16:38	08/14/20 11:34	1
2,4-Dinitrophenol	<0.68	F2	0.78	0.68	mg/Kg	☼	08/13/20 16:38	08/14/20 11:34	1
2,4-Dinitrotoluene	<0.061		0.19	0.061	mg/Kg	☼	08/13/20 16:38	08/14/20 11:34	1
2,6-Dinitrotoluene	<0.076		0.19	0.076	mg/Kg	☼	08/13/20 16:38	08/14/20 11:34	1
Di-n-octyl phthalate	<0.063		0.19	0.063	mg/Kg	☼	08/13/20 16:38	08/14/20 11:34	1
Fluoranthene	<0.0072		0.038	0.0072	mg/Kg	☼	08/13/20 16:38	08/14/20 11:34	1
Fluorene	<0.0054		0.038	0.0054	mg/Kg	☼	08/13/20 16:38	08/14/20 11:34	1
Hexachlorobenzene	<0.0089		0.078	0.0089	mg/Kg	☼	08/13/20 16:38	08/14/20 11:34	1
Hexachlorobutadiene	<0.061		0.19	0.061	mg/Kg	☼	08/13/20 16:38	08/14/20 11:34	1
Hexachlorocyclopentadiene	<0.22		0.78	0.22	mg/Kg	☼	08/13/20 16:38	08/14/20 11:34	1
Hexachloroethane	<0.059	F1	0.19	0.059	mg/Kg	☼	08/13/20 16:38	08/14/20 11:34	1
Indeno[1,2,3-cd]pyrene	<0.010		0.038	0.010	mg/Kg	☼	08/13/20 16:38	08/14/20 11:34	1
Isophorone	<0.043		0.19	0.043	mg/Kg	☼	08/13/20 16:38	08/14/20 11:34	1
2-Methylnaphthalene	<0.0071		0.078	0.0071	mg/Kg	☼	08/13/20 16:38	08/14/20 11:34	1
2-Methylphenol	<0.062	F1	0.19	0.062	mg/Kg	☼	08/13/20 16:38	08/14/20 11:34	1
3 & 4 Methylphenol	<0.064		0.19	0.064	mg/Kg	☼	08/13/20 16:38	08/14/20 11:34	1
Naphthalene	<0.0059	F1	0.038	0.0059	mg/Kg	☼	08/13/20 16:38	08/14/20 11:34	1
2-Nitroaniline	<0.052		0.19	0.052	mg/Kg	☼	08/13/20 16:38	08/14/20 11:34	1
3-Nitroaniline	<0.12		0.38	0.12	mg/Kg	☼	08/13/20 16:38	08/14/20 11:34	1
4-Nitroaniline	<0.16	F1	0.38	0.16	mg/Kg	☼	08/13/20 16:38	08/14/20 11:34	1
Nitrobenzene	<0.0096	F1	0.038	0.0096	mg/Kg	☼	08/13/20 16:38	08/14/20 11:34	1
2-Nitrophenol	<0.091		0.38	0.091	mg/Kg	☼	08/13/20 16:38	08/14/20 11:34	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185873-1

Client Sample ID: 2412V2-15-B01 (5-7.5)

Lab Sample ID: 500-185873-2

Date Collected: 08/03/20 10:35

Matrix: Solid

Date Received: 08/03/20 18:25

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	<0.37		0.78	0.37	mg/Kg	☼	08/13/20 16:38	08/14/20 11:34	1
N-Nitrosodi-n-propylamine	<0.047		0.078	0.047	mg/Kg	☼	08/13/20 16:38	08/14/20 11:34	1
N-Nitrosodiphenylamine	<0.046		0.19	0.046	mg/Kg	☼	08/13/20 16:38	08/14/20 11:34	1
2,2'-oxybis[1-chloropropane]	<0.045	F1	0.19	0.045	mg/Kg	☼	08/13/20 16:38	08/14/20 11:34	1
Pentachlorophenol	<0.62		0.78	0.62	mg/Kg	☼	08/13/20 16:38	08/14/20 11:34	1
Phenanthrene	<0.0054		0.038	0.0054	mg/Kg	☼	08/13/20 16:38	08/14/20 11:34	1
Phenol	<0.086	F1	0.19	0.086	mg/Kg	☼	08/13/20 16:38	08/14/20 11:34	1
Pyrene	<0.0077		0.038	0.0077	mg/Kg	☼	08/13/20 16:38	08/14/20 11:34	1
1,2,4-Trichlorobenzene	<0.042	F1	0.19	0.042	mg/Kg	☼	08/13/20 16:38	08/14/20 11:34	1
2,4,5-Trichlorophenol	<0.088		0.38	0.088	mg/Kg	☼	08/13/20 16:38	08/14/20 11:34	1
2,4,6-Trichlorophenol	<0.13		0.38	0.13	mg/Kg	☼	08/13/20 16:38	08/14/20 11:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	80		43 - 145				08/13/20 16:38	08/14/20 11:34	1
2-Fluorophenol	77		31 - 166				08/13/20 16:38	08/14/20 11:34	1
Nitrobenzene-d5	66		37 - 147				08/13/20 16:38	08/14/20 11:34	1
Phenol-d5	68		30 - 153				08/13/20 16:38	08/14/20 11:34	1
Terphenyl-d14	103		42 - 157				08/13/20 16:38	08/14/20 11:34	1
2,4,6-Tribromophenol	120		31 - 143				08/13/20 16:38	08/14/20 11:34	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.43	J	1.1	0.22	mg/Kg	☼	08/11/20 06:38	08/11/20 22:57	1
Arsenic	6.2		0.57	0.19	mg/Kg	☼	08/11/20 06:38	08/11/20 22:57	1
Barium	53		0.57	0.064	mg/Kg	☼	08/11/20 06:38	08/11/20 22:57	1
Beryllium	0.74		0.23	0.053	mg/Kg	☼	08/11/20 06:38	08/11/20 22:57	1
Cadmium	0.035	J B	0.11	0.020	mg/Kg	☼	08/11/20 06:38	08/11/20 22:57	1
Chromium	17		0.57	0.28	mg/Kg	☼	08/11/20 06:38	08/11/20 22:57	1
Cobalt	8.4		0.28	0.074	mg/Kg	☼	08/11/20 06:38	08/11/20 22:57	1
Copper	17		0.57	0.16	mg/Kg	☼	08/11/20 06:38	08/11/20 22:57	1
Iron	17000		11	5.9	mg/Kg	☼	08/11/20 06:38	08/11/20 22:57	1
Lead	12		0.28	0.13	mg/Kg	☼	08/11/20 06:38	08/11/20 22:57	1
Magnesium	6200		5.7	2.8	mg/Kg	☼	08/11/20 06:38	08/11/20 22:57	1
Calcium	6600		11	1.9	mg/Kg	☼	08/11/20 06:38	08/11/20 22:57	1
Manganese	400		0.57	0.082	mg/Kg	☼	08/11/20 06:38	08/11/20 22:57	1
Nickel	25		0.57	0.16	mg/Kg	☼	08/11/20 06:38	08/11/20 22:57	1
Selenium	<0.33		0.57	0.33	mg/Kg	☼	08/11/20 06:38	08/11/20 22:57	1
Silver	<0.073		0.28	0.073	mg/Kg	☼	08/11/20 06:38	08/11/20 22:57	1
Thallium	0.31	J	0.57	0.28	mg/Kg	☼	08/11/20 06:38	08/11/20 22:57	1
Vanadium	25		0.28	0.067	mg/Kg	☼	08/11/20 06:38	08/11/20 22:57	1
Zinc	54		1.1	0.50	mg/Kg	☼	08/11/20 06:38	08/11/20 22:57	1
Potassium	2400		28	10	mg/Kg	☼	08/11/20 06:38	08/11/20 22:57	1
Sodium	95		57	8.4	mg/Kg	☼	08/11/20 06:38	08/11/20 22:57	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		08/13/20 17:12	08/14/20 01:09	1
Barium	0.63		0.50	0.050	mg/L		08/13/20 17:12	08/14/20 01:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/13/20 17:12	08/14/20 01:09	1
Cadmium	0.0020	J	0.0050	0.0020	mg/L		08/13/20 17:12	08/14/20 01:09	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185873-1

Client Sample ID: 2412V2-15-B01 (5-7.5)

Lab Sample ID: 500-185873-2

Date Collected: 08/03/20 10:35

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	240		5.0	0.50	mg/L		08/13/20 17:12	08/14/20 01:09	1
Chromium	0.028		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:09	1
Cobalt	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:09	1
Copper	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:09	1
Iron	<0.20		0.40	0.20	mg/L		08/13/20 17:12	08/14/20 01:09	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/13/20 17:12	08/14/20 01:09	1
Magnesium	120		2.5	0.50	mg/L		08/13/20 17:12	08/14/20 01:09	1
Manganese	7.7		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:09	1
Nickel	0.043		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:09	1
Potassium	20		2.5	0.50	mg/L		08/13/20 17:12	08/14/20 01:09	1
Selenium	<0.020		0.050	0.020	mg/L		08/13/20 17:12	08/14/20 01:09	1
Silver	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:09	1
Vanadium	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:09	1
Zinc	0.023	J	0.50	0.020	mg/L		08/13/20 17:12	08/14/20 01:09	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		08/14/20 05:55	08/16/20 20:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/13/20 17:12	08/14/20 10:34	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/13/20 17:12	08/14/20 10:34	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		08/13/20 14:20	08/14/20 10:50	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.017	0.0058	mg/Kg	✱	08/11/20 14:25	08/12/20 08:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.20	J	0.32	0.16	mg/Kg	✱	08/14/20 12:10	08/14/20 15:50	1
pH	8.0		0.2	0.2	SU			08/06/20 20:13	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185873-1

Client Sample ID: 2412V2-15-B02 (0-5)

Lab Sample ID: 500-185873-3

Date Collected: 08/03/20 10:55

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0072		0.017	0.0072	mg/Kg	✳	08/04/20 17:04	08/11/20 17:23	1
Benzene	<0.00042		0.0017	0.00042	mg/Kg	✳	08/04/20 17:04	08/11/20 17:23	1
Bromodichloromethane	<0.00034		0.0017	0.00034	mg/Kg	✳	08/04/20 17:04	08/11/20 17:23	1
Bromoform	<0.00048		0.0017	0.00048	mg/Kg	✳	08/04/20 17:04	08/11/20 17:23	1
Bromomethane	<0.0016	*	0.0041	0.0016	mg/Kg	✳	08/04/20 17:04	08/11/20 17:23	1
2-Butanone (MEK)	<0.0018		0.0041	0.0018	mg/Kg	✳	08/04/20 17:04	08/11/20 17:23	1
Carbon disulfide	<0.00086		0.0041	0.00086	mg/Kg	✳	08/04/20 17:04	08/11/20 17:23	1
Carbon tetrachloride	<0.00048		0.0017	0.00048	mg/Kg	✳	08/04/20 17:04	08/11/20 17:23	1
Chlorobenzene	<0.00061		0.0017	0.00061	mg/Kg	✳	08/04/20 17:04	08/11/20 17:23	1
Chloroethane	<0.0012		0.0041	0.0012	mg/Kg	✳	08/04/20 17:04	08/11/20 17:23	1
Chloroform	<0.00057		0.0017	0.00057	mg/Kg	✳	08/04/20 17:04	08/11/20 17:23	1
Chloromethane	<0.0017	*	0.0041	0.0017	mg/Kg	✳	08/04/20 17:04	08/11/20 17:23	1
cis-1,2-Dichloroethene	<0.00046		0.0017	0.00046	mg/Kg	✳	08/04/20 17:04	08/11/20 17:23	1
cis-1,3-Dichloropropene	<0.00050		0.0017	0.00050	mg/Kg	✳	08/04/20 17:04	08/11/20 17:23	1
Dibromochloromethane	<0.00054		0.0017	0.00054	mg/Kg	✳	08/04/20 17:04	08/11/20 17:23	1
1,1-Dichloroethane	<0.00057		0.0017	0.00057	mg/Kg	✳	08/04/20 17:04	08/11/20 17:23	1
1,2-Dichloroethane	<0.0013		0.0041	0.0013	mg/Kg	✳	08/04/20 17:04	08/11/20 17:23	1
1,1-Dichloroethene	<0.00057		0.0017	0.00057	mg/Kg	✳	08/04/20 17:04	08/11/20 17:23	1
1,2-Dichloropropene	<0.00043		0.0017	0.00043	mg/Kg	✳	08/04/20 17:04	08/11/20 17:23	1
1,3-Dichloropropene, Total	<0.00058		0.0017	0.00058	mg/Kg	✳	08/04/20 17:04	08/11/20 17:23	1
Ethylbenzene	<0.00079		0.0017	0.00079	mg/Kg	✳	08/04/20 17:04	08/11/20 17:23	1
2-Hexanone	<0.0013		0.0041	0.0013	mg/Kg	✳	08/04/20 17:04	08/11/20 17:23	1
Methylene Chloride	<0.0016		0.0041	0.0016	mg/Kg	✳	08/04/20 17:04	08/11/20 17:23	1
4-Methyl-2-pentanone (MIBK)	<0.0012		0.0041	0.0012	mg/Kg	✳	08/04/20 17:04	08/11/20 17:23	1
Methyl tert-butyl ether	<0.00049		0.0017	0.00049	mg/Kg	✳	08/04/20 17:04	08/11/20 17:23	1
Styrene	<0.00050		0.0017	0.00050	mg/Kg	✳	08/04/20 17:04	08/11/20 17:23	1
1,1,2,2-Tetrachloroethane	<0.00053		0.0017	0.00053	mg/Kg	✳	08/04/20 17:04	08/11/20 17:23	1
Tetrachloroethene	<0.00056		0.0017	0.00056	mg/Kg	✳	08/04/20 17:04	08/11/20 17:23	1
Toluene	<0.00042		0.0017	0.00042	mg/Kg	✳	08/04/20 17:04	08/11/20 17:23	1
trans-1,2-Dichloroethene	<0.00073		0.0017	0.00073	mg/Kg	✳	08/04/20 17:04	08/11/20 17:23	1
trans-1,3-Dichloropropene	<0.00058		0.0017	0.00058	mg/Kg	✳	08/04/20 17:04	08/11/20 17:23	1
1,1,1-Trichloroethane	<0.00056		0.0017	0.00056	mg/Kg	✳	08/04/20 17:04	08/11/20 17:23	1
1,1,2-Trichloroethane	<0.00071		0.0017	0.00071	mg/Kg	✳	08/04/20 17:04	08/11/20 17:23	1
Trichloroethene	<0.00056		0.0017	0.00056	mg/Kg	✳	08/04/20 17:04	08/11/20 17:23	1
Vinyl acetate	<0.0014		0.0041	0.0014	mg/Kg	✳	08/04/20 17:04	08/11/20 17:23	1
Vinyl chloride	<0.00073		0.0017	0.00073	mg/Kg	✳	08/04/20 17:04	08/11/20 17:23	1
Xylenes, Total	<0.00053		0.0033	0.00053	mg/Kg	✳	08/04/20 17:04	08/11/20 17:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		75 - 131	08/04/20 17:04	08/11/20 17:23	1
Dibromofluoromethane	96		75 - 126	08/04/20 17:04	08/11/20 17:23	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	08/04/20 17:04	08/11/20 17:23	1
Toluene-d8 (Surr)	87		75 - 124	08/04/20 17:04	08/11/20 17:23	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	✳	08/13/20 16:38	08/14/20 11:57	1
Acenaphthylene	<0.0053		0.040	0.0053	mg/Kg	✳	08/13/20 16:38	08/14/20 11:57	1
Anthracene	<0.0067		0.040	0.0067	mg/Kg	✳	08/13/20 16:38	08/14/20 11:57	1
Benzo[a]anthracene	<0.0054		0.040	0.0054	mg/Kg	✳	08/13/20 16:38	08/14/20 11:57	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185873-1

Client Sample ID: 2412V2-15-B02 (0-5)

Lab Sample ID: 500-185873-3

Date Collected: 08/03/20 10:55

Matrix: Solid

Date Received: 08/03/20 18:25

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		0.040	0.0077	mg/Kg	✱	08/13/20 16:38	08/14/20 11:57	1
Benzo[b]fluoranthene	<0.0086		0.040	0.0086	mg/Kg	✱	08/13/20 16:38	08/14/20 11:57	1
Benzo[g,h,i]perylene	<0.013		0.040	0.013	mg/Kg	✱	08/13/20 16:38	08/14/20 11:57	1
Benzo[k]fluoranthene	<0.012		0.040	0.012	mg/Kg	✱	08/13/20 16:38	08/14/20 11:57	1
Bis(2-chloroethoxy)methane	<0.041		0.20	0.041	mg/Kg	✱	08/13/20 16:38	08/14/20 11:57	1
Bis(2-chloroethyl)ether	<0.060		0.20	0.060	mg/Kg	✱	08/13/20 16:38	08/14/20 11:57	1
Bis(2-ethylhexyl) phthalate	<0.073		0.20	0.073	mg/Kg	✱	08/13/20 16:38	08/14/20 11:57	1
4-Bromophenyl phenyl ether	<0.053		0.20	0.053	mg/Kg	✱	08/13/20 16:38	08/14/20 11:57	1
Butyl benzyl phthalate	<0.076		0.20	0.076	mg/Kg	✱	08/13/20 16:38	08/14/20 11:57	1
Carbazole	<0.10		0.20	0.10	mg/Kg	✱	08/13/20 16:38	08/14/20 11:57	1
4-Chloroaniline	<0.19		0.81	0.19	mg/Kg	✱	08/13/20 16:38	08/14/20 11:57	1
4-Chloro-3-methylphenol	<0.14		0.40	0.14	mg/Kg	✱	08/13/20 16:38	08/14/20 11:57	1
2-Chloronaphthalene	<0.044		0.20	0.044	mg/Kg	✱	08/13/20 16:38	08/14/20 11:57	1
2-Chlorophenol	<0.068		0.20	0.068	mg/Kg	✱	08/13/20 16:38	08/14/20 11:57	1
4-Chlorophenyl phenyl ether	<0.047		0.20	0.047	mg/Kg	✱	08/13/20 16:38	08/14/20 11:57	1
Chrysene	<0.011		0.040	0.011	mg/Kg	✱	08/13/20 16:38	08/14/20 11:57	1
Dibenz(a,h)anthracene	<0.0077		0.040	0.0077	mg/Kg	✱	08/13/20 16:38	08/14/20 11:57	1
Dibenzofuran	<0.047		0.20	0.047	mg/Kg	✱	08/13/20 16:38	08/14/20 11:57	1
1,2-Dichlorobenzene	<0.048		0.20	0.048	mg/Kg	✱	08/13/20 16:38	08/14/20 11:57	1
1,3-Dichlorobenzene	<0.045		0.20	0.045	mg/Kg	✱	08/13/20 16:38	08/14/20 11:57	1
1,4-Dichlorobenzene	<0.051		0.20	0.051	mg/Kg	✱	08/13/20 16:38	08/14/20 11:57	1
3,3'-Dichlorobenzidine	<0.056		0.20	0.056	mg/Kg	✱	08/13/20 16:38	08/14/20 11:57	1
2,4-Dichlorophenol	<0.095		0.40	0.095	mg/Kg	✱	08/13/20 16:38	08/14/20 11:57	1
Diethyl phthalate	<0.068		0.20	0.068	mg/Kg	✱	08/13/20 16:38	08/14/20 11:57	1
2,4-Dimethylphenol	<0.15		0.40	0.15	mg/Kg	✱	08/13/20 16:38	08/14/20 11:57	1
Dimethyl phthalate	<0.052		0.20	0.052	mg/Kg	✱	08/13/20 16:38	08/14/20 11:57	1
Di-n-butyl phthalate	<0.061		0.20	0.061	mg/Kg	✱	08/13/20 16:38	08/14/20 11:57	1
4,6-Dinitro-2-methylphenol	<0.32		0.81	0.32	mg/Kg	✱	08/13/20 16:38	08/14/20 11:57	1
2,4-Dinitrophenol	<0.70		0.81	0.70	mg/Kg	✱	08/13/20 16:38	08/14/20 11:57	1
2,4-Dinitrotoluene	<0.063		0.20	0.063	mg/Kg	✱	08/13/20 16:38	08/14/20 11:57	1
2,6-Dinitrotoluene	<0.078		0.20	0.078	mg/Kg	✱	08/13/20 16:38	08/14/20 11:57	1
Di-n-octyl phthalate	<0.065		0.20	0.065	mg/Kg	✱	08/13/20 16:38	08/14/20 11:57	1
Fluoranthene	<0.0074		0.040	0.0074	mg/Kg	✱	08/13/20 16:38	08/14/20 11:57	1
Fluorene	<0.0056		0.040	0.0056	mg/Kg	✱	08/13/20 16:38	08/14/20 11:57	1
Hexachlorobenzene	<0.0093		0.081	0.0093	mg/Kg	✱	08/13/20 16:38	08/14/20 11:57	1
Hexachlorobutadiene	<0.063		0.20	0.063	mg/Kg	✱	08/13/20 16:38	08/14/20 11:57	1
Hexachlorocyclopentadiene	<0.23		0.81	0.23	mg/Kg	✱	08/13/20 16:38	08/14/20 11:57	1
Hexachloroethane	<0.061		0.20	0.061	mg/Kg	✱	08/13/20 16:38	08/14/20 11:57	1
Indeno[1,2,3-cd]pyrene	<0.010		0.040	0.010	mg/Kg	✱	08/13/20 16:38	08/14/20 11:57	1
Isophorone	<0.045		0.20	0.045	mg/Kg	✱	08/13/20 16:38	08/14/20 11:57	1
2-Methylnaphthalene	<0.0073		0.081	0.0073	mg/Kg	✱	08/13/20 16:38	08/14/20 11:57	1
2-Methylphenol	<0.064		0.20	0.064	mg/Kg	✱	08/13/20 16:38	08/14/20 11:57	1
3 & 4 Methylphenol	<0.067		0.20	0.067	mg/Kg	✱	08/13/20 16:38	08/14/20 11:57	1
Naphthalene	<0.0061		0.040	0.0061	mg/Kg	✱	08/13/20 16:38	08/14/20 11:57	1
2-Nitroaniline	<0.054		0.20	0.054	mg/Kg	✱	08/13/20 16:38	08/14/20 11:57	1
3-Nitroaniline	<0.12		0.40	0.12	mg/Kg	✱	08/13/20 16:38	08/14/20 11:57	1
4-Nitroaniline	<0.17		0.40	0.17	mg/Kg	✱	08/13/20 16:38	08/14/20 11:57	1
Nitrobenzene	<0.010		0.040	0.010	mg/Kg	✱	08/13/20 16:38	08/14/20 11:57	1
2-Nitrophenol	<0.094		0.40	0.094	mg/Kg	✱	08/13/20 16:38	08/14/20 11:57	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185873-1

Client Sample ID: 2412V2-15-B02 (0-5)

Lab Sample ID: 500-185873-3

Date Collected: 08/03/20 10:55

Matrix: Solid

Date Received: 08/03/20 18:25

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		0.81	0.38	mg/Kg	✱	08/13/20 16:38	08/14/20 11:57	1
N-Nitrosodi-n-propylamine	<0.049		0.081	0.049	mg/Kg	✱	08/13/20 16:38	08/14/20 11:57	1
N-Nitrosodiphenylamine	<0.047		0.20	0.047	mg/Kg	✱	08/13/20 16:38	08/14/20 11:57	1
2,2'-oxybis[1-chloropropane]	<0.046		0.20	0.046	mg/Kg	✱	08/13/20 16:38	08/14/20 11:57	1
Pentachlorophenol	<0.64		0.81	0.64	mg/Kg	✱	08/13/20 16:38	08/14/20 11:57	1
Phenanthrene	<0.0056		0.040	0.0056	mg/Kg	✱	08/13/20 16:38	08/14/20 11:57	1
Phenol	<0.089		0.20	0.089	mg/Kg	✱	08/13/20 16:38	08/14/20 11:57	1
Pyrene	<0.0079		0.040	0.0079	mg/Kg	✱	08/13/20 16:38	08/14/20 11:57	1
1,2,4-Trichlorobenzene	<0.043		0.20	0.043	mg/Kg	✱	08/13/20 16:38	08/14/20 11:57	1
2,4,5-Trichlorophenol	<0.091		0.40	0.091	mg/Kg	✱	08/13/20 16:38	08/14/20 11:57	1
2,4,6-Trichlorophenol	<0.14		0.40	0.14	mg/Kg	✱	08/13/20 16:38	08/14/20 11:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	85		43 - 145				08/13/20 16:38	08/14/20 11:57	1
2-Fluorophenol	71		31 - 166				08/13/20 16:38	08/14/20 11:57	1
Nitrobenzene-d5	67		37 - 147				08/13/20 16:38	08/14/20 11:57	1
Phenol-d5	67		30 - 153				08/13/20 16:38	08/14/20 11:57	1
Terphenyl-d14	103		42 - 157				08/13/20 16:38	08/14/20 11:57	1
2,4,6-Tribromophenol	101		31 - 143				08/13/20 16:38	08/14/20 11:57	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.30	J	1.1	0.22	mg/Kg	✱	08/11/20 06:38	08/11/20 23:01	1
Arsenic	6.8		0.57	0.20	mg/Kg	✱	08/11/20 06:38	08/11/20 23:01	1
Barium	72		0.57	0.065	mg/Kg	✱	08/11/20 06:38	08/11/20 23:01	1
Beryllium	0.83		0.23	0.054	mg/Kg	✱	08/11/20 06:38	08/11/20 23:01	1
Cadmium	<0.021		0.11	0.021	mg/Kg	✱	08/11/20 06:38	08/11/20 23:01	1
Chromium	20		0.57	0.28	mg/Kg	✱	08/11/20 06:38	08/11/20 23:01	1
Cobalt	8.1		0.57	0.15	mg/Kg	✱	08/11/20 06:38	08/12/20 12:14	2
Copper	14		0.57	0.16	mg/Kg	✱	08/11/20 06:38	08/11/20 23:01	1
Iron	19000		11	6.0	mg/Kg	✱	08/11/20 06:38	08/11/20 23:01	1
Lead	17		0.29	0.13	mg/Kg	✱	08/11/20 06:38	08/11/20 23:01	1
Magnesium	3500		5.7	2.8	mg/Kg	✱	08/11/20 06:38	08/11/20 23:01	1
Calcium	2600		11	1.9	mg/Kg	✱	08/11/20 06:38	08/11/20 23:01	1
Manganese	210		0.57	0.083	mg/Kg	✱	08/11/20 06:38	08/11/20 23:01	1
Nickel	20		0.57	0.17	mg/Kg	✱	08/11/20 06:38	08/11/20 23:01	1
Selenium	0.40	J	0.57	0.34	mg/Kg	✱	08/11/20 06:38	08/11/20 23:01	1
Silver	<0.074		0.29	0.074	mg/Kg	✱	08/11/20 06:38	08/11/20 23:01	1
Thallium	<0.29		0.57	0.29	mg/Kg	✱	08/11/20 06:38	08/11/20 23:01	1
Vanadium	34		0.29	0.068	mg/Kg	✱	08/11/20 06:38	08/11/20 23:01	1
Zinc	56		1.1	0.50	mg/Kg	✱	08/11/20 06:38	08/11/20 23:01	1
Potassium	1300		29	10	mg/Kg	✱	08/11/20 06:38	08/11/20 23:01	1
Sodium	950		57	8.5	mg/Kg	✱	08/11/20 06:38	08/11/20 23:01	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		08/13/20 17:12	08/14/20 01:40	1
Barium	0.28	J	0.50	0.050	mg/L		08/13/20 17:12	08/14/20 01:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/13/20 17:12	08/14/20 01:40	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/13/20 17:12	08/14/20 01:40	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185873-1

Client Sample ID: 2412V2-15-B02 (0-5)

Lab Sample ID: 500-185873-3

Date Collected: 08/03/20 10:55

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	63		5.0	0.50	mg/L		08/13/20 17:12	08/14/20 01:40	1
Chromium	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:40	1
Cobalt	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:40	1
Copper	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:40	1
Iron	<0.20		0.40	0.20	mg/L		08/13/20 17:12	08/14/20 01:40	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/13/20 17:12	08/14/20 01:40	1
Magnesium	22		2.5	0.50	mg/L		08/13/20 17:12	08/14/20 01:40	1
Manganese	0.13		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:40	1
Nickel	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:40	1
Potassium	2.2 J		2.5	0.50	mg/L		08/13/20 17:12	08/14/20 01:40	1
Selenium	<0.020		0.050	0.020	mg/L		08/13/20 17:12	08/14/20 01:40	1
Silver	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:40	1
Vanadium	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:40	1
Zinc	0.021 J		0.50	0.020	mg/L		08/13/20 17:12	08/14/20 01:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/13/20 17:12	08/14/20 09:39	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/13/20 17:12	08/14/20 09:39	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/13/20 14:20	08/14/20 09:55	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.019	0.0062	mg/Kg	⊛	08/11/20 14:25	08/12/20 08:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.19 J		0.28	0.14	mg/Kg	⊛	08/14/20 12:10	08/14/20 15:52	1
pH	8.4		0.2	0.2	SU			08/06/20 20:16	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185873-1

Client Sample ID: 2412V2-15-B02 (0-5) Dup

Lab Sample ID: 500-185873-4

Date Collected: 08/03/20 11:00

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0071		0.016	0.0071	mg/Kg	✳	08/04/20 17:04	08/11/20 17:48	1
Benzene	<0.00041		0.0016	0.00041	mg/Kg	✳	08/04/20 17:04	08/11/20 17:48	1
Bromodichloromethane	<0.00033		0.0016	0.00033	mg/Kg	✳	08/04/20 17:04	08/11/20 17:48	1
Bromoform	<0.00047		0.0016	0.00047	mg/Kg	✳	08/04/20 17:04	08/11/20 17:48	1
Bromomethane	<0.0015	*	0.0040	0.0015	mg/Kg	✳	08/04/20 17:04	08/11/20 17:48	1
2-Butanone (MEK)	<0.0018		0.0040	0.0018	mg/Kg	✳	08/04/20 17:04	08/11/20 17:48	1
Carbon disulfide	<0.00084		0.0040	0.00084	mg/Kg	✳	08/04/20 17:04	08/11/20 17:48	1
Carbon tetrachloride	<0.00047		0.0016	0.00047	mg/Kg	✳	08/04/20 17:04	08/11/20 17:48	1
Chlorobenzene	<0.00060		0.0016	0.00060	mg/Kg	✳	08/04/20 17:04	08/11/20 17:48	1
Chloroethane	<0.0012		0.0040	0.0012	mg/Kg	✳	08/04/20 17:04	08/11/20 17:48	1
Chloroform	<0.00056		0.0016	0.00056	mg/Kg	✳	08/04/20 17:04	08/11/20 17:48	1
Chloromethane	<0.0016	*	0.0040	0.0016	mg/Kg	✳	08/04/20 17:04	08/11/20 17:48	1
cis-1,2-Dichloroethene	<0.00045		0.0016	0.00045	mg/Kg	✳	08/04/20 17:04	08/11/20 17:48	1
cis-1,3-Dichloropropene	<0.00049		0.0016	0.00049	mg/Kg	✳	08/04/20 17:04	08/11/20 17:48	1
Dibromochloromethane	<0.00053		0.0016	0.00053	mg/Kg	✳	08/04/20 17:04	08/11/20 17:48	1
1,1-Dichloroethane	<0.00055		0.0016	0.00055	mg/Kg	✳	08/04/20 17:04	08/11/20 17:48	1
1,2-Dichloroethane	<0.0013		0.0040	0.0013	mg/Kg	✳	08/04/20 17:04	08/11/20 17:48	1
1,1-Dichloroethene	<0.00056		0.0016	0.00056	mg/Kg	✳	08/04/20 17:04	08/11/20 17:48	1
1,2-Dichloropropene	<0.00042		0.0016	0.00042	mg/Kg	✳	08/04/20 17:04	08/11/20 17:48	1
1,3-Dichloropropene, Total	<0.00057		0.0016	0.00057	mg/Kg	✳	08/04/20 17:04	08/11/20 17:48	1
Ethylbenzene	<0.00078		0.0016	0.00078	mg/Kg	✳	08/04/20 17:04	08/11/20 17:48	1
2-Hexanone	<0.0013		0.0040	0.0013	mg/Kg	✳	08/04/20 17:04	08/11/20 17:48	1
Methylene Chloride	<0.0016		0.0040	0.0016	mg/Kg	✳	08/04/20 17:04	08/11/20 17:48	1
4-Methyl-2-pentanone (MIBK)	<0.0012		0.0040	0.0012	mg/Kg	✳	08/04/20 17:04	08/11/20 17:48	1
Methyl tert-butyl ether	<0.00048		0.0016	0.00048	mg/Kg	✳	08/04/20 17:04	08/11/20 17:48	1
Styrene	<0.00049		0.0016	0.00049	mg/Kg	✳	08/04/20 17:04	08/11/20 17:48	1
1,1,2,2-Tetrachloroethane	<0.00052		0.0016	0.00052	mg/Kg	✳	08/04/20 17:04	08/11/20 17:48	1
Tetrachloroethene	<0.00055		0.0016	0.00055	mg/Kg	✳	08/04/20 17:04	08/11/20 17:48	1
Toluene	<0.00041		0.0016	0.00041	mg/Kg	✳	08/04/20 17:04	08/11/20 17:48	1
trans-1,2-Dichloroethene	<0.00072		0.0016	0.00072	mg/Kg	✳	08/04/20 17:04	08/11/20 17:48	1
trans-1,3-Dichloropropene	<0.00057		0.0016	0.00057	mg/Kg	✳	08/04/20 17:04	08/11/20 17:48	1
1,1,1-Trichloroethane	<0.00054		0.0016	0.00054	mg/Kg	✳	08/04/20 17:04	08/11/20 17:48	1
1,1,2-Trichloroethane	<0.00069		0.0016	0.00069	mg/Kg	✳	08/04/20 17:04	08/11/20 17:48	1
Trichloroethene	<0.00055		0.0016	0.00055	mg/Kg	✳	08/04/20 17:04	08/11/20 17:48	1
Vinyl acetate	<0.0014		0.0040	0.0014	mg/Kg	✳	08/04/20 17:04	08/11/20 17:48	1
Vinyl chloride	<0.00072		0.0016	0.00072	mg/Kg	✳	08/04/20 17:04	08/11/20 17:48	1
Xylenes, Total	<0.00052		0.0032	0.00052	mg/Kg	✳	08/04/20 17:04	08/11/20 17:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		75 - 131	08/04/20 17:04	08/11/20 17:48	1
Dibromofluoromethane	97		75 - 126	08/04/20 17:04	08/11/20 17:48	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	08/04/20 17:04	08/11/20 17:48	1
Toluene-d8 (Surr)	89		75 - 124	08/04/20 17:04	08/11/20 17:48	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	✳	08/13/20 16:38	08/14/20 12:21	1
Acenaphthylene	<0.0052		0.039	0.0052	mg/Kg	✳	08/13/20 16:38	08/14/20 12:21	1
Anthracene	<0.0066		0.039	0.0066	mg/Kg	✳	08/13/20 16:38	08/14/20 12:21	1
Benzo[a]anthracene	0.0068	J	0.039	0.0053	mg/Kg	✳	08/13/20 16:38	08/14/20 12:21	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185873-1

Client Sample ID: 2412V2-15-B02 (0-5) Dup

Lab Sample ID: 500-185873-4

Date Collected: 08/03/20 11:00

Matrix: Solid

Date Received: 08/03/20 18:25

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	0.0088	J	0.039	0.0076	mg/Kg	*	08/13/20 16:38	08/14/20 12:21	1
Benzo[b]fluoranthene	0.0091	J	0.039	0.0085	mg/Kg	*	08/13/20 16:38	08/14/20 12:21	1
Benzo[g,h,i]perylene	<0.013		0.039	0.013	mg/Kg	*	08/13/20 16:38	08/14/20 12:21	1
Benzo[k]fluoranthene	<0.012		0.039	0.012	mg/Kg	*	08/13/20 16:38	08/14/20 12:21	1
Bis(2-chloroethoxy)methane	<0.040		0.20	0.040	mg/Kg	*	08/13/20 16:38	08/14/20 12:21	1
Bis(2-chloroethyl)ether	<0.059		0.20	0.059	mg/Kg	*	08/13/20 16:38	08/14/20 12:21	1
Bis(2-ethylhexyl) phthalate	<0.072		0.20	0.072	mg/Kg	*	08/13/20 16:38	08/14/20 12:21	1
4-Bromophenyl phenyl ether	<0.052		0.20	0.052	mg/Kg	*	08/13/20 16:38	08/14/20 12:21	1
Butyl benzyl phthalate	<0.075		0.20	0.075	mg/Kg	*	08/13/20 16:38	08/14/20 12:21	1
Carbazole	<0.098		0.20	0.098	mg/Kg	*	08/13/20 16:38	08/14/20 12:21	1
4-Chloroaniline	<0.18		0.79	0.18	mg/Kg	*	08/13/20 16:38	08/14/20 12:21	1
4-Chloro-3-methylphenol	<0.13		0.39	0.13	mg/Kg	*	08/13/20 16:38	08/14/20 12:21	1
2-Chloronaphthalene	<0.043		0.20	0.043	mg/Kg	*	08/13/20 16:38	08/14/20 12:21	1
2-Chlorophenol	<0.067		0.20	0.067	mg/Kg	*	08/13/20 16:38	08/14/20 12:21	1
4-Chlorophenyl phenyl ether	<0.046		0.20	0.046	mg/Kg	*	08/13/20 16:38	08/14/20 12:21	1
Chrysene	<0.011		0.039	0.011	mg/Kg	*	08/13/20 16:38	08/14/20 12:21	1
Dibenz(a,h)anthracene	<0.0076		0.039	0.0076	mg/Kg	*	08/13/20 16:38	08/14/20 12:21	1
Dibenzofuran	<0.046		0.20	0.046	mg/Kg	*	08/13/20 16:38	08/14/20 12:21	1
1,2-Dichlorobenzene	<0.047		0.20	0.047	mg/Kg	*	08/13/20 16:38	08/14/20 12:21	1
1,3-Dichlorobenzene	<0.044		0.20	0.044	mg/Kg	*	08/13/20 16:38	08/14/20 12:21	1
1,4-Dichlorobenzene	<0.050		0.20	0.050	mg/Kg	*	08/13/20 16:38	08/14/20 12:21	1
3,3'-Dichlorobenzidine	<0.055		0.20	0.055	mg/Kg	*	08/13/20 16:38	08/14/20 12:21	1
2,4-Dichlorophenol	<0.093		0.39	0.093	mg/Kg	*	08/13/20 16:38	08/14/20 12:21	1
Diethyl phthalate	<0.067		0.20	0.067	mg/Kg	*	08/13/20 16:38	08/14/20 12:21	1
2,4-Dimethylphenol	<0.15		0.39	0.15	mg/Kg	*	08/13/20 16:38	08/14/20 12:21	1
Dimethyl phthalate	<0.051		0.20	0.051	mg/Kg	*	08/13/20 16:38	08/14/20 12:21	1
Di-n-butyl phthalate	<0.060		0.20	0.060	mg/Kg	*	08/13/20 16:38	08/14/20 12:21	1
4,6-Dinitro-2-methylphenol	<0.32		0.79	0.32	mg/Kg	*	08/13/20 16:38	08/14/20 12:21	1
2,4-Dinitrophenol	<0.69		0.79	0.69	mg/Kg	*	08/13/20 16:38	08/14/20 12:21	1
2,4-Dinitrotoluene	<0.062		0.20	0.062	mg/Kg	*	08/13/20 16:38	08/14/20 12:21	1
2,6-Dinitrotoluene	<0.077		0.20	0.077	mg/Kg	*	08/13/20 16:38	08/14/20 12:21	1
Di-n-octyl phthalate	<0.064		0.20	0.064	mg/Kg	*	08/13/20 16:38	08/14/20 12:21	1
Fluoranthene	0.015	J	0.039	0.0073	mg/Kg	*	08/13/20 16:38	08/14/20 12:21	1
Fluorene	<0.0055		0.039	0.0055	mg/Kg	*	08/13/20 16:38	08/14/20 12:21	1
Hexachlorobenzene	<0.0091		0.079	0.0091	mg/Kg	*	08/13/20 16:38	08/14/20 12:21	1
Hexachlorobutadiene	<0.062		0.20	0.062	mg/Kg	*	08/13/20 16:38	08/14/20 12:21	1
Hexachlorocyclopentadiene	<0.23		0.79	0.23	mg/Kg	*	08/13/20 16:38	08/14/20 12:21	1
Hexachloroethane	<0.060		0.20	0.060	mg/Kg	*	08/13/20 16:38	08/14/20 12:21	1
Indeno[1,2,3-cd]pyrene	<0.010		0.039	0.010	mg/Kg	*	08/13/20 16:38	08/14/20 12:21	1
Isophorone	<0.044		0.20	0.044	mg/Kg	*	08/13/20 16:38	08/14/20 12:21	1
2-Methylnaphthalene	<0.0072		0.079	0.0072	mg/Kg	*	08/13/20 16:38	08/14/20 12:21	1
2-Methylphenol	<0.063		0.20	0.063	mg/Kg	*	08/13/20 16:38	08/14/20 12:21	1
3 & 4 Methylphenol	<0.065		0.20	0.065	mg/Kg	*	08/13/20 16:38	08/14/20 12:21	1
Naphthalene	<0.0060		0.039	0.0060	mg/Kg	*	08/13/20 16:38	08/14/20 12:21	1
2-Nitroaniline	<0.053		0.20	0.053	mg/Kg	*	08/13/20 16:38	08/14/20 12:21	1
3-Nitroaniline	<0.12		0.39	0.12	mg/Kg	*	08/13/20 16:38	08/14/20 12:21	1
4-Nitroaniline	<0.16		0.39	0.16	mg/Kg	*	08/13/20 16:38	08/14/20 12:21	1
Nitrobenzene	<0.0098		0.039	0.0098	mg/Kg	*	08/13/20 16:38	08/14/20 12:21	1
2-Nitrophenol	<0.093		0.39	0.093	mg/Kg	*	08/13/20 16:38	08/14/20 12:21	1

Euofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185873-1

Client Sample ID: 2412V2-15-B02 (0-5) Dup

Lab Sample ID: 500-185873-4

Date Collected: 08/03/20 11:00

Matrix: Solid

Date Received: 08/03/20 18:25

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	<0.37		0.79	0.37	mg/Kg	✳	08/13/20 16:38	08/14/20 12:21	1
N-Nitrosodi-n-propylamine	<0.048		0.079	0.048	mg/Kg	✳	08/13/20 16:38	08/14/20 12:21	1
N-Nitrosodiphenylamine	<0.046		0.20	0.046	mg/Kg	✳	08/13/20 16:38	08/14/20 12:21	1
2,2'-oxybis[1-chloropropane]	<0.045		0.20	0.045	mg/Kg	✳	08/13/20 16:38	08/14/20 12:21	1
Pentachlorophenol	<0.63		0.79	0.63	mg/Kg	✳	08/13/20 16:38	08/14/20 12:21	1
Phenanthrene	<0.0055		0.039	0.0055	mg/Kg	✳	08/13/20 16:38	08/14/20 12:21	1
Phenol	<0.087		0.20	0.087	mg/Kg	✳	08/13/20 16:38	08/14/20 12:21	1
Pyrene	0.015	J	0.039	0.0078	mg/Kg	✳	08/13/20 16:38	08/14/20 12:21	1
1,2,4-Trichlorobenzene	<0.042		0.20	0.042	mg/Kg	✳	08/13/20 16:38	08/14/20 12:21	1
2,4,5-Trichlorophenol	<0.090		0.39	0.090	mg/Kg	✳	08/13/20 16:38	08/14/20 12:21	1
2,4,6-Trichlorophenol	<0.13		0.39	0.13	mg/Kg	✳	08/13/20 16:38	08/14/20 12:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	86		43 - 145	08/13/20 16:38	08/14/20 12:21	1
2-Fluorophenol	75		31 - 166	08/13/20 16:38	08/14/20 12:21	1
Nitrobenzene-d5	70		37 - 147	08/13/20 16:38	08/14/20 12:21	1
Phenol-d5	69		30 - 153	08/13/20 16:38	08/14/20 12:21	1
Terphenyl-d14	104		42 - 157	08/13/20 16:38	08/14/20 12:21	1
2,4,6-Tribromophenol	117		31 - 143	08/13/20 16:38	08/14/20 12:21	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.35	J	1.1	0.22	mg/Kg	✳	08/11/20 06:38	08/11/20 23:05	1
Arsenic	5.7		0.57	0.19	mg/Kg	✳	08/11/20 06:38	08/11/20 23:05	1
Barium	66		0.57	0.065	mg/Kg	✳	08/11/20 06:38	08/11/20 23:05	1
Beryllium	0.72		0.23	0.053	mg/Kg	✳	08/11/20 06:38	08/11/20 23:05	1
Cadmium	0.041	J B	0.11	0.020	mg/Kg	✳	08/11/20 06:38	08/11/20 23:05	1
Chromium	17		0.57	0.28	mg/Kg	✳	08/11/20 06:38	08/11/20 23:05	1
Cobalt	8.9		0.28	0.074	mg/Kg	✳	08/11/20 06:38	08/11/20 23:05	1
Copper	13		0.57	0.16	mg/Kg	✳	08/11/20 06:38	08/11/20 23:05	1
Iron	15000		11	5.9	mg/Kg	✳	08/11/20 06:38	08/11/20 23:05	1
Lead	16		0.28	0.13	mg/Kg	✳	08/11/20 06:38	08/11/20 23:05	1
Magnesium	3400		5.7	2.8	mg/Kg	✳	08/11/20 06:38	08/11/20 23:05	1
Calcium	3000		11	1.9	mg/Kg	✳	08/11/20 06:38	08/11/20 23:05	1
Manganese	250		0.57	0.082	mg/Kg	✳	08/11/20 06:38	08/11/20 23:05	1
Nickel	19		0.57	0.16	mg/Kg	✳	08/11/20 06:38	08/11/20 23:05	1
Selenium	<0.33		0.57	0.33	mg/Kg	✳	08/11/20 06:38	08/11/20 23:05	1
Silver	<0.073		0.28	0.073	mg/Kg	✳	08/11/20 06:38	08/11/20 23:05	1
Thallium	<0.28		0.57	0.28	mg/Kg	✳	08/11/20 06:38	08/11/20 23:05	1
Vanadium	29		0.28	0.067	mg/Kg	✳	08/11/20 06:38	08/11/20 23:05	1
Zinc	50		1.1	0.50	mg/Kg	✳	08/11/20 06:38	08/11/20 23:05	1
Potassium	1400		28	10	mg/Kg	✳	08/11/20 06:38	08/11/20 23:05	1
Sodium	790		57	8.4	mg/Kg	✳	08/11/20 06:38	08/11/20 23:05	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/13/20 17:12	08/14/20 01:44	1
Barium	0.35	J	0.50	0.050	mg/L		08/13/20 17:12	08/14/20 01:44	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/13/20 17:12	08/14/20 01:44	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/13/20 17:12	08/14/20 01:44	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185873-1

Client Sample ID: 2412V2-15-B02 (0-5) Dup

Lab Sample ID: 500-185873-4

Date Collected: 08/03/20 11:00

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 83.8

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		08/13/20 17:12	08/14/20 01:44	1
Chromium	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:44	1
Cobalt	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:44	1
Copper	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:44	1
Iron	<0.20		0.40	0.20	mg/L		08/13/20 17:12	08/14/20 01:44	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/13/20 17:12	08/14/20 01:44	1
Magnesium	31		2.5	0.50	mg/L		08/13/20 17:12	08/14/20 01:44	1
Manganese	0.19		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:44	1
Nickel	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:44	1
Potassium	2.3 J		2.5	0.50	mg/L		08/13/20 17:12	08/14/20 01:44	1
Selenium	<0.020		0.050	0.020	mg/L		08/13/20 17:12	08/14/20 01:44	1
Silver	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:44	1
Vanadium	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:44	1
Zinc	0.024 J		0.50	0.020	mg/L		08/13/20 17:12	08/14/20 01:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.2		0.025	0.010	mg/L		08/14/20 05:55	08/16/20 20:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/13/20 17:12	08/14/20 09:41	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/13/20 17:12	08/14/20 09:41	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/13/20 14:20	08/14/20 09:57	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	✱	08/11/20 14:25	08/12/20 08:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.16		0.32	0.16	mg/Kg	✱	08/14/20 12:10	08/14/20 15:54	1
pH	8.5		0.2	0.2	SU			08/06/20 20:18	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185873-1

Client Sample ID: 2412V2-15-B02 (5-7.5)

Lab Sample ID: 500-185873-5

Date Collected: 08/03/20 11:05

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 88.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0065		0.015	0.0065	mg/Kg	✳	08/04/20 17:04	08/11/20 13:07	1
Benzene	<0.00038		0.0015	0.00038	mg/Kg	✳	08/04/20 17:04	08/11/20 13:07	1
Bromodichloromethane	<0.00030		0.0015	0.00030	mg/Kg	✳	08/04/20 17:04	08/11/20 13:07	1
Bromoform	<0.00044		0.0015	0.00044	mg/Kg	✳	08/04/20 17:04	08/11/20 13:07	1
Bromomethane	<0.0014 *		0.0037	0.0014	mg/Kg	✳	08/04/20 17:04	08/11/20 13:07	1
2-Butanone (MEK)	<0.0017		0.0037	0.0017	mg/Kg	✳	08/04/20 17:04	08/11/20 13:07	1
Carbon disulfide	<0.00078		0.0037	0.00078	mg/Kg	✳	08/04/20 17:04	08/11/20 13:07	1
Carbon tetrachloride	<0.00043		0.0015	0.00043	mg/Kg	✳	08/04/20 17:04	08/11/20 13:07	1
Chlorobenzene	<0.00055		0.0015	0.00055	mg/Kg	✳	08/04/20 17:04	08/11/20 13:07	1
Chloroethane	<0.0011		0.0037	0.0011	mg/Kg	✳	08/04/20 17:04	08/11/20 13:07	1
Chloroform	<0.00052		0.0015	0.00052	mg/Kg	✳	08/04/20 17:04	08/11/20 13:07	1
Chloromethane	<0.0015 *		0.0037	0.0015	mg/Kg	✳	08/04/20 17:04	08/11/20 13:07	1
cis-1,2-Dichloroethene	<0.00042		0.0015	0.00042	mg/Kg	✳	08/04/20 17:04	08/11/20 13:07	1
cis-1,3-Dichloropropene	<0.00045		0.0015	0.00045	mg/Kg	✳	08/04/20 17:04	08/11/20 13:07	1
Dibromochloromethane	<0.00049		0.0015	0.00049	mg/Kg	✳	08/04/20 17:04	08/11/20 13:07	1
1,1-Dichloroethane	<0.00051		0.0015	0.00051	mg/Kg	✳	08/04/20 17:04	08/11/20 13:07	1
1,2-Dichloroethane	<0.0012		0.0037	0.0012	mg/Kg	✳	08/04/20 17:04	08/11/20 13:07	1
1,1-Dichloroethene	<0.00051		0.0015	0.00051	mg/Kg	✳	08/04/20 17:04	08/11/20 13:07	1
1,2-Dichloropropene	<0.00039		0.0015	0.00039	mg/Kg	✳	08/04/20 17:04	08/11/20 13:07	1
1,3-Dichloropropene, Total	<0.00052		0.0015	0.00052	mg/Kg	✳	08/04/20 17:04	08/11/20 13:07	1
Ethylbenzene	<0.00071		0.0015	0.00071	mg/Kg	✳	08/04/20 17:04	08/11/20 13:07	1
2-Hexanone	<0.0012		0.0037	0.0012	mg/Kg	✳	08/04/20 17:04	08/11/20 13:07	1
Methylene Chloride	<0.0015		0.0037	0.0015	mg/Kg	✳	08/04/20 17:04	08/11/20 13:07	1
4-Methyl-2-pentanone (MIBK)	<0.0011		0.0037	0.0011	mg/Kg	✳	08/04/20 17:04	08/11/20 13:07	1
Methyl tert-butyl ether	<0.00044		0.0015	0.00044	mg/Kg	✳	08/04/20 17:04	08/11/20 13:07	1
Styrene	<0.00045		0.0015	0.00045	mg/Kg	✳	08/04/20 17:04	08/11/20 13:07	1
1,1,2,2-Tetrachloroethane	<0.00048		0.0015	0.00048	mg/Kg	✳	08/04/20 17:04	08/11/20 13:07	1
Tetrachloroethene	<0.00051		0.0015	0.00051	mg/Kg	✳	08/04/20 17:04	08/11/20 13:07	1
Toluene	<0.00038		0.0015	0.00038	mg/Kg	✳	08/04/20 17:04	08/11/20 13:07	1
trans-1,2-Dichloroethene	<0.00066		0.0015	0.00066	mg/Kg	✳	08/04/20 17:04	08/11/20 13:07	1
trans-1,3-Dichloropropene	<0.00052		0.0015	0.00052	mg/Kg	✳	08/04/20 17:04	08/11/20 13:07	1
1,1,1-Trichloroethane	<0.00050		0.0015	0.00050	mg/Kg	✳	08/04/20 17:04	08/11/20 13:07	1
1,1,2-Trichloroethane	<0.00064		0.0015	0.00064	mg/Kg	✳	08/04/20 17:04	08/11/20 13:07	1
Trichloroethene	<0.00050		0.0015	0.00050	mg/Kg	✳	08/04/20 17:04	08/11/20 13:07	1
Vinyl acetate	<0.0013		0.0037	0.0013	mg/Kg	✳	08/04/20 17:04	08/11/20 13:07	1
Vinyl chloride	<0.00066		0.0015	0.00066	mg/Kg	✳	08/04/20 17:04	08/11/20 13:07	1
Xylenes, Total	<0.00048		0.0030	0.00048	mg/Kg	✳	08/04/20 17:04	08/11/20 13:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		75 - 131	08/04/20 17:04	08/11/20 13:07	1
Dibromofluoromethane	96		75 - 126	08/04/20 17:04	08/11/20 13:07	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	08/04/20 17:04	08/11/20 13:07	1
Toluene-d8 (Surr)	87		75 - 124	08/04/20 17:04	08/11/20 13:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0067		0.037	0.0067	mg/Kg	✳	08/13/20 16:38	08/14/20 12:44	1
Acenaphthylene	<0.0049		0.037	0.0049	mg/Kg	✳	08/13/20 16:38	08/14/20 12:44	1
Anthracene	<0.0063		0.037	0.0063	mg/Kg	✳	08/13/20 16:38	08/14/20 12:44	1
Benzo[a]anthracene	<0.0050		0.037	0.0050	mg/Kg	✳	08/13/20 16:38	08/14/20 12:44	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185873-1

Client Sample ID: 2412V2-15-B02 (5-7.5)

Lab Sample ID: 500-185873-5

Date Collected: 08/03/20 11:05

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 88.2

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	☼	08/13/20 16:38	08/14/20 12:44	1
Benzo[b]fluoranthene	<0.0081		0.037	0.0081	mg/Kg	☼	08/13/20 16:38	08/14/20 12:44	1
Benzo[g,h,i]perylene	<0.012		0.037	0.012	mg/Kg	☼	08/13/20 16:38	08/14/20 12:44	1
Benzo[k]fluoranthene	<0.011		0.037	0.011	mg/Kg	☼	08/13/20 16:38	08/14/20 12:44	1
Bis(2-chloroethoxy)methane	<0.038		0.19	0.038	mg/Kg	☼	08/13/20 16:38	08/14/20 12:44	1
Bis(2-chloroethyl)ether	<0.056		0.19	0.056	mg/Kg	☼	08/13/20 16:38	08/14/20 12:44	1
Bis(2-ethylhexyl) phthalate	<0.069		0.19	0.069	mg/Kg	☼	08/13/20 16:38	08/14/20 12:44	1
4-Bromophenyl phenyl ether	<0.049		0.19	0.049	mg/Kg	☼	08/13/20 16:38	08/14/20 12:44	1
Butyl benzyl phthalate	<0.071		0.19	0.071	mg/Kg	☼	08/13/20 16:38	08/14/20 12:44	1
Carbazole	<0.094		0.19	0.094	mg/Kg	☼	08/13/20 16:38	08/14/20 12:44	1
4-Chloroaniline	<0.18		0.76	0.18	mg/Kg	☼	08/13/20 16:38	08/14/20 12:44	1
4-Chloro-3-methylphenol	<0.13		0.37	0.13	mg/Kg	☼	08/13/20 16:38	08/14/20 12:44	1
2-Chloronaphthalene	<0.041		0.19	0.041	mg/Kg	☼	08/13/20 16:38	08/14/20 12:44	1
2-Chlorophenol	<0.064		0.19	0.064	mg/Kg	☼	08/13/20 16:38	08/14/20 12:44	1
4-Chlorophenyl phenyl ether	<0.044		0.19	0.044	mg/Kg	☼	08/13/20 16:38	08/14/20 12:44	1
Chrysene	<0.010		0.037	0.010	mg/Kg	☼	08/13/20 16:38	08/14/20 12:44	1
Dibenz(a,h)anthracene	<0.0072		0.037	0.0072	mg/Kg	☼	08/13/20 16:38	08/14/20 12:44	1
Dibenzofuran	<0.044		0.19	0.044	mg/Kg	☼	08/13/20 16:38	08/14/20 12:44	1
1,2-Dichlorobenzene	<0.045		0.19	0.045	mg/Kg	☼	08/13/20 16:38	08/14/20 12:44	1
1,3-Dichlorobenzene	<0.042		0.19	0.042	mg/Kg	☼	08/13/20 16:38	08/14/20 12:44	1
1,4-Dichlorobenzene	<0.048		0.19	0.048	mg/Kg	☼	08/13/20 16:38	08/14/20 12:44	1
3,3'-Dichlorobenzidine	<0.052		0.19	0.052	mg/Kg	☼	08/13/20 16:38	08/14/20 12:44	1
2,4-Dichlorophenol	<0.089		0.37	0.089	mg/Kg	☼	08/13/20 16:38	08/14/20 12:44	1
Diethyl phthalate	<0.064		0.19	0.064	mg/Kg	☼	08/13/20 16:38	08/14/20 12:44	1
2,4-Dimethylphenol	<0.14		0.37	0.14	mg/Kg	☼	08/13/20 16:38	08/14/20 12:44	1
Dimethyl phthalate	<0.049		0.19	0.049	mg/Kg	☼	08/13/20 16:38	08/14/20 12:44	1
Di-n-butyl phthalate	<0.057		0.19	0.057	mg/Kg	☼	08/13/20 16:38	08/14/20 12:44	1
4,6-Dinitro-2-methylphenol	<0.30		0.76	0.30	mg/Kg	☼	08/13/20 16:38	08/14/20 12:44	1
2,4-Dinitrophenol	<0.66		0.76	0.66	mg/Kg	☼	08/13/20 16:38	08/14/20 12:44	1
2,4-Dinitrotoluene	<0.060		0.19	0.060	mg/Kg	☼	08/13/20 16:38	08/14/20 12:44	1
2,6-Dinitrotoluene	<0.074		0.19	0.074	mg/Kg	☼	08/13/20 16:38	08/14/20 12:44	1
Di-n-octyl phthalate	<0.061		0.19	0.061	mg/Kg	☼	08/13/20 16:38	08/14/20 12:44	1
Fluoranthene	<0.0070		0.037	0.0070	mg/Kg	☼	08/13/20 16:38	08/14/20 12:44	1
Fluorene	<0.0053		0.037	0.0053	mg/Kg	☼	08/13/20 16:38	08/14/20 12:44	1
Hexachlorobenzene	<0.0087		0.076	0.0087	mg/Kg	☼	08/13/20 16:38	08/14/20 12:44	1
Hexachlorobutadiene	<0.059		0.19	0.059	mg/Kg	☼	08/13/20 16:38	08/14/20 12:44	1
Hexachlorocyclopentadiene	<0.22		0.76	0.22	mg/Kg	☼	08/13/20 16:38	08/14/20 12:44	1
Hexachloroethane	<0.057		0.19	0.057	mg/Kg	☼	08/13/20 16:38	08/14/20 12:44	1
Indeno[1,2,3-cd]pyrene	<0.0097		0.037	0.0097	mg/Kg	☼	08/13/20 16:38	08/14/20 12:44	1
Isophorone	<0.042		0.19	0.042	mg/Kg	☼	08/13/20 16:38	08/14/20 12:44	1
2-Methylnaphthalene	<0.0069		0.076	0.0069	mg/Kg	☼	08/13/20 16:38	08/14/20 12:44	1
2-Methylphenol	<0.060		0.19	0.060	mg/Kg	☼	08/13/20 16:38	08/14/20 12:44	1
3 & 4 Methylphenol	<0.063		0.19	0.063	mg/Kg	☼	08/13/20 16:38	08/14/20 12:44	1
Naphthalene	<0.0058		0.037	0.0058	mg/Kg	☼	08/13/20 16:38	08/14/20 12:44	1
2-Nitroaniline	<0.050		0.19	0.050	mg/Kg	☼	08/13/20 16:38	08/14/20 12:44	1
3-Nitroaniline	<0.12		0.37	0.12	mg/Kg	☼	08/13/20 16:38	08/14/20 12:44	1
4-Nitroaniline	<0.16		0.37	0.16	mg/Kg	☼	08/13/20 16:38	08/14/20 12:44	1
Nitrobenzene	<0.0094		0.037	0.0094	mg/Kg	☼	08/13/20 16:38	08/14/20 12:44	1
2-Nitrophenol	<0.089		0.37	0.089	mg/Kg	☼	08/13/20 16:38	08/14/20 12:44	1

Euofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185873-1

Client Sample ID: 2412V2-15-B02 (5-7.5)

Lab Sample ID: 500-185873-5

Date Collected: 08/03/20 11:05

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 88.2

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	✳	08/13/20 16:38	08/14/20 12:44	1
N-Nitrosodi-n-propylamine	<0.046		0.076	0.046	mg/Kg	✳	08/13/20 16:38	08/14/20 12:44	1
N-Nitrosodiphenylamine	<0.044		0.19	0.044	mg/Kg	✳	08/13/20 16:38	08/14/20 12:44	1
2,2'-oxybis[1-chloropropane]	<0.043		0.19	0.043	mg/Kg	✳	08/13/20 16:38	08/14/20 12:44	1
Pentachlorophenol	<0.60		0.76	0.60	mg/Kg	✳	08/13/20 16:38	08/14/20 12:44	1
Phenanthrene	<0.0052		0.037	0.0052	mg/Kg	✳	08/13/20 16:38	08/14/20 12:44	1
Phenol	<0.083		0.19	0.083	mg/Kg	✳	08/13/20 16:38	08/14/20 12:44	1
Pyrene	<0.0074		0.037	0.0074	mg/Kg	✳	08/13/20 16:38	08/14/20 12:44	1
1,2,4-Trichlorobenzene	<0.040		0.19	0.040	mg/Kg	✳	08/13/20 16:38	08/14/20 12:44	1
2,4,5-Trichlorophenol	<0.086		0.37	0.086	mg/Kg	✳	08/13/20 16:38	08/14/20 12:44	1
2,4,6-Trichlorophenol	<0.13		0.37	0.13	mg/Kg	✳	08/13/20 16:38	08/14/20 12:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	86		43 - 145	08/13/20 16:38	08/14/20 12:44	1
2-Fluorophenol	72		31 - 166	08/13/20 16:38	08/14/20 12:44	1
Nitrobenzene-d5	69		37 - 147	08/13/20 16:38	08/14/20 12:44	1
Phenol-d5	66		30 - 153	08/13/20 16:38	08/14/20 12:44	1
Terphenyl-d14	102		42 - 157	08/13/20 16:38	08/14/20 12:44	1
2,4,6-Tribromophenol	108		31 - 143	08/13/20 16:38	08/14/20 12:44	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	✳	08/11/20 06:38	08/11/20 23:17	1
Arsenic	3.9		0.57	0.19	mg/Kg	✳	08/11/20 06:38	08/11/20 23:17	1
Barium	21		0.57	0.064	mg/Kg	✳	08/11/20 06:38	08/11/20 23:17	1
Beryllium	0.38		0.23	0.053	mg/Kg	✳	08/11/20 06:38	08/11/20 23:17	1
Cadmium	0.091	J B	0.11	0.020	mg/Kg	✳	08/11/20 06:38	08/11/20 23:17	1
Chromium	8.2		0.57	0.28	mg/Kg	✳	08/11/20 06:38	08/11/20 23:17	1
Cobalt	4.5		0.28	0.074	mg/Kg	✳	08/11/20 06:38	08/11/20 23:17	1
Copper	9.8		0.57	0.16	mg/Kg	✳	08/11/20 06:38	08/11/20 23:17	1
Iron	9000		11	5.9	mg/Kg	✳	08/11/20 06:38	08/11/20 23:17	1
Lead	5.9		0.28	0.13	mg/Kg	✳	08/11/20 06:38	08/11/20 23:17	1
Magnesium	21000		5.7	2.8	mg/Kg	✳	08/11/20 06:38	08/11/20 23:17	1
Calcium	33000		11	1.9	mg/Kg	✳	08/11/20 06:38	08/11/20 23:17	1
Manganese	190		0.57	0.082	mg/Kg	✳	08/11/20 06:38	08/11/20 23:17	1
Nickel	11		0.57	0.16	mg/Kg	✳	08/11/20 06:38	08/11/20 23:17	1
Selenium	<0.33		0.57	0.33	mg/Kg	✳	08/11/20 06:38	08/11/20 23:17	1
Silver	<0.073		0.28	0.073	mg/Kg	✳	08/11/20 06:38	08/11/20 23:17	1
Thallium	<0.28		0.57	0.28	mg/Kg	✳	08/11/20 06:38	08/11/20 23:17	1
Vanadium	15		0.28	0.067	mg/Kg	✳	08/11/20 06:38	08/11/20 23:17	1
Zinc	27		1.1	0.50	mg/Kg	✳	08/11/20 06:38	08/11/20 23:17	1
Potassium	900		28	10	mg/Kg	✳	08/11/20 06:38	08/11/20 23:17	1
Sodium	420		57	8.4	mg/Kg	✳	08/11/20 06:38	08/11/20 23:17	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/13/20 17:12	08/14/20 01:48	1
Barium	0.21	J	0.50	0.050	mg/L		08/13/20 17:12	08/14/20 01:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/13/20 17:12	08/14/20 01:48	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/13/20 17:12	08/14/20 01:48	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185873-1

Client Sample ID: 2412V2-15-B02 (5-7.5)

Lab Sample ID: 500-185873-5

Date Collected: 08/03/20 11:05

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 88.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	300		5.0	0.50	mg/L		08/13/20 17:12	08/14/20 01:48	1
Chromium	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:48	1
Cobalt	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:48	1
Copper	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:48	1
Iron	<0.20		0.40	0.20	mg/L		08/13/20 17:12	08/14/20 01:48	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/13/20 17:12	08/14/20 01:48	1
Magnesium	170		2.5	0.50	mg/L		08/13/20 17:12	08/14/20 01:48	1
Manganese	0.87		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:48	1
Nickel	0.011	J	0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:48	1
Potassium	1.6	J	2.5	0.50	mg/L		08/13/20 17:12	08/14/20 01:48	1
Selenium	<0.020		0.050	0.020	mg/L		08/13/20 17:12	08/14/20 01:48	1
Silver	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:48	1
Vanadium	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:48	1
Zinc	0.076	J	0.50	0.020	mg/L		08/13/20 17:12	08/14/20 01:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.63		0.025	0.010	mg/L		08/14/20 05:55	08/16/20 20:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/13/20 17:12	08/14/20 09:43	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/13/20 17:12	08/14/20 09:43	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/13/20 14:20	08/14/20 09:59	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	J	0.018	0.0059	mg/Kg	✱	08/11/20 14:25	08/12/20 08:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.15		0.29	0.15	mg/Kg	✱	08/14/20 12:10	08/14/20 16:10	1
pH	9.1		0.2	0.2	SU			08/06/20 20:21	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185873-1

Client Sample ID: 2412V2-15-B03 (0-5)

Lab Sample ID: 500-185873-6

Date Collected: 08/03/20 11:25

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0084		0.019	0.0084	mg/Kg	✳	08/04/20 17:04	08/11/20 13:32	1
Benzene	<0.00049		0.0019	0.00049	mg/Kg	✳	08/04/20 17:04	08/11/20 13:32	1
Bromodichloromethane	<0.00039		0.0019	0.00039	mg/Kg	✳	08/04/20 17:04	08/11/20 13:32	1
Bromoform	<0.00056		0.0019	0.00056	mg/Kg	✳	08/04/20 17:04	08/11/20 13:32	1
Bromomethane	<0.0018	*	0.0048	0.0018	mg/Kg	✳	08/04/20 17:04	08/11/20 13:32	1
2-Butanone (MEK)	<0.0021		0.0048	0.0021	mg/Kg	✳	08/04/20 17:04	08/11/20 13:32	1
Carbon disulfide	<0.0010		0.0048	0.0010	mg/Kg	✳	08/04/20 17:04	08/11/20 13:32	1
Carbon tetrachloride	<0.00056		0.0019	0.00056	mg/Kg	✳	08/04/20 17:04	08/11/20 13:32	1
Chlorobenzene	<0.00071		0.0019	0.00071	mg/Kg	✳	08/04/20 17:04	08/11/20 13:32	1
Chloroethane	<0.0014		0.0048	0.0014	mg/Kg	✳	08/04/20 17:04	08/11/20 13:32	1
Chloroform	<0.00067		0.0019	0.00067	mg/Kg	✳	08/04/20 17:04	08/11/20 13:32	1
Chloromethane	<0.0019	*	0.0048	0.0019	mg/Kg	✳	08/04/20 17:04	08/11/20 13:32	1
cis-1,2-Dichloroethene	<0.00054		0.0019	0.00054	mg/Kg	✳	08/04/20 17:04	08/11/20 13:32	1
cis-1,3-Dichloropropene	<0.00058		0.0019	0.00058	mg/Kg	✳	08/04/20 17:04	08/11/20 13:32	1
Dibromochloromethane	<0.00063		0.0019	0.00063	mg/Kg	✳	08/04/20 17:04	08/11/20 13:32	1
1,1-Dichloroethane	<0.00066		0.0019	0.00066	mg/Kg	✳	08/04/20 17:04	08/11/20 13:32	1
1,2-Dichloroethane	<0.0015		0.0048	0.0015	mg/Kg	✳	08/04/20 17:04	08/11/20 13:32	1
1,1-Dichloroethene	<0.00066		0.0019	0.00066	mg/Kg	✳	08/04/20 17:04	08/11/20 13:32	1
1,2-Dichloropropene	<0.00050		0.0019	0.00050	mg/Kg	✳	08/04/20 17:04	08/11/20 13:32	1
1,3-Dichloropropene, Total	<0.00068		0.0019	0.00068	mg/Kg	✳	08/04/20 17:04	08/11/20 13:32	1
Ethylbenzene	<0.00092		0.0019	0.00092	mg/Kg	✳	08/04/20 17:04	08/11/20 13:32	1
2-Hexanone	<0.0015		0.0048	0.0015	mg/Kg	✳	08/04/20 17:04	08/11/20 13:32	1
Methylene Chloride	<0.0019		0.0048	0.0019	mg/Kg	✳	08/04/20 17:04	08/11/20 13:32	1
4-Methyl-2-pentanone (MIBK)	<0.0014		0.0048	0.0014	mg/Kg	✳	08/04/20 17:04	08/11/20 13:32	1
Methyl tert-butyl ether	<0.00056		0.0019	0.00056	mg/Kg	✳	08/04/20 17:04	08/11/20 13:32	1
Styrene	<0.00058		0.0019	0.00058	mg/Kg	✳	08/04/20 17:04	08/11/20 13:32	1
1,1,2,2-Tetrachloroethane	<0.00061		0.0019	0.00061	mg/Kg	✳	08/04/20 17:04	08/11/20 13:32	1
Tetrachloroethene	<0.00066		0.0019	0.00066	mg/Kg	✳	08/04/20 17:04	08/11/20 13:32	1
Toluene	<0.00049		0.0019	0.00049	mg/Kg	✳	08/04/20 17:04	08/11/20 13:32	1
trans-1,2-Dichloroethene	<0.00085		0.0019	0.00085	mg/Kg	✳	08/04/20 17:04	08/11/20 13:32	1
trans-1,3-Dichloropropene	<0.00068		0.0019	0.00068	mg/Kg	✳	08/04/20 17:04	08/11/20 13:32	1
1,1,1-Trichloroethane	<0.00065		0.0019	0.00065	mg/Kg	✳	08/04/20 17:04	08/11/20 13:32	1
1,1,2-Trichloroethane	<0.00083		0.0019	0.00083	mg/Kg	✳	08/04/20 17:04	08/11/20 13:32	1
Trichloroethene	<0.00065		0.0019	0.00065	mg/Kg	✳	08/04/20 17:04	08/11/20 13:32	1
Vinyl acetate	<0.0017		0.0048	0.0017	mg/Kg	✳	08/04/20 17:04	08/11/20 13:32	1
Vinyl chloride	<0.00085		0.0019	0.00085	mg/Kg	✳	08/04/20 17:04	08/11/20 13:32	1
Xylenes, Total	<0.00062		0.0038	0.00062	mg/Kg	✳	08/04/20 17:04	08/11/20 13:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		75 - 131	08/04/20 17:04	08/11/20 13:32	1
Dibromofluoromethane	94		75 - 126	08/04/20 17:04	08/11/20 13:32	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	08/04/20 17:04	08/11/20 13:32	1
Toluene-d8 (Surr)	88		75 - 124	08/04/20 17:04	08/11/20 13:32	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	✳	08/13/20 16:38	08/14/20 13:08	1
Acenaphthylene	<0.0051		0.039	0.0051	mg/Kg	✳	08/13/20 16:38	08/14/20 13:08	1
Anthracene	<0.0065		0.039	0.0065	mg/Kg	✳	08/13/20 16:38	08/14/20 13:08	1
Benzo[a]anthracene	0.0065	J	0.039	0.0052	mg/Kg	✳	08/13/20 16:38	08/14/20 13:08	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185873-1

Client Sample ID: 2412V2-15-B03 (0-5)

Lab Sample ID: 500-185873-6

Date Collected: 08/03/20 11:25

Matrix: Solid

Date Received: 08/03/20 18:25

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	<0.0075		0.039	0.0075	mg/Kg	☼	08/13/20 16:38	08/14/20 13:08	1
Benzo[b]fluoranthene	<0.0084		0.039	0.0084	mg/Kg	☼	08/13/20 16:38	08/14/20 13:08	1
Benzo[g,h,i]perylene	<0.013		0.039	0.013	mg/Kg	☼	08/13/20 16:38	08/14/20 13:08	1
Benzo[k]fluoranthene	<0.011		0.039	0.011	mg/Kg	☼	08/13/20 16:38	08/14/20 13:08	1
Bis(2-chloroethoxy)methane	<0.040		0.20	0.040	mg/Kg	☼	08/13/20 16:38	08/14/20 13:08	1
Bis(2-chloroethyl)ether	<0.058		0.20	0.058	mg/Kg	☼	08/13/20 16:38	08/14/20 13:08	1
Bis(2-ethylhexyl) phthalate	<0.071		0.20	0.071	mg/Kg	☼	08/13/20 16:38	08/14/20 13:08	1
4-Bromophenyl phenyl ether	<0.051		0.20	0.051	mg/Kg	☼	08/13/20 16:38	08/14/20 13:08	1
Butyl benzyl phthalate	<0.074		0.20	0.074	mg/Kg	☼	08/13/20 16:38	08/14/20 13:08	1
Carbazole	<0.097		0.20	0.097	mg/Kg	☼	08/13/20 16:38	08/14/20 13:08	1
4-Chloroaniline	<0.18		0.78	0.18	mg/Kg	☼	08/13/20 16:38	08/14/20 13:08	1
4-Chloro-3-methylphenol	<0.13		0.39	0.13	mg/Kg	☼	08/13/20 16:38	08/14/20 13:08	1
2-Chloronaphthalene	<0.043		0.20	0.043	mg/Kg	☼	08/13/20 16:38	08/14/20 13:08	1
2-Chlorophenol	<0.066		0.20	0.066	mg/Kg	☼	08/13/20 16:38	08/14/20 13:08	1
4-Chlorophenyl phenyl ether	<0.045		0.20	0.045	mg/Kg	☼	08/13/20 16:38	08/14/20 13:08	1
Chrysene	<0.011		0.039	0.011	mg/Kg	☼	08/13/20 16:38	08/14/20 13:08	1
Dibenz(a,h)anthracene	<0.0075		0.039	0.0075	mg/Kg	☼	08/13/20 16:38	08/14/20 13:08	1
Dibenzofuran	<0.046		0.20	0.046	mg/Kg	☼	08/13/20 16:38	08/14/20 13:08	1
1,2-Dichlorobenzene	<0.046		0.20	0.046	mg/Kg	☼	08/13/20 16:38	08/14/20 13:08	1
1,3-Dichlorobenzene	<0.044		0.20	0.044	mg/Kg	☼	08/13/20 16:38	08/14/20 13:08	1
1,4-Dichlorobenzene	<0.050		0.20	0.050	mg/Kg	☼	08/13/20 16:38	08/14/20 13:08	1
3,3'-Dichlorobenzidine	<0.054		0.20	0.054	mg/Kg	☼	08/13/20 16:38	08/14/20 13:08	1
2,4-Dichlorophenol	<0.092		0.39	0.092	mg/Kg	☼	08/13/20 16:38	08/14/20 13:08	1
Diethyl phthalate	<0.066		0.20	0.066	mg/Kg	☼	08/13/20 16:38	08/14/20 13:08	1
2,4-Dimethylphenol	<0.15		0.39	0.15	mg/Kg	☼	08/13/20 16:38	08/14/20 13:08	1
Dimethyl phthalate	<0.051		0.20	0.051	mg/Kg	☼	08/13/20 16:38	08/14/20 13:08	1
Di-n-butyl phthalate	<0.059		0.20	0.059	mg/Kg	☼	08/13/20 16:38	08/14/20 13:08	1
4,6-Dinitro-2-methylphenol	<0.31		0.78	0.31	mg/Kg	☼	08/13/20 16:38	08/14/20 13:08	1
2,4-Dinitrophenol	<0.68		0.78	0.68	mg/Kg	☼	08/13/20 16:38	08/14/20 13:08	1
2,4-Dinitrotoluene	<0.062		0.20	0.062	mg/Kg	☼	08/13/20 16:38	08/14/20 13:08	1
2,6-Dinitrotoluene	<0.076		0.20	0.076	mg/Kg	☼	08/13/20 16:38	08/14/20 13:08	1
Di-n-octyl phthalate	<0.063		0.20	0.063	mg/Kg	☼	08/13/20 16:38	08/14/20 13:08	1
Fluoranthene	0.013 J		0.039	0.0072	mg/Kg	☼	08/13/20 16:38	08/14/20 13:08	1
Fluorene	<0.0055		0.039	0.0055	mg/Kg	☼	08/13/20 16:38	08/14/20 13:08	1
Hexachlorobenzene	<0.0090		0.078	0.0090	mg/Kg	☼	08/13/20 16:38	08/14/20 13:08	1
Hexachlorobutadiene	<0.061		0.20	0.061	mg/Kg	☼	08/13/20 16:38	08/14/20 13:08	1
Hexachlorocyclopentadiene	<0.22		0.78	0.22	mg/Kg	☼	08/13/20 16:38	08/14/20 13:08	1
Hexachloroethane	<0.059		0.20	0.059	mg/Kg	☼	08/13/20 16:38	08/14/20 13:08	1
Indeno[1,2,3-cd]pyrene	<0.010		0.039	0.010	mg/Kg	☼	08/13/20 16:38	08/14/20 13:08	1
Isophorone	<0.044		0.20	0.044	mg/Kg	☼	08/13/20 16:38	08/14/20 13:08	1
2-Methylnaphthalene	<0.0071		0.078	0.0071	mg/Kg	☼	08/13/20 16:38	08/14/20 13:08	1
2-Methylphenol	<0.062		0.20	0.062	mg/Kg	☼	08/13/20 16:38	08/14/20 13:08	1
3 & 4 Methylphenol	<0.065		0.20	0.065	mg/Kg	☼	08/13/20 16:38	08/14/20 13:08	1
Naphthalene	<0.0060		0.039	0.0060	mg/Kg	☼	08/13/20 16:38	08/14/20 13:08	1
2-Nitroaniline	<0.052		0.20	0.052	mg/Kg	☼	08/13/20 16:38	08/14/20 13:08	1
3-Nitroaniline	<0.12		0.39	0.12	mg/Kg	☼	08/13/20 16:38	08/14/20 13:08	1
4-Nitroaniline	<0.16		0.39	0.16	mg/Kg	☼	08/13/20 16:38	08/14/20 13:08	1
Nitrobenzene	<0.0097		0.039	0.0097	mg/Kg	☼	08/13/20 16:38	08/14/20 13:08	1
2-Nitrophenol	<0.092		0.39	0.092	mg/Kg	☼	08/13/20 16:38	08/14/20 13:08	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185873-1

Client Sample ID: 2412V2-15-B03 (0-5)

Lab Sample ID: 500-185873-6

Date Collected: 08/03/20 11:25

Matrix: Solid

Date Received: 08/03/20 18:25

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	<0.37		0.78	0.37	mg/Kg	✳	08/13/20 16:38	08/14/20 13:08	1
N-Nitrosodi-n-propylamine	<0.048		0.078	0.048	mg/Kg	✳	08/13/20 16:38	08/14/20 13:08	1
N-Nitrosodiphenylamine	<0.046		0.20	0.046	mg/Kg	✳	08/13/20 16:38	08/14/20 13:08	1
2,2'-oxybis[1-chloropropane]	<0.045		0.20	0.045	mg/Kg	✳	08/13/20 16:38	08/14/20 13:08	1
Pentachlorophenol	<0.62		0.78	0.62	mg/Kg	✳	08/13/20 16:38	08/14/20 13:08	1
Phenanthrene	0.0057	J	0.039	0.0054	mg/Kg	✳	08/13/20 16:38	08/14/20 13:08	1
Phenol	<0.086		0.20	0.086	mg/Kg	✳	08/13/20 16:38	08/14/20 13:08	1
Pyrene	0.012	J	0.039	0.0077	mg/Kg	✳	08/13/20 16:38	08/14/20 13:08	1
1,2,4-Trichlorobenzene	<0.042		0.20	0.042	mg/Kg	✳	08/13/20 16:38	08/14/20 13:08	1
2,4,5-Trichlorophenol	<0.089		0.39	0.089	mg/Kg	✳	08/13/20 16:38	08/14/20 13:08	1
2,4,6-Trichlorophenol	<0.13		0.39	0.13	mg/Kg	✳	08/13/20 16:38	08/14/20 13:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	85		43 - 145				08/13/20 16:38	08/14/20 13:08	1
2-Fluorophenol	76		31 - 166				08/13/20 16:38	08/14/20 13:08	1
Nitrobenzene-d5	70		37 - 147				08/13/20 16:38	08/14/20 13:08	1
Phenol-d5	66		30 - 153				08/13/20 16:38	08/14/20 13:08	1
Terphenyl-d14	103		42 - 157				08/13/20 16:38	08/14/20 13:08	1
2,4,6-Tribromophenol	116		31 - 143				08/13/20 16:38	08/14/20 13:08	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.32	J	1.1	0.22	mg/Kg	✳	08/11/20 06:38	08/11/20 23:21	1
Arsenic	5.6		0.56	0.19	mg/Kg	✳	08/11/20 06:38	08/11/20 23:21	1
Barium	56		0.56	0.064	mg/Kg	✳	08/11/20 06:38	08/11/20 23:21	1
Beryllium	0.65		0.22	0.052	mg/Kg	✳	08/11/20 06:38	08/11/20 23:21	1
Cadmium	0.032	J B	0.11	0.020	mg/Kg	✳	08/11/20 06:38	08/11/20 23:21	1
Chromium	15		0.56	0.28	mg/Kg	✳	08/11/20 06:38	08/11/20 23:21	1
Cobalt	7.6		0.28	0.074	mg/Kg	✳	08/11/20 06:38	08/11/20 23:21	1
Copper	13		0.56	0.16	mg/Kg	✳	08/11/20 06:38	08/11/20 23:21	1
Iron	15000		11	5.8	mg/Kg	✳	08/11/20 06:38	08/11/20 23:21	1
Lead	12		0.28	0.13	mg/Kg	✳	08/11/20 06:38	08/11/20 23:21	1
Magnesium	6800		5.6	2.8	mg/Kg	✳	08/11/20 06:38	08/11/20 23:21	1
Calcium	9000		11	1.9	mg/Kg	✳	08/11/20 06:38	08/11/20 23:21	1
Manganese	350		0.56	0.081	mg/Kg	✳	08/11/20 06:38	08/11/20 23:21	1
Nickel	23		0.56	0.16	mg/Kg	✳	08/11/20 06:38	08/11/20 23:21	1
Selenium	<0.33		0.56	0.33	mg/Kg	✳	08/11/20 06:38	08/11/20 23:21	1
Silver	<0.072		0.28	0.072	mg/Kg	✳	08/11/20 06:38	08/11/20 23:21	1
Thallium	0.34	J	0.56	0.28	mg/Kg	✳	08/11/20 06:38	08/11/20 23:21	1
Vanadium	24		0.28	0.066	mg/Kg	✳	08/11/20 06:38	08/11/20 23:21	1
Zinc	48		1.1	0.49	mg/Kg	✳	08/11/20 06:38	08/11/20 23:21	1
Potassium	1200		28	9.9	mg/Kg	✳	08/11/20 06:38	08/11/20 23:21	1
Sodium	600		56	8.3	mg/Kg	✳	08/11/20 06:38	08/11/20 23:21	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/13/20 17:12	08/14/20 01:52	1
Barium	0.55		0.50	0.050	mg/L		08/13/20 17:12	08/14/20 01:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/13/20 17:12	08/14/20 01:52	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/13/20 17:12	08/14/20 01:52	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185873-1

Client Sample ID: 2412V2-15-B03 (0-5)

Lab Sample ID: 500-185873-6

Date Collected: 08/03/20 11:25

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 84.7

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		08/13/20 17:12	08/14/20 01:52	1
Chromium	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:52	1
Cobalt	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:52	1
Copper	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:52	1
Iron	<0.20		0.40	0.20	mg/L		08/13/20 17:12	08/14/20 01:52	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/13/20 17:12	08/14/20 01:52	1
Magnesium	170		2.5	0.50	mg/L		08/13/20 17:12	08/14/20 01:52	1
Manganese	0.75		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:52	1
Nickel	0.016	J	0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:52	1
Potassium	0.86	J	2.5	0.50	mg/L		08/13/20 17:12	08/14/20 01:52	1
Selenium	<0.020		0.050	0.020	mg/L		08/13/20 17:12	08/14/20 01:52	1
Silver	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:52	1
Vanadium	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:52	1
Zinc	<0.020		0.50	0.020	mg/L		08/13/20 17:12	08/14/20 01:52	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		08/14/20 05:55	08/16/20 20:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/13/20 17:12	08/14/20 09:45	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/13/20 17:12	08/14/20 09:45	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		08/13/20 14:20	08/14/20 10:01	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.037		0.018	0.0060	mg/Kg	✱	08/11/20 14:25	08/12/20 08:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.13	J	0.26	0.13	mg/Kg	✱	08/14/20 12:10	08/14/20 16:12	1
pH	9.0		0.2	0.2	SU			08/06/20 20:23	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185873-1

Client Sample ID: 2412V2-15-B03 (5-7.5)

Lab Sample ID: 500-185873-7

Date Collected: 08/03/20 11:30

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 90.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0056		0.013	0.0056	mg/Kg	✳	08/04/20 17:04	08/11/20 13:58	1
Benzene	<0.00033		0.0013	0.00033	mg/Kg	✳	08/04/20 17:04	08/11/20 13:58	1
Bromodichloromethane	<0.00026		0.0013	0.00026	mg/Kg	✳	08/04/20 17:04	08/11/20 13:58	1
Bromoform	<0.00037		0.0013	0.00037	mg/Kg	✳	08/04/20 17:04	08/11/20 13:58	1
Bromomethane	<0.0012	*	0.0032	0.0012	mg/Kg	✳	08/04/20 17:04	08/11/20 13:58	1
2-Butanone (MEK)	<0.0014		0.0032	0.0014	mg/Kg	✳	08/04/20 17:04	08/11/20 13:58	1
Carbon disulfide	<0.00067		0.0032	0.00067	mg/Kg	✳	08/04/20 17:04	08/11/20 13:58	1
Carbon tetrachloride	<0.00037		0.0013	0.00037	mg/Kg	✳	08/04/20 17:04	08/11/20 13:58	1
Chlorobenzene	<0.00047		0.0013	0.00047	mg/Kg	✳	08/04/20 17:04	08/11/20 13:58	1
Chloroethane	<0.00095		0.0032	0.00095	mg/Kg	✳	08/04/20 17:04	08/11/20 13:58	1
Chloroform	<0.00045		0.0013	0.00045	mg/Kg	✳	08/04/20 17:04	08/11/20 13:58	1
Chloromethane	<0.0013	*	0.0032	0.0013	mg/Kg	✳	08/04/20 17:04	08/11/20 13:58	1
cis-1,2-Dichloroethene	<0.00036		0.0013	0.00036	mg/Kg	✳	08/04/20 17:04	08/11/20 13:58	1
cis-1,3-Dichloropropene	<0.00039		0.0013	0.00039	mg/Kg	✳	08/04/20 17:04	08/11/20 13:58	1
Dibromochloromethane	<0.00042		0.0013	0.00042	mg/Kg	✳	08/04/20 17:04	08/11/20 13:58	1
1,1-Dichloroethane	<0.00044		0.0013	0.00044	mg/Kg	✳	08/04/20 17:04	08/11/20 13:58	1
1,2-Dichloroethane	<0.0010		0.0032	0.0010	mg/Kg	✳	08/04/20 17:04	08/11/20 13:58	1
1,1-Dichloroethene	<0.00044		0.0013	0.00044	mg/Kg	✳	08/04/20 17:04	08/11/20 13:58	1
1,2-Dichloropropene	<0.00033		0.0013	0.00033	mg/Kg	✳	08/04/20 17:04	08/11/20 13:58	1
1,3-Dichloropropene, Total	<0.00045		0.0013	0.00045	mg/Kg	✳	08/04/20 17:04	08/11/20 13:58	1
Ethylbenzene	<0.00061		0.0013	0.00061	mg/Kg	✳	08/04/20 17:04	08/11/20 13:58	1
2-Hexanone	<0.0010		0.0032	0.0010	mg/Kg	✳	08/04/20 17:04	08/11/20 13:58	1
Methylene Chloride	<0.0013		0.0032	0.0013	mg/Kg	✳	08/04/20 17:04	08/11/20 13:58	1
4-Methyl-2-pentanone (MIBK)	<0.00095		0.0032	0.00095	mg/Kg	✳	08/04/20 17:04	08/11/20 13:58	1
Methyl tert-butyl ether	<0.00038		0.0013	0.00038	mg/Kg	✳	08/04/20 17:04	08/11/20 13:58	1
Styrene	<0.00039		0.0013	0.00039	mg/Kg	✳	08/04/20 17:04	08/11/20 13:58	1
1,1,2,2-Tetrachloroethane	<0.00041		0.0013	0.00041	mg/Kg	✳	08/04/20 17:04	08/11/20 13:58	1
Tetrachloroethene	<0.00044		0.0013	0.00044	mg/Kg	✳	08/04/20 17:04	08/11/20 13:58	1
Toluene	<0.00032		0.0013	0.00032	mg/Kg	✳	08/04/20 17:04	08/11/20 13:58	1
trans-1,2-Dichloroethene	<0.00057		0.0013	0.00057	mg/Kg	✳	08/04/20 17:04	08/11/20 13:58	1
trans-1,3-Dichloropropene	<0.00045		0.0013	0.00045	mg/Kg	✳	08/04/20 17:04	08/11/20 13:58	1
1,1,1-Trichloroethane	<0.00043		0.0013	0.00043	mg/Kg	✳	08/04/20 17:04	08/11/20 13:58	1
1,1,2-Trichloroethane	<0.00055		0.0013	0.00055	mg/Kg	✳	08/04/20 17:04	08/11/20 13:58	1
Trichloroethene	<0.00043		0.0013	0.00043	mg/Kg	✳	08/04/20 17:04	08/11/20 13:58	1
Vinyl acetate	<0.0011		0.0032	0.0011	mg/Kg	✳	08/04/20 17:04	08/11/20 13:58	1
Vinyl chloride	<0.00057		0.0013	0.00057	mg/Kg	✳	08/04/20 17:04	08/11/20 13:58	1
Xylenes, Total	<0.00041		0.0026	0.00041	mg/Kg	✳	08/04/20 17:04	08/11/20 13:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		75 - 131	08/04/20 17:04	08/11/20 13:58	1
Dibromofluoromethane	91		75 - 126	08/04/20 17:04	08/11/20 13:58	1
1,2-Dichloroethane-d4 (Surr)	88		70 - 134	08/04/20 17:04	08/11/20 13:58	1
Toluene-d8 (Surr)	89		75 - 124	08/04/20 17:04	08/11/20 13:58	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	✳	08/13/20 16:38	08/14/20 13:31	1
Acenaphthylene	<0.0048		0.036	0.0048	mg/Kg	✳	08/13/20 16:38	08/14/20 13:31	1
Anthracene	<0.0061		0.036	0.0061	mg/Kg	✳	08/13/20 16:38	08/14/20 13:31	1
Benzo[a]anthracene	<0.0049		0.036	0.0049	mg/Kg	✳	08/13/20 16:38	08/14/20 13:31	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185873-1

Client Sample ID: 2412V2-15-B03 (5-7.5)

Lab Sample ID: 500-185873-7

Date Collected: 08/03/20 11:30

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 90.3

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	☼	08/13/20 16:38	08/14/20 13:31	1
Benzo[b]fluoranthene	0.011	J	0.036	0.0079	mg/Kg	☼	08/13/20 16:38	08/14/20 13:31	1
Benzo[g,h,i]perylene	<0.012		0.036	0.012	mg/Kg	☼	08/13/20 16:38	08/14/20 13:31	1
Benzo[k]fluoranthene	<0.011		0.036	0.011	mg/Kg	☼	08/13/20 16:38	08/14/20 13:31	1
Bis(2-chloroethoxy)methane	<0.037		0.18	0.037	mg/Kg	☼	08/13/20 16:38	08/14/20 13:31	1
Bis(2-chloroethyl)ether	<0.055		0.18	0.055	mg/Kg	☼	08/13/20 16:38	08/14/20 13:31	1
Bis(2-ethylhexyl) phthalate	<0.066		0.18	0.066	mg/Kg	☼	08/13/20 16:38	08/14/20 13:31	1
4-Bromophenyl phenyl ether	<0.048		0.18	0.048	mg/Kg	☼	08/13/20 16:38	08/14/20 13:31	1
Butyl benzyl phthalate	<0.069		0.18	0.069	mg/Kg	☼	08/13/20 16:38	08/14/20 13:31	1
Carbazole	<0.091		0.18	0.091	mg/Kg	☼	08/13/20 16:38	08/14/20 13:31	1
4-Chloroaniline	<0.17		0.73	0.17	mg/Kg	☼	08/13/20 16:38	08/14/20 13:31	1
4-Chloro-3-methylphenol	<0.12		0.36	0.12	mg/Kg	☼	08/13/20 16:38	08/14/20 13:31	1
2-Chloronaphthalene	<0.040		0.18	0.040	mg/Kg	☼	08/13/20 16:38	08/14/20 13:31	1
2-Chlorophenol	<0.062		0.18	0.062	mg/Kg	☼	08/13/20 16:38	08/14/20 13:31	1
4-Chlorophenyl phenyl ether	<0.042		0.18	0.042	mg/Kg	☼	08/13/20 16:38	08/14/20 13:31	1
Chrysene	<0.0099		0.036	0.0099	mg/Kg	☼	08/13/20 16:38	08/14/20 13:31	1
Dibenz(a,h)anthracene	<0.0070		0.036	0.0070	mg/Kg	☼	08/13/20 16:38	08/14/20 13:31	1
Dibenzofuran	<0.043		0.18	0.043	mg/Kg	☼	08/13/20 16:38	08/14/20 13:31	1
1,2-Dichlorobenzene	<0.043		0.18	0.043	mg/Kg	☼	08/13/20 16:38	08/14/20 13:31	1
1,3-Dichlorobenzene	<0.041		0.18	0.041	mg/Kg	☼	08/13/20 16:38	08/14/20 13:31	1
1,4-Dichlorobenzene	<0.047		0.18	0.047	mg/Kg	☼	08/13/20 16:38	08/14/20 13:31	1
3,3'-Dichlorobenzidine	<0.051		0.18	0.051	mg/Kg	☼	08/13/20 16:38	08/14/20 13:31	1
2,4-Dichlorophenol	<0.086		0.36	0.086	mg/Kg	☼	08/13/20 16:38	08/14/20 13:31	1
Diethyl phthalate	<0.062		0.18	0.062	mg/Kg	☼	08/13/20 16:38	08/14/20 13:31	1
2,4-Dimethylphenol	<0.14		0.36	0.14	mg/Kg	☼	08/13/20 16:38	08/14/20 13:31	1
Dimethyl phthalate	<0.048		0.18	0.048	mg/Kg	☼	08/13/20 16:38	08/14/20 13:31	1
Di-n-butyl phthalate	<0.055		0.18	0.055	mg/Kg	☼	08/13/20 16:38	08/14/20 13:31	1
4,6-Dinitro-2-methylphenol	<0.29		0.73	0.29	mg/Kg	☼	08/13/20 16:38	08/14/20 13:31	1
2,4-Dinitrophenol	<0.64		0.73	0.64	mg/Kg	☼	08/13/20 16:38	08/14/20 13:31	1
2,4-Dinitrotoluene	<0.058		0.18	0.058	mg/Kg	☼	08/13/20 16:38	08/14/20 13:31	1
2,6-Dinitrotoluene	<0.072		0.18	0.072	mg/Kg	☼	08/13/20 16:38	08/14/20 13:31	1
Di-n-octyl phthalate	<0.059		0.18	0.059	mg/Kg	☼	08/13/20 16:38	08/14/20 13:31	1
Fluoranthene	0.011	J	0.036	0.0067	mg/Kg	☼	08/13/20 16:38	08/14/20 13:31	1
Fluorene	<0.0051		0.036	0.0051	mg/Kg	☼	08/13/20 16:38	08/14/20 13:31	1
Hexachlorobenzene	<0.0084		0.073	0.0084	mg/Kg	☼	08/13/20 16:38	08/14/20 13:31	1
Hexachlorobutadiene	<0.057		0.18	0.057	mg/Kg	☼	08/13/20 16:38	08/14/20 13:31	1
Hexachlorocyclopentadiene	<0.21		0.73	0.21	mg/Kg	☼	08/13/20 16:38	08/14/20 13:31	1
Hexachloroethane	<0.055		0.18	0.055	mg/Kg	☼	08/13/20 16:38	08/14/20 13:31	1
Indeno[1,2,3-cd]pyrene	<0.0094		0.036	0.0094	mg/Kg	☼	08/13/20 16:38	08/14/20 13:31	1
Isophorone	<0.041		0.18	0.041	mg/Kg	☼	08/13/20 16:38	08/14/20 13:31	1
2-Methylnaphthalene	<0.0067		0.073	0.0067	mg/Kg	☼	08/13/20 16:38	08/14/20 13:31	1
2-Methylphenol	<0.058		0.18	0.058	mg/Kg	☼	08/13/20 16:38	08/14/20 13:31	1
3 & 4 Methylphenol	<0.061		0.18	0.061	mg/Kg	☼	08/13/20 16:38	08/14/20 13:31	1
Naphthalene	<0.0056		0.036	0.0056	mg/Kg	☼	08/13/20 16:38	08/14/20 13:31	1
2-Nitroaniline	<0.049		0.18	0.049	mg/Kg	☼	08/13/20 16:38	08/14/20 13:31	1
3-Nitroaniline	<0.11		0.36	0.11	mg/Kg	☼	08/13/20 16:38	08/14/20 13:31	1
4-Nitroaniline	<0.15		0.36	0.15	mg/Kg	☼	08/13/20 16:38	08/14/20 13:31	1
Nitrobenzene	<0.0091		0.036	0.0091	mg/Kg	☼	08/13/20 16:38	08/14/20 13:31	1
2-Nitrophenol	<0.086		0.36	0.086	mg/Kg	☼	08/13/20 16:38	08/14/20 13:31	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185873-1

Client Sample ID: 2412V2-15-B03 (5-7.5)

Lab Sample ID: 500-185873-7

Date Collected: 08/03/20 11:30

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 90.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.35		0.73	0.35	mg/Kg	☼	08/13/20 16:38	08/14/20 13:31	1
N-Nitrosodi-n-propylamine	<0.044		0.073	0.044	mg/Kg	☼	08/13/20 16:38	08/14/20 13:31	1
N-Nitrosodiphenylamine	<0.043		0.18	0.043	mg/Kg	☼	08/13/20 16:38	08/14/20 13:31	1
2,2'-oxybis[1-chloropropane]	<0.042		0.18	0.042	mg/Kg	☼	08/13/20 16:38	08/14/20 13:31	1
Pentachlorophenol	<0.58		0.73	0.58	mg/Kg	☼	08/13/20 16:38	08/14/20 13:31	1
Phenanthrene	<0.0051		0.036	0.0051	mg/Kg	☼	08/13/20 16:38	08/14/20 13:31	1
Phenol	<0.081		0.18	0.081	mg/Kg	☼	08/13/20 16:38	08/14/20 13:31	1
Pyrene	0.010	J	0.036	0.0072	mg/Kg	☼	08/13/20 16:38	08/14/20 13:31	1
1,2,4-Trichlorobenzene	<0.039		0.18	0.039	mg/Kg	☼	08/13/20 16:38	08/14/20 13:31	1
2,4,5-Trichlorophenol	<0.083		0.36	0.083	mg/Kg	☼	08/13/20 16:38	08/14/20 13:31	1
2,4,6-Trichlorophenol	<0.12		0.36	0.12	mg/Kg	☼	08/13/20 16:38	08/14/20 13:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	87		43 - 145				08/13/20 16:38	08/14/20 13:31	1
2-Fluorophenol	74		31 - 166				08/13/20 16:38	08/14/20 13:31	1
Nitrobenzene-d5	72		37 - 147				08/13/20 16:38	08/14/20 13:31	1
Phenol-d5	66		30 - 153				08/13/20 16:38	08/14/20 13:31	1
Terphenyl-d14	99		42 - 157				08/13/20 16:38	08/14/20 13:31	1
2,4,6-Tribromophenol	108		31 - 143				08/13/20 16:38	08/14/20 13:31	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.46	J	1.1	0.21	mg/Kg	☼	08/11/20 06:38	08/11/20 23:25	1
Arsenic	6.7		0.55	0.19	mg/Kg	☼	08/11/20 06:38	08/11/20 23:25	1
Barium	28		0.55	0.063	mg/Kg	☼	08/11/20 06:38	08/11/20 23:25	1
Beryllium	0.33		0.22	0.051	mg/Kg	☼	08/11/20 06:38	08/11/20 23:25	1
Cadmium	0.10	J B	0.11	0.020	mg/Kg	☼	08/11/20 06:38	08/11/20 23:25	1
Chromium	7.4		0.55	0.27	mg/Kg	☼	08/11/20 06:38	08/11/20 23:25	1
Cobalt	3.8		0.28	0.072	mg/Kg	☼	08/11/20 06:38	08/11/20 23:25	1
Copper	8.1		0.55	0.15	mg/Kg	☼	08/11/20 06:38	08/11/20 23:25	1
Iron	11000		11	5.7	mg/Kg	☼	08/11/20 06:38	08/11/20 23:25	1
Lead	6.4		0.28	0.13	mg/Kg	☼	08/11/20 06:38	08/11/20 23:25	1
Magnesium	32000		5.5	2.7	mg/Kg	☼	08/11/20 06:38	08/11/20 23:25	1
Calcium	92000		110	19	mg/Kg	☼	08/11/20 06:38	08/12/20 12:18	10
Manganese	380		0.55	0.080	mg/Kg	☼	08/11/20 06:38	08/11/20 23:25	1
Nickel	11		0.55	0.16	mg/Kg	☼	08/11/20 06:38	08/11/20 23:25	1
Selenium	<0.32		0.55	0.32	mg/Kg	☼	08/11/20 06:38	08/11/20 23:25	1
Silver	<0.071		0.28	0.071	mg/Kg	☼	08/11/20 06:38	08/11/20 23:25	1
Thallium	<0.28		0.55	0.28	mg/Kg	☼	08/11/20 06:38	08/11/20 23:25	1
Vanadium	12		0.28	0.065	mg/Kg	☼	08/11/20 06:38	08/11/20 23:25	1
Zinc	30		1.1	0.48	mg/Kg	☼	08/11/20 06:38	08/11/20 23:25	1
Potassium	760		28	9.8	mg/Kg	☼	08/11/20 06:38	08/11/20 23:25	1
Sodium	360		55	8.2	mg/Kg	☼	08/11/20 06:38	08/11/20 23:25	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/13/20 17:12	08/14/20 01:57	1
Barium	0.34	J	0.50	0.050	mg/L		08/13/20 17:12	08/14/20 01:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/13/20 17:12	08/14/20 01:57	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/13/20 17:12	08/14/20 01:57	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185873-1

Client Sample ID: 2412V2-15-B03 (5-7.5)

Lab Sample ID: 500-185873-7

Date Collected: 08/03/20 11:30

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 90.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	600		5.0	0.50	mg/L		08/13/20 17:12	08/14/20 01:57	1
Chromium	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:57	1
Cobalt	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:57	1
Copper	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:57	1
Iron	<0.20		0.40	0.20	mg/L		08/13/20 17:12	08/14/20 01:57	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/13/20 17:12	08/14/20 01:57	1
Magnesium	93		2.5	0.50	mg/L		08/13/20 17:12	08/14/20 01:57	1
Manganese	1.2		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:57	1
Nickel	0.014	J	0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:57	1
Potassium	1.4	J	2.5	0.50	mg/L		08/13/20 17:12	08/14/20 01:57	1
Selenium	<0.020		0.050	0.020	mg/L		08/13/20 17:12	08/14/20 01:57	1
Silver	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:57	1
Vanadium	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:57	1
Zinc	0.027	J	0.50	0.020	mg/L		08/13/20 17:12	08/14/20 01:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.43		0.025	0.010	mg/L		08/14/20 05:55	08/16/20 20:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/13/20 17:12	08/14/20 09:53	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/13/20 17:12	08/14/20 09:53	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		08/13/20 14:20	08/14/20 10:03	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.015	J	0.017	0.0058	mg/Kg	✱	08/11/20 14:25	08/12/20 08:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.16		0.32	0.16	mg/Kg	✱	08/14/20 12:10	08/14/20 16:13	1
pH	9.3		0.2	0.2	SU			08/06/20 20:26	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185873-1

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 exceeds control limits.
F2	MS/MSD RPD exceeds 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
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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

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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185873-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185873-1

GC/MS VOA

Analysis Batch: 556063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185873-1	2412V2-15-B01 (0-5)	Total/NA	Solid	8260B	556139
500-185873-2	2412V2-15-B01 (5-7.5)	Total/NA	Solid	8260B	556139
MB 500-556063/9	Method Blank	Total/NA	Solid	8260B	
LCS 500-556063/10	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-556063/11	Lab Control Sample Dup	Total/NA	Solid	8260B	

Prep Batch: 556139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185873-1	2412V2-15-B01 (0-5)	Total/NA	Solid	5035	
500-185873-2	2412V2-15-B01 (5-7.5)	Total/NA	Solid	5035	
500-185873-3	2412V2-15-B02 (0-5)	Total/NA	Solid	5035	
500-185873-4	2412V2-15-B02 (0-5) Dup	Total/NA	Solid	5035	
500-185873-5	2412V2-15-B02 (5-7.5)	Total/NA	Solid	5035	
500-185873-6	2412V2-15-B03 (0-5)	Total/NA	Solid	5035	
500-185873-7	2412V2-15-B03 (5-7.5)	Total/NA	Solid	5035	

Analysis Batch: 556207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185873-3	2412V2-15-B02 (0-5)	Total/NA	Solid	8260B	556139
500-185873-4	2412V2-15-B02 (0-5) Dup	Total/NA	Solid	8260B	556139
500-185873-5	2412V2-15-B02 (5-7.5)	Total/NA	Solid	8260B	556139
500-185873-6	2412V2-15-B03 (0-5)	Total/NA	Solid	8260B	556139
500-185873-7	2412V2-15-B03 (5-7.5)	Total/NA	Solid	8260B	556139
MB 500-556207/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-556207/7	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-556207/8	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 556721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185873-1	2412V2-15-B01 (0-5)	Total/NA	Solid	3541	
500-185873-2	2412V2-15-B01 (5-7.5)	Total/NA	Solid	3541	
500-185873-3	2412V2-15-B02 (0-5)	Total/NA	Solid	3541	
500-185873-4	2412V2-15-B02 (0-5) Dup	Total/NA	Solid	3541	
500-185873-5	2412V2-15-B02 (5-7.5)	Total/NA	Solid	3541	
500-185873-6	2412V2-15-B03 (0-5)	Total/NA	Solid	3541	
500-185873-7	2412V2-15-B03 (5-7.5)	Total/NA	Solid	3541	
MB 500-556721/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-556721/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-185873-2 MS	2412V2-15-B01 (5-7.5)	Total/NA	Solid	3541	
500-185873-2 MSD	2412V2-15-B01 (5-7.5)	Total/NA	Solid	3541	

Analysis Batch: 556853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185873-1	2412V2-15-B01 (0-5)	Total/NA	Solid	8270D	556721
500-185873-2	2412V2-15-B01 (5-7.5)	Total/NA	Solid	8270D	556721
500-185873-3	2412V2-15-B02 (0-5)	Total/NA	Solid	8270D	556721
500-185873-4	2412V2-15-B02 (0-5) Dup	Total/NA	Solid	8270D	556721
500-185873-5	2412V2-15-B02 (5-7.5)	Total/NA	Solid	8270D	556721
500-185873-6	2412V2-15-B03 (0-5)	Total/NA	Solid	8270D	556721

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185873-1

GC/MS Semi VOA (Continued)

Analysis Batch: 556853 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185873-7	2412V2-15-B03 (5-7.5)	Total/NA	Solid	8270D	556721
MB 500-556721/1-A	Method Blank	Total/NA	Solid	8270D	556721
LCS 500-556721/2-A	Lab Control Sample	Total/NA	Solid	8270D	556721
500-185873-2 MS	2412V2-15-B01 (5-7.5)	Total/NA	Solid	8270D	556721
500-185873-2 MSD	2412V2-15-B01 (5-7.5)	Total/NA	Solid	8270D	556721

Metals

Prep Batch: 556177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185873-1	2412V2-15-B01 (0-5)	Total/NA	Solid	3050B	
500-185873-2	2412V2-15-B01 (5-7.5)	Total/NA	Solid	3050B	
500-185873-3	2412V2-15-B02 (0-5)	Total/NA	Solid	3050B	
500-185873-4	2412V2-15-B02 (0-5) Dup	Total/NA	Solid	3050B	
500-185873-5	2412V2-15-B02 (5-7.5)	Total/NA	Solid	3050B	
500-185873-6	2412V2-15-B03 (0-5)	Total/NA	Solid	3050B	
500-185873-7	2412V2-15-B03 (5-7.5)	Total/NA	Solid	3050B	
MB 500-556177/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-556177/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-185873-1 MS	2412V2-15-B01 (0-5)	Total/NA	Solid	3050B	
500-185873-1 MSD	2412V2-15-B01 (0-5)	Total/NA	Solid	3050B	
500-185873-1 DU	2412V2-15-B01 (0-5)	Total/NA	Solid	3050B	

Prep Batch: 556274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185873-1	2412V2-15-B01 (0-5)	Total/NA	Solid	7471B	
500-185873-2	2412V2-15-B01 (5-7.5)	Total/NA	Solid	7471B	
500-185873-3	2412V2-15-B02 (0-5)	Total/NA	Solid	7471B	
500-185873-4	2412V2-15-B02 (0-5) Dup	Total/NA	Solid	7471B	
500-185873-5	2412V2-15-B02 (5-7.5)	Total/NA	Solid	7471B	
500-185873-6	2412V2-15-B03 (0-5)	Total/NA	Solid	7471B	
500-185873-7	2412V2-15-B03 (5-7.5)	Total/NA	Solid	7471B	
MB 500-556274/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-556274/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 556360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185873-1	2412V2-15-B01 (0-5)	Total/NA	Solid	6010B	556177
500-185873-2	2412V2-15-B01 (5-7.5)	Total/NA	Solid	6010B	556177
500-185873-3	2412V2-15-B02 (0-5)	Total/NA	Solid	6010B	556177
500-185873-4	2412V2-15-B02 (0-5) Dup	Total/NA	Solid	6010B	556177
500-185873-5	2412V2-15-B02 (5-7.5)	Total/NA	Solid	6010B	556177
500-185873-6	2412V2-15-B03 (0-5)	Total/NA	Solid	6010B	556177
500-185873-7	2412V2-15-B03 (5-7.5)	Total/NA	Solid	6010B	556177
MB 500-556177/1-A	Method Blank	Total/NA	Solid	6010B	556177
LCS 500-556177/2-A	Lab Control Sample	Total/NA	Solid	6010B	556177
500-185873-1 MS	2412V2-15-B01 (0-5)	Total/NA	Solid	6010B	556177
500-185873-1 MSD	2412V2-15-B01 (0-5)	Total/NA	Solid	6010B	556177
500-185873-1 DU	2412V2-15-B01 (0-5)	Total/NA	Solid	6010B	556177

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185873-1

Metals

Analysis Batch: 556451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185873-1	2412V2-15-B01 (0-5)	Total/NA	Solid	7471B	556274
500-185873-2	2412V2-15-B01 (5-7.5)	Total/NA	Solid	7471B	556274
500-185873-3	2412V2-15-B02 (0-5)	Total/NA	Solid	7471B	556274
500-185873-4	2412V2-15-B02 (0-5) Dup	Total/NA	Solid	7471B	556274
500-185873-5	2412V2-15-B02 (5-7.5)	Total/NA	Solid	7471B	556274
500-185873-6	2412V2-15-B03 (0-5)	Total/NA	Solid	7471B	556274
500-185873-7	2412V2-15-B03 (5-7.5)	Total/NA	Solid	7471B	556274
MB 500-556274/12-A	Method Blank	Total/NA	Solid	7471B	556274
LCS 500-556274/13-A	Lab Control Sample	Total/NA	Solid	7471B	556274

Leach Batch: 556478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185873-1	2412V2-15-B01 (0-5)	SPLP East	Solid	1312	
500-185873-2	2412V2-15-B01 (5-7.5)	SPLP East	Solid	1312	
500-185873-4	2412V2-15-B02 (0-5) Dup	SPLP East	Solid	1312	
500-185873-5	2412V2-15-B02 (5-7.5)	SPLP East	Solid	1312	
500-185873-6	2412V2-15-B03 (0-5)	SPLP East	Solid	1312	
500-185873-7	2412V2-15-B03 (5-7.5)	SPLP East	Solid	1312	
LB 500-556478/2-B	Method Blank	SPLP East	Solid	1312	

Analysis Batch: 556484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185873-3	2412V2-15-B02 (0-5)	Total/NA	Solid	6010B	556177
500-185873-7	2412V2-15-B03 (5-7.5)	Total/NA	Solid	6010B	556177

Leach Batch: 556488

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185873-1	2412V2-15-B01 (0-5)	TCLP	Solid	1311	
500-185873-3	2412V2-15-B02 (0-5)	TCLP	Solid	1311	
500-185873-4	2412V2-15-B02 (0-5) Dup	TCLP	Solid	1311	
500-185873-5	2412V2-15-B02 (5-7.5)	TCLP	Solid	1311	
500-185873-6	2412V2-15-B03 (0-5)	TCLP	Solid	1311	
500-185873-7	2412V2-15-B03 (5-7.5)	TCLP	Solid	1311	
LB 500-556488/2-B	Method Blank	TCLP	Solid	1311	
LB 500-556488/2-C	Method Blank	TCLP	Solid	1311	

Leach Batch: 556490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185873-2	2412V2-15-B01 (5-7.5)	TCLP	Solid	1311	
LB2 500-556490/2-B	Method Blank	TCLP	Solid	1311	
LB2 500-556490/2-C	Method Blank	TCLP	Solid	1311	

Prep Batch: 556702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185873-1	2412V2-15-B01 (0-5)	TCLP	Solid	7470A	556488
500-185873-2	2412V2-15-B01 (5-7.5)	TCLP	Solid	7470A	556490
500-185873-3	2412V2-15-B02 (0-5)	TCLP	Solid	7470A	556488
500-185873-4	2412V2-15-B02 (0-5) Dup	TCLP	Solid	7470A	556488
500-185873-5	2412V2-15-B02 (5-7.5)	TCLP	Solid	7470A	556488
500-185873-6	2412V2-15-B03 (0-5)	TCLP	Solid	7470A	556488
500-185873-7	2412V2-15-B03 (5-7.5)	TCLP	Solid	7470A	556488

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185873-1

Metals (Continued)

Prep Batch: 556702 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 500-556488/2-B	Method Blank	TCLP	Solid	7470A	556488
LB2 500-556490/2-B	Method Blank	TCLP	Solid	7470A	556490
MB 500-556702/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-556702/14-A	Lab Control Sample	Total/NA	Solid	7470A	
LCS 500-556702/37-A	Lab Control Sample	Total/NA	Solid	7470A	

Prep Batch: 556726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185873-1	2412V2-15-B01 (0-5)	TCLP	Solid	3010A	556488
500-185873-2	2412V2-15-B01 (5-7.5)	TCLP	Solid	3010A	556490
500-185873-3	2412V2-15-B02 (0-5)	TCLP	Solid	3010A	556488
500-185873-4	2412V2-15-B02 (0-5) Dup	TCLP	Solid	3010A	556488
500-185873-5	2412V2-15-B02 (5-7.5)	TCLP	Solid	3010A	556488
500-185873-6	2412V2-15-B03 (0-5)	TCLP	Solid	3010A	556488
500-185873-7	2412V2-15-B03 (5-7.5)	TCLP	Solid	3010A	556488
LB 500-556488/2-C	Method Blank	TCLP	Solid	3010A	556488
LB2 500-556490/2-C	Method Blank	TCLP	Solid	3010A	556490
LCS 500-556726/24-A	Lab Control Sample	Total/NA	Solid	3010A	
LCS 500-556726/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 556778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185873-2	2412V2-15-B01 (5-7.5)	TCLP	Solid	6010B	556726
LB2 500-556490/2-C	Method Blank	TCLP	Solid	6010B	556726
LCS 500-556726/24-A	Lab Control Sample	Total/NA	Solid	6010B	556726

Prep Batch: 556796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185873-1	2412V2-15-B01 (0-5)	SPLP East	Solid	3010A	556478
500-185873-2	2412V2-15-B01 (5-7.5)	SPLP East	Solid	3010A	556478
500-185873-4	2412V2-15-B02 (0-5) Dup	SPLP East	Solid	3010A	556478
500-185873-5	2412V2-15-B02 (5-7.5)	SPLP East	Solid	3010A	556478
500-185873-6	2412V2-15-B03 (0-5)	SPLP East	Solid	3010A	556478
500-185873-7	2412V2-15-B03 (5-7.5)	SPLP East	Solid	3010A	556478
LB 500-556478/2-B	Method Blank	SPLP East	Solid	3010A	556478
LCS 500-556796/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 556800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185873-1	2412V2-15-B01 (0-5)	TCLP	Solid	6010B	556726
500-185873-3	2412V2-15-B02 (0-5)	TCLP	Solid	6010B	556726
500-185873-4	2412V2-15-B02 (0-5) Dup	TCLP	Solid	6010B	556726
500-185873-5	2412V2-15-B02 (5-7.5)	TCLP	Solid	6010B	556726
500-185873-6	2412V2-15-B03 (0-5)	TCLP	Solid	6010B	556726
500-185873-7	2412V2-15-B03 (5-7.5)	TCLP	Solid	6010B	556726
LB 500-556488/2-C	Method Blank	TCLP	Solid	6010B	556726
LCS 500-556726/2-A	Lab Control Sample	Total/NA	Solid	6010B	556726

Analysis Batch: 556891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185873-1	2412V2-15-B01 (0-5)	TCLP	Solid	6020A	556726

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185873-1

Metals (Continued)

Analysis Batch: 556891 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185873-2	2412V2-15-B01 (5-7.5)	TCLP	Solid	6020A	556726
500-185873-3	2412V2-15-B02 (0-5)	TCLP	Solid	6020A	556726
500-185873-4	2412V2-15-B02 (0-5) Dup	TCLP	Solid	6020A	556726
500-185873-5	2412V2-15-B02 (5-7.5)	TCLP	Solid	6020A	556726
500-185873-6	2412V2-15-B03 (0-5)	TCLP	Solid	6020A	556726
500-185873-7	2412V2-15-B03 (5-7.5)	TCLP	Solid	6020A	556726
LB 500-556488/2-C	Method Blank	TCLP	Solid	6020A	556726
LB2 500-556490/2-C	Method Blank	TCLP	Solid	6020A	556726
LCS 500-556726/24-A	Lab Control Sample	Total/NA	Solid	6020A	556726
LCS 500-556726/2-A	Lab Control Sample	Total/NA	Solid	6020A	556726

Analysis Batch: 556904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185873-1	2412V2-15-B01 (0-5)	TCLP	Solid	7470A	556702
500-185873-2	2412V2-15-B01 (5-7.5)	TCLP	Solid	7470A	556702
500-185873-3	2412V2-15-B02 (0-5)	TCLP	Solid	7470A	556702
500-185873-4	2412V2-15-B02 (0-5) Dup	TCLP	Solid	7470A	556702
500-185873-5	2412V2-15-B02 (5-7.5)	TCLP	Solid	7470A	556702
500-185873-6	2412V2-15-B03 (0-5)	TCLP	Solid	7470A	556702
500-185873-7	2412V2-15-B03 (5-7.5)	TCLP	Solid	7470A	556702
LB 500-556488/2-B	Method Blank	TCLP	Solid	7470A	556702
LB2 500-556490/2-B	Method Blank	TCLP	Solid	7470A	556702
MB 500-556702/12-A	Method Blank	Total/NA	Solid	7470A	556702
LCS 500-556702/14-A	Lab Control Sample	Total/NA	Solid	7470A	556702
LCS 500-556702/37-A	Lab Control Sample	Total/NA	Solid	7470A	556702

Analysis Batch: 557084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185873-1	2412V2-15-B01 (0-5)	SPLP East	Solid	6010B	556796
500-185873-2	2412V2-15-B01 (5-7.5)	SPLP East	Solid	6010B	556796
500-185873-4	2412V2-15-B02 (0-5) Dup	SPLP East	Solid	6010B	556796
500-185873-5	2412V2-15-B02 (5-7.5)	SPLP East	Solid	6010B	556796
500-185873-6	2412V2-15-B03 (0-5)	SPLP East	Solid	6010B	556796
500-185873-7	2412V2-15-B03 (5-7.5)	SPLP East	Solid	6010B	556796
LB 500-556478/2-B	Method Blank	SPLP East	Solid	6010B	556796
LCS 500-556796/2-A	Lab Control Sample	Total/NA	Solid	6010B	556796

General Chemistry

Analysis Batch: 555682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185873-1	2412V2-15-B01 (0-5)	Total/NA	Solid	Moisture	
500-185873-2	2412V2-15-B01 (5-7.5)	Total/NA	Solid	Moisture	
500-185873-3	2412V2-15-B02 (0-5)	Total/NA	Solid	Moisture	
500-185873-4	2412V2-15-B02 (0-5) Dup	Total/NA	Solid	Moisture	
500-185873-5	2412V2-15-B02 (5-7.5)	Total/NA	Solid	Moisture	
500-185873-6	2412V2-15-B03 (0-5)	Total/NA	Solid	Moisture	
500-185873-7	2412V2-15-B03 (5-7.5)	Total/NA	Solid	Moisture	
500-185873-5 DU	2412V2-15-B02 (5-7.5)	Total/NA	Solid	Moisture	

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185873-1

General Chemistry

Analysis Batch: 555814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185873-1	2412V2-15-B01 (0-5)	Total/NA	Solid	9045D	
500-185873-2	2412V2-15-B01 (5-7.5)	Total/NA	Solid	9045D	
500-185873-3	2412V2-15-B02 (0-5)	Total/NA	Solid	9045D	
500-185873-4	2412V2-15-B02 (0-5) Dup	Total/NA	Solid	9045D	
500-185873-5	2412V2-15-B02 (5-7.5)	Total/NA	Solid	9045D	
500-185873-6	2412V2-15-B03 (0-5)	Total/NA	Solid	9045D	
500-185873-7	2412V2-15-B03 (5-7.5)	Total/NA	Solid	9045D	
LCS 500-555814/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-555814/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Prep Batch: 556842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185873-1	2412V2-15-B01 (0-5)	Total/NA	Solid	9010C	
500-185873-2	2412V2-15-B01 (5-7.5)	Total/NA	Solid	9010C	
500-185873-3	2412V2-15-B02 (0-5)	Total/NA	Solid	9010C	
500-185873-4	2412V2-15-B02 (0-5) Dup	Total/NA	Solid	9010C	
500-185873-5	2412V2-15-B02 (5-7.5)	Total/NA	Solid	9010C	
500-185873-6	2412V2-15-B03 (0-5)	Total/NA	Solid	9010C	
500-185873-7	2412V2-15-B03 (5-7.5)	Total/NA	Solid	9010C	
MB 500-556842/1-A	Method Blank	Total/NA	Solid	9010C	
HLCS 500-556842/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 500-556842/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 500-556842/4-A	Lab Control Sample	Total/NA	Solid	9010C	

Analysis Batch: 557133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185873-1	2412V2-15-B01 (0-5)	Total/NA	Solid	9012B	556842
500-185873-2	2412V2-15-B01 (5-7.5)	Total/NA	Solid	9012B	556842
500-185873-3	2412V2-15-B02 (0-5)	Total/NA	Solid	9012B	556842
500-185873-4	2412V2-15-B02 (0-5) Dup	Total/NA	Solid	9012B	556842
500-185873-5	2412V2-15-B02 (5-7.5)	Total/NA	Solid	9012B	556842
500-185873-6	2412V2-15-B03 (0-5)	Total/NA	Solid	9012B	556842
500-185873-7	2412V2-15-B03 (5-7.5)	Total/NA	Solid	9012B	556842
MB 500-556842/1-A	Method Blank	Total/NA	Solid	9012B	556842
HLCS 500-556842/2-A	Lab Control Sample	Total/NA	Solid	9012B	556842
LCS 500-556842/3-A	Lab Control Sample	Total/NA	Solid	9012B	556842
LLCS 500-556842/4-A	Lab Control Sample	Total/NA	Solid	9012B	556842

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185873-1

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)
500-185873-1	2412V2-15-B01 (0-5)	109	93	92	90
500-185873-2	2412V2-15-B01 (5-7.5)	104	94	95	89
500-185873-3	2412V2-15-B02 (0-5)	109	96	96	87
500-185873-4	2412V2-15-B02 (0-5) Dup	109	97	94	89
500-185873-5	2412V2-15-B02 (5-7.5)	115	96	95	87
500-185873-6	2412V2-15-B03 (0-5)	109	94	97	88
500-185873-7	2412V2-15-B03 (5-7.5)	112	91	88	89
LCS 500-556063/10	Lab Control Sample	98	85	79	92
LCS 500-556207/7	Lab Control Sample	97	87	82	95
LCSD 500-556063/11	Lab Control Sample Dup	102	87	79	91
LCSD 500-556207/8	Lab Control Sample Dup	102	87	82	91
MB 500-556063/9	Method Blank	104	86	81	90
MB 500-556207/6	Method Blank	103	89	86	89

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)
500-185873-1	2412V2-15-B01 (0-5)	90	76	76	68	107	122
500-185873-2	2412V2-15-B01 (5-7.5)	80	77	66	68	103	120
500-185873-2 MS	2412V2-15-B01 (5-7.5)	78	67	60	56	79	102
500-185873-2 MSD	2412V2-15-B01 (5-7.5)	80	66	61	58	84	96
500-185873-3	2412V2-15-B02 (0-5)	85	71	67	67	103	101
500-185873-4	2412V2-15-B02 (0-5) Dup	86	75	70	69	104	117
500-185873-5	2412V2-15-B02 (5-7.5)	86	72	69	66	102	108
500-185873-6	2412V2-15-B03 (0-5)	85	76	70	66	103	116
500-185873-7	2412V2-15-B03 (5-7.5)	87	74	72	66	99	108
LCS 500-556721/2-A	Lab Control Sample	93	81	73	71	94	123
MB 500-556721/1-A	Method Blank	102	81	78	70	109	132

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 - Hampshire - WO 074

Job ID: 500-185873-1

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

Lab Sample ID: MB 500-556063/9
Matrix: Solid
Analysis Batch: 556063

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.0087		0.020	0.0087	mg/Kg			08/10/20 10:53	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg			08/10/20 10:53	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg			08/10/20 10:53	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg			08/10/20 10:53	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg			08/10/20 10:53	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			08/10/20 10:53	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg			08/10/20 10:53	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg			08/10/20 10:53	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg			08/10/20 10:53	1
Chloroethane	<0.0015		0.0050	0.0015	mg/Kg			08/10/20 10:53	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg			08/10/20 10:53	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg			08/10/20 10:53	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg			08/10/20 10:53	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg			08/10/20 10:53	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg			08/10/20 10:53	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg			08/10/20 10:53	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg			08/10/20 10:53	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg			08/10/20 10:53	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			08/10/20 10:53	1
1,3-Dichloropropene, Total	<0.00070		0.0020	0.00070	mg/Kg			08/10/20 10:53	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg			08/10/20 10:53	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg			08/10/20 10:53	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg			08/10/20 10:53	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg			08/10/20 10:53	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg			08/10/20 10:53	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg			08/10/20 10:53	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg			08/10/20 10:53	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg			08/10/20 10:53	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg			08/10/20 10:53	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg			08/10/20 10:53	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg			08/10/20 10:53	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg			08/10/20 10:53	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg			08/10/20 10:53	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg			08/10/20 10:53	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg			08/10/20 10:53	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg			08/10/20 10:53	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg			08/10/20 10:53	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	104		75 - 131		08/10/20 10:53	1
Dibromofluoromethane	86		75 - 126		08/10/20 10:53	1
1,2-Dichloroethane-d4 (Surr)	81		70 - 134		08/10/20 10:53	1
Toluene-d8 (Surr)	90		75 - 124		08/10/20 10:53	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185873-1

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

Lab Sample ID: LCS 500-556063/10

Matrix: Solid

Analysis Batch: 556063

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	0.0463		mg/Kg		93	40 - 150
Benzene	0.0500	0.0494		mg/Kg		99	70 - 125
Bromodichloromethane	0.0500	0.0452		mg/Kg		90	67 - 129
Bromoform	0.0500	0.0424		mg/Kg		85	68 - 136
Bromomethane	0.0500	0.0326	*	mg/Kg		65	70 - 130
2-Butanone (MEK)	0.0500	0.0470		mg/Kg		94	47 - 138
Carbon disulfide	0.0500	0.0511		mg/Kg		102	70 - 129
Carbon tetrachloride	0.0500	0.0491		mg/Kg		98	75 - 125
Chlorobenzene	0.0500	0.0492		mg/Kg		98	50 - 150
Chloroethane	0.0500	0.0366	*	mg/Kg		73	75 - 125
Chloroform	0.0500	0.0467		mg/Kg		93	57 - 135
Chloromethane	0.0500	0.0622		mg/Kg		124	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0483		mg/Kg		97	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0446		mg/Kg		89	70 - 125
Dibromochloromethane	0.0500	0.0454		mg/Kg		91	69 - 125
1,1-Dichloroethane	0.0500	0.0531		mg/Kg		106	70 - 125
1,2-Dichloroethane	0.0500	0.0456		mg/Kg		91	70 - 130
1,1-Dichloroethene	0.0500	0.0495		mg/Kg		99	70 - 120
1,2-Dichloropropane	0.0500	0.0523		mg/Kg		105	70 - 125
Ethylbenzene	0.0500	0.0500		mg/Kg		100	61 - 136
2-Hexanone	0.0500	0.0528		mg/Kg		106	48 - 146
Methylene Chloride	0.0500	0.0475		mg/Kg		95	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0479		mg/Kg		96	50 - 148
Methyl tert-butyl ether	0.0500	0.0430		mg/Kg		86	50 - 140
Styrene	0.0500	0.0488		mg/Kg		98	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0436		mg/Kg		87	70 - 122
Tetrachloroethene	0.0500	0.0481		mg/Kg		96	70 - 124
Toluene	0.0500	0.0493		mg/Kg		99	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0493		mg/Kg		99	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0445		mg/Kg		89	70 - 125
1,1,1-Trichloroethane	0.0500	0.0471		mg/Kg		94	70 - 128
1,1,2-Trichloroethane	0.0500	0.0451		mg/Kg		90	70 - 125
Trichloroethene	0.0500	0.0491		mg/Kg		98	70 - 125
Vinyl acetate	0.0500	0.0482		mg/Kg		96	40 - 153
Vinyl chloride	0.0500	0.0516		mg/Kg		103	70 - 125
Xylenes, Total	0.100	0.0962		mg/Kg		96	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	98		75 - 131
Dibromofluoromethane	85		75 - 126
1,2-Dichloroethane-d4 (Surr)	79		70 - 134
Toluene-d8 (Surr)	92		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185873-1

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

Lab Sample ID: LCSD 500-556063/11
Matrix: Solid
Analysis Batch: 556063

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	0.0444		mg/Kg		89	40 - 150	4	30
Benzene	0.0500	0.0489		mg/Kg		98	70 - 125	1	30
Bromodichloromethane	0.0500	0.0454		mg/Kg		91	67 - 129	0	30
Bromoform	0.0500	0.0406		mg/Kg		81	68 - 136	4	30
Bromomethane	0.0500	0.0314	*	mg/Kg		63	70 - 130	4	30
2-Butanone (MEK)	0.0500	0.0478		mg/Kg		96	47 - 138	2	30
Carbon disulfide	0.0500	0.0512		mg/Kg		102	70 - 129	0	30
Carbon tetrachloride	0.0500	0.0485		mg/Kg		97	75 - 125	1	30
Chlorobenzene	0.0500	0.0479		mg/Kg		96	50 - 150	3	30
Chloroethane	0.0500	0.0350	*	mg/Kg		70	75 - 125	4	30
Chloroform	0.0500	0.0466		mg/Kg		93	57 - 135	0	30
Chloromethane	0.0500	0.0610		mg/Kg		122	70 - 125	2	30
cis-1,2-Dichloroethene	0.0500	0.0495		mg/Kg		99	70 - 125	3	30
cis-1,3-Dichloropropene	0.0500	0.0429		mg/Kg		86	70 - 125	4	30
Dibromochloromethane	0.0500	0.0447		mg/Kg		89	69 - 125	1	30
1,1-Dichloroethane	0.0500	0.0541		mg/Kg		108	70 - 125	2	30
1,2-Dichloroethane	0.0500	0.0443		mg/Kg		89	70 - 130	3	30
1,1-Dichloroethene	0.0500	0.0500		mg/Kg		100	70 - 120	1	30
1,2-Dichloropropane	0.0500	0.0521		mg/Kg		104	70 - 125	0	30
Ethylbenzene	0.0500	0.0492		mg/Kg		98	61 - 136	2	30
2-Hexanone	0.0500	0.0461		mg/Kg		92	48 - 146	13	30
Methylene Chloride	0.0500	0.0474		mg/Kg		95	70 - 126	0	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0453		mg/Kg		91	50 - 148	6	30
Methyl tert-butyl ether	0.0500	0.0424		mg/Kg		85	50 - 140	1	30
Styrene	0.0500	0.0472		mg/Kg		94	70 - 125	3	30
1,1,2,2-Tetrachloroethane	0.0500	0.0435		mg/Kg		87	70 - 122	0	30
Tetrachloroethene	0.0500	0.0464		mg/Kg		93	70 - 124	4	30
Toluene	0.0500	0.0473		mg/Kg		95	70 - 125	4	30
trans-1,2-Dichloroethene	0.0500	0.0501		mg/Kg		100	70 - 125	2	30
trans-1,3-Dichloropropene	0.0500	0.0422		mg/Kg		84	70 - 125	5	30
1,1,1-Trichloroethane	0.0500	0.0480		mg/Kg		96	70 - 128	2	30
1,1,2-Trichloroethane	0.0500	0.0439		mg/Kg		88	70 - 125	3	30
Trichloroethene	0.0500	0.0480		mg/Kg		96	70 - 125	2	30
Vinyl acetate	0.0500	0.0484		mg/Kg		97	40 - 153	1	30
Vinyl chloride	0.0500	0.0509		mg/Kg		102	70 - 125	1	30
Xylenes, Total	0.100	0.0947		mg/Kg		95	53 - 147	2	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	102		75 - 131
Dibromofluoromethane	87		75 - 126
1,2-Dichloroethane-d4 (Surr)	79		70 - 134
Toluene-d8 (Surr)	91		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185873-1

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

Lab Sample ID: MB 500-556207/6
Matrix: Solid
Analysis Batch: 556207

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.0087		0.020	0.0087	mg/Kg			08/11/20 10:59	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg			08/11/20 10:59	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg			08/11/20 10:59	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg			08/11/20 10:59	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg			08/11/20 10:59	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			08/11/20 10:59	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg			08/11/20 10:59	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg			08/11/20 10:59	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg			08/11/20 10:59	1
Chloroethane	<0.0015		0.0050	0.0015	mg/Kg			08/11/20 10:59	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg			08/11/20 10:59	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg			08/11/20 10:59	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg			08/11/20 10:59	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg			08/11/20 10:59	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg			08/11/20 10:59	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg			08/11/20 10:59	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg			08/11/20 10:59	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg			08/11/20 10:59	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			08/11/20 10:59	1
1,3-Dichloropropane, Total	<0.00070		0.0020	0.00070	mg/Kg			08/11/20 10:59	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg			08/11/20 10:59	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg			08/11/20 10:59	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg			08/11/20 10:59	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg			08/11/20 10:59	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg			08/11/20 10:59	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg			08/11/20 10:59	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg			08/11/20 10:59	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg			08/11/20 10:59	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg			08/11/20 10:59	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg			08/11/20 10:59	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg			08/11/20 10:59	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg			08/11/20 10:59	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg			08/11/20 10:59	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg			08/11/20 10:59	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg			08/11/20 10:59	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg			08/11/20 10:59	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg			08/11/20 10:59	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	103		75 - 131		08/11/20 10:59	1
Dibromofluoromethane	89		75 - 126		08/11/20 10:59	1
1,2-Dichloroethane-d4 (Surr)	86		70 - 134		08/11/20 10:59	1
Toluene-d8 (Surr)	89		75 - 124		08/11/20 10:59	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185873-1

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

Lab Sample ID: LCS 500-556207/7

Matrix: Solid

Analysis Batch: 556207

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	0.0487		mg/Kg		97	40 - 150
Benzene	0.0500	0.0542		mg/Kg		108	70 - 125
Bromodichloromethane	0.0500	0.0493		mg/Kg		99	67 - 129
Bromoform	0.0500	0.0455		mg/Kg		91	68 - 136
Bromomethane	0.0500	0.0324	*	mg/Kg		65	70 - 130
2-Butanone (MEK)	0.0500	0.0505		mg/Kg		101	47 - 138
Carbon disulfide	0.0500	0.0555		mg/Kg		111	70 - 129
Carbon tetrachloride	0.0500	0.0530		mg/Kg		106	75 - 125
Chlorobenzene	0.0500	0.0528		mg/Kg		106	50 - 150
Chloroethane	0.0500	0.0382		mg/Kg		76	75 - 125
Chloroform	0.0500	0.0505		mg/Kg		101	57 - 135
Chloromethane	0.0500	0.0676	*	mg/Kg		135	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0513		mg/Kg		103	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0501		mg/Kg		100	70 - 125
Dibromochloromethane	0.0500	0.0482		mg/Kg		96	69 - 125
1,1-Dichloroethane	0.0500	0.0593		mg/Kg		119	70 - 125
1,2-Dichloroethane	0.0500	0.0503		mg/Kg		101	70 - 130
1,1-Dichloroethene	0.0500	0.0532		mg/Kg		106	70 - 120
1,2-Dichloropropane	0.0500	0.0563		mg/Kg		113	70 - 125
Ethylbenzene	0.0500	0.0548		mg/Kg		110	61 - 136
2-Hexanone	0.0500	0.0552		mg/Kg		110	48 - 146
Methylene Chloride	0.0500	0.0501		mg/Kg		100	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0538		mg/Kg		108	50 - 148
Methyl tert-butyl ether	0.0500	0.0457		mg/Kg		91	50 - 140
Styrene	0.0500	0.0523		mg/Kg		105	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0469		mg/Kg		94	70 - 122
Tetrachloroethene	0.0500	0.0513		mg/Kg		103	70 - 124
Toluene	0.0500	0.0536		mg/Kg		107	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0534		mg/Kg		107	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0468		mg/Kg		94	70 - 125
1,1,1-Trichloroethane	0.0500	0.0522		mg/Kg		104	70 - 128
1,1,2-Trichloroethane	0.0500	0.0484		mg/Kg		97	70 - 125
Trichloroethene	0.0500	0.0535		mg/Kg		107	70 - 125
Vinyl acetate	0.0500	0.0608		mg/Kg		122	40 - 153
Vinyl chloride	0.0500	0.0537		mg/Kg		107	70 - 125
Xylenes, Total	0.100	0.106		mg/Kg		106	53 - 147

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		75 - 131
Dibromofluoromethane	87		75 - 126
1,2-Dichloroethane-d4 (Surr)	82		70 - 134
Toluene-d8 (Surr)	95		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185873-1

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

Lab Sample ID: LCSD 500-556207/8

Matrix: Solid

Analysis Batch: 556207

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	0.0452		mg/Kg		90	40 - 150	8	30
Benzene	0.0500	0.0524		mg/Kg		105	70 - 125	3	30
Bromodichloromethane	0.0500	0.0478		mg/Kg		96	67 - 129	3	30
Bromoform	0.0500	0.0440		mg/Kg		88	68 - 136	3	30
Bromomethane	0.0500	0.0326	*	mg/Kg		65	70 - 130	1	30
2-Butanone (MEK)	0.0500	0.0451		mg/Kg		90	47 - 138	11	30
Carbon disulfide	0.0500	0.0571		mg/Kg		114	70 - 129	3	30
Carbon tetrachloride	0.0500	0.0535		mg/Kg		107	75 - 125	1	30
Chlorobenzene	0.0500	0.0495		mg/Kg		99	50 - 150	6	30
Chloroethane	0.0500	0.0400		mg/Kg		80	75 - 125	5	30
Chloroform	0.0500	0.0498		mg/Kg		100	57 - 135	1	30
Chloromethane	0.0500	0.0696	*	mg/Kg		139	70 - 125	3	30
cis-1,2-Dichloroethene	0.0500	0.0512		mg/Kg		102	70 - 125	0	30
cis-1,3-Dichloropropene	0.0500	0.0457		mg/Kg		91	70 - 125	9	30
Dibromochloromethane	0.0500	0.0451		mg/Kg		90	69 - 125	7	30
1,1-Dichloroethane	0.0500	0.0594		mg/Kg		119	70 - 125	0	30
1,2-Dichloroethane	0.0500	0.0476		mg/Kg		95	70 - 130	5	30
1,1-Dichloroethene	0.0500	0.0537		mg/Kg		107	70 - 120	1	30
1,2-Dichloropropane	0.0500	0.0574		mg/Kg		115	70 - 125	2	30
Ethylbenzene	0.0500	0.0504		mg/Kg		101	61 - 136	8	30
2-Hexanone	0.0500	0.0519		mg/Kg		104	48 - 146	6	30
Methylene Chloride	0.0500	0.0500		mg/Kg		100	70 - 126	0	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0491		mg/Kg		98	50 - 148	9	30
Methyl tert-butyl ether	0.0500	0.0451		mg/Kg		90	50 - 140	1	30
Styrene	0.0500	0.0495		mg/Kg		99	70 - 125	5	30
1,1,2,2-Tetrachloroethane	0.0500	0.0449		mg/Kg		90	70 - 122	4	30
Tetrachloroethene	0.0500	0.0481		mg/Kg		96	70 - 124	6	30
Toluene	0.0500	0.0496		mg/Kg		99	70 - 125	8	30
trans-1,2-Dichloroethene	0.0500	0.0546		mg/Kg		109	70 - 125	2	30
trans-1,3-Dichloropropene	0.0500	0.0452		mg/Kg		90	70 - 125	4	30
1,1,1-Trichloroethane	0.0500	0.0526		mg/Kg		105	70 - 128	1	30
1,1,2-Trichloroethane	0.0500	0.0440		mg/Kg		88	70 - 125	10	30
Trichloroethene	0.0500	0.0519		mg/Kg		104	70 - 125	3	30
Vinyl acetate	0.0500	0.0541		mg/Kg		108	40 - 153	12	30
Vinyl chloride	0.0500	0.0555		mg/Kg		111	70 - 125	3	30
Xylenes, Total	0.100	0.0992		mg/Kg		99	53 - 147	6	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	102		75 - 131
Dibromofluoromethane	87		75 - 126
1,2-Dichloroethane-d4 (Surr)	82		70 - 134
Toluene-d8 (Surr)	91		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185873-1

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

Lab Sample ID: MB 500-556721/1-A

Matrix: Solid

Analysis Batch: 556853

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 556721

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	<0.0060		0.033	0.0060	mg/Kg		08/13/20 16:38	08/14/20 10:47	1
Acenaphthylene	<0.0044		0.033	0.0044	mg/Kg		08/13/20 16:38	08/14/20 10:47	1
Anthracene	<0.0056		0.033	0.0056	mg/Kg		08/13/20 16:38	08/14/20 10:47	1
Benzo[a]anthracene	<0.0045		0.033	0.0045	mg/Kg		08/13/20 16:38	08/14/20 10:47	1
Benzo[a]pyrene	<0.0064		0.033	0.0064	mg/Kg		08/13/20 16:38	08/14/20 10:47	1
Benzo[b]fluoranthene	<0.0072		0.033	0.0072	mg/Kg		08/13/20 16:38	08/14/20 10:47	1
Benzo[g,h,i]perylene	<0.011		0.033	0.011	mg/Kg		08/13/20 16:38	08/14/20 10:47	1
Benzo[k]fluoranthene	<0.0098		0.033	0.0098	mg/Kg		08/13/20 16:38	08/14/20 10:47	1
Bis(2-chloroethoxy)methane	<0.034		0.17	0.034	mg/Kg		08/13/20 16:38	08/14/20 10:47	1
Bis(2-chloroethyl)ether	<0.050		0.17	0.050	mg/Kg		08/13/20 16:38	08/14/20 10:47	1
Bis(2-ethylhexyl) phthalate	<0.061		0.17	0.061	mg/Kg		08/13/20 16:38	08/14/20 10:47	1
4-Bromophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		08/13/20 16:38	08/14/20 10:47	1
Butyl benzyl phthalate	<0.063		0.17	0.063	mg/Kg		08/13/20 16:38	08/14/20 10:47	1
Carbazole	<0.083		0.17	0.083	mg/Kg		08/13/20 16:38	08/14/20 10:47	1
4-Chloroaniline	<0.16		0.67	0.16	mg/Kg		08/13/20 16:38	08/14/20 10:47	1
4-Chloro-3-methylphenol	<0.11		0.33	0.11	mg/Kg		08/13/20 16:38	08/14/20 10:47	1
2-Chloronaphthalene	<0.037		0.17	0.037	mg/Kg		08/13/20 16:38	08/14/20 10:47	1
2-Chlorophenol	<0.057		0.17	0.057	mg/Kg		08/13/20 16:38	08/14/20 10:47	1
4-Chlorophenyl phenyl ether	<0.039		0.17	0.039	mg/Kg		08/13/20 16:38	08/14/20 10:47	1
Chrysene	<0.0091		0.033	0.0091	mg/Kg		08/13/20 16:38	08/14/20 10:47	1
Dibenz(a,h)anthracene	<0.0064		0.033	0.0064	mg/Kg		08/13/20 16:38	08/14/20 10:47	1
Dibenzofuran	<0.039		0.17	0.039	mg/Kg		08/13/20 16:38	08/14/20 10:47	1
1,2-Dichlorobenzene	<0.040		0.17	0.040	mg/Kg		08/13/20 16:38	08/14/20 10:47	1
1,3-Dichlorobenzene	<0.037		0.17	0.037	mg/Kg		08/13/20 16:38	08/14/20 10:47	1
1,4-Dichlorobenzene	<0.043		0.17	0.043	mg/Kg		08/13/20 16:38	08/14/20 10:47	1
3,3'-Dichlorobenzidine	<0.047		0.17	0.047	mg/Kg		08/13/20 16:38	08/14/20 10:47	1
2,4-Dichlorophenol	<0.079		0.33	0.079	mg/Kg		08/13/20 16:38	08/14/20 10:47	1
Diethyl phthalate	<0.056		0.17	0.056	mg/Kg		08/13/20 16:38	08/14/20 10:47	1
2,4-Dimethylphenol	<0.13		0.33	0.13	mg/Kg		08/13/20 16:38	08/14/20 10:47	1
Dimethyl phthalate	<0.043		0.17	0.043	mg/Kg		08/13/20 16:38	08/14/20 10:47	1
Di-n-butyl phthalate	<0.051		0.17	0.051	mg/Kg		08/13/20 16:38	08/14/20 10:47	1
4,6-Dinitro-2-methylphenol	<0.27		0.67	0.27	mg/Kg		08/13/20 16:38	08/14/20 10:47	1
2,4-Dinitrophenol	<0.59		0.67	0.59	mg/Kg		08/13/20 16:38	08/14/20 10:47	1
2,4-Dinitrotoluene	<0.053		0.17	0.053	mg/Kg		08/13/20 16:38	08/14/20 10:47	1
2,6-Dinitrotoluene	<0.065		0.17	0.065	mg/Kg		08/13/20 16:38	08/14/20 10:47	1
Di-n-octyl phthalate	<0.054		0.17	0.054	mg/Kg		08/13/20 16:38	08/14/20 10:47	1
Fluoranthene	<0.0062		0.033	0.0062	mg/Kg		08/13/20 16:38	08/14/20 10:47	1
Fluorene	<0.0047		0.033	0.0047	mg/Kg		08/13/20 16:38	08/14/20 10:47	1
Hexachlorobenzene	<0.0077		0.067	0.0077	mg/Kg		08/13/20 16:38	08/14/20 10:47	1
Hexachlorobutadiene	<0.052		0.17	0.052	mg/Kg		08/13/20 16:38	08/14/20 10:47	1
Hexachlorocyclopentadiene	<0.19		0.67	0.19	mg/Kg		08/13/20 16:38	08/14/20 10:47	1
Hexachloroethane	<0.051		0.17	0.051	mg/Kg		08/13/20 16:38	08/14/20 10:47	1
Indeno[1,2,3-cd]pyrene	<0.0086		0.033	0.0086	mg/Kg		08/13/20 16:38	08/14/20 10:47	1
Isophorone	<0.037		0.17	0.037	mg/Kg		08/13/20 16:38	08/14/20 10:47	1
2-Methylnaphthalene	<0.0061		0.067	0.0061	mg/Kg		08/13/20 16:38	08/14/20 10:47	1
2-Methylphenol	<0.053		0.17	0.053	mg/Kg		08/13/20 16:38	08/14/20 10:47	1
3 & 4 Methylphenol	<0.055		0.17	0.055	mg/Kg		08/13/20 16:38	08/14/20 10:47	1
Naphthalene	<0.0051		0.033	0.0051	mg/Kg		08/13/20 16:38	08/14/20 10:47	1

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185873-1

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

Lab Sample ID: MB 500-556721/1-A
Matrix: Solid
Analysis Batch: 556853

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 556721

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	<0.045		0.17	0.045	mg/Kg		08/13/20 16:38	08/14/20 10:47	1
3-Nitroaniline	<0.10		0.33	0.10	mg/Kg		08/13/20 16:38	08/14/20 10:47	1
4-Nitroaniline	<0.14		0.33	0.14	mg/Kg		08/13/20 16:38	08/14/20 10:47	1
Nitrobenzene	<0.0083		0.033	0.0083	mg/Kg		08/13/20 16:38	08/14/20 10:47	1
2-Nitrophenol	<0.079		0.33	0.079	mg/Kg		08/13/20 16:38	08/14/20 10:47	1
4-Nitrophenol	<0.32		0.67	0.32	mg/Kg		08/13/20 16:38	08/14/20 10:47	1
N-Nitrosodi-n-propylamine	<0.041		0.067	0.041	mg/Kg		08/13/20 16:38	08/14/20 10:47	1
N-Nitrosodiphenylamine	<0.039		0.17	0.039	mg/Kg		08/13/20 16:38	08/14/20 10:47	1
2,2'-oxybis[1-chloropropane]	<0.039		0.17	0.039	mg/Kg		08/13/20 16:38	08/14/20 10:47	1
Pentachlorophenol	<0.53		0.67	0.53	mg/Kg		08/13/20 16:38	08/14/20 10:47	1
Phenanthrene	<0.0046		0.033	0.0046	mg/Kg		08/13/20 16:38	08/14/20 10:47	1
Phenol	<0.074		0.17	0.074	mg/Kg		08/13/20 16:38	08/14/20 10:47	1
Pyrene	<0.0066		0.033	0.0066	mg/Kg		08/13/20 16:38	08/14/20 10:47	1
1,2,4-Trichlorobenzene	<0.036		0.17	0.036	mg/Kg		08/13/20 16:38	08/14/20 10:47	1
2,4,5-Trichlorophenol	<0.076		0.33	0.076	mg/Kg		08/13/20 16:38	08/14/20 10:47	1
2,4,6-Trichlorophenol	<0.11		0.33	0.11	mg/Kg		08/13/20 16:38	08/14/20 10:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	102		43 - 145	08/13/20 16:38	08/14/20 10:47	1
2-Fluorophenol	81		31 - 166	08/13/20 16:38	08/14/20 10:47	1
Nitrobenzene-d5	78		37 - 147	08/13/20 16:38	08/14/20 10:47	1
Phenol-d5	70		30 - 153	08/13/20 16:38	08/14/20 10:47	1
Terphenyl-d14	109		42 - 157	08/13/20 16:38	08/14/20 10:47	1
2,4,6-Tribromophenol	132		31 - 143	08/13/20 16:38	08/14/20 10:47	1

Lab Sample ID: LCS 500-556721/2-A
Matrix: Solid
Analysis Batch: 556853

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556721

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1.33	1.32		mg/Kg		99	65 - 124
Acenaphthylene	1.33	1.29		mg/Kg		97	68 - 120
Anthracene	1.33	1.26		mg/Kg		95	70 - 114
Benzo[a]anthracene	1.33	1.24		mg/Kg		93	67 - 122
Benzo[a]pyrene	1.33	1.22		mg/Kg		92	65 - 133
Benzo[b]fluoranthene	1.33	1.27		mg/Kg		95	69 - 129
Benzo[g,h,i]perylene	1.33	1.32		mg/Kg		99	72 - 131
Benzo[k]fluoranthene	1.33	1.13		mg/Kg		85	68 - 127
Bis(2-chloroethoxy)methane	1.33	0.918		mg/Kg		69	60 - 112
Bis(2-chloroethyl)ether	1.33	0.896		mg/Kg		67	55 - 111
Bis(2-ethylhexyl) phthalate	1.33	1.44		mg/Kg		108	72 - 131
4-Bromophenyl phenyl ether	1.33	1.29		mg/Kg		97	68 - 118
Butyl benzyl phthalate	1.33	1.27		mg/Kg		95	71 - 129
Carbazole	1.33	1.18		mg/Kg		88	65 - 142
4-Chloroaniline	1.33	0.772		mg/Kg		58	30 - 150
4-Chloro-3-methylphenol	1.33	1.02		mg/Kg		76	65 - 122
2-Chloronaphthalene	1.33	1.23		mg/Kg		93	69 - 114
2-Chlorophenol	1.33	1.17		mg/Kg		88	64 - 110

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185873-1

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

Lab Sample ID: LCS 500-556721/2-A
Matrix: Solid
Analysis Batch: 556853

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556721

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorophenyl phenyl ether	1.33	1.27		mg/Kg		95	62 - 119
Chrysene	1.33	1.29		mg/Kg		97	63 - 120
Dibenz(a,h)anthracene	1.33	1.45		mg/Kg		109	64 - 131
Dibenzofuran	1.33	1.20		mg/Kg		90	66 - 115
1,2-Dichlorobenzene	1.33	1.18		mg/Kg		89	62 - 110
1,3-Dichlorobenzene	1.33	1.15		mg/Kg		86	65 - 124
1,4-Dichlorobenzene	1.33	1.18		mg/Kg		89	61 - 110
3,3'-Dichlorobenzidine	1.33	0.944		mg/Kg		71	35 - 128
2,4-Dichlorophenol	1.33	1.24		mg/Kg		93	58 - 120
Diethyl phthalate	1.33	1.27		mg/Kg		95	58 - 120
2,4-Dimethylphenol	1.33	1.18		mg/Kg		88	60 - 110
Dimethyl phthalate	1.33	1.32		mg/Kg		99	69 - 116
Di-n-butyl phthalate	1.33	1.34		mg/Kg		101	65 - 120
4,6-Dinitro-2-methylphenol	2.67	1.40		mg/Kg		52	10 - 110
2,4-Dinitrophenol	2.67	0.773		mg/Kg		29	10 - 100
2,4-Dinitrotoluene	1.33	1.08		mg/Kg		81	69 - 124
2,6-Dinitrotoluene	1.33	1.29		mg/Kg		97	70 - 123
Di-n-octyl phthalate	1.33	1.33		mg/Kg		99	68 - 134
Fluoranthene	1.33	1.30		mg/Kg		97	62 - 120
Fluorene	1.33	1.33		mg/Kg		100	62 - 120
Hexachlorobenzene	1.33	1.45		mg/Kg		109	63 - 124
Hexachlorobutadiene	1.33	1.50		mg/Kg		113	56 - 120
Hexachlorocyclopentadiene	1.33	0.510	J	mg/Kg		38	10 - 133
Hexachloroethane	1.33	1.07		mg/Kg		80	60 - 114
Indeno[1,2,3-cd]pyrene	1.33	1.46		mg/Kg		110	68 - 130
Isophorone	1.33	0.942		mg/Kg		71	55 - 110
2-Methylnaphthalene	1.33	1.49		mg/Kg		111	69 - 112
2-Methylphenol	1.33	1.08		mg/Kg		81	60 - 120
3 & 4 Methylphenol	1.33	1.04		mg/Kg		78	57 - 120
Naphthalene	1.33	1.24		mg/Kg		93	63 - 110
2-Nitroaniline	1.33	0.916		mg/Kg		69	57 - 124
3-Nitroaniline	1.33	0.803		mg/Kg		60	40 - 122
4-Nitroaniline	1.33	0.910		mg/Kg		68	60 - 160
Nitrobenzene	1.33	0.961		mg/Kg		72	60 - 116
2-Nitrophenol	1.33	1.10		mg/Kg		83	60 - 120
4-Nitrophenol	2.67	0.827		mg/Kg		31	30 - 122
N-Nitrosodi-n-propylamine	1.33	0.961		mg/Kg		72	56 - 118
N-Nitrosodiphenylamine	1.33	1.33		mg/Kg		100	65 - 112
2,2'-oxybis[1-chloropropane]	1.33	0.697		mg/Kg		52	40 - 124
Pentachlorophenol	2.67	1.95		mg/Kg		73	13 - 112
Phenanthrene	1.33	1.25		mg/Kg		94	62 - 120
Phenol	1.33	0.877		mg/Kg		66	56 - 122
Pyrene	1.33	1.26		mg/Kg		94	61 - 128
1,2,4-Trichlorobenzene	1.33	1.34		mg/Kg		100	66 - 117
2,4,5-Trichlorophenol	1.33	1.05		mg/Kg		79	50 - 120
2,4,6-Trichlorophenol	1.33	1.26		mg/Kg		95	57 - 120

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185873-1

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

Lab Sample ID: LCS 500-556721/2-A
Matrix: Solid
Analysis Batch: 556853

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556721

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	93		43 - 145
2-Fluorophenol	81		31 - 166
Nitrobenzene-d5	73		37 - 147
Phenol-d5	71		30 - 153
Terphenyl-d14	94		42 - 157
2,4,6-Tribromophenol	123		31 - 143

Lab Sample ID: 500-185873-2 MS
Matrix: Solid
Analysis Batch: 556853

Client Sample ID: 2412V2-15-B01 (5-7.5)
Prep Type: Total/NA
Prep Batch: 556721

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	Limits
				Result	Qualifier				
Acenaphthene	<0.0069		1.53	1.18		mg/Kg	☼	77	65 - 124
Acenaphthylene	<0.0051		1.53	1.18		mg/Kg	☼	77	68 - 120
Anthracene	<0.0064		1.53	1.22		mg/Kg	☼	80	70 - 114
Benzo[a]anthracene	<0.0052		1.53	1.16		mg/Kg	☼	76	67 - 122
Benzo[a]pyrene	<0.0075		1.53	1.14		mg/Kg	☼	75	65 - 133
Benzo[b]fluoranthene	<0.0083		1.53	1.13		mg/Kg	☼	74	69 - 129
Benzo[g,h,i]perylene	<0.012		1.53	1.17		mg/Kg	☼	76	72 - 131
Benzo[k]fluoranthene	<0.011		1.53	1.21		mg/Kg	☼	79	68 - 127
Bis(2-chloroethoxy)methane	<0.039	F1	1.53	0.861	F1	mg/Kg	☼	56	60 - 112
Bis(2-chloroethyl)ether	<0.058	F1	1.53	0.831	F1	mg/Kg	☼	54	55 - 111
Bis(2-ethylhexyl) phthalate	<0.070		1.53	1.32		mg/Kg	☼	86	72 - 131
4-Bromophenyl phenyl ether	<0.051		1.53	1.21		mg/Kg	☼	79	68 - 118
Butyl benzyl phthalate	<0.073		1.53	1.15		mg/Kg	☼	75	71 - 129
Carbazole	<0.096		1.53	1.14		mg/Kg	☼	75	65 - 142
4-Chloroaniline	<0.18		1.53	0.644	J	mg/Kg	☼	42	30 - 150
4-Chloro-3-methylphenol	<0.13	F1	1.53	0.991		mg/Kg	☼	65	65 - 122
2-Chloronaphthalene	<0.043		1.53	1.16		mg/Kg	☼	76	69 - 114
2-Chlorophenol	<0.066	F1	1.53	1.07		mg/Kg	☼	70	64 - 110
4-Chlorophenyl phenyl ether	<0.045		1.53	1.18		mg/Kg	☼	77	62 - 119
Chrysene	<0.011		1.53	1.23		mg/Kg	☼	80	63 - 120
Dibenz(a,h)anthracene	<0.0075		1.53	1.22		mg/Kg	☼	79	64 - 131
Dibenzofuran	<0.045		1.53	1.14		mg/Kg	☼	74	66 - 115
1,2-Dichlorobenzene	<0.046	F1	1.53	0.899	F1	mg/Kg	☼	59	62 - 110
1,3-Dichlorobenzene	<0.043	F1	1.53	0.834	F1	mg/Kg	☼	54	60 - 110
1,4-Dichlorobenzene	<0.049	F1	1.53	0.869	F1	mg/Kg	☼	57	61 - 110
3,3'-Dichlorobenzidine	<0.054		1.53	0.762		mg/Kg	☼	50	35 - 128
2,4-Dichlorophenol	<0.092		1.53	1.17		mg/Kg	☼	76	58 - 120
Diethyl phthalate	<0.065		1.53	1.24		mg/Kg	☼	81	58 - 120
2,4-Dimethylphenol	<0.15		1.53	1.07		mg/Kg	☼	70	60 - 110
Dimethyl phthalate	<0.050		1.53	1.29		mg/Kg	☼	84	69 - 116
Di-n-butyl phthalate	<0.059		1.53	1.25		mg/Kg	☼	82	65 - 120
4,6-Dinitro-2-methylphenol	<0.31		3.07	1.72		mg/Kg	☼	56	10 - 110
2,4-Dinitrophenol	<0.68	F2	3.07	1.18		mg/Kg	☼	38	10 - 100
2,4-Dinitrotoluene	<0.061		1.53	1.08		mg/Kg	☼	71	69 - 124
2,6-Dinitrotoluene	<0.076		1.53	1.22		mg/Kg	☼	80	70 - 123
Di-n-octyl phthalate	<0.063		1.53	1.24		mg/Kg	☼	81	68 - 134

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185873-1

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

Lab Sample ID: 500-185873-2 MS

Matrix: Solid

Analysis Batch: 556853

Client Sample ID: 2412V2-15-B01 (5-7.5)

Prep Type: Total/NA

Prep Batch: 556721

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoranthene	<0.0072		1.53	1.21		mg/Kg	✱	79	62 - 120
Fluorene	<0.0054		1.53	1.24		mg/Kg	✱	81	62 - 120
Hexachlorobenzene	<0.0089		1.53	1.36		mg/Kg	✱	89	63 - 124
Hexachlorobutadiene	<0.061		1.53	1.14		mg/Kg	✱	74	56 - 120
Hexachlorocyclopentadiene	<0.22		1.53	0.286	J	mg/Kg	✱	19	10 - 133
Hexachloroethane	<0.059	F1	1.53	0.800	F1	mg/Kg	✱	52	60 - 114
Indeno[1,2,3-cd]pyrene	<0.010		1.53	1.23		mg/Kg	✱	80	68 - 130
Isophorone	<0.043		1.53	0.943		mg/Kg	✱	62	55 - 110
2-Methylnaphthalene	<0.0071		1.53	1.53		mg/Kg	✱	100	69 - 112
2-Methylphenol	<0.062	F1	1.53	0.911	F1	mg/Kg	✱	59	60 - 120
3 & 4 Methylphenol	<0.064		1.53	1.01		mg/Kg	✱	66	57 - 120
Naphthalene	<0.0059	F1	1.53	1.03		mg/Kg	✱	67	63 - 110
2-Nitroaniline	<0.052		1.53	0.936		mg/Kg	✱	61	57 - 124
3-Nitroaniline	<0.12		1.53	0.750		mg/Kg	✱	49	40 - 122
4-Nitroaniline	<0.16	F1	1.53	0.829	F1	mg/Kg	✱	54	60 - 160
Nitrobenzene	<0.0096	F1	1.53	0.925		mg/Kg	✱	60	60 - 116
2-Nitrophenol	<0.091		1.53	1.00		mg/Kg	✱	65	60 - 120
4-Nitrophenol	<0.37		3.07	2.07		mg/Kg	✱	68	30 - 122
N-Nitrosodi-n-propylamine	<0.047		1.53	0.946		mg/Kg	✱	62	56 - 118
N-Nitrosodiphenylamine	<0.046		1.53	1.20		mg/Kg	✱	79	65 - 112
2,2'-oxybis[1-chloropropane]	<0.045	F1	1.53	0.574	F1	mg/Kg	✱	37	40 - 124
Pentachlorophenol	<0.62		3.07	1.57		mg/Kg	✱	51	13 - 112
Phenanthrene	<0.0054		1.53	1.20		mg/Kg	✱	79	62 - 120
Phenol	<0.086	F1	1.53	0.811	F1	mg/Kg	✱	53	56 - 122
Pyrene	<0.0077		1.53	1.18		mg/Kg	✱	77	61 - 128
1,2,4-Trichlorobenzene	<0.042	F1	1.53	1.09		mg/Kg	✱	71	66 - 117
2,4,5-Trichlorophenol	<0.088		1.53	1.12		mg/Kg	✱	73	50 - 120
2,4,6-Trichlorophenol	<0.13		1.53	1.21		mg/Kg	✱	79	57 - 120

Surrogate	MS %Recovery	MS Qualifier	MS Limits
2-Fluorobiphenyl	78		43 - 145
2-Fluorophenol	67		31 - 166
Nitrobenzene-d5	60		37 - 147
Phenol-d5	56		30 - 153
Terphenyl-d14	79		42 - 157
2,4,6-Tribromophenol	102		31 - 143

Lab Sample ID: 500-185873-2 MSD

Matrix: Solid

Analysis Batch: 556853

Client Sample ID: 2412V2-15-B01 (5-7.5)

Prep Type: Total/NA

Prep Batch: 556721

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	<0.0069		1.54	1.15		mg/Kg	✱	75	65 - 124	2	30
Acenaphthylene	<0.0051		1.54	1.16		mg/Kg	✱	75	68 - 120	2	30
Anthracene	<0.0064		1.54	1.22		mg/Kg	✱	79	70 - 114	0	30
Benzo[a]anthracene	<0.0052		1.54	1.19		mg/Kg	✱	77	67 - 122	2	30
Benzo[a]pyrene	<0.0075		1.54	1.17		mg/Kg	✱	76	65 - 133	2	30
Benzo[b]fluoranthene	<0.0083		1.54	1.13		mg/Kg	✱	73	69 - 129	0	30

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185873-1

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

Lab Sample ID: 500-185873-2 MSD

Client Sample ID: 2412V2-15-B01 (5-7.5)

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 556853

Prep Batch: 556721

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier						
Benzo[g,h,i]perylene	<0.012		1.54	1.18		mg/Kg	*	77	72 - 131	1	30
Benzo[k]fluoranthene	<0.011		1.54	1.14		mg/Kg	*	74	68 - 127	6	30
Bis(2-chloroethoxy)methane	<0.039	F1	1.54	0.834	F1	mg/Kg	*	54	60 - 112	3	30
Bis(2-chloroethyl)ether	<0.058	F1	1.54	0.745	F1	mg/Kg	*	48	55 - 111	11	30
Bis(2-ethylhexyl) phthalate	<0.070		1.54	1.37		mg/Kg	*	89	72 - 131	4	30
4-Bromophenyl phenyl ether	<0.051		1.54	1.19		mg/Kg	*	77	68 - 118	2	30
Butyl benzyl phthalate	<0.073		1.54	1.16		mg/Kg	*	75	71 - 129	1	30
Carbazole	<0.096		1.54	1.15		mg/Kg	*	75	65 - 142	1	30
4-Chloroaniline	<0.18		1.54	0.672	J	mg/Kg	*	44	30 - 150	4	30
4-Chloro-3-methylphenol	<0.13	F1	1.54	0.943	F1	mg/Kg	*	61	65 - 122	5	30
2-Chloronaphthalene	<0.043		1.54	1.12		mg/Kg	*	73	69 - 114	4	30
2-Chlorophenol	<0.066	F1	1.54	0.964	F1	mg/Kg	*	63	64 - 110	10	30
4-Chlorophenyl phenyl ether	<0.045		1.54	1.20		mg/Kg	*	78	62 - 119	2	30
Chrysene	<0.011		1.54	1.27		mg/Kg	*	82	63 - 120	3	30
Dibenz(a,h)anthracene	<0.0075		1.54	1.24		mg/Kg	*	80	64 - 131	2	30
Dibenzofuran	<0.045		1.54	1.13		mg/Kg	*	73	66 - 115	1	30
1,2-Dichlorobenzene	<0.046	F1	1.54	0.758	F1	mg/Kg	*	49	62 - 110	17	30
1,3-Dichlorobenzene	<0.043	F1	1.54	0.732	F1	mg/Kg	*	47	60 - 110	13	30
1,4-Dichlorobenzene	<0.049	F1	1.54	0.739	F1	mg/Kg	*	48	61 - 110	16	30
3,3'-Dichlorobenzidine	<0.054		1.54	0.847		mg/Kg	*	55	35 - 128	11	30
2,4-Dichlorophenol	<0.092		1.54	1.09		mg/Kg	*	71	58 - 120	7	30
Diethyl phthalate	<0.065		1.54	1.24		mg/Kg	*	81	58 - 120	0	30
2,4-Dimethylphenol	<0.15		1.54	1.05		mg/Kg	*	68	60 - 110	2	30
Dimethyl phthalate	<0.050		1.54	1.30		mg/Kg	*	84	69 - 116	1	30
Di-n-butyl phthalate	<0.059		1.54	1.26		mg/Kg	*	82	65 - 120	1	30
4,6-Dinitro-2-methylphenol	<0.31		3.08	1.42		mg/Kg	*	46	10 - 110	20	30
2,4-Dinitrophenol	<0.68	F2	3.08	0.788	F2	mg/Kg	*	26	10 - 100	40	30
2,4-Dinitrotoluene	<0.061		1.54	1.12		mg/Kg	*	72	69 - 124	3	30
2,6-Dinitrotoluene	<0.076		1.54	1.24		mg/Kg	*	81	70 - 123	2	30
Di-n-octyl phthalate	<0.063		1.54	1.24		mg/Kg	*	81	68 - 134	0	30
Fluoranthene	<0.0072		1.54	1.21		mg/Kg	*	79	62 - 120	0	30
Fluorene	<0.0054		1.54	1.24		mg/Kg	*	81	62 - 120	1	30
Hexachlorobenzene	<0.0089		1.54	1.33		mg/Kg	*	86	63 - 124	2	30
Hexachlorobutadiene	<0.061		1.54	1.03		mg/Kg	*	67	56 - 120	10	30
Hexachlorocyclopentadiene	<0.22		1.54	0.256	J	mg/Kg	*	17	10 - 133	11	30
Hexachloroethane	<0.059	F1	1.54	0.690	F1	mg/Kg	*	45	60 - 114	15	30
Indeno[1,2,3-cd]pyrene	<0.010		1.54	1.25		mg/Kg	*	81	68 - 130	2	30
Isophorone	<0.043		1.54	0.889		mg/Kg	*	58	55 - 110	6	30
2-Methylnaphthalene	<0.0071		1.54	1.43		mg/Kg	*	93	69 - 112	7	30
2-Methylphenol	<0.062	F1	1.54	0.969		mg/Kg	*	63	60 - 120	6	30
3 & 4 Methylphenol	<0.064		1.54	0.934		mg/Kg	*	61	57 - 120	8	30
Naphthalene	<0.0059	F1	1.54	0.940	F1	mg/Kg	*	61	63 - 110	9	30
2-Nitroaniline	<0.052		1.54	0.981		mg/Kg	*	64	57 - 124	5	30
3-Nitroaniline	<0.12		1.54	0.808		mg/Kg	*	52	40 - 122	7	30
4-Nitroaniline	<0.16	F1	1.54	0.947		mg/Kg	*	61	60 - 160	13	30
Nitrobenzene	<0.0096	F1	1.54	0.869	F1	mg/Kg	*	56	60 - 116	6	30
2-Nitrophenol	<0.091		1.54	0.966		mg/Kg	*	63	60 - 120	4	30
4-Nitrophenol	<0.37		3.08	1.87		mg/Kg	*	61	30 - 122	10	30
N-Nitrosodi-n-propylamine	<0.047		1.54	0.898		mg/Kg	*	58	56 - 118	5	30

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185873-1

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

Lab Sample ID: 500-185873-2 MSD

Client Sample ID: 2412V2-15-B01 (5-7.5)

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 556853

Prep Batch: 556721

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier		Result	Qualifier						
N-Nitrosodiphenylamine	<0.046		1.54	1.19		mg/Kg	☼	77	65 - 112	1	30
2,2'-oxybis[1-chloropropane]	<0.045	F1	1.54	0.513	F1	mg/Kg	☼	33	40 - 124	11	30
Pentachlorophenol	<0.62		3.08	1.52		mg/Kg	☼	49	13 - 112	3	30
Phenanthrene	<0.0054		1.54	1.20		mg/Kg	☼	78	62 - 120	0	30
Phenol	<0.086	F1	1.54	0.788	F1	mg/Kg	☼	51	56 - 122	3	30
Pyrene	<0.0077		1.54	1.23		mg/Kg	☼	80	61 - 128	4	30
1,2,4-Trichlorobenzene	<0.042	F1	1.54	0.988	F1	mg/Kg	☼	64	66 - 117	10	30
2,4,5-Trichlorophenol	<0.088		1.54	1.12		mg/Kg	☼	72	50 - 120	0	30
2,4,6-Trichlorophenol	<0.13		1.54	1.13		mg/Kg	☼	73	57 - 120	7	30

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
2-Fluorobiphenyl	80		43 - 145
2-Fluorophenol	66		31 - 166
Nitrobenzene-d5	61		37 - 147
Phenol-d5	58		30 - 153
Terphenyl-d14	84		42 - 157
2,4,6-Tribromophenol	96		31 - 143

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-556177/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 556360

Prep Batch: 556177

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.39		2.0	0.39	mg/Kg		08/11/20 06:38	08/11/20 22:29	1
Arsenic	<0.34		1.0	0.34	mg/Kg		08/11/20 06:38	08/11/20 22:29	1
Barium	<0.11		1.0	0.11	mg/Kg		08/11/20 06:38	08/11/20 22:29	1
Beryllium	<0.093		0.40	0.093	mg/Kg		08/11/20 06:38	08/11/20 22:29	1
Cadmium	0.0717	J	0.20	0.036	mg/Kg		08/11/20 06:38	08/11/20 22:29	1
Chromium	<0.50		1.0	0.50	mg/Kg		08/11/20 06:38	08/11/20 22:29	1
Cobalt	<0.13		0.50	0.13	mg/Kg		08/11/20 06:38	08/11/20 22:29	1
Copper	<0.28		1.0	0.28	mg/Kg		08/11/20 06:38	08/11/20 22:29	1
Iron	<10		20	10	mg/Kg		08/11/20 06:38	08/11/20 22:29	1
Lead	<0.23		0.50	0.23	mg/Kg		08/11/20 06:38	08/11/20 22:29	1
Magnesium	<5.0		10	5.0	mg/Kg		08/11/20 06:38	08/11/20 22:29	1
Calcium	<3.4		20	3.4	mg/Kg		08/11/20 06:38	08/11/20 22:29	1
Manganese	<0.15		1.0	0.15	mg/Kg		08/11/20 06:38	08/11/20 22:29	1
Nickel	<0.29		1.0	0.29	mg/Kg		08/11/20 06:38	08/11/20 22:29	1
Selenium	<0.59		1.0	0.59	mg/Kg		08/11/20 06:38	08/11/20 22:29	1
Silver	<0.13		0.50	0.13	mg/Kg		08/11/20 06:38	08/11/20 22:29	1
Thallium	<0.50		1.0	0.50	mg/Kg		08/11/20 06:38	08/11/20 22:29	1
Vanadium	<0.12		0.50	0.12	mg/Kg		08/11/20 06:38	08/11/20 22:29	1
Zinc	<0.88		2.0	0.88	mg/Kg		08/11/20 06:38	08/11/20 22:29	1
Potassium	<18		50	18	mg/Kg		08/11/20 06:38	08/11/20 22:29	1
Sodium	<15		100	15	mg/Kg		08/11/20 06:38	08/11/20 22:29	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185873-1

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

Lab Sample ID: LCS 500-556177/2-A
Matrix: Solid
Analysis Batch: 556360

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556177
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	50.0	44.3		mg/Kg		89	80 - 120
Arsenic	10.0	9.50		mg/Kg		95	80 - 120
Barium	200	193		mg/Kg		96	80 - 120
Beryllium	5.00	4.81		mg/Kg		96	80 - 120
Cadmium	5.00	4.80		mg/Kg		96	80 - 120
Chromium	20.0	19.6		mg/Kg		98	80 - 120
Cobalt	50.0	49.7		mg/Kg		99	80 - 120
Copper	25.0	24.4		mg/Kg		98	80 - 120
Iron	100	109		mg/Kg		109	80 - 120
Lead	10.0	9.83		mg/Kg		98	80 - 120
Magnesium	1000	938		mg/Kg		94	80 - 120
Calcium	1000	964		mg/Kg		96	80 - 120
Manganese	50.0	47.5		mg/Kg		95	80 - 120
Nickel	50.0	49.3		mg/Kg		99	80 - 120
Selenium	10.0	8.74		mg/Kg		87	80 - 120
Silver	5.00	4.62		mg/Kg		92	80 - 120
Thallium	10.0	9.95		mg/Kg		100	80 - 120
Vanadium	50.0	49.7		mg/Kg		99	80 - 120
Zinc	50.0	47.7		mg/Kg		95	80 - 120
Potassium	1000	972		mg/Kg		97	80 - 120
Sodium	1000	984		mg/Kg		98	80 - 120

Lab Sample ID: 500-185873-1 MS
Matrix: Solid
Analysis Batch: 556360

Client Sample ID: 2412V2-15-B01 (0-5)
Prep Type: Total/NA
Prep Batch: 556177
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	<0.21	F1	26.9	4.42	F1	mg/Kg	⊛	16	75 - 125
Arsenic	5.6		5.38	11.2		mg/Kg	⊛	104	75 - 125
Barium	75		108	159		mg/Kg	⊛	79	75 - 125
Beryllium	0.66		2.69	2.69		mg/Kg	⊛	76	75 - 125
Cadmium	0.090	J B F1	2.69	2.04	F1	mg/Kg	⊛	72	75 - 125
Chromium	15		10.8	25.8		mg/Kg	⊛	97	75 - 125
Cobalt	8.0		26.9	35.7		mg/Kg	⊛	103	75 - 125
Copper	14		13.4	25.2		mg/Kg	⊛	87	75 - 125
Iron	15000		53.8	16800	4	mg/Kg	⊛	3260	75 - 125
Lead	20	F1	5.38	23.2	F1	mg/Kg	⊛	55	75 - 125
Magnesium	11000	F2	538	7890	4	mg/Kg	⊛	-554	75 - 125
Calcium	16000	F2	538	10100	4	mg/Kg	⊛	-1115	75 - 125
Manganese	340	F2	26.9	288	4	mg/Kg	⊛	-204	75 - 125
Nickel	20		26.9	49.5		mg/Kg	⊛	111	75 - 125
Selenium	<0.32	F1	5.38	3.67	F1	mg/Kg	⊛	68	75 - 125
Silver	<0.070	F1	2.69	1.77	F1	mg/Kg	⊛	66	75 - 125
Thallium	0.35	J	5.38	5.35		mg/Kg	⊛	93	75 - 125
Vanadium	26		26.9	50.9		mg/Kg	⊛	91	75 - 125
Zinc	61		26.9	89.7		mg/Kg	⊛	105	75 - 125
Potassium	1500	F1	538	2260	F1	mg/Kg	⊛	135	75 - 125
Sodium	110		538	527		mg/Kg	⊛	77	75 - 125

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185873-1

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

Lab Sample ID: 500-185873-1 MSD

Matrix: Solid

Analysis Batch: 556360

Client Sample ID: 2412V2-15-B01 (0-5)

Prep Type: Total/NA

Prep Batch: 556177

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier								
Antimony	<0.21	F1	27.1	4.88	F1	mg/Kg	☼	18	75 - 125	10	20		
Arsenic	5.6		5.43	10.4		mg/Kg	☼	89	75 - 125	7	20		
Barium	75		109	161		mg/Kg	☼	80	75 - 125	1	20		
Beryllium	0.66		2.71	2.79		mg/Kg	☼	78	75 - 125	3	20		
Cadmium	0.090	J B F1	2.71	2.17		mg/Kg	☼	77	75 - 125	6	20		
Chromium	15		10.9	25.7		mg/Kg	☼	95	75 - 125	0	20		
Cobalt	8.0		27.1	35.7		mg/Kg	☼	102	75 - 125	0	20		
Copper	14		13.6	24.7		mg/Kg	☼	82	75 - 125	2	20		
Iron	15000		54.3	15400	4	mg/Kg	☼	738	75 - 125	8	20		
Lead	20	F1	5.43	20.1	F1	mg/Kg	☼	-3	75 - 125	14	20		
Magnesium	11000	F2	543	11700	4 F2	mg/Kg	☼	154	75 - 125	39	20		
Calcium	16000	F2	543	18200	4 F2	mg/Kg	☼	394	75 - 125	57	20		
Manganese	340	F2	27.1	452	4 F2	mg/Kg	☼	403	75 - 125	44	20		
Nickel	20		27.1	45.6		mg/Kg	☼	96	75 - 125	8	20		
Selenium	<0.32	F1	5.43	3.88	F1	mg/Kg	☼	72	75 - 125	6	20		
Silver	<0.070	F1	2.71	1.94	F1	mg/Kg	☼	72	75 - 125	9	20		
Thallium	0.35	J	5.43	5.76		mg/Kg	☼	100	75 - 125	7	20		
Vanadium	26		27.1	53.6		mg/Kg	☼	100	75 - 125	5	20		
Zinc	61		27.1	82.0		mg/Kg	☼	76	75 - 125	9	20		
Potassium	1500	F1	543	2250	F1	mg/Kg	☼	131	75 - 125	1	20		
Sodium	110		543	581		mg/Kg	☼	86	75 - 125	10	20		

Lab Sample ID: 500-185873-1 DU

Matrix: Solid

Analysis Batch: 556360

Client Sample ID: 2412V2-15-B01 (0-5)

Prep Type: Total/NA

Prep Batch: 556177

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD	Limit
	Result	Qualifier	Result	Qualifier					
Antimony	<0.21	F1	0.405	J	mg/Kg	☼	NC	20	
Arsenic	5.6		6.49		mg/Kg	☼	15	20	
Barium	75		70.3		mg/Kg	☼	6	20	
Beryllium	0.66		0.668		mg/Kg	☼	0.9	20	
Cadmium	0.090	J B F1	0.0815	J	mg/Kg	☼	10	20	
Chromium	15		15.4		mg/Kg	☼	0.4	20	
Cobalt	8.0		8.72		mg/Kg	☼	8	20	
Copper	14		13.9		mg/Kg	☼	3	20	
Iron	15000		15800		mg/Kg	☼	5	20	
Lead	20	F1	15.1	F3	mg/Kg	☼	29	20	
Magnesium	11000	F2	16600	F3	mg/Kg	☼	42	20	
Calcium	16000	F2	24500	F3	mg/Kg	☼	41	20	
Manganese	340	F2	389		mg/Kg	☼	13	20	
Nickel	20		20.4		mg/Kg	☼	4	20	
Selenium	<0.32	F1	<0.33		mg/Kg	☼	NC	20	
Silver	<0.070	F1	<0.073		mg/Kg	☼	NC	20	
Thallium	0.35	J	0.344	J	mg/Kg	☼	0.3	20	
Vanadium	26		27.3		mg/Kg	☼	3	20	
Zinc	61		52.2		mg/Kg	☼	16	20	
Potassium	1500	F1	1520		mg/Kg	☼	1	20	
Sodium	110		118		mg/Kg	☼	3	20	

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185873-1

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

Lab Sample ID: LCS 500-556726/24-A
Matrix: Solid
Analysis Batch: 556778

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556726
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.100	0.0991		mg/L		99	80 - 120
Barium	0.500	0.510		mg/L		102	80 - 120
Beryllium	0.0500	0.0458		mg/L		92	80 - 120
Cadmium	0.0500	0.0486		mg/L		97	80 - 120
Chromium	0.200	0.192		mg/L		96	80 - 120
Cobalt	0.500	0.485		mg/L		97	80 - 120
Copper	0.250	0.250		mg/L		100	80 - 120
Iron	1.00	1.09		mg/L		109	80 - 120
Lead	0.100	0.0981		mg/L		98	80 - 120
Magnesium	10.0	9.24		mg/L		92	80 - 120
Calcium	10.0	9.75		mg/L		98	80 - 120
Manganese	0.500	0.474		mg/L		95	80 - 120
Nickel	0.500	0.483		mg/L		97	80 - 120
Selenium	0.100	0.0940		mg/L		94	80 - 120
Silver	0.0500	0.0466		mg/L		93	80 - 120
Vanadium	0.500	0.490		mg/L		98	80 - 120
Zinc	0.500	0.463	J	mg/L		93	80 - 120
Potassium	10.0	10.1		mg/L		101	80 - 120

Lab Sample ID: LCS 500-556726/2-A
Matrix: Solid
Analysis Batch: 556800

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556726
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.100	0.110		mg/L		110	80 - 120
Barium	0.500	0.491	J	mg/L		98	80 - 120
Beryllium	0.0500	0.0487		mg/L		97	80 - 120
Cadmium	0.0500	0.0505		mg/L		101	80 - 120
Chromium	0.200	0.200		mg/L		100	80 - 120
Cobalt	0.500	0.526		mg/L		105	80 - 120
Copper	0.250	0.259		mg/L		104	80 - 120
Iron	1.00	1.04		mg/L		104	80 - 120
Lead	0.100	0.0997		mg/L		100	80 - 120
Magnesium	10.0	9.28		mg/L		93	80 - 120
Calcium	10.0	9.83		mg/L		98	80 - 120
Manganese	0.500	0.479		mg/L		96	80 - 120
Nickel	0.500	0.519		mg/L		104	80 - 120
Selenium	0.100	0.110		mg/L		110	80 - 120
Silver	0.0500	0.0512		mg/L		102	80 - 120
Vanadium	0.500	0.506		mg/L		101	80 - 120
Zinc	0.500	0.574		mg/L		115	80 - 120
Potassium	10.0	10.2		mg/L		102	80 - 120

Lab Sample ID: LCS 500-556796/2-A
Matrix: Solid
Analysis Batch: 557084

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556796
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Manganese	0.500	0.495		mg/L		99	80 - 120

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185873-1

Method: 6010B - Metals (ICP)

Lab Sample ID: LB 500-556488/2-C
Matrix: Solid
Analysis Batch: 556800

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 556726

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.010		0.050	0.010	mg/L		08/13/20 17:12	08/14/20 01:28	1
Barium	<0.050		0.50	0.050	mg/L		08/13/20 17:12	08/14/20 01:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/13/20 17:12	08/14/20 01:28	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/13/20 17:12	08/14/20 01:28	1
Chromium	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:28	1
Cobalt	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:28	1
Copper	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:28	1
Iron	<0.20		0.40	0.20	mg/L		08/13/20 17:12	08/14/20 01:28	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/13/20 17:12	08/14/20 01:28	1
Magnesium	<0.50		2.5	0.50	mg/L		08/13/20 17:12	08/14/20 01:28	1
Calcium	<0.50		5.0	0.50	mg/L		08/13/20 17:12	08/14/20 01:28	1
Manganese	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:28	1
Nickel	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:28	1
Selenium	<0.020		0.050	0.020	mg/L		08/13/20 17:12	08/14/20 01:28	1
Silver	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:28	1
Vanadium	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:28	1
Zinc	<0.020		0.50	0.020	mg/L		08/13/20 17:12	08/14/20 01:28	1
Potassium	<0.50		2.5	0.50	mg/L		08/13/20 17:12	08/14/20 01:28	1

Lab Sample ID: LB2 500-556490/2-C
Matrix: Solid
Analysis Batch: 556778

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 556726

Analyte	LB2	LB2	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.010		0.050	0.010	mg/L		08/13/20 17:12	08/14/20 01:01	1
Barium	<0.050		0.50	0.050	mg/L		08/13/20 17:12	08/14/20 01:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/13/20 17:12	08/14/20 01:01	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/13/20 17:12	08/14/20 01:01	1
Chromium	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:01	1
Cobalt	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:01	1
Copper	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:01	1
Iron	0.279	J	0.40	0.20	mg/L		08/13/20 17:12	08/14/20 01:01	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/13/20 17:12	08/14/20 01:01	1
Magnesium	<0.50		2.5	0.50	mg/L		08/13/20 17:12	08/14/20 01:01	1
Calcium	<0.50		5.0	0.50	mg/L		08/13/20 17:12	08/14/20 01:01	1
Manganese	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:01	1
Nickel	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:01	1
Selenium	<0.020		0.050	0.020	mg/L		08/13/20 17:12	08/14/20 01:01	1
Silver	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:01	1
Vanadium	<0.010		0.025	0.010	mg/L		08/13/20 17:12	08/14/20 01:01	1
Zinc	<0.020		0.50	0.020	mg/L		08/13/20 17:12	08/14/20 01:01	1
Potassium	<0.50		2.5	0.50	mg/L		08/13/20 17:12	08/14/20 01:01	1

Lab Sample ID: LB 500-556478/2-B
Matrix: Solid
Analysis Batch: 557084

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 556796

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Manganese	<0.010		0.025	0.010	mg/L		08/14/20 05:55	08/16/20 20:19	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185873-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-556726/24-A
Matrix: Solid
Analysis Batch: 556891

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556726

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.469		mg/L		94	80 - 120
Thallium	0.100	0.0994		mg/L		99	80 - 120

Lab Sample ID: LCS 500-556726/2-A
Matrix: Solid
Analysis Batch: 556891

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556726

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.456		mg/L		91	80 - 120
Thallium	0.100	0.104		mg/L		104	80 - 120

Lab Sample ID: LB 500-556488/2-C
Matrix: Solid
Analysis Batch: 556891

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 556726

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/13/20 17:12	08/14/20 09:33	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/13/20 17:12	08/14/20 09:33	1

Lab Sample ID: LB2 500-556490/2-C
Matrix: Solid
Analysis Batch: 556891

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 556726

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/13/20 17:12	08/14/20 10:30	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/13/20 17:12	08/14/20 10:30	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-556702/12-A
Matrix: Solid
Analysis Batch: 556904

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 556702

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/13/20 14:20	08/14/20 09:42	1

Lab Sample ID: LCS 500-556702/14-A
Matrix: Solid
Analysis Batch: 556904

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556702

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00216		mg/L		108	80 - 120

Lab Sample ID: LCS 500-556702/37-A
Matrix: Solid
Analysis Batch: 556904

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556702

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00209		mg/L		104	80 - 120

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185873-1

Method: 7470A - TCLP Mercury (Continued)

Lab Sample ID: LB 500-556488/2-B
Matrix: Solid
Analysis Batch: 556904

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 556702

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/13/20 14:20	08/14/20 09:44	1

Lab Sample ID: LB2 500-556490/2-B
Matrix: Solid
Analysis Batch: 556904

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 556702

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/13/20 14:20	08/14/20 10:46	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-556274/12-A
Matrix: Solid
Analysis Batch: 556451

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 556274

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		08/11/20 14:25	08/12/20 08:06	1

Lab Sample ID: LCS 500-556274/13-A
Matrix: Solid
Analysis Batch: 556451

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556274

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.177		mg/Kg		106	80 - 120

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 500-556842/1-A
Matrix: Solid
Analysis Batch: 557133

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 556842

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.12		0.24	0.12	mg/Kg		08/14/20 12:10	08/14/20 15:17	1

Lab Sample ID: HLCS 500-556842/2-A
Matrix: Solid
Analysis Batch: 557133

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556842

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	12.0	12.3		mg/Kg		103	90 - 110

Lab Sample ID: LCS 500-556842/3-A
Matrix: Solid
Analysis Batch: 557133

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556842

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	2.40	2.33		mg/Kg		97	85 - 115

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185873-1

Method: 9012B - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: LLCS 500-556842/4-A
Matrix: Solid
Analysis Batch: 557133

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556842

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	1.20	0.943		mg/Kg		79	75 - 125

- 1
- 2
- 3
- 4
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- 9
- 10
- 11
- 12
- 13

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185873-1

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-21

1

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500-185873 COC

Report To (optional) Matt Weiss
 Contact: Matt Weiss
 Company: Terracon
 Address: 192 Elkchone Blvd
Glendale Heights, IL
 Phone: 630-445-0166
 Fax: _____
 E-Mail: matt.weiss@terracon.com

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

Chain of Custody Record

Lab Job #: 500-185873

Chain of Custody Number: _____

Page 1 of 1

Temperature °C of Cooler: 59.5.754

Client		Client Project #		Preservative		Parameter												Preservative Key	
<u>Terracon</u>		<u>111207011P</u>																1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		Sampling		# of Containers		Matrix										Comments	
<u>111207011P</u>				Date Time															
Project Location/State		Lab PM																	
<u>Hempshire IL</u>																			
Sampler																			
<u>D.G.F.</u>																			
1	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix													
1		<u>241202-15-B01 (0.5)</u>	<u>8/03/20</u>	<u>1030</u>	<u>6</u>	<u>SO</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
2		<u>241202-15-B01 (5-7.5)</u>	<u>8/03/20</u>	<u>1035</u>	<u>6</u>	<u>SO</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
3		<u>241202-15-B02 (0.5)</u>	<u>8/03/20</u>	<u>1055</u>	<u>6</u>	<u>SO</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
4		<u>241202-15-B02 (0.5) Rep</u>	<u>8/03/20</u>	<u>1100</u>	<u>6</u>	<u>SO</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
5		<u>241202-15-B02 (5-7.5)</u>	<u>8/03/20</u>	<u>1105</u>	<u>6</u>	<u>SO</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
6		<u>241202-15-B03 (0.5)</u>	<u>8/03/20</u>	<u>1125</u>	<u>6</u>	<u>SO</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
7		<u>241202-15-B03 (5-7.5)</u>	<u>8/03/20</u>	<u>1130</u>	<u>6</u>	<u>SO</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>

Turnaround Time Required (Business Days)

1 Day 2 Days 5 Days 7 Days 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>8/03/2020</u> Time: <u>1630</u>	Received By: <u>[Signature]</u> Company: <u>[Signature]</u> Date: <u>8/3/20</u> Time: <u>1230</u>	Lab Courier: <u>[Signature]</u>
Relinquished By: <u>[Signature]</u> Company: <u>[Signature]</u> Date: <u>8/3/20</u> Time: <u>1825</u>	Received By: <u>[Signature]</u> Company: <u>[Signature]</u> Date: <u>8/4/20</u> Time: <u>0800</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
* STANDARD TURN
* NO ALUMINUM
* HOLD SPUR 23 INORGANICS Per-Terracon
Instructional

Lab Comments:

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-185873-1

Login Number: 185873

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.9,5.7,5.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 557-IL Route 72 at State Street/Getzelman Rd Office Phone Number, if available: _____

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

IL Route 72 (Eastbound) IDOT STA 500+00 to 502+10; Getzelman Rd (Northbound) STA 199+23 to 200+00 (ISGS 2412V2-16)

City: Hampshire State: IL Zip Code: 60140

County: Kane Township: Hampshire

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

Latitude: 42.08832 Longitude: - 88.53013

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

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

Estimated Volume of debris (cu. Yd.): 211

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

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

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

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

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

Soil from borings B01 and B02 were sampled adjacent to ISGS Site No 2412V2-16.
See Exhibit 2 and Table 21 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 J185875-1.

Also see Preliminary Site Investigation Report prepared by Terracon. CCDD/USFO facility in MSA County.

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

I, Matt Weiss (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51 a] 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

Printed Name: _____

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Date:

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

Comparison of Detected Constituents to MACs-PTB 174-009;Work Order:074A
Preliminary Site Investigation
FAP 557-IL Route 72 at State St./Getzelman Road (PESA #2412V2-16)
Hampshire, Kane Co, IL
Terracon Project No. 11207011P
Page 1 of 4

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2412V2-16-B01 (0-5)	2412V2-16-B01 (5-7.5)
				CCDD	Sample Depth (feet)	(0-5)	(5-7.5)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	8/3/2020	8/3/2020
Semivolatile Organic Analytical Parameters							
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.0084	<0.0049
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.0084	<0.0070
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.0075	<0.0078
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		<0.011	<0.012
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		<0.010	<0.011
Chrysene	mg/kg	1.2	2.7	88		0.01	<0.0099
Fluoranthene	mg/kg	2.7	4.1	3100		0.015	<0.0067
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		<0.0090	<0.0094
Phenanthrene	mg/kg	1.3	2.5	210		<0.0048	<0.0051
Pyrene	mg/kg	1.9	3.0	2300		0.012	<0.0072
bis(2-Ethylhexyl)phthalate	mg/kg	---	---	46		<0.064	<0.066
Inorganic Analytical Parameters							
Arsenic	mg/kg	---	13	11.3		4.4	3
Barium	mg/kg	---	110	1500		30	15
Cadmium	mg/kg	---	0.6	5.2		0.078	0.069
Chromium, total	mg/kg	---	16.2	21		9.5	5.8
Lead	mg/kg	---	36	107		8.6	4.7
Mercury	mg/kg	---	0.06	0.89		0.016	0.01
Selenium	mg/kg	---	0.48	1.3		<0.31	<0.30
Silver	mg/kg	---	0.55	4.4		<0.068	<0.067
Antimony	mg/kg	---	4.0	5		0.25	<0.20
Beryllium	mg/kg	---	0.59	22		0.45	0.2
Calcium	mg/kg	---	9,300	---		19000	45000
Cobalt	mg/kg	---	8.9	20		5.4	3
Copper	mg/kg	---	19.6	2900		10	6.8
Cyanide	mg/kg	---	0.51	---		0.19	<0.11
Iron	mg/kg	---	15,900	15000		10000	6300
Magnesium	mg/kg	---	4,820	325000		12000	20000
Manganese	mg/kg	---	636	630		320	230
Nickel	mg/kg	---	18	100		14	7.2
Potassium	mg/kg	---	1,268	---		910	580
Sodium	mg/kg	---	130	---		140	130
Thallium	mg/kg	---	0.32	2.6		0.27	<0.26
Vanadium	mg/kg	---	25.2	550		18	11
Zinc	mg/kg	---	95	5100		32	20
pH			6.25	9		8.3	8.9

Comparison of Detected Constituents to MACs-PTB 174-009;Work Order:074A

Preliminary Site Investigation

FAP 557-IL Route 72 at State St./Getzelman Road (PESA #2412V2-16)

Hampshire, Kane Co, IL

Terracon Project No. 11207011P

Page 2 of 4

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2412V2-16-B01 (0-5)	2412V2-16-B01 (5-7.5)
				CCDD	Sample Depth (feet)	(0-5)	(5-7.5)
		mg/kg	Date Collected	8/3/2020	8/3/2020		
		pH 6.25-9.0					
Inorganic Analytical Parameters (SPLP)							
Antimony,SPLP	mg/L	---	---	---		--	--
Arsenic,SPLP	mg/L	---	---	---		--	--
Barium,SPLP	mg/L	---	---	---		--	--
Beryllium,SPLP	mg/L	---	---	---		--	--
Cadmium,SPLP	mg/L	---	---	---		--	--
Calcium,SPLP	mg/L	---	---	---		--	--
Chromium,SPLP	mg/L	---	---	---		--	--
Cobalt,SPLP	mg/L	---	---	---		--	--
Copper,SPLP	mg/L	---	---	---		--	--
Iron,SPLP	mg/L	---	---	---		--	--
Lead,SPLP	mg/L	---	---	---		--	--
Magnesium,SPLP	mg/L	---	---	---		--	--
Manganese,SPLP	mg/L	---	---	---		0.39	0.29
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	0.18
Cadmium,TCLP	mg/L	---	---	---		<0.0020	<0.0020
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	---	---	---		340	310
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	---	---	---		180	180
Manganese,TCLP	mg/L	---	---	---		0.87	1.1
Nickel,TCLP	mg/L	---	---	---		<0.010	0.014
Potassium,TCLP	mg/L	---	---	---		1.1	1.3
Sodium,TCLP	mg/L	---	---	---		--	--
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.010	<0.010
Zinc,TCLP	mg/L	---	---	---		0.028	<0.020

Comparison of Detected Constituents to MACs-PTB 174-009;Work Order:074A
Preliminary Site Investigation
FAP 557-IL Route 72 at State St./Getzelman Road (PESA #2412V2-16)
Hampshire, Kane Co, IL
Terracon Project No. 11207011P
Page 3 of 4

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2412V2-16-B02 (0-5)	2412V2-16-B02 (5-7.5)
				CCDD	Sample Depth (feet)	(0-5)	(5-7.5)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	8/3/2020	8/3/2020
Semivolatile Organic Analytical Parameters							
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.014	0.0055
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.016	<0.0073
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.018	<0.0081
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.018	<0.012
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.02	<0.011
Chrysene	mg/kg	1.2	2.7	88		0.022	<0.010
Fluoranthene	mg/kg	2.7	4.1	3100		0.031	<0.0070
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.014	<0.0098
Phenanthrene	mg/kg	1.3	2.5	210		0.016	<0.0053
Pyrene	mg/kg	1.9	3.0	2300		0.032	<0.0075
bis(2-Ethylhexyl)phthalate	mg/kg	---	---	46		<0.069	0.073
Inorganic Analytical Parameters							
Arsenic	mg/kg	---	13	11.3		5.6	3.7
Barium	mg/kg	---	110	1500		74	31
Cadmium	mg/kg	---	0.6	5.2		0.16	0.081
Chromium, total	mg/kg	---	16.2	21		13	9.7
Lead	mg/kg	---	36	107		29	11
Mercury	mg/kg	---	0.06	0.89		0.036	0.017
Selenium	mg/kg	---	0.48	1.3		0.4	<0.31
Silver	mg/kg	---	0.55	4.4		<0.071	<0.069
Antimony	mg/kg	---	4.0	5		<0.22	<0.21
Beryllium	mg/kg	---	0.59	22		0.51	0.4
Calcium	mg/kg	---	9,300	---		14000	32000
Cobalt	mg/kg	---	8.9	20		6.8	3.8
Copper	mg/kg	---	19.6	2900		11	7.9
Cyanide	mg/kg	---	0.51	---		0.3	<0.13
Iron	mg/kg	---	15,900	15000		13000	9900
Magnesium	mg/kg	---	4,820	325000		8600	21000
Manganese	mg/kg	---	636	630		490	280
Nickel	mg/kg	---	18	100		15	10
Potassium	mg/kg	---	1,268	---		1100	1000
Sodium	mg/kg	---	130	---		1400	430
Thallium	mg/kg	---	0.32	2.6		0.36	<0.27
Vanadium	mg/kg	---	25.2	550		22	15
Zinc	mg/kg	---	95	5100		64	30
pH			6.25	9		8.6	8.9

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2412V2-16-B02 (0-5)	2412V2-16-B02 (5-7.5)
				CCDD	Sample Depth (feet)	(0-5)	(5-7.5)
		mg/kg	Date Collected	8/3/2020	8/3/2020		
		pH 6.25-9.0					
Inorganic Analytical Parameters (SPLP)							
Antimony,SPLP	mg/L	---	---	---		--	--
Arsenic,SPLP	mg/L	---	---	---		--	--
Barium,SPLP	mg/L	---	---	---		--	--
Beryllium,SPLP	mg/L	---	---	---		--	--
Cadmium,SPLP	mg/L	---	---	---		--	--
Calcium,SPLP	mg/L	---	---	---		--	--
Chromium,SPLP	mg/L	---	---	---		--	--
Cobalt,SPLP	mg/L	---	---	---		--	--
Copper,SPLP	mg/L	---	---	---		--	--
Iron,SPLP	mg/L	---	---	---		--	--
Lead,SPLP	mg/L	---	---	---		0.32	--
Magnesium,SPLP	mg/L	---	---	---		--	--
Manganese,SPLP	mg/L	---	---	---		1.8	0.96
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	---	---	---		0.51	0.34
Cadmium,TCLP	mg/L	---	---	---		<0.0020	<0.0020
Chromium,TCLP	mg/L	---	---	---		<0.010	<0.010
Lead,TCLP	mg/L	---	---	---		0.0079	<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	---	---	---		340	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	---	---	---		160	180
Manganese,TCLP	mg/L	---	---	---		1.1	0.99
Nickel,TCLP	mg/L	---	---	---		0.012	<0.010
Potassium,TCLP	mg/L	---	---	---		1.6	1.3
Sodium,TCLP	mg/L	---	---	---		--	--
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.010	<0.010
Zinc,TCLP	mg/L	---	---	---		0.094	0.035

ANALYTICAL REPORT

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

Laboratory Job ID: 500-185875-1
Client Project/Site: IDOT - Hampshire - WO 074

For:

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

Attn: Mr. Matthew Weiss



Authorized for release by:
8/17/2020 4:42:47 PM

Richard Wright, Senior Project Manager
(708)746-0045
Richard.Wright@Eurofinset.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 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 - Hampshire - WO 074

Job ID: 500-185875-1

Job ID: 500-185875-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-185875-1

Receipt

The samples were received on 8/3/2020 6:25 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 5.4° C, 5.7° C and 5.9° C.

GC/MS VOA

Method 8260B: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for 556446 recovered outside control limits for the following analytes: Bromomethane and Chloromethane. These analytes were not detected in the associated samples; therefore, the data have been reported. 2412V2-16-B01 (0-5) (500-185875-1), 2412V2-16-B01 (5-7.5) (500-185875-2), 2412V2-16-B02 (0-5) (500-185875-3) and 2412V2-16-B02 (5-7.5) (500-185875-4)

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

GC/MS Semi VOA

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-556958 was outside the method criteria for the following analyte(s): 2,2'-oxybis[1-chloropropane]. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

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

Metals

Method 6010B: The continuing calibration blanks (CCB) contained zinc above the reporting limit (RL). The sample 2412V2-16-B02 (0-5) (500-185875-3) and 2412V2-16-B02 (5-7.5) (500-185875-4) associated with this CCB did not contain the target compound; therefore, re-analysis of samples was 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 - Hampshire - WO 074

Job ID: 500-185875-1

Client Sample ID: 2412V2-16-B01 (0-5)

Lab Sample ID: 500-185875-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0084	J	0.035	0.0047	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.0084	J	0.035	0.0067	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.0075	J	0.035	0.0075	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.010	J	0.035	0.0095	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.015	J	0.035	0.0064	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.012	J	0.035	0.0069	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.25	J	1.0	0.20	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.4		0.52	0.18	mg/Kg	1	☼	6010B	Total/NA
Barium	30		0.52	0.060	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.45		0.21	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.078	J B	0.10	0.019	mg/Kg	1	☼	6010B	Total/NA
Chromium	9.5		0.52	0.26	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.4		0.26	0.069	mg/Kg	1	☼	6010B	Total/NA
Copper	10		0.52	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	10000		10	5.5	mg/Kg	1	☼	6010B	Total/NA
Lead	8.6		0.26	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	12000		5.2	2.6	mg/Kg	1	☼	6010B	Total/NA
Calcium	19000		10	1.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	320		0.52	0.076	mg/Kg	1	☼	6010B	Total/NA
Nickel	14		0.52	0.15	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.27	J	0.52	0.26	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.26	0.062	mg/Kg	1	☼	6010B	Total/NA
Zinc	32		1.0	0.46	mg/Kg	1	☼	6010B	Total/NA
Potassium	910		26	9.3	mg/Kg	1	☼	6010B	Total/NA
Sodium	140		52	7.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.33	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	340		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	180		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.87		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.1	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.028	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.39		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.016	J	0.017	0.0056	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.19	J	0.30	0.15	mg/Kg	1	☼	9012B	Total/NA
pH	8.3		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2412V2-16-B01 (5-7.5)

Lab Sample ID: 500-185875-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.0		0.52	0.18	mg/Kg	1	☼	6010B	Total/NA
Barium	15		0.52	0.059	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.20	J	0.21	0.048	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.069	J B	0.10	0.019	mg/Kg	1	☼	6010B	Total/NA
Chromium	5.8		0.52	0.26	mg/Kg	1	☼	6010B	Total/NA
Cobalt	3.0		0.26	0.068	mg/Kg	1	☼	6010B	Total/NA
Copper	6.8		0.52	0.14	mg/Kg	1	☼	6010B	Total/NA
Iron	6300		10	5.4	mg/Kg	1	☼	6010B	Total/NA
Lead	4.7		0.26	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	20000		5.2	2.6	mg/Kg	1	☼	6010B	Total/NA
Calcium	45000		100	17	mg/Kg	10	☼	6010B	Total/NA
Manganese	230		0.52	0.075	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185875-1

Client Sample ID: 2412V2-16-B01 (5-7.5) (Continued)

Lab Sample ID: 500-185875-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	7.2		0.52	0.15	mg/Kg	1	☼	6010B	Total/NA
Vanadium	11		0.26	0.061	mg/Kg	1	☼	6010B	Total/NA
Zinc	20		1.0	0.45	mg/Kg	1	☼	6010B	Total/NA
Potassium	580		26	9.1	mg/Kg	1	☼	6010B	Total/NA
Sodium	130		52	7.6	mg/Kg	1	☼	6010B	Total/NA
Barium	0.18	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	310		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	180		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	1.3	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.29		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.010	J	0.018	0.0060	mg/Kg	1	☼	7471B	Total/NA
pH	8.9		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2412V2-16-B02 (0-5)

Lab Sample ID: 500-185875-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.014	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.016	J	0.038	0.0073	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.018	J	0.038	0.0082	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.018	J	0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.020	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.022	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.031	J	0.038	0.0070	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.014	J	0.038	0.0098	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.016	J	0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.032	J	0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.6		0.55	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	74		0.55	0.063	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.51		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	13		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.8		0.28	0.073	mg/Kg	1	☼	6010B	Total/NA
Copper	11		0.55	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	13000		11	5.8	mg/Kg	1	☼	6010B	Total/NA
Lead	29		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	8600		5.5	2.7	mg/Kg	1	☼	6010B	Total/NA
Calcium	14000		11	1.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	490		0.55	0.080	mg/Kg	1	☼	6010B	Total/NA
Nickel	15		0.55	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.40	J	0.55	0.33	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.36	J	0.55	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.28	0.065	mg/Kg	1	☼	6010B	Total/NA
Zinc	64		1.1	0.49	mg/Kg	1	☼	6010B	Total/NA
Potassium	1100		28	9.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	1400		55	8.2	mg/Kg	1	☼	6010B	Total/NA
Barium	0.51		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	340		5.0	0.50	mg/L	1		6010B	TCLP
Lead	0.0079		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	160		2.5	0.50	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185875-1

Client Sample ID: 2412V2-16-B02 (0-5) (Continued)

Lab Sample ID: 500-185875-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	1.1		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.6	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.094	J ^	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.32		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	1.8		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.036		0.019	0.0064	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.30	J	0.35	0.17	mg/Kg	1	☼	9012B	Total/NA
pH	8.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2412V2-16-B02 (5-7.5)

Lab Sample ID: 500-185875-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0055	J	0.037	0.0051	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.073	J	0.19	0.069	mg/Kg	1	☼	8270D	Total/NA
Arsenic	3.7		0.54	0.18	mg/Kg	1	☼	6010B	Total/NA
Barium	31		0.54	0.061	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.40		0.21	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.081	J B	0.11	0.019	mg/Kg	1	☼	6010B	Total/NA
Chromium	9.7		0.54	0.26	mg/Kg	1	☼	6010B	Total/NA
Cobalt	3.8		0.27	0.070	mg/Kg	1	☼	6010B	Total/NA
Copper	7.9		0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	9900		11	5.6	mg/Kg	1	☼	6010B	Total/NA
Lead	11		0.27	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	21000		5.4	2.7	mg/Kg	1	☼	6010B	Total/NA
Calcium	32000		11	1.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	280		0.54	0.078	mg/Kg	1	☼	6010B	Total/NA
Nickel	10		0.54	0.16	mg/Kg	1	☼	6010B	Total/NA
Vanadium	15		0.27	0.063	mg/Kg	1	☼	6010B	Total/NA
Zinc	30		1.1	0.47	mg/Kg	1	☼	6010B	Total/NA
Potassium	1000		27	9.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	430		54	7.9	mg/Kg	1	☼	6010B	Total/NA
Barium	0.34	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	350		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	180		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.99		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.3	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.035	J ^	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.96		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	8.9		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185875-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-185875-1	2412V2-16-B01 (0-5)	Solid	08/03/20 11:55	08/03/20 18:25	
500-185875-2	2412V2-16-B01 (5-7.5)	Solid	08/03/20 12:00	08/03/20 18:25	
500-185875-3	2412V2-16-B02 (0-5)	Solid	08/03/20 12:20	08/03/20 18:25	
500-185875-4	2412V2-16-B02 (5-7.5)	Solid	08/03/20 12:25	08/03/20 18:25	

- 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 - Hampshire - WO 074

Job ID: 500-185875-1

Client Sample ID: 2412V2-16-B01 (0-5)

Lab Sample ID: 500-185875-1

Date Collected: 08/03/20 11:55

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 93.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0069		0.016	0.0069	mg/Kg	☼	08/04/20 17:04	08/12/20 14:41	1
Benzene	<0.00040		0.0016	0.00040	mg/Kg	☼	08/04/20 17:04	08/12/20 14:41	1
Bromodichloromethane	<0.00032		0.0016	0.00032	mg/Kg	☼	08/04/20 17:04	08/12/20 14:41	1
Bromoform	<0.00046		0.0016	0.00046	mg/Kg	☼	08/04/20 17:04	08/12/20 14:41	1
Bromomethane	<0.0015	*	0.0040	0.0015	mg/Kg	☼	08/04/20 17:04	08/12/20 14:41	1
2-Butanone (MEK)	<0.0018		0.0040	0.0018	mg/Kg	☼	08/04/20 17:04	08/12/20 14:41	1
Carbon disulfide	<0.00082		0.0040	0.00082	mg/Kg	☼	08/04/20 17:04	08/12/20 14:41	1
Carbon tetrachloride	<0.00046		0.0016	0.00046	mg/Kg	☼	08/04/20 17:04	08/12/20 14:41	1
Chlorobenzene	<0.00058		0.0016	0.00058	mg/Kg	☼	08/04/20 17:04	08/12/20 14:41	1
Chloroethane	<0.0012		0.0040	0.0012	mg/Kg	☼	08/04/20 17:04	08/12/20 14:41	1
Chloroform	<0.00055		0.0016	0.00055	mg/Kg	☼	08/04/20 17:04	08/12/20 14:41	1
Chloromethane	<0.0016	*	0.0040	0.0016	mg/Kg	☼	08/04/20 17:04	08/12/20 14:41	1
cis-1,2-Dichloroethene	<0.00044		0.0016	0.00044	mg/Kg	☼	08/04/20 17:04	08/12/20 14:41	1
cis-1,3-Dichloropropene	<0.00048		0.0016	0.00048	mg/Kg	☼	08/04/20 17:04	08/12/20 14:41	1
Dibromochloromethane	<0.00052		0.0016	0.00052	mg/Kg	☼	08/04/20 17:04	08/12/20 14:41	1
1,1-Dichloroethane	<0.00054		0.0016	0.00054	mg/Kg	☼	08/04/20 17:04	08/12/20 14:41	1
1,2-Dichloroethane	<0.0012		0.0040	0.0012	mg/Kg	☼	08/04/20 17:04	08/12/20 14:41	1
1,1-Dichloroethene	<0.00054		0.0016	0.00054	mg/Kg	☼	08/04/20 17:04	08/12/20 14:41	1
1,2-Dichloropropane	<0.00041		0.0016	0.00041	mg/Kg	☼	08/04/20 17:04	08/12/20 14:41	1
1,3-Dichloropropane, Total	<0.00056		0.0016	0.00056	mg/Kg	☼	08/04/20 17:04	08/12/20 14:41	1
Ethylbenzene	<0.00076		0.0016	0.00076	mg/Kg	☼	08/04/20 17:04	08/12/20 14:41	1
2-Hexanone	<0.0012		0.0040	0.0012	mg/Kg	☼	08/04/20 17:04	08/12/20 14:41	1
Methylene Chloride	<0.0016		0.0040	0.0016	mg/Kg	☼	08/04/20 17:04	08/12/20 14:41	1
4-Methyl-2-pentanone (MIBK)	<0.0012		0.0040	0.0012	mg/Kg	☼	08/04/20 17:04	08/12/20 14:41	1
Methyl tert-butyl ether	<0.00046		0.0016	0.00046	mg/Kg	☼	08/04/20 17:04	08/12/20 14:41	1
Styrene	<0.00048		0.0016	0.00048	mg/Kg	☼	08/04/20 17:04	08/12/20 14:41	1
1,1,2,2-Tetrachloroethane	<0.00051		0.0016	0.00051	mg/Kg	☼	08/04/20 17:04	08/12/20 14:41	1
Tetrachloroethene	<0.00054		0.0016	0.00054	mg/Kg	☼	08/04/20 17:04	08/12/20 14:41	1
Toluene	<0.00040		0.0016	0.00040	mg/Kg	☼	08/04/20 17:04	08/12/20 14:41	1
trans-1,2-Dichloroethene	<0.00070		0.0016	0.00070	mg/Kg	☼	08/04/20 17:04	08/12/20 14:41	1
trans-1,3-Dichloropropene	<0.00056		0.0016	0.00056	mg/Kg	☼	08/04/20 17:04	08/12/20 14:41	1
1,1,1-Trichloroethane	<0.00053		0.0016	0.00053	mg/Kg	☼	08/04/20 17:04	08/12/20 14:41	1
1,1,2-Trichloroethane	<0.00068		0.0016	0.00068	mg/Kg	☼	08/04/20 17:04	08/12/20 14:41	1
Trichloroethene	<0.00054		0.0016	0.00054	mg/Kg	☼	08/04/20 17:04	08/12/20 14:41	1
Vinyl acetate	<0.0014		0.0040	0.0014	mg/Kg	☼	08/04/20 17:04	08/12/20 14:41	1
Vinyl chloride	<0.00070		0.0016	0.00070	mg/Kg	☼	08/04/20 17:04	08/12/20 14:41	1
Xylenes, Total	<0.00051		0.0032	0.00051	mg/Kg	☼	08/04/20 17:04	08/12/20 14:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		75 - 131	08/04/20 17:04	08/12/20 14:41	1
Dibromofluoromethane	93		75 - 126	08/04/20 17:04	08/12/20 14:41	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 134	08/04/20 17:04	08/12/20 14:41	1
Toluene-d8 (Surr)	88		75 - 124	08/04/20 17:04	08/12/20 14:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0062		0.035	0.0062	mg/Kg	☼	08/14/20 06:11	08/14/20 17:51	1
Acenaphthylene	<0.0046		0.035	0.0046	mg/Kg	☼	08/14/20 06:11	08/14/20 17:51	1
Anthracene	<0.0058		0.035	0.0058	mg/Kg	☼	08/14/20 06:11	08/14/20 17:51	1
Benzo[a]anthracene	0.0084	J	0.035	0.0047	mg/Kg	☼	08/14/20 06:11	08/14/20 17:51	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185875-1

Client Sample ID: 2412V2-16-B01 (0-5)

Lab Sample ID: 500-185875-1

Date Collected: 08/03/20 11:55

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 93.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.0084	J	0.035	0.0067	mg/Kg	☼	08/14/20 06:11	08/14/20 17:51	1
Benzo[b]fluoranthene	0.0075	J	0.035	0.0075	mg/Kg	☼	08/14/20 06:11	08/14/20 17:51	1
Benzo[g,h,i]perylene	<0.011		0.035	0.011	mg/Kg	☼	08/14/20 06:11	08/14/20 17:51	1
Benzo[k]fluoranthene	<0.010		0.035	0.010	mg/Kg	☼	08/14/20 06:11	08/14/20 17:51	1
Bis(2-chloroethoxy)methane	<0.035		0.17	0.035	mg/Kg	☼	08/14/20 06:11	08/14/20 17:51	1
Bis(2-chloroethyl)ether	<0.052		0.17	0.052	mg/Kg	☼	08/14/20 06:11	08/14/20 17:51	1
Bis(2-ethylhexyl) phthalate	<0.064		0.17	0.064	mg/Kg	☼	08/14/20 06:11	08/14/20 17:51	1
4-Bromophenyl phenyl ether	<0.046		0.17	0.046	mg/Kg	☼	08/14/20 06:11	08/14/20 17:51	1
Butyl benzyl phthalate	<0.066		0.17	0.066	mg/Kg	☼	08/14/20 06:11	08/14/20 17:51	1
Carbazole	<0.087		0.17	0.087	mg/Kg	☼	08/14/20 06:11	08/14/20 17:51	1
4-Chloroaniline	<0.16		0.70	0.16	mg/Kg	☼	08/14/20 06:11	08/14/20 17:51	1
4-Chloro-3-methylphenol	<0.12		0.35	0.12	mg/Kg	☼	08/14/20 06:11	08/14/20 17:51	1
2-Chloronaphthalene	<0.038		0.17	0.038	mg/Kg	☼	08/14/20 06:11	08/14/20 17:51	1
2-Chlorophenol	<0.059		0.17	0.059	mg/Kg	☼	08/14/20 06:11	08/14/20 17:51	1
4-Chlorophenyl phenyl ether	<0.041		0.17	0.041	mg/Kg	☼	08/14/20 06:11	08/14/20 17:51	1
Chrysene	0.010	J	0.035	0.0095	mg/Kg	☼	08/14/20 06:11	08/14/20 17:51	1
Dibenz(a,h)anthracene	<0.0067		0.035	0.0067	mg/Kg	☼	08/14/20 06:11	08/14/20 17:51	1
Dibenzofuran	<0.041		0.17	0.041	mg/Kg	☼	08/14/20 06:11	08/14/20 17:51	1
1,2-Dichlorobenzene	<0.042		0.17	0.042	mg/Kg	☼	08/14/20 06:11	08/14/20 17:51	1
1,3-Dichlorobenzene	<0.039		0.17	0.039	mg/Kg	☼	08/14/20 06:11	08/14/20 17:51	1
1,4-Dichlorobenzene	<0.045		0.17	0.045	mg/Kg	☼	08/14/20 06:11	08/14/20 17:51	1
3,3'-Dichlorobenzidine	<0.049		0.17	0.049	mg/Kg	☼	08/14/20 06:11	08/14/20 17:51	1
2,4-Dichlorophenol	<0.083		0.35	0.083	mg/Kg	☼	08/14/20 06:11	08/14/20 17:51	1
Diethyl phthalate	<0.059		0.17	0.059	mg/Kg	☼	08/14/20 06:11	08/14/20 17:51	1
2,4-Dimethylphenol	<0.13		0.35	0.13	mg/Kg	☼	08/14/20 06:11	08/14/20 17:51	1
Dimethyl phthalate	<0.045		0.17	0.045	mg/Kg	☼	08/14/20 06:11	08/14/20 17:51	1
Di-n-butyl phthalate	<0.053		0.17	0.053	mg/Kg	☼	08/14/20 06:11	08/14/20 17:51	1
4,6-Dinitro-2-methylphenol	<0.28		0.70	0.28	mg/Kg	☼	08/14/20 06:11	08/14/20 17:51	1
2,4-Dinitrophenol	<0.61		0.70	0.61	mg/Kg	☼	08/14/20 06:11	08/14/20 17:51	1
2,4-Dinitrotoluene	<0.055		0.17	0.055	mg/Kg	☼	08/14/20 06:11	08/14/20 17:51	1
2,6-Dinitrotoluene	<0.068		0.17	0.068	mg/Kg	☼	08/14/20 06:11	08/14/20 17:51	1
Di-n-octyl phthalate	<0.057		0.17	0.057	mg/Kg	☼	08/14/20 06:11	08/14/20 17:51	1
Fluoranthene	0.015	J	0.035	0.0064	mg/Kg	☼	08/14/20 06:11	08/14/20 17:51	1
Fluorene	<0.0049		0.035	0.0049	mg/Kg	☼	08/14/20 06:11	08/14/20 17:51	1
Hexachlorobenzene	<0.0081		0.070	0.0081	mg/Kg	☼	08/14/20 06:11	08/14/20 17:51	1
Hexachlorobutadiene	<0.055		0.17	0.055	mg/Kg	☼	08/14/20 06:11	08/14/20 17:51	1
Hexachlorocyclopentadiene	<0.20		0.70	0.20	mg/Kg	☼	08/14/20 06:11	08/14/20 17:51	1
Hexachloroethane	<0.053		0.17	0.053	mg/Kg	☼	08/14/20 06:11	08/14/20 17:51	1
Indeno[1,2,3-cd]pyrene	<0.0090		0.035	0.0090	mg/Kg	☼	08/14/20 06:11	08/14/20 17:51	1
Isophorone	<0.039		0.17	0.039	mg/Kg	☼	08/14/20 06:11	08/14/20 17:51	1
2-Methylnaphthalene	<0.0064		0.070	0.0064	mg/Kg	☼	08/14/20 06:11	08/14/20 17:51	1
2-Methylphenol	<0.056		0.17	0.056	mg/Kg	☼	08/14/20 06:11	08/14/20 17:51	1
3 & 4 Methylphenol	<0.058		0.17	0.058	mg/Kg	☼	08/14/20 06:11	08/14/20 17:51	1
Naphthalene	<0.0053		0.035	0.0053	mg/Kg	☼	08/14/20 06:11	08/14/20 17:51	1
2-Nitroaniline	<0.047		0.17	0.047	mg/Kg	☼	08/14/20 06:11	08/14/20 17:51	1
3-Nitroaniline	<0.11		0.35	0.11	mg/Kg	☼	08/14/20 06:11	08/14/20 17:51	1
4-Nitroaniline	<0.15		0.35	0.15	mg/Kg	☼	08/14/20 06:11	08/14/20 17:51	1
Nitrobenzene	<0.0087		0.035	0.0087	mg/Kg	☼	08/14/20 06:11	08/14/20 17:51	1
2-Nitrophenol	<0.082		0.35	0.082	mg/Kg	☼	08/14/20 06:11	08/14/20 17:51	1

Euofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185875-1

Client Sample ID: 2412V2-16-B01 (0-5)

Lab Sample ID: 500-185875-1

Date Collected: 08/03/20 11:55

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 93.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.33		0.70	0.33	mg/Kg	☼	08/14/20 06:11	08/14/20 17:51	1
N-Nitrosodi-n-propylamine	<0.042		0.070	0.042	mg/Kg	☼	08/14/20 06:11	08/14/20 17:51	1
N-Nitrosodiphenylamine	<0.041		0.17	0.041	mg/Kg	☼	08/14/20 06:11	08/14/20 17:51	1
2,2'-oxybis[1-chloropropane]	<0.040		0.17	0.040	mg/Kg	☼	08/14/20 06:11	08/14/20 17:51	1
Pentachlorophenol	<0.56		0.70	0.56	mg/Kg	☼	08/14/20 06:11	08/14/20 17:51	1
Phenanthrene	<0.0048		0.035	0.0048	mg/Kg	☼	08/14/20 06:11	08/14/20 17:51	1
Phenol	<0.077		0.17	0.077	mg/Kg	☼	08/14/20 06:11	08/14/20 17:51	1
Pyrene	0.012	J	0.035	0.0069	mg/Kg	☼	08/14/20 06:11	08/14/20 17:51	1
1,2,4-Trichlorobenzene	<0.037		0.17	0.037	mg/Kg	☼	08/14/20 06:11	08/14/20 17:51	1
2,4,5-Trichlorophenol	<0.079		0.35	0.079	mg/Kg	☼	08/14/20 06:11	08/14/20 17:51	1
2,4,6-Trichlorophenol	<0.12		0.35	0.12	mg/Kg	☼	08/14/20 06:11	08/14/20 17:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	94		43 - 145	08/14/20 06:11	08/14/20 17:51	1
2-Fluorophenol	76		31 - 166	08/14/20 06:11	08/14/20 17:51	1
Nitrobenzene-d5	76		37 - 147	08/14/20 06:11	08/14/20 17:51	1
Phenol-d5	69		30 - 153	08/14/20 06:11	08/14/20 17:51	1
Terphenyl-d14	103		42 - 157	08/14/20 06:11	08/14/20 17:51	1
2,4,6-Tribromophenol	133		31 - 143	08/14/20 06:11	08/14/20 17:51	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.25	J	1.0	0.20	mg/Kg	☼	08/11/20 06:38	08/11/20 23:29	1
Arsenic	4.4		0.52	0.18	mg/Kg	☼	08/11/20 06:38	08/11/20 23:29	1
Barium	30		0.52	0.060	mg/Kg	☼	08/11/20 06:38	08/11/20 23:29	1
Beryllium	0.45		0.21	0.049	mg/Kg	☼	08/11/20 06:38	08/11/20 23:29	1
Cadmium	0.078	J B	0.10	0.019	mg/Kg	☼	08/11/20 06:38	08/11/20 23:29	1
Chromium	9.5		0.52	0.26	mg/Kg	☼	08/11/20 06:38	08/11/20 23:29	1
Cobalt	5.4		0.26	0.069	mg/Kg	☼	08/11/20 06:38	08/11/20 23:29	1
Copper	10		0.52	0.15	mg/Kg	☼	08/11/20 06:38	08/11/20 23:29	1
Iron	10000		10	5.5	mg/Kg	☼	08/11/20 06:38	08/11/20 23:29	1
Lead	8.6		0.26	0.12	mg/Kg	☼	08/11/20 06:38	08/11/20 23:29	1
Magnesium	12000		5.2	2.6	mg/Kg	☼	08/11/20 06:38	08/11/20 23:29	1
Calcium	19000		10	1.8	mg/Kg	☼	08/11/20 06:38	08/11/20 23:29	1
Manganese	320		0.52	0.076	mg/Kg	☼	08/11/20 06:38	08/11/20 23:29	1
Nickel	14		0.52	0.15	mg/Kg	☼	08/11/20 06:38	08/11/20 23:29	1
Selenium	<0.31		0.52	0.31	mg/Kg	☼	08/11/20 06:38	08/11/20 23:29	1
Silver	<0.068		0.26	0.068	mg/Kg	☼	08/11/20 06:38	08/11/20 23:29	1
Thallium	0.27	J	0.52	0.26	mg/Kg	☼	08/11/20 06:38	08/11/20 23:29	1
Vanadium	18		0.26	0.062	mg/Kg	☼	08/11/20 06:38	08/11/20 23:29	1
Zinc	32		1.0	0.46	mg/Kg	☼	08/11/20 06:38	08/11/20 23:29	1
Potassium	910		26	9.3	mg/Kg	☼	08/11/20 06:38	08/11/20 23:29	1
Sodium	140		52	7.8	mg/Kg	☼	08/11/20 06:38	08/11/20 23:29	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/13/20 17:10	08/14/20 03:30	1
Barium	0.33	J	0.50	0.050	mg/L		08/13/20 17:10	08/14/20 03:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/13/20 17:10	08/14/20 03:30	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/13/20 17:10	08/14/20 03:30	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185875-1

Client Sample ID: 2412V2-16-B01 (0-5)

Lab Sample ID: 500-185875-1

Date Collected: 08/03/20 11:55

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 93.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	340		5.0	0.50	mg/L		08/13/20 17:10	08/14/20 03:30	1
Chromium	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 03:30	1
Cobalt	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 03:30	1
Copper	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 03:30	1
Iron	<0.20		0.40	0.20	mg/L		08/13/20 17:10	08/14/20 03:30	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/13/20 17:10	08/14/20 03:30	1
Magnesium	180		2.5	0.50	mg/L		08/13/20 17:10	08/14/20 03:30	1
Manganese	0.87		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 03:30	1
Nickel	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 03:30	1
Potassium	1.1 J		2.5	0.50	mg/L		08/13/20 17:10	08/14/20 03:30	1
Selenium	<0.020		0.050	0.020	mg/L		08/13/20 17:10	08/14/20 03:30	1
Silver	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 03:30	1
Vanadium	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 03:30	1
Zinc	0.028 J		0.50	0.020	mg/L		08/13/20 17:10	08/14/20 03:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.39		0.025	0.010	mg/L		08/14/20 05:58	08/16/20 22:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/13/20 17:10	08/14/20 09:06	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/13/20 17:10	08/14/20 09:06	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/13/20 14:20	08/14/20 10:59	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016 J		0.017	0.0056	mg/Kg	☼	08/11/20 14:25	08/12/20 08:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.19 J		0.30	0.15	mg/Kg	☼	08/14/20 13:10	08/17/20 10:39	1
pH	8.3		0.2	0.2	SU			08/06/20 19:01	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185875-1

Client Sample ID: 2412V2-16-B01 (5-7.5)

Lab Sample ID: 500-185875-2

Date Collected: 08/03/20 12:00

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 90.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0070		0.016	0.0070	mg/Kg	☼	08/04/20 17:04	08/12/20 15:06	1
Benzene	<0.00041		0.0016	0.00041	mg/Kg	☼	08/04/20 17:04	08/12/20 15:06	1
Bromodichloromethane	<0.00033		0.0016	0.00033	mg/Kg	☼	08/04/20 17:04	08/12/20 15:06	1
Bromoform	<0.00047		0.0016	0.00047	mg/Kg	☼	08/04/20 17:04	08/12/20 15:06	1
Bromomethane	<0.0015 *		0.0040	0.0015	mg/Kg	☼	08/04/20 17:04	08/12/20 15:06	1
2-Butanone (MEK)	<0.0018		0.0040	0.0018	mg/Kg	☼	08/04/20 17:04	08/12/20 15:06	1
Carbon disulfide	<0.00083		0.0040	0.00083	mg/Kg	☼	08/04/20 17:04	08/12/20 15:06	1
Carbon tetrachloride	<0.00047		0.0016	0.00047	mg/Kg	☼	08/04/20 17:04	08/12/20 15:06	1
Chlorobenzene	<0.00059		0.0016	0.00059	mg/Kg	☼	08/04/20 17:04	08/12/20 15:06	1
Chloroethane	<0.0012		0.0040	0.0012	mg/Kg	☼	08/04/20 17:04	08/12/20 15:06	1
Chloroform	<0.00056		0.0016	0.00056	mg/Kg	☼	08/04/20 17:04	08/12/20 15:06	1
Chloromethane	<0.0016 *		0.0040	0.0016	mg/Kg	☼	08/04/20 17:04	08/12/20 15:06	1
cis-1,2-Dichloroethene	<0.00045		0.0016	0.00045	mg/Kg	☼	08/04/20 17:04	08/12/20 15:06	1
cis-1,3-Dichloropropene	<0.00048		0.0016	0.00048	mg/Kg	☼	08/04/20 17:04	08/12/20 15:06	1
Dibromochloromethane	<0.00052		0.0016	0.00052	mg/Kg	☼	08/04/20 17:04	08/12/20 15:06	1
1,1-Dichloroethane	<0.00055		0.0016	0.00055	mg/Kg	☼	08/04/20 17:04	08/12/20 15:06	1
1,2-Dichloroethane	<0.0013		0.0040	0.0013	mg/Kg	☼	08/04/20 17:04	08/12/20 15:06	1
1,1-Dichloroethene	<0.00055		0.0016	0.00055	mg/Kg	☼	08/04/20 17:04	08/12/20 15:06	1
1,2-Dichloropropene	<0.00041		0.0016	0.00041	mg/Kg	☼	08/04/20 17:04	08/12/20 15:06	1
1,3-Dichloropropene, Total	<0.00056		0.0016	0.00056	mg/Kg	☼	08/04/20 17:04	08/12/20 15:06	1
Ethylbenzene	<0.00077		0.0016	0.00077	mg/Kg	☼	08/04/20 17:04	08/12/20 15:06	1
2-Hexanone	<0.0013		0.0040	0.0013	mg/Kg	☼	08/04/20 17:04	08/12/20 15:06	1
Methylene Chloride	<0.0016		0.0040	0.0016	mg/Kg	☼	08/04/20 17:04	08/12/20 15:06	1
4-Methyl-2-pentanone (MIBK)	<0.0012		0.0040	0.0012	mg/Kg	☼	08/04/20 17:04	08/12/20 15:06	1
Methyl tert-butyl ether	<0.00047		0.0016	0.00047	mg/Kg	☼	08/04/20 17:04	08/12/20 15:06	1
Styrene	<0.00048		0.0016	0.00048	mg/Kg	☼	08/04/20 17:04	08/12/20 15:06	1
1,1,2,2-Tetrachloroethane	<0.00051		0.0016	0.00051	mg/Kg	☼	08/04/20 17:04	08/12/20 15:06	1
Tetrachloroethene	<0.00055		0.0016	0.00055	mg/Kg	☼	08/04/20 17:04	08/12/20 15:06	1
Toluene	<0.00041		0.0016	0.00041	mg/Kg	☼	08/04/20 17:04	08/12/20 15:06	1
trans-1,2-Dichloroethene	<0.00071		0.0016	0.00071	mg/Kg	☼	08/04/20 17:04	08/12/20 15:06	1
trans-1,3-Dichloropropene	<0.00056		0.0016	0.00056	mg/Kg	☼	08/04/20 17:04	08/12/20 15:06	1
1,1,1-Trichloroethane	<0.00054		0.0016	0.00054	mg/Kg	☼	08/04/20 17:04	08/12/20 15:06	1
1,1,2-Trichloroethane	<0.00069		0.0016	0.00069	mg/Kg	☼	08/04/20 17:04	08/12/20 15:06	1
Trichloroethene	<0.00054		0.0016	0.00054	mg/Kg	☼	08/04/20 17:04	08/12/20 15:06	1
Vinyl acetate	<0.0014		0.0040	0.0014	mg/Kg	☼	08/04/20 17:04	08/12/20 15:06	1
Vinyl chloride	<0.00071		0.0016	0.00071	mg/Kg	☼	08/04/20 17:04	08/12/20 15:06	1
Xylenes, Total	<0.00051		0.0032	0.00051	mg/Kg	☼	08/04/20 17:04	08/12/20 15:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		75 - 131	08/04/20 17:04	08/12/20 15:06	1
Dibromofluoromethane	89		75 - 126	08/04/20 17:04	08/12/20 15:06	1
1,2-Dichloroethane-d4 (Surr)	87		70 - 134	08/04/20 17:04	08/12/20 15:06	1
Toluene-d8 (Surr)	91		75 - 124	08/04/20 17:04	08/12/20 15:06	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	☼	08/14/20 06:11	08/14/20 18:14	1
Acenaphthylene	<0.0048		0.036	0.0048	mg/Kg	☼	08/14/20 06:11	08/14/20 18:14	1
Anthracene	<0.0061		0.036	0.0061	mg/Kg	☼	08/14/20 06:11	08/14/20 18:14	1
Benzo[a]anthracene	<0.0049		0.036	0.0049	mg/Kg	☼	08/14/20 06:11	08/14/20 18:14	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185875-1

Client Sample ID: 2412V2-16-B01 (5-7.5)

Lab Sample ID: 500-185875-2

Date Collected: 08/03/20 12:00

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 90.1

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	☼	08/14/20 06:11	08/14/20 18:14	1
Benzo[b]fluoranthene	<0.0078		0.036	0.0078	mg/Kg	☼	08/14/20 06:11	08/14/20 18:14	1
Benzo[g,h,i]perylene	<0.012		0.036	0.012	mg/Kg	☼	08/14/20 06:11	08/14/20 18:14	1
Benzo[k]fluoranthene	<0.011		0.036	0.011	mg/Kg	☼	08/14/20 06:11	08/14/20 18:14	1
Bis(2-chloroethoxy)methane	<0.037		0.18	0.037	mg/Kg	☼	08/14/20 06:11	08/14/20 18:14	1
Bis(2-chloroethyl)ether	<0.054		0.18	0.054	mg/Kg	☼	08/14/20 06:11	08/14/20 18:14	1
Bis(2-ethylhexyl) phthalate	<0.066		0.18	0.066	mg/Kg	☼	08/14/20 06:11	08/14/20 18:14	1
4-Bromophenyl phenyl ether	<0.048		0.18	0.048	mg/Kg	☼	08/14/20 06:11	08/14/20 18:14	1
Butyl benzyl phthalate	<0.069		0.18	0.069	mg/Kg	☼	08/14/20 06:11	08/14/20 18:14	1
Carbazole	<0.091		0.18	0.091	mg/Kg	☼	08/14/20 06:11	08/14/20 18:14	1
4-Chloroaniline	<0.17		0.73	0.17	mg/Kg	☼	08/14/20 06:11	08/14/20 18:14	1
4-Chloro-3-methylphenol	<0.12		0.36	0.12	mg/Kg	☼	08/14/20 06:11	08/14/20 18:14	1
2-Chloronaphthalene	<0.040		0.18	0.040	mg/Kg	☼	08/14/20 06:11	08/14/20 18:14	1
2-Chlorophenol	<0.062		0.18	0.062	mg/Kg	☼	08/14/20 06:11	08/14/20 18:14	1
4-Chlorophenyl phenyl ether	<0.042		0.18	0.042	mg/Kg	☼	08/14/20 06:11	08/14/20 18:14	1
Chrysene	<0.0099		0.036	0.0099	mg/Kg	☼	08/14/20 06:11	08/14/20 18:14	1
Dibenz(a,h)anthracene	<0.0070		0.036	0.0070	mg/Kg	☼	08/14/20 06:11	08/14/20 18:14	1
Dibenzofuran	<0.042		0.18	0.042	mg/Kg	☼	08/14/20 06:11	08/14/20 18:14	1
1,2-Dichlorobenzene	<0.043		0.18	0.043	mg/Kg	☼	08/14/20 06:11	08/14/20 18:14	1
1,3-Dichlorobenzene	<0.041		0.18	0.041	mg/Kg	☼	08/14/20 06:11	08/14/20 18:14	1
1,4-Dichlorobenzene	<0.046		0.18	0.046	mg/Kg	☼	08/14/20 06:11	08/14/20 18:14	1
3,3'-Dichlorobenzidine	<0.051		0.18	0.051	mg/Kg	☼	08/14/20 06:11	08/14/20 18:14	1
2,4-Dichlorophenol	<0.086		0.36	0.086	mg/Kg	☼	08/14/20 06:11	08/14/20 18:14	1
Diethyl phthalate	<0.061		0.18	0.061	mg/Kg	☼	08/14/20 06:11	08/14/20 18:14	1
2,4-Dimethylphenol	<0.14		0.36	0.14	mg/Kg	☼	08/14/20 06:11	08/14/20 18:14	1
Dimethyl phthalate	<0.047		0.18	0.047	mg/Kg	☼	08/14/20 06:11	08/14/20 18:14	1
Di-n-butyl phthalate	<0.055		0.18	0.055	mg/Kg	☼	08/14/20 06:11	08/14/20 18:14	1
4,6-Dinitro-2-methylphenol	<0.29		0.73	0.29	mg/Kg	☼	08/14/20 06:11	08/14/20 18:14	1
2,4-Dinitrophenol	<0.64		0.73	0.64	mg/Kg	☼	08/14/20 06:11	08/14/20 18:14	1
2,4-Dinitrotoluene	<0.058		0.18	0.058	mg/Kg	☼	08/14/20 06:11	08/14/20 18:14	1
2,6-Dinitrotoluene	<0.071		0.18	0.071	mg/Kg	☼	08/14/20 06:11	08/14/20 18:14	1
Di-n-octyl phthalate	<0.059		0.18	0.059	mg/Kg	☼	08/14/20 06:11	08/14/20 18:14	1
Fluoranthene	<0.0067		0.036	0.0067	mg/Kg	☼	08/14/20 06:11	08/14/20 18:14	1
Fluorene	<0.0051		0.036	0.0051	mg/Kg	☼	08/14/20 06:11	08/14/20 18:14	1
Hexachlorobenzene	<0.0084		0.073	0.0084	mg/Kg	☼	08/14/20 06:11	08/14/20 18:14	1
Hexachlorobutadiene	<0.057		0.18	0.057	mg/Kg	☼	08/14/20 06:11	08/14/20 18:14	1
Hexachlorocyclopentadiene	<0.21		0.73	0.21	mg/Kg	☼	08/14/20 06:11	08/14/20 18:14	1
Hexachloroethane	<0.055		0.18	0.055	mg/Kg	☼	08/14/20 06:11	08/14/20 18:14	1
Indeno[1,2,3-cd]pyrene	<0.0094		0.036	0.0094	mg/Kg	☼	08/14/20 06:11	08/14/20 18:14	1
Isophorone	<0.041		0.18	0.041	mg/Kg	☼	08/14/20 06:11	08/14/20 18:14	1
2-Methylnaphthalene	<0.0067		0.073	0.0067	mg/Kg	☼	08/14/20 06:11	08/14/20 18:14	1
2-Methylphenol	<0.058		0.18	0.058	mg/Kg	☼	08/14/20 06:11	08/14/20 18:14	1
3 & 4 Methylphenol	<0.060		0.18	0.060	mg/Kg	☼	08/14/20 06:11	08/14/20 18:14	1
Naphthalene	<0.0056		0.036	0.0056	mg/Kg	☼	08/14/20 06:11	08/14/20 18:14	1
2-Nitroaniline	<0.049		0.18	0.049	mg/Kg	☼	08/14/20 06:11	08/14/20 18:14	1
3-Nitroaniline	<0.11		0.36	0.11	mg/Kg	☼	08/14/20 06:11	08/14/20 18:14	1
4-Nitroaniline	<0.15		0.36	0.15	mg/Kg	☼	08/14/20 06:11	08/14/20 18:14	1
Nitrobenzene	<0.0090		0.036	0.0090	mg/Kg	☼	08/14/20 06:11	08/14/20 18:14	1
2-Nitrophenol	<0.086		0.36	0.086	mg/Kg	☼	08/14/20 06:11	08/14/20 18:14	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185875-1

Client Sample ID: 2412V2-16-B01 (5-7.5)

Lab Sample ID: 500-185875-2

Date Collected: 08/03/20 12:00

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 90.1

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	☼	08/14/20 06:11	08/14/20 18:14	1
N-Nitrosodi-n-propylamine	<0.044		0.073	0.044	mg/Kg	☼	08/14/20 06:11	08/14/20 18:14	1
N-Nitrosodiphenylamine	<0.043		0.18	0.043	mg/Kg	☼	08/14/20 06:11	08/14/20 18:14	1
2,2'-oxybis[1-chloropropane]	<0.042		0.18	0.042	mg/Kg	☼	08/14/20 06:11	08/14/20 18:14	1
Pentachlorophenol	<0.58		0.73	0.58	mg/Kg	☼	08/14/20 06:11	08/14/20 18:14	1
Phenanthrene	<0.0051		0.036	0.0051	mg/Kg	☼	08/14/20 06:11	08/14/20 18:14	1
Phenol	<0.081		0.18	0.081	mg/Kg	☼	08/14/20 06:11	08/14/20 18:14	1
Pyrene	<0.0072		0.036	0.0072	mg/Kg	☼	08/14/20 06:11	08/14/20 18:14	1
1,2,4-Trichlorobenzene	<0.039		0.18	0.039	mg/Kg	☼	08/14/20 06:11	08/14/20 18:14	1
2,4,5-Trichlorophenol	<0.083		0.36	0.083	mg/Kg	☼	08/14/20 06:11	08/14/20 18:14	1
2,4,6-Trichlorophenol	<0.12		0.36	0.12	mg/Kg	☼	08/14/20 06:11	08/14/20 18:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	91		43 - 145				08/14/20 06:11	08/14/20 18:14	1
2-Fluorophenol	79		31 - 166				08/14/20 06:11	08/14/20 18:14	1
Nitrobenzene-d5	72		37 - 147				08/14/20 06:11	08/14/20 18:14	1
Phenol-d5	67		30 - 153				08/14/20 06:11	08/14/20 18:14	1
Terphenyl-d14	105		42 - 157				08/14/20 06:11	08/14/20 18:14	1
2,4,6-Tribromophenol	123		31 - 143				08/14/20 06:11	08/14/20 18:14	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.20		1.0	0.20	mg/Kg	☼	08/11/20 06:38	08/11/20 23:33	1
Arsenic	3.0		0.52	0.18	mg/Kg	☼	08/11/20 06:38	08/11/20 23:33	1
Barium	15		0.52	0.059	mg/Kg	☼	08/11/20 06:38	08/11/20 23:33	1
Beryllium	0.20	J	0.21	0.048	mg/Kg	☼	08/11/20 06:38	08/11/20 23:33	1
Cadmium	0.069	J B	0.10	0.019	mg/Kg	☼	08/11/20 06:38	08/11/20 23:33	1
Chromium	5.8		0.52	0.26	mg/Kg	☼	08/11/20 06:38	08/11/20 23:33	1
Cobalt	3.0		0.26	0.068	mg/Kg	☼	08/11/20 06:38	08/11/20 23:33	1
Copper	6.8		0.52	0.14	mg/Kg	☼	08/11/20 06:38	08/11/20 23:33	1
Iron	6300		10	5.4	mg/Kg	☼	08/11/20 06:38	08/11/20 23:33	1
Lead	4.7		0.26	0.12	mg/Kg	☼	08/11/20 06:38	08/11/20 23:33	1
Magnesium	20000		5.2	2.6	mg/Kg	☼	08/11/20 06:38	08/11/20 23:33	1
Calcium	45000		100	17	mg/Kg	☼	08/11/20 06:38	08/12/20 12:22	10
Manganese	230		0.52	0.075	mg/Kg	☼	08/11/20 06:38	08/11/20 23:33	1
Nickel	7.2		0.52	0.15	mg/Kg	☼	08/11/20 06:38	08/11/20 23:33	1
Selenium	<0.30		0.52	0.30	mg/Kg	☼	08/11/20 06:38	08/11/20 23:33	1
Silver	<0.067		0.26	0.067	mg/Kg	☼	08/11/20 06:38	08/11/20 23:33	1
Thallium	<0.26		0.52	0.26	mg/Kg	☼	08/11/20 06:38	08/11/20 23:33	1
Vanadium	11		0.26	0.061	mg/Kg	☼	08/11/20 06:38	08/11/20 23:33	1
Zinc	20		1.0	0.45	mg/Kg	☼	08/11/20 06:38	08/11/20 23:33	1
Potassium	580		26	9.1	mg/Kg	☼	08/11/20 06:38	08/11/20 23:33	1
Sodium	130		52	7.6	mg/Kg	☼	08/11/20 06:38	08/11/20 23:33	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/13/20 17:10	08/14/20 03:34	1
Barium	0.18	J	0.50	0.050	mg/L		08/13/20 17:10	08/14/20 03:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/13/20 17:10	08/14/20 03:34	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/13/20 17:10	08/14/20 03:34	1

Eurolins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185875-1

Client Sample ID: 2412V2-16-B01 (5-7.5)

Lab Sample ID: 500-185875-2

Date Collected: 08/03/20 12:00

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 90.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	310		5.0	0.50	mg/L		08/13/20 17:10	08/14/20 03:34	1
Chromium	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 03:34	1
Cobalt	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 03:34	1
Copper	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 03:34	1
Iron	<0.20		0.40	0.20	mg/L		08/13/20 17:10	08/14/20 03:34	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/13/20 17:10	08/14/20 03:34	1
Magnesium	180		2.5	0.50	mg/L		08/13/20 17:10	08/14/20 03:34	1
Manganese	1.1		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 03:34	1
Nickel	0.014	J	0.025	0.010	mg/L		08/13/20 17:10	08/14/20 03:34	1
Potassium	1.3	J	2.5	0.50	mg/L		08/13/20 17:10	08/14/20 03:34	1
Selenium	<0.020		0.050	0.020	mg/L		08/13/20 17:10	08/14/20 03:34	1
Silver	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 03:34	1
Vanadium	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 03:34	1
Zinc	<0.020		0.50	0.020	mg/L		08/13/20 17:10	08/14/20 03:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.29		0.025	0.010	mg/L		08/14/20 05:58	08/16/20 22:56	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		08/13/20 17:10	08/14/20 09:08	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/13/20 17:10	08/14/20 09:08	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		08/13/20 14:20	08/14/20 11:01	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.010	J	0.018	0.0060	mg/Kg	☼	08/11/20 14:25	08/12/20 08:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.11		0.23	0.11	mg/Kg	☼	08/14/20 13:10	08/17/20 10:41	1
pH	8.9		0.2	0.2	SU			08/06/20 19:03	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185875-1

Client Sample ID: 2412V2-16-B02 (0-5)

Lab Sample ID: 500-185875-3

Date Collected: 08/03/20 12:20

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0069		0.016	0.0069	mg/Kg	☼	08/04/20 17:04	08/12/20 15:32	1
Benzene	<0.00040		0.0016	0.00040	mg/Kg	☼	08/04/20 17:04	08/12/20 15:32	1
Bromodichloromethane	<0.00032		0.0016	0.00032	mg/Kg	☼	08/04/20 17:04	08/12/20 15:32	1
Bromoform	<0.00046		0.0016	0.00046	mg/Kg	☼	08/04/20 17:04	08/12/20 15:32	1
Bromomethane	<0.0015 *		0.0040	0.0015	mg/Kg	☼	08/04/20 17:04	08/12/20 15:32	1
2-Butanone (MEK)	<0.0018		0.0040	0.0018	mg/Kg	☼	08/04/20 17:04	08/12/20 15:32	1
Carbon disulfide	<0.00082		0.0040	0.00082	mg/Kg	☼	08/04/20 17:04	08/12/20 15:32	1
Carbon tetrachloride	<0.00046		0.0016	0.00046	mg/Kg	☼	08/04/20 17:04	08/12/20 15:32	1
Chlorobenzene	<0.00058		0.0016	0.00058	mg/Kg	☼	08/04/20 17:04	08/12/20 15:32	1
Chloroethane	<0.0012		0.0040	0.0012	mg/Kg	☼	08/04/20 17:04	08/12/20 15:32	1
Chloroform	<0.00055		0.0016	0.00055	mg/Kg	☼	08/04/20 17:04	08/12/20 15:32	1
Chloromethane	<0.0016 *		0.0040	0.0016	mg/Kg	☼	08/04/20 17:04	08/12/20 15:32	1
cis-1,2-Dichloroethene	<0.00044		0.0016	0.00044	mg/Kg	☼	08/04/20 17:04	08/12/20 15:32	1
cis-1,3-Dichloropropene	<0.00048		0.0016	0.00048	mg/Kg	☼	08/04/20 17:04	08/12/20 15:32	1
Dibromochloromethane	<0.00052		0.0016	0.00052	mg/Kg	☼	08/04/20 17:04	08/12/20 15:32	1
1,1-Dichloroethane	<0.00054		0.0016	0.00054	mg/Kg	☼	08/04/20 17:04	08/12/20 15:32	1
1,2-Dichloroethane	<0.0012		0.0040	0.0012	mg/Kg	☼	08/04/20 17:04	08/12/20 15:32	1
1,1-Dichloroethene	<0.00054		0.0016	0.00054	mg/Kg	☼	08/04/20 17:04	08/12/20 15:32	1
1,2-Dichloropropene	<0.00041		0.0016	0.00041	mg/Kg	☼	08/04/20 17:04	08/12/20 15:32	1
1,3-Dichloropropene, Total	<0.00056		0.0016	0.00056	mg/Kg	☼	08/04/20 17:04	08/12/20 15:32	1
Ethylbenzene	<0.00076		0.0016	0.00076	mg/Kg	☼	08/04/20 17:04	08/12/20 15:32	1
2-Hexanone	<0.0012		0.0040	0.0012	mg/Kg	☼	08/04/20 17:04	08/12/20 15:32	1
Methylene Chloride	<0.0016		0.0040	0.0016	mg/Kg	☼	08/04/20 17:04	08/12/20 15:32	1
4-Methyl-2-pentanone (MIBK)	<0.0012		0.0040	0.0012	mg/Kg	☼	08/04/20 17:04	08/12/20 15:32	1
Methyl tert-butyl ether	<0.00046		0.0016	0.00046	mg/Kg	☼	08/04/20 17:04	08/12/20 15:32	1
Styrene	<0.00048		0.0016	0.00048	mg/Kg	☼	08/04/20 17:04	08/12/20 15:32	1
1,1,2,2-Tetrachloroethane	<0.00051		0.0016	0.00051	mg/Kg	☼	08/04/20 17:04	08/12/20 15:32	1
Tetrachloroethene	<0.00054		0.0016	0.00054	mg/Kg	☼	08/04/20 17:04	08/12/20 15:32	1
Toluene	<0.00040		0.0016	0.00040	mg/Kg	☼	08/04/20 17:04	08/12/20 15:32	1
trans-1,2-Dichloroethene	<0.00070		0.0016	0.00070	mg/Kg	☼	08/04/20 17:04	08/12/20 15:32	1
trans-1,3-Dichloropropene	<0.00056		0.0016	0.00056	mg/Kg	☼	08/04/20 17:04	08/12/20 15:32	1
1,1,1-Trichloroethane	<0.00053		0.0016	0.00053	mg/Kg	☼	08/04/20 17:04	08/12/20 15:32	1
1,1,2-Trichloroethane	<0.00068		0.0016	0.00068	mg/Kg	☼	08/04/20 17:04	08/12/20 15:32	1
Trichloroethene	<0.00054		0.0016	0.00054	mg/Kg	☼	08/04/20 17:04	08/12/20 15:32	1
Vinyl acetate	<0.0014		0.0040	0.0014	mg/Kg	☼	08/04/20 17:04	08/12/20 15:32	1
Vinyl chloride	<0.00070		0.0016	0.00070	mg/Kg	☼	08/04/20 17:04	08/12/20 15:32	1
Xylenes, Total	<0.00051		0.0032	0.00051	mg/Kg	☼	08/04/20 17:04	08/12/20 15:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		75 - 131	08/04/20 17:04	08/12/20 15:32	1
Dibromofluoromethane	90		75 - 126	08/04/20 17:04	08/12/20 15:32	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	08/04/20 17:04	08/12/20 15:32	1
Toluene-d8 (Surr)	91		75 - 124	08/04/20 17:04	08/12/20 15:32	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	☼	08/14/20 06:11	08/14/20 18:38	1
Acenaphthylene	<0.0050		0.038	0.0050	mg/Kg	☼	08/14/20 06:11	08/14/20 18:38	1
Anthracene	<0.0063		0.038	0.0063	mg/Kg	☼	08/14/20 06:11	08/14/20 18:38	1
Benzo[a]anthracene	0.014	J	0.038	0.0051	mg/Kg	☼	08/14/20 06:11	08/14/20 18:38	1

Eurolins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185875-1

Client Sample ID: 2412V2-16-B02 (0-5)

Lab Sample ID: 500-185875-3

Date Collected: 08/03/20 12:20

Matrix: Solid

Date Received: 08/03/20 18:25

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	0.016	J	0.038	0.0073	mg/Kg	☼	08/14/20 06:11	08/14/20 18:38	1
Benzo[b]fluoranthene	0.018	J	0.038	0.0082	mg/Kg	☼	08/14/20 06:11	08/14/20 18:38	1
Benzo[g,h,i]perylene	0.018	J	0.038	0.012	mg/Kg	☼	08/14/20 06:11	08/14/20 18:38	1
Benzo[k]fluoranthene	0.020	J	0.038	0.011	mg/Kg	☼	08/14/20 06:11	08/14/20 18:38	1
Bis(2-chloroethoxy)methane	<0.039		0.19	0.039	mg/Kg	☼	08/14/20 06:11	08/14/20 18:38	1
Bis(2-chloroethyl)ether	<0.057		0.19	0.057	mg/Kg	☼	08/14/20 06:11	08/14/20 18:38	1
Bis(2-ethylhexyl) phthalate	<0.069		0.19	0.069	mg/Kg	☼	08/14/20 06:11	08/14/20 18:38	1
4-Bromophenyl phenyl ether	<0.050		0.19	0.050	mg/Kg	☼	08/14/20 06:11	08/14/20 18:38	1
Butyl benzyl phthalate	<0.072		0.19	0.072	mg/Kg	☼	08/14/20 06:11	08/14/20 18:38	1
Carbazole	<0.094		0.19	0.094	mg/Kg	☼	08/14/20 06:11	08/14/20 18:38	1
4-Chloroaniline	<0.18		0.76	0.18	mg/Kg	☼	08/14/20 06:11	08/14/20 18:38	1
4-Chloro-3-methylphenol	<0.13		0.38	0.13	mg/Kg	☼	08/14/20 06:11	08/14/20 18:38	1
2-Chloronaphthalene	<0.042		0.19	0.042	mg/Kg	☼	08/14/20 06:11	08/14/20 18:38	1
2-Chlorophenol	<0.064		0.19	0.064	mg/Kg	☼	08/14/20 06:11	08/14/20 18:38	1
4-Chlorophenyl phenyl ether	<0.044		0.19	0.044	mg/Kg	☼	08/14/20 06:11	08/14/20 18:38	1
Chrysene	0.022	J	0.038	0.010	mg/Kg	☼	08/14/20 06:11	08/14/20 18:38	1
Dibenz(a,h)anthracene	<0.0073		0.038	0.0073	mg/Kg	☼	08/14/20 06:11	08/14/20 18:38	1
Dibenzofuran	<0.044		0.19	0.044	mg/Kg	☼	08/14/20 06:11	08/14/20 18:38	1
1,2-Dichlorobenzene	<0.045		0.19	0.045	mg/Kg	☼	08/14/20 06:11	08/14/20 18:38	1
1,3-Dichlorobenzene	<0.043		0.19	0.043	mg/Kg	☼	08/14/20 06:11	08/14/20 18:38	1
1,4-Dichlorobenzene	<0.048		0.19	0.048	mg/Kg	☼	08/14/20 06:11	08/14/20 18:38	1
3,3'-Dichlorobenzidine	<0.053		0.19	0.053	mg/Kg	☼	08/14/20 06:11	08/14/20 18:38	1
2,4-Dichlorophenol	<0.090		0.38	0.090	mg/Kg	☼	08/14/20 06:11	08/14/20 18:38	1
Diethyl phthalate	<0.064		0.19	0.064	mg/Kg	☼	08/14/20 06:11	08/14/20 18:38	1
2,4-Dimethylphenol	<0.14		0.38	0.14	mg/Kg	☼	08/14/20 06:11	08/14/20 18:38	1
Dimethyl phthalate	<0.049		0.19	0.049	mg/Kg	☼	08/14/20 06:11	08/14/20 18:38	1
Di-n-butyl phthalate	<0.058		0.19	0.058	mg/Kg	☼	08/14/20 06:11	08/14/20 18:38	1
4,6-Dinitro-2-methylphenol	<0.30		0.76	0.30	mg/Kg	☼	08/14/20 06:11	08/14/20 18:38	1
2,4-Dinitrophenol	<0.67		0.76	0.67	mg/Kg	☼	08/14/20 06:11	08/14/20 18:38	1
2,4-Dinitrotoluene	<0.060		0.19	0.060	mg/Kg	☼	08/14/20 06:11	08/14/20 18:38	1
2,6-Dinitrotoluene	<0.074		0.19	0.074	mg/Kg	☼	08/14/20 06:11	08/14/20 18:38	1
Di-n-octyl phthalate	<0.062		0.19	0.062	mg/Kg	☼	08/14/20 06:11	08/14/20 18:38	1
Fluoranthene	0.031	J	0.038	0.0070	mg/Kg	☼	08/14/20 06:11	08/14/20 18:38	1
Fluorene	<0.0053		0.038	0.0053	mg/Kg	☼	08/14/20 06:11	08/14/20 18:38	1
Hexachlorobenzene	<0.0088		0.076	0.0088	mg/Kg	☼	08/14/20 06:11	08/14/20 18:38	1
Hexachlorobutadiene	<0.059		0.19	0.059	mg/Kg	☼	08/14/20 06:11	08/14/20 18:38	1
Hexachlorocyclopentadiene	<0.22		0.76	0.22	mg/Kg	☼	08/14/20 06:11	08/14/20 18:38	1
Hexachloroethane	<0.057		0.19	0.057	mg/Kg	☼	08/14/20 06:11	08/14/20 18:38	1
Indeno[1,2,3-cd]pyrene	0.014	J	0.038	0.0098	mg/Kg	☼	08/14/20 06:11	08/14/20 18:38	1
Isophorone	<0.042		0.19	0.042	mg/Kg	☼	08/14/20 06:11	08/14/20 18:38	1
2-Methylnaphthalene	<0.0069		0.076	0.0069	mg/Kg	☼	08/14/20 06:11	08/14/20 18:38	1
2-Methylphenol	<0.061		0.19	0.061	mg/Kg	☼	08/14/20 06:11	08/14/20 18:38	1
3 & 4 Methylphenol	<0.063		0.19	0.063	mg/Kg	☼	08/14/20 06:11	08/14/20 18:38	1
Naphthalene	<0.0058		0.038	0.0058	mg/Kg	☼	08/14/20 06:11	08/14/20 18:38	1
2-Nitroaniline	<0.051		0.19	0.051	mg/Kg	☼	08/14/20 06:11	08/14/20 18:38	1
3-Nitroaniline	<0.12		0.38	0.12	mg/Kg	☼	08/14/20 06:11	08/14/20 18:38	1
4-Nitroaniline	<0.16		0.38	0.16	mg/Kg	☼	08/14/20 06:11	08/14/20 18:38	1
Nitrobenzene	<0.0094		0.038	0.0094	mg/Kg	☼	08/14/20 06:11	08/14/20 18:38	1
2-Nitrophenol	<0.089		0.38	0.089	mg/Kg	☼	08/14/20 06:11	08/14/20 18:38	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185875-1

Client Sample ID: 2412V2-16-B02 (0-5)

Lab Sample ID: 500-185875-3

Date Collected: 08/03/20 12:20

Matrix: Solid

Date Received: 08/03/20 18:25

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	<0.36		0.76	0.36	mg/Kg	☼	08/14/20 06:11	08/14/20 18:38	1
N-Nitrosodi-n-propylamine	<0.046		0.076	0.046	mg/Kg	☼	08/14/20 06:11	08/14/20 18:38	1
N-Nitrosodiphenylamine	<0.045		0.19	0.045	mg/Kg	☼	08/14/20 06:11	08/14/20 18:38	1
2,2'-oxybis[1-chloropropane]	<0.044		0.19	0.044	mg/Kg	☼	08/14/20 06:11	08/14/20 18:38	1
Pentachlorophenol	<0.61		0.76	0.61	mg/Kg	☼	08/14/20 06:11	08/14/20 18:38	1
Phenanthrene	0.016	J	0.038	0.0053	mg/Kg	☼	08/14/20 06:11	08/14/20 18:38	1
Phenol	<0.084		0.19	0.084	mg/Kg	☼	08/14/20 06:11	08/14/20 18:38	1
Pyrene	0.032	J	0.038	0.0075	mg/Kg	☼	08/14/20 06:11	08/14/20 18:38	1
1,2,4-Trichlorobenzene	<0.041		0.19	0.041	mg/Kg	☼	08/14/20 06:11	08/14/20 18:38	1
2,4,5-Trichlorophenol	<0.086		0.38	0.086	mg/Kg	☼	08/14/20 06:11	08/14/20 18:38	1
2,4,6-Trichlorophenol	<0.13		0.38	0.13	mg/Kg	☼	08/14/20 06:11	08/14/20 18:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	70		43 - 145				08/14/20 06:11	08/14/20 18:38	1
2-Fluorophenol	51		31 - 166				08/14/20 06:11	08/14/20 18:38	1
Nitrobenzene-d5	47		37 - 147				08/14/20 06:11	08/14/20 18:38	1
Phenol-d5	42		30 - 153				08/14/20 06:11	08/14/20 18:38	1
Terphenyl-d14	94		42 - 157				08/14/20 06:11	08/14/20 18:38	1
2,4,6-Tribromophenol	115		31 - 143				08/14/20 06:11	08/14/20 18:38	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	☼	08/11/20 06:38	08/11/20 23:37	1
Arsenic	5.6		0.55	0.19	mg/Kg	☼	08/11/20 06:38	08/11/20 23:37	1
Barium	74		0.55	0.063	mg/Kg	☼	08/11/20 06:38	08/11/20 23:37	1
Beryllium	0.51		0.22	0.052	mg/Kg	☼	08/11/20 06:38	08/11/20 23:37	1
Cadmium	0.16	B	0.11	0.020	mg/Kg	☼	08/11/20 06:38	08/11/20 23:37	1
Chromium	13		0.55	0.27	mg/Kg	☼	08/11/20 06:38	08/11/20 23:37	1
Cobalt	6.8		0.28	0.073	mg/Kg	☼	08/11/20 06:38	08/11/20 23:37	1
Copper	11		0.55	0.16	mg/Kg	☼	08/11/20 06:38	08/11/20 23:37	1
Iron	13000		11	5.8	mg/Kg	☼	08/11/20 06:38	08/11/20 23:37	1
Lead	29		0.28	0.13	mg/Kg	☼	08/11/20 06:38	08/11/20 23:37	1
Magnesium	8600		5.5	2.7	mg/Kg	☼	08/11/20 06:38	08/11/20 23:37	1
Calcium	14000		11	1.9	mg/Kg	☼	08/11/20 06:38	08/11/20 23:37	1
Manganese	490		0.55	0.080	mg/Kg	☼	08/11/20 06:38	08/11/20 23:37	1
Nickel	15		0.55	0.16	mg/Kg	☼	08/11/20 06:38	08/11/20 23:37	1
Selenium	0.40	J	0.55	0.33	mg/Kg	☼	08/11/20 06:38	08/11/20 23:37	1
Silver	<0.071		0.28	0.071	mg/Kg	☼	08/11/20 06:38	08/11/20 23:37	1
Thallium	0.36	J	0.55	0.28	mg/Kg	☼	08/11/20 06:38	08/11/20 23:37	1
Vanadium	22		0.28	0.065	mg/Kg	☼	08/11/20 06:38	08/11/20 23:37	1
Zinc	64		1.1	0.49	mg/Kg	☼	08/11/20 06:38	08/11/20 23:37	1
Potassium	1100		28	9.8	mg/Kg	☼	08/11/20 06:38	08/11/20 23:37	1
Sodium	1400		55	8.2	mg/Kg	☼	08/11/20 06:38	08/11/20 23:37	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/13/20 17:10	08/14/20 04:03	1
Barium	0.51		0.50	0.050	mg/L		08/13/20 17:10	08/14/20 04:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/13/20 17:10	08/14/20 04:03	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/13/20 17:10	08/14/20 04:03	1

Eurolins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185875-1

Client Sample ID: 2412V2-16-B02 (0-5)

Lab Sample ID: 500-185875-3

Date Collected: 08/03/20 12:20

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	340		5.0	0.50	mg/L		08/13/20 17:10	08/14/20 04:03	1
Chromium	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 04:03	1
Cobalt	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 04:03	1
Copper	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 04:03	1
Iron	<0.20		0.40	0.20	mg/L		08/13/20 17:10	08/14/20 04:03	1
Lead	0.0079		0.0075	0.0075	mg/L		08/13/20 17:10	08/14/20 04:03	1
Magnesium	160		2.5	0.50	mg/L		08/13/20 17:10	08/14/20 04:03	1
Manganese	1.1		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 04:03	1
Nickel	0.012	J	0.025	0.010	mg/L		08/13/20 17:10	08/14/20 04:03	1
Potassium	1.6	J	2.5	0.50	mg/L		08/13/20 17:10	08/14/20 04:03	1
Selenium	<0.020		0.050	0.020	mg/L		08/13/20 17:10	08/14/20 04:03	1
Silver	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 04:03	1
Vanadium	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 04:03	1
Zinc	0.094	J ^	0.50	0.020	mg/L		08/13/20 17:10	08/14/20 04:03	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.32		0.0075	0.0075	mg/L		08/14/20 05:58	08/16/20 23:00	1
Manganese	1.8		0.025	0.010	mg/L		08/14/20 05:58	08/16/20 23:00	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		08/13/20 17:10	08/14/20 09:10	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/13/20 17:10	08/14/20 09:10	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/13/20 14:20	08/14/20 11:03	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	☼	08/11/20 14:25	08/12/20 09:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.30	J	0.35	0.17	mg/Kg	☼	08/14/20 13:10	08/17/20 10:43	1
pH	8.6		0.2	0.2	SU			08/06/20 19:08	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185875-1

Client Sample ID: 2412V2-16-B02 (5-7.5)

Lab Sample ID: 500-185875-4

Date Collected: 08/03/20 12:25

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 87.0

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	☼	08/04/20 17:04	08/12/20 15:57	1
Benzene	<0.00039		0.0015	0.00039	mg/Kg	☼	08/04/20 17:04	08/12/20 15:57	1
Bromodichloromethane	<0.00031		0.0015	0.00031	mg/Kg	☼	08/04/20 17:04	08/12/20 15:57	1
Bromoform	<0.00045		0.0015	0.00045	mg/Kg	☼	08/04/20 17:04	08/12/20 15:57	1
Bromomethane	<0.0015	*	0.0039	0.0015	mg/Kg	☼	08/04/20 17:04	08/12/20 15:57	1
2-Butanone (MEK)	<0.0017		0.0039	0.0017	mg/Kg	☼	08/04/20 17:04	08/12/20 15:57	1
Carbon disulfide	<0.00080		0.0039	0.00080	mg/Kg	☼	08/04/20 17:04	08/12/20 15:57	1
Carbon tetrachloride	<0.00045		0.0015	0.00045	mg/Kg	☼	08/04/20 17:04	08/12/20 15:57	1
Chlorobenzene	<0.00057		0.0015	0.00057	mg/Kg	☼	08/04/20 17:04	08/12/20 15:57	1
Chloroethane	<0.0011		0.0039	0.0011	mg/Kg	☼	08/04/20 17:04	08/12/20 15:57	1
Chloroform	<0.00054		0.0015	0.00054	mg/Kg	☼	08/04/20 17:04	08/12/20 15:57	1
Chloromethane	<0.0015	*	0.0039	0.0015	mg/Kg	☼	08/04/20 17:04	08/12/20 15:57	1
cis-1,2-Dichloroethene	<0.00043		0.0015	0.00043	mg/Kg	☼	08/04/20 17:04	08/12/20 15:57	1
cis-1,3-Dichloropropene	<0.00046		0.0015	0.00046	mg/Kg	☼	08/04/20 17:04	08/12/20 15:57	1
Dibromochloromethane	<0.00050		0.0015	0.00050	mg/Kg	☼	08/04/20 17:04	08/12/20 15:57	1
1,1-Dichloroethane	<0.00053		0.0015	0.00053	mg/Kg	☼	08/04/20 17:04	08/12/20 15:57	1
1,2-Dichloroethane	<0.0012		0.0039	0.0012	mg/Kg	☼	08/04/20 17:04	08/12/20 15:57	1
1,1-Dichloroethene	<0.00053		0.0015	0.00053	mg/Kg	☼	08/04/20 17:04	08/12/20 15:57	1
1,2-Dichloropropane	<0.00040		0.0015	0.00040	mg/Kg	☼	08/04/20 17:04	08/12/20 15:57	1
1,3-Dichloropropane, Total	<0.00054		0.0015	0.00054	mg/Kg	☼	08/04/20 17:04	08/12/20 15:57	1
Ethylbenzene	<0.00074		0.0015	0.00074	mg/Kg	☼	08/04/20 17:04	08/12/20 15:57	1
2-Hexanone	<0.0012		0.0039	0.0012	mg/Kg	☼	08/04/20 17:04	08/12/20 15:57	1
Methylene Chloride	<0.0015		0.0039	0.0015	mg/Kg	☼	08/04/20 17:04	08/12/20 15:57	1
4-Methyl-2-pentanone (MIBK)	<0.0011		0.0039	0.0011	mg/Kg	☼	08/04/20 17:04	08/12/20 15:57	1
Methyl tert-butyl ether	<0.00045		0.0015	0.00045	mg/Kg	☼	08/04/20 17:04	08/12/20 15:57	1
Styrene	<0.00047		0.0015	0.00047	mg/Kg	☼	08/04/20 17:04	08/12/20 15:57	1
1,1,2,2-Tetrachloroethane	<0.00049		0.0015	0.00049	mg/Kg	☼	08/04/20 17:04	08/12/20 15:57	1
Tetrachloroethene	<0.00053		0.0015	0.00053	mg/Kg	☼	08/04/20 17:04	08/12/20 15:57	1
Toluene	<0.00039		0.0015	0.00039	mg/Kg	☼	08/04/20 17:04	08/12/20 15:57	1
trans-1,2-Dichloroethene	<0.00068		0.0015	0.00068	mg/Kg	☼	08/04/20 17:04	08/12/20 15:57	1
trans-1,3-Dichloropropene	<0.00054		0.0015	0.00054	mg/Kg	☼	08/04/20 17:04	08/12/20 15:57	1
1,1,1-Trichloroethane	<0.00052		0.0015	0.00052	mg/Kg	☼	08/04/20 17:04	08/12/20 15:57	1
1,1,2-Trichloroethane	<0.00066		0.0015	0.00066	mg/Kg	☼	08/04/20 17:04	08/12/20 15:57	1
Trichloroethene	<0.00052		0.0015	0.00052	mg/Kg	☼	08/04/20 17:04	08/12/20 15:57	1
Vinyl acetate	<0.0013		0.0039	0.0013	mg/Kg	☼	08/04/20 17:04	08/12/20 15:57	1
Vinyl chloride	<0.00068		0.0015	0.00068	mg/Kg	☼	08/04/20 17:04	08/12/20 15:57	1
Xylenes, Total	<0.00049		0.0031	0.00049	mg/Kg	☼	08/04/20 17:04	08/12/20 15:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		75 - 131	08/04/20 17:04	08/12/20 15:57	1
Dibromofluoromethane	88		75 - 126	08/04/20 17:04	08/12/20 15:57	1
1,2-Dichloroethane-d4 (Surr)	85		70 - 134	08/04/20 17:04	08/12/20 15:57	1
Toluene-d8 (Surr)	92		75 - 124	08/04/20 17:04	08/12/20 15:57	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	☼	08/14/20 06:11	08/14/20 19:01	1
Acenaphthylene	<0.0050		0.037	0.0050	mg/Kg	☼	08/14/20 06:11	08/14/20 19:01	1
Anthracene	<0.0063		0.037	0.0063	mg/Kg	☼	08/14/20 06:11	08/14/20 19:01	1
Benzo[a]anthracene	0.0055	J	0.037	0.0051	mg/Kg	☼	08/14/20 06:11	08/14/20 19:01	1

Eurolins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185875-1

Client Sample ID: 2412V2-16-B02 (5-7.5)

Lab Sample ID: 500-185875-4

Date Collected: 08/03/20 12:25

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 87.0

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	☼	08/14/20 06:11	08/14/20 19:01	1
Benzo[b]fluoranthene	<0.0081		0.037	0.0081	mg/Kg	☼	08/14/20 06:11	08/14/20 19:01	1
Benzo[g,h,i]perylene	<0.012		0.037	0.012	mg/Kg	☼	08/14/20 06:11	08/14/20 19:01	1
Benzo[k]fluoranthene	<0.011		0.037	0.011	mg/Kg	☼	08/14/20 06:11	08/14/20 19:01	1
Bis(2-chloroethoxy)methane	<0.038		0.19	0.038	mg/Kg	☼	08/14/20 06:11	08/14/20 19:01	1
Bis(2-chloroethyl)ether	<0.057		0.19	0.057	mg/Kg	☼	08/14/20 06:11	08/14/20 19:01	1
Bis(2-ethylhexyl) phthalate	0.073	J	0.19	0.069	mg/Kg	☼	08/14/20 06:11	08/14/20 19:01	1
4-Bromophenyl phenyl ether	<0.050		0.19	0.050	mg/Kg	☼	08/14/20 06:11	08/14/20 19:01	1
Butyl benzyl phthalate	<0.072		0.19	0.072	mg/Kg	☼	08/14/20 06:11	08/14/20 19:01	1
Carbazole	<0.094		0.19	0.094	mg/Kg	☼	08/14/20 06:11	08/14/20 19:01	1
4-Chloroaniline	<0.18		0.76	0.18	mg/Kg	☼	08/14/20 06:11	08/14/20 19:01	1
4-Chloro-3-methylphenol	<0.13		0.37	0.13	mg/Kg	☼	08/14/20 06:11	08/14/20 19:01	1
2-Chloronaphthalene	<0.042		0.19	0.042	mg/Kg	☼	08/14/20 06:11	08/14/20 19:01	1
2-Chlorophenol	<0.064		0.19	0.064	mg/Kg	☼	08/14/20 06:11	08/14/20 19:01	1
4-Chlorophenyl phenyl ether	<0.044		0.19	0.044	mg/Kg	☼	08/14/20 06:11	08/14/20 19:01	1
Chrysene	<0.010		0.037	0.010	mg/Kg	☼	08/14/20 06:11	08/14/20 19:01	1
Dibenz(a,h)anthracene	<0.0073		0.037	0.0073	mg/Kg	☼	08/14/20 06:11	08/14/20 19:01	1
Dibenzofuran	<0.044		0.19	0.044	mg/Kg	☼	08/14/20 06:11	08/14/20 19:01	1
1,2-Dichlorobenzene	<0.045		0.19	0.045	mg/Kg	☼	08/14/20 06:11	08/14/20 19:01	1
1,3-Dichlorobenzene	<0.042		0.19	0.042	mg/Kg	☼	08/14/20 06:11	08/14/20 19:01	1
1,4-Dichlorobenzene	<0.048		0.19	0.048	mg/Kg	☼	08/14/20 06:11	08/14/20 19:01	1
3,3'-Dichlorobenzidine	<0.053		0.19	0.053	mg/Kg	☼	08/14/20 06:11	08/14/20 19:01	1
2,4-Dichlorophenol	<0.090		0.37	0.090	mg/Kg	☼	08/14/20 06:11	08/14/20 19:01	1
Diethyl phthalate	<0.064		0.19	0.064	mg/Kg	☼	08/14/20 06:11	08/14/20 19:01	1
2,4-Dimethylphenol	<0.14		0.37	0.14	mg/Kg	☼	08/14/20 06:11	08/14/20 19:01	1
Dimethyl phthalate	<0.049		0.19	0.049	mg/Kg	☼	08/14/20 06:11	08/14/20 19:01	1
Di-n-butyl phthalate	<0.057		0.19	0.057	mg/Kg	☼	08/14/20 06:11	08/14/20 19:01	1
4,6-Dinitro-2-methylphenol	<0.30		0.76	0.30	mg/Kg	☼	08/14/20 06:11	08/14/20 19:01	1
2,4-Dinitrophenol	<0.66		0.76	0.66	mg/Kg	☼	08/14/20 06:11	08/14/20 19:01	1
2,4-Dinitrotoluene	<0.060		0.19	0.060	mg/Kg	☼	08/14/20 06:11	08/14/20 19:01	1
2,6-Dinitrotoluene	<0.074		0.19	0.074	mg/Kg	☼	08/14/20 06:11	08/14/20 19:01	1
Di-n-octyl phthalate	<0.062		0.19	0.062	mg/Kg	☼	08/14/20 06:11	08/14/20 19:01	1
Fluoranthene	<0.0070		0.037	0.0070	mg/Kg	☼	08/14/20 06:11	08/14/20 19:01	1
Fluorene	<0.0053		0.037	0.0053	mg/Kg	☼	08/14/20 06:11	08/14/20 19:01	1
Hexachlorobenzene	<0.0087		0.076	0.0087	mg/Kg	☼	08/14/20 06:11	08/14/20 19:01	1
Hexachlorobutadiene	<0.059		0.19	0.059	mg/Kg	☼	08/14/20 06:11	08/14/20 19:01	1
Hexachlorocyclopentadiene	<0.22		0.76	0.22	mg/Kg	☼	08/14/20 06:11	08/14/20 19:01	1
Hexachloroethane	<0.057		0.19	0.057	mg/Kg	☼	08/14/20 06:11	08/14/20 19:01	1
Indeno[1,2,3-cd]pyrene	<0.0098		0.037	0.0098	mg/Kg	☼	08/14/20 06:11	08/14/20 19:01	1
Isophorone	<0.042		0.19	0.042	mg/Kg	☼	08/14/20 06:11	08/14/20 19:01	1
2-Methylnaphthalene	<0.0069		0.076	0.0069	mg/Kg	☼	08/14/20 06:11	08/14/20 19:01	1
2-Methylphenol	<0.060		0.19	0.060	mg/Kg	☼	08/14/20 06:11	08/14/20 19:01	1
3 & 4 Methylphenol	<0.063		0.19	0.063	mg/Kg	☼	08/14/20 06:11	08/14/20 19:01	1
Naphthalene	<0.0058		0.037	0.0058	mg/Kg	☼	08/14/20 06:11	08/14/20 19:01	1
2-Nitroaniline	<0.051		0.19	0.051	mg/Kg	☼	08/14/20 06:11	08/14/20 19:01	1
3-Nitroaniline	<0.12		0.37	0.12	mg/Kg	☼	08/14/20 06:11	08/14/20 19:01	1
4-Nitroaniline	<0.16		0.37	0.16	mg/Kg	☼	08/14/20 06:11	08/14/20 19:01	1
Nitrobenzene	<0.0094		0.037	0.0094	mg/Kg	☼	08/14/20 06:11	08/14/20 19:01	1
2-Nitrophenol	<0.089		0.37	0.089	mg/Kg	☼	08/14/20 06:11	08/14/20 19:01	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185875-1

Client Sample ID: 2412V2-16-B02 (5-7.5)

Lab Sample ID: 500-185875-4

Date Collected: 08/03/20 12:25

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 87.0

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	☼	08/14/20 06:11	08/14/20 19:01	1
N-Nitrosodi-n-propylamine	<0.046		0.076	0.046	mg/Kg	☼	08/14/20 06:11	08/14/20 19:01	1
N-Nitrosodiphenylamine	<0.044		0.19	0.044	mg/Kg	☼	08/14/20 06:11	08/14/20 19:01	1
2,2'-oxybis[1-chloropropane]	<0.044		0.19	0.044	mg/Kg	☼	08/14/20 06:11	08/14/20 19:01	1
Pentachlorophenol	<0.60		0.76	0.60	mg/Kg	☼	08/14/20 06:11	08/14/20 19:01	1
Phenanthrene	<0.0053		0.037	0.0053	mg/Kg	☼	08/14/20 06:11	08/14/20 19:01	1
Phenol	<0.084		0.19	0.084	mg/Kg	☼	08/14/20 06:11	08/14/20 19:01	1
Pyrene	<0.0075		0.037	0.0075	mg/Kg	☼	08/14/20 06:11	08/14/20 19:01	1
1,2,4-Trichlorobenzene	<0.041		0.19	0.041	mg/Kg	☼	08/14/20 06:11	08/14/20 19:01	1
2,4,5-Trichlorophenol	<0.086		0.37	0.086	mg/Kg	☼	08/14/20 06:11	08/14/20 19:01	1
2,4,6-Trichlorophenol	<0.13		0.37	0.13	mg/Kg	☼	08/14/20 06:11	08/14/20 19:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	75		43 - 145				08/14/20 06:11	08/14/20 19:01	1
2-Fluorophenol	68		31 - 166				08/14/20 06:11	08/14/20 19:01	1
Nitrobenzene-d5	58		37 - 147				08/14/20 06:11	08/14/20 19:01	1
Phenol-d5	57		30 - 153				08/14/20 06:11	08/14/20 19:01	1
Terphenyl-d14	88		42 - 157				08/14/20 06:11	08/14/20 19:01	1
2,4,6-Tribromophenol	96		31 - 143				08/14/20 06:11	08/14/20 19:01	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.21		1.1	0.21	mg/Kg	☼	08/11/20 06:38	08/11/20 23:41	1
Arsenic	3.7		0.54	0.18	mg/Kg	☼	08/11/20 06:38	08/11/20 23:41	1
Barium	31		0.54	0.061	mg/Kg	☼	08/11/20 06:38	08/11/20 23:41	1
Beryllium	0.40		0.21	0.050	mg/Kg	☼	08/11/20 06:38	08/11/20 23:41	1
Cadmium	0.081	J B	0.11	0.019	mg/Kg	☼	08/11/20 06:38	08/11/20 23:41	1
Chromium	9.7		0.54	0.26	mg/Kg	☼	08/11/20 06:38	08/11/20 23:41	1
Cobalt	3.8		0.27	0.070	mg/Kg	☼	08/11/20 06:38	08/11/20 23:41	1
Copper	7.9		0.54	0.15	mg/Kg	☼	08/11/20 06:38	08/11/20 23:41	1
Iron	9900		11	5.6	mg/Kg	☼	08/11/20 06:38	08/11/20 23:41	1
Lead	11		0.27	0.12	mg/Kg	☼	08/11/20 06:38	08/11/20 23:41	1
Magnesium	21000		5.4	2.7	mg/Kg	☼	08/11/20 06:38	08/11/20 23:41	1
Calcium	32000		11	1.8	mg/Kg	☼	08/11/20 06:38	08/11/20 23:41	1
Manganese	280		0.54	0.078	mg/Kg	☼	08/11/20 06:38	08/11/20 23:41	1
Nickel	10		0.54	0.16	mg/Kg	☼	08/11/20 06:38	08/11/20 23:41	1
Selenium	<0.31		0.54	0.31	mg/Kg	☼	08/11/20 06:38	08/11/20 23:41	1
Silver	<0.069		0.27	0.069	mg/Kg	☼	08/11/20 06:38	08/11/20 23:41	1
Thallium	<0.27		0.54	0.27	mg/Kg	☼	08/11/20 06:38	08/11/20 23:41	1
Vanadium	15		0.27	0.063	mg/Kg	☼	08/11/20 06:38	08/11/20 23:41	1
Zinc	30		1.1	0.47	mg/Kg	☼	08/11/20 06:38	08/11/20 23:41	1
Potassium	1000		27	9.5	mg/Kg	☼	08/11/20 06:38	08/11/20 23:41	1
Sodium	430		54	7.9	mg/Kg	☼	08/11/20 06:38	08/11/20 23:41	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/13/20 17:10	08/14/20 04:07	1
Barium	0.34	J	0.50	0.050	mg/L		08/13/20 17:10	08/14/20 04:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/13/20 17:10	08/14/20 04:07	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/13/20 17:10	08/14/20 04:07	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185875-1

Client Sample ID: 2412V2-16-B02 (5-7.5)

Lab Sample ID: 500-185875-4

Date Collected: 08/03/20 12:25

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 87.0

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		08/13/20 17:10	08/14/20 04:07	1
Chromium	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 04:07	1
Cobalt	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 04:07	1
Copper	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 04:07	1
Iron	<0.20		0.40	0.20	mg/L		08/13/20 17:10	08/14/20 04:07	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/13/20 17:10	08/14/20 04:07	1
Magnesium	180		2.5	0.50	mg/L		08/13/20 17:10	08/14/20 04:07	1
Manganese	0.99		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 04:07	1
Nickel	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 04:07	1
Potassium	1.3 J		2.5	0.50	mg/L		08/13/20 17:10	08/14/20 04:07	1
Selenium	<0.020		0.050	0.020	mg/L		08/13/20 17:10	08/14/20 04:07	1
Silver	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 04:07	1
Vanadium	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 04:07	1
Zinc	0.035 J ^		0.50	0.020	mg/L		08/13/20 17:10	08/14/20 04:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.96		0.025	0.010	mg/L		08/14/20 05:58	08/16/20 23:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/13/20 17:10	08/14/20 09:12	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/13/20 17:10	08/14/20 09:12	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		08/13/20 14:20	08/14/20 11:05	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017 J		0.018	0.0061	mg/Kg	☼	08/11/20 14:25	08/12/20 09:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.13		0.27	0.13	mg/Kg	☼	08/14/20 13:10	08/17/20 10:45	1
pH	8.9		0.2	0.2	SU			08/06/20 19:11	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185875-1

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
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC 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.

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.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185875-1

GC/MS VOA

Analysis Batch: 556446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185875-1	2412V2-16-B01 (0-5)	Total/NA	Solid	8260B	556455
500-185875-2	2412V2-16-B01 (5-7.5)	Total/NA	Solid	8260B	556455
500-185875-3	2412V2-16-B02 (0-5)	Total/NA	Solid	8260B	556455
500-185875-4	2412V2-16-B02 (5-7.5)	Total/NA	Solid	8260B	556455
MB 500-556446/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-556446/4	Lab Control Sample	Total/NA	Solid	8260B	
LCS 500-556446/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

Prep Batch: 556455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185875-1	2412V2-16-B01 (0-5)	Total/NA	Solid	5035	
500-185875-2	2412V2-16-B01 (5-7.5)	Total/NA	Solid	5035	
500-185875-3	2412V2-16-B02 (0-5)	Total/NA	Solid	5035	
500-185875-4	2412V2-16-B02 (5-7.5)	Total/NA	Solid	5035	

GC/MS Semi VOA

Prep Batch: 556799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185875-1	2412V2-16-B01 (0-5)	Total/NA	Solid	3541	
500-185875-2	2412V2-16-B01 (5-7.5)	Total/NA	Solid	3541	
500-185875-3	2412V2-16-B02 (0-5)	Total/NA	Solid	3541	
500-185875-4	2412V2-16-B02 (5-7.5)	Total/NA	Solid	3541	
MB 500-556799/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-556799/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 556853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185875-1	2412V2-16-B01 (0-5)	Total/NA	Solid	8270D	556799
500-185875-2	2412V2-16-B01 (5-7.5)	Total/NA	Solid	8270D	556799
500-185875-3	2412V2-16-B02 (0-5)	Total/NA	Solid	8270D	556799
500-185875-4	2412V2-16-B02 (5-7.5)	Total/NA	Solid	8270D	556799

Analysis Batch: 556958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-556799/1-A	Method Blank	Total/NA	Solid	8270D	556799
LCS 500-556799/2-A	Lab Control Sample	Total/NA	Solid	8270D	556799

Metals

Prep Batch: 556177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185875-1	2412V2-16-B01 (0-5)	Total/NA	Solid	3050B	
500-185875-2	2412V2-16-B01 (5-7.5)	Total/NA	Solid	3050B	
500-185875-3	2412V2-16-B02 (0-5)	Total/NA	Solid	3050B	
500-185875-4	2412V2-16-B02 (5-7.5)	Total/NA	Solid	3050B	
MB 500-556177/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-556177/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 556274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185875-1	2412V2-16-B01 (0-5)	Total/NA	Solid	7471B	

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185875-1

Metals (Continued)

Prep Batch: 556274 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185875-2	2412V2-16-B01 (5-7.5)	Total/NA	Solid	7471B	
500-185875-3	2412V2-16-B02 (0-5)	Total/NA	Solid	7471B	
500-185875-4	2412V2-16-B02 (5-7.5)	Total/NA	Solid	7471B	
MB 500-556274/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-556274/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 556360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185875-1	2412V2-16-B01 (0-5)	Total/NA	Solid	6010B	556177
500-185875-2	2412V2-16-B01 (5-7.5)	Total/NA	Solid	6010B	556177
500-185875-3	2412V2-16-B02 (0-5)	Total/NA	Solid	6010B	556177
500-185875-4	2412V2-16-B02 (5-7.5)	Total/NA	Solid	6010B	556177
MB 500-556177/1-A	Method Blank	Total/NA	Solid	6010B	556177
LCS 500-556177/2-A	Lab Control Sample	Total/NA	Solid	6010B	556177

Analysis Batch: 556451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185875-1	2412V2-16-B01 (0-5)	Total/NA	Solid	7471B	556274
500-185875-2	2412V2-16-B01 (5-7.5)	Total/NA	Solid	7471B	556274
500-185875-3	2412V2-16-B02 (0-5)	Total/NA	Solid	7471B	556274
500-185875-4	2412V2-16-B02 (5-7.5)	Total/NA	Solid	7471B	556274
MB 500-556274/12-A	Method Blank	Total/NA	Solid	7471B	556274
LCS 500-556274/13-A	Lab Control Sample	Total/NA	Solid	7471B	556274

Leach Batch: 556480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185875-1	2412V2-16-B01 (0-5)	SPLP East	Solid	1312	
500-185875-2	2412V2-16-B01 (5-7.5)	SPLP East	Solid	1312	
500-185875-3	2412V2-16-B02 (0-5)	SPLP East	Solid	1312	
500-185875-4	2412V2-16-B02 (5-7.5)	SPLP East	Solid	1312	
LB 500-556480/1-B	Method Blank	SPLP East	Solid	1312	

Leach Batch: 556481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185875-1	2412V2-16-B01 (0-5)	TCLP	Solid	1311	
500-185875-2	2412V2-16-B01 (5-7.5)	TCLP	Solid	1311	
500-185875-3	2412V2-16-B02 (0-5)	TCLP	Solid	1311	
500-185875-4	2412V2-16-B02 (5-7.5)	TCLP	Solid	1311	
LB 500-556481/1-B	Method Blank	TCLP	Solid	1311	
LB 500-556481/2-B	Method Blank	TCLP	Solid	1311	

Analysis Batch: 556484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185875-2	2412V2-16-B01 (5-7.5)	Total/NA	Solid	6010B	556177

Prep Batch: 556707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185875-1	2412V2-16-B01 (0-5)	TCLP	Solid	7470A	556481
500-185875-2	2412V2-16-B01 (5-7.5)	TCLP	Solid	7470A	556481
500-185875-3	2412V2-16-B02 (0-5)	TCLP	Solid	7470A	556481
500-185875-4	2412V2-16-B02 (5-7.5)	TCLP	Solid	7470A	556481

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185875-1

Metals (Continued)

Prep Batch: 556707 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 500-556481/1-B	Method Blank	TCLP	Solid	7470A	556481
MB 500-556707/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-556707/14-A	Lab Control Sample	Total/NA	Solid	7470A	

Prep Batch: 556725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185875-1	2412V2-16-B01 (0-5)	TCLP	Solid	3010A	556481
500-185875-2	2412V2-16-B01 (5-7.5)	TCLP	Solid	3010A	556481
500-185875-3	2412V2-16-B02 (0-5)	TCLP	Solid	3010A	556481
500-185875-4	2412V2-16-B02 (5-7.5)	TCLP	Solid	3010A	556481
LB 500-556481/2-B	Method Blank	TCLP	Solid	3010A	556481
LCS 500-556725/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 556797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185875-1	2412V2-16-B01 (0-5)	SPLP East	Solid	3010A	556480
500-185875-2	2412V2-16-B01 (5-7.5)	SPLP East	Solid	3010A	556480
500-185875-3	2412V2-16-B02 (0-5)	SPLP East	Solid	3010A	556480
500-185875-4	2412V2-16-B02 (5-7.5)	SPLP East	Solid	3010A	556480
LB 500-556480/1-B	Method Blank	SPLP East	Solid	3010A	556480
LCS 500-556797/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 556800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185875-1	2412V2-16-B01 (0-5)	TCLP	Solid	6010B	556725
500-185875-2	2412V2-16-B01 (5-7.5)	TCLP	Solid	6010B	556725
500-185875-3	2412V2-16-B02 (0-5)	TCLP	Solid	6010B	556725
500-185875-4	2412V2-16-B02 (5-7.5)	TCLP	Solid	6010B	556725
LB 500-556481/2-B	Method Blank	TCLP	Solid	6010B	556725
LCS 500-556725/2-A	Lab Control Sample	Total/NA	Solid	6010B	556725

Analysis Batch: 556891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185875-1	2412V2-16-B01 (0-5)	TCLP	Solid	6020A	556725
500-185875-2	2412V2-16-B01 (5-7.5)	TCLP	Solid	6020A	556725
500-185875-3	2412V2-16-B02 (0-5)	TCLP	Solid	6020A	556725
500-185875-4	2412V2-16-B02 (5-7.5)	TCLP	Solid	6020A	556725
LB 500-556488/1-B	Method Blank	Total/NA	Solid	6020A	
LCS 500-556725/2-A	Lab Control Sample	Total/NA	Solid	6020A	556725

Analysis Batch: 556904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185875-1	2412V2-16-B01 (0-5)	TCLP	Solid	7470A	556707
500-185875-2	2412V2-16-B01 (5-7.5)	TCLP	Solid	7470A	556707
500-185875-3	2412V2-16-B02 (0-5)	TCLP	Solid	7470A	556707
500-185875-4	2412V2-16-B02 (5-7.5)	TCLP	Solid	7470A	556707
LB 500-556481/1-B	Method Blank	TCLP	Solid	7470A	556707
MB 500-556707/12-A	Method Blank	Total/NA	Solid	7470A	556707
LCS 500-556707/14-A	Lab Control Sample	Total/NA	Solid	7470A	556707

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185875-1

Metals

Analysis Batch: 557084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185875-1	2412V2-16-B01 (0-5)	SPLP East	Solid	6010B	556797
500-185875-2	2412V2-16-B01 (5-7.5)	SPLP East	Solid	6010B	556797
500-185875-3	2412V2-16-B02 (0-5)	SPLP East	Solid	6010B	556797
500-185875-4	2412V2-16-B02 (5-7.5)	SPLP East	Solid	6010B	556797
LB 500-556480/1-B	Method Blank	SPLP East	Solid	6010B	556797
LCS 500-556797/2-A	Lab Control Sample	Total/NA	Solid	6010B	556797

General Chemistry

Analysis Batch: 555583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185875-1	2412V2-16-B01 (0-5)	Total/NA	Solid	Moisture	
500-185875-2	2412V2-16-B01 (5-7.5)	Total/NA	Solid	Moisture	
500-185875-3	2412V2-16-B02 (0-5)	Total/NA	Solid	Moisture	
500-185875-4	2412V2-16-B02 (5-7.5)	Total/NA	Solid	Moisture	
500-185875-2 DU	2412V2-16-B01 (5-7.5)	Total/NA	Solid	Moisture	

Analysis Batch: 555814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185875-1	2412V2-16-B01 (0-5)	Total/NA	Solid	9045D	
500-185875-2	2412V2-16-B01 (5-7.5)	Total/NA	Solid	9045D	
500-185875-3	2412V2-16-B02 (0-5)	Total/NA	Solid	9045D	
500-185875-4	2412V2-16-B02 (5-7.5)	Total/NA	Solid	9045D	
LCS 500-555814/2	Lab Control Sample	Total/NA	Solid	9045D	
LCS 500-555814/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Prep Batch: 556845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185875-1	2412V2-16-B01 (0-5)	Total/NA	Solid	9010C	
500-185875-2	2412V2-16-B01 (5-7.5)	Total/NA	Solid	9010C	
500-185875-3	2412V2-16-B02 (0-5)	Total/NA	Solid	9010C	
500-185875-4	2412V2-16-B02 (5-7.5)	Total/NA	Solid	9010C	
MB 500-556845/1-A	Method Blank	Total/NA	Solid	9010C	
HLCS 500-556845/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 500-556845/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 500-556845/4-A	Lab Control Sample	Total/NA	Solid	9010C	

Analysis Batch: 557233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185875-1	2412V2-16-B01 (0-5)	Total/NA	Solid	9012B	556845
500-185875-2	2412V2-16-B01 (5-7.5)	Total/NA	Solid	9012B	556845
500-185875-3	2412V2-16-B02 (0-5)	Total/NA	Solid	9012B	556845
500-185875-4	2412V2-16-B02 (5-7.5)	Total/NA	Solid	9012B	556845
MB 500-556845/1-A	Method Blank	Total/NA	Solid	9012B	556845
HLCS 500-556845/2-A	Lab Control Sample	Total/NA	Solid	9012B	556845
LCS 500-556845/3-A	Lab Control Sample	Total/NA	Solid	9012B	556845
LLCS 500-556845/4-A	Lab Control Sample	Total/NA	Solid	9012B	556845

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185875-1

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)
500-185875-1	2412V2-16-B01 (0-5)	111	93	89	88
500-185875-2	2412V2-16-B01 (5-7.5)	112	89	87	91
500-185875-3	2412V2-16-B02 (0-5)	114	90	91	91
500-185875-4	2412V2-16-B02 (5-7.5)	113	88	85	92
LCS 500-556446/4	Lab Control Sample	108	87	81	91
LCSD 500-556446/5	Lab Control Sample Dup	108	89	81	90
MB 500-556446/7	Method Blank	108	85	82	93

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)
500-185875-1	2412V2-16-B01 (0-5)	94	76	76	69	103	133
500-185875-2	2412V2-16-B01 (5-7.5)	91	79	72	67	105	123
500-185875-3	2412V2-16-B02 (0-5)	70	51	47	42	94	115
500-185875-4	2412V2-16-B02 (5-7.5)	75	68	58	57	88	96
LCS 500-556799/2-A	Lab Control Sample	96	99	100	89	110	114
MB 500-556799/1-A	Method Blank	83	90	86	75	100	62

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 - Hampshire - WO 074

Job ID: 500-185875-1

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

Lab Sample ID: MB 500-556446/7
Matrix: Solid
Analysis Batch: 556446

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			08/12/20 12:33	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg			08/12/20 12:33	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg			08/12/20 12:33	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg			08/12/20 12:33	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg			08/12/20 12:33	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			08/12/20 12:33	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg			08/12/20 12:33	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg			08/12/20 12:33	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg			08/12/20 12:33	1
Chloroethane	<0.0015		0.0050	0.0015	mg/Kg			08/12/20 12:33	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg			08/12/20 12:33	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg			08/12/20 12:33	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg			08/12/20 12:33	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg			08/12/20 12:33	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg			08/12/20 12:33	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg			08/12/20 12:33	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg			08/12/20 12:33	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg			08/12/20 12:33	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			08/12/20 12:33	1
1,3-Dichloropropene, Total	<0.00070		0.0020	0.00070	mg/Kg			08/12/20 12:33	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg			08/12/20 12:33	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg			08/12/20 12:33	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg			08/12/20 12:33	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg			08/12/20 12:33	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg			08/12/20 12:33	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg			08/12/20 12:33	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg			08/12/20 12:33	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg			08/12/20 12:33	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg			08/12/20 12:33	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg			08/12/20 12:33	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg			08/12/20 12:33	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg			08/12/20 12:33	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg			08/12/20 12:33	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg			08/12/20 12:33	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg			08/12/20 12:33	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg			08/12/20 12:33	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg			08/12/20 12:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		75 - 131		08/12/20 12:33	1
Dibromofluoromethane	85		75 - 126		08/12/20 12:33	1
1,2-Dichloroethane-d4 (Surr)	82		70 - 134		08/12/20 12:33	1
Toluene-d8 (Surr)	93		75 - 124		08/12/20 12:33	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185875-1

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

Lab Sample ID: LCS 500-556446/4

Matrix: Solid

Analysis Batch: 556446

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	0.0453		mg/Kg		91	40 - 150
Benzene	0.0500	0.0554		mg/Kg		111	70 - 125
Bromodichloromethane	0.0500	0.0504		mg/Kg		101	67 - 129
Bromoform	0.0500	0.0458		mg/Kg		92	68 - 136
Bromomethane	0.0500	0.0359		mg/Kg		72	70 - 130
2-Butanone (MEK)	0.0500	0.0470		mg/Kg		94	47 - 138
Carbon disulfide	0.0500	0.0548		mg/Kg		110	70 - 129
Carbon tetrachloride	0.0500	0.0536		mg/Kg		107	75 - 125
Chlorobenzene	0.0500	0.0544		mg/Kg		109	50 - 150
Chloroethane	0.0500	0.0408		mg/Kg		82	75 - 125
Chloroform	0.0500	0.0522		mg/Kg		104	57 - 135
Chloromethane	0.0500	0.0684	*	mg/Kg		137	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0534		mg/Kg		107	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0500		mg/Kg		100	70 - 125
Dibromochloromethane	0.0500	0.0491		mg/Kg		98	69 - 125
1,1-Dichloroethane	0.0500	0.0610		mg/Kg		122	70 - 125
1,2-Dichloroethane	0.0500	0.0485		mg/Kg		97	70 - 130
1,1-Dichloroethene	0.0500	0.0553		mg/Kg		111	70 - 120
1,2-Dichloropropane	0.0500	0.0611		mg/Kg		122	70 - 125
Ethylbenzene	0.0500	0.0551		mg/Kg		110	61 - 136
2-Hexanone	0.0500	0.0510		mg/Kg		102	48 - 146
Methylene Chloride	0.0500	0.0512		mg/Kg		102	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0490		mg/Kg		98	50 - 148
Methyl tert-butyl ether	0.0500	0.0505		mg/Kg		101	50 - 140
Styrene	0.0500	0.0541		mg/Kg		108	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0543		mg/Kg		109	70 - 122
Tetrachloroethene	0.0500	0.0518		mg/Kg		104	70 - 124
Toluene	0.0500	0.0539		mg/Kg		108	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0553		mg/Kg		111	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0496		mg/Kg		99	70 - 125
1,1,1-Trichloroethane	0.0500	0.0540		mg/Kg		108	70 - 128
1,1,2-Trichloroethane	0.0500	0.0497		mg/Kg		99	70 - 125
Trichloroethene	0.0500	0.0547		mg/Kg		109	70 - 125
Vinyl acetate	0.0500	0.0578		mg/Kg		116	40 - 153
Vinyl chloride	0.0500	0.0585		mg/Kg		117	70 - 125
Xylenes, Total	0.100	0.109		mg/Kg		109	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	108		75 - 131
Dibromofluoromethane	87		75 - 126
1,2-Dichloroethane-d4 (Surr)	81		70 - 134
Toluene-d8 (Surr)	91		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185875-1

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

Lab Sample ID: LCSD 500-556446/5
Matrix: Solid
Analysis Batch: 556446

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	0.0461		mg/Kg		92	40 - 150	2	30
Benzene	0.0500	0.0473		mg/Kg		95	70 - 125	16	30
Bromodichloromethane	0.0500	0.0425		mg/Kg		85	67 - 129	17	30
Bromoform	0.0500	0.0371		mg/Kg		74	68 - 136	21	30
Bromomethane	0.0500	0.0322	*	mg/Kg		64	70 - 130	11	30
2-Butanone (MEK)	0.0500	0.0486		mg/Kg		97	47 - 138	3	30
Carbon disulfide	0.0500	0.0490		mg/Kg		98	70 - 129	11	30
Carbon tetrachloride	0.0500	0.0478		mg/Kg		96	75 - 125	11	30
Chlorobenzene	0.0500	0.0455		mg/Kg		91	50 - 150	18	30
Chloroethane	0.0500	0.0395		mg/Kg		79	75 - 125	3	30
Chloroform	0.0500	0.0461		mg/Kg		92	57 - 135	12	30
Chloromethane	0.0500	0.0605		mg/Kg		121	70 - 125	12	30
cis-1,2-Dichloroethene	0.0500	0.0484		mg/Kg		97	70 - 125	10	30
cis-1,3-Dichloropropene	0.0500	0.0409		mg/Kg		82	70 - 125	20	30
Dibromochloromethane	0.0500	0.0395		mg/Kg		79	69 - 125	22	30
1,1-Dichloroethane	0.0500	0.0537		mg/Kg		107	70 - 125	13	30
1,2-Dichloroethane	0.0500	0.0413		mg/Kg		83	70 - 130	16	30
1,1-Dichloroethene	0.0500	0.0492		mg/Kg		98	70 - 120	12	30
1,2-Dichloropropane	0.0500	0.0517		mg/Kg		103	70 - 125	17	30
Ethylbenzene	0.0500	0.0469		mg/Kg		94	61 - 136	16	30
2-Hexanone	0.0500	0.0517		mg/Kg		103	48 - 146	1	30
Methylene Chloride	0.0500	0.0460		mg/Kg		92	70 - 126	11	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0492		mg/Kg		98	50 - 148	0	30
Methyl tert-butyl ether	0.0500	0.0423		mg/Kg		85	50 - 140	18	30
Styrene	0.0500	0.0452		mg/Kg		90	70 - 125	18	30
1,1,2,2-Tetrachloroethane	0.0500	0.0434		mg/Kg		87	70 - 122	22	30
Tetrachloroethene	0.0500	0.0431		mg/Kg		86	70 - 124	18	30
Toluene	0.0500	0.0448		mg/Kg		90	70 - 125	19	30
trans-1,2-Dichloroethene	0.0500	0.0492		mg/Kg		98	70 - 125	12	30
trans-1,3-Dichloropropene	0.0500	0.0405		mg/Kg		81	70 - 125	20	30
1,1,1-Trichloroethane	0.0500	0.0471		mg/Kg		94	70 - 128	14	30
1,1,2-Trichloroethane	0.0500	0.0405		mg/Kg		81	70 - 125	20	30
Trichloroethene	0.0500	0.0460		mg/Kg		92	70 - 125	17	30
Vinyl acetate	0.0500	0.0525		mg/Kg		105	40 - 153	10	30
Vinyl chloride	0.0500	0.0519		mg/Kg		104	70 - 125	12	30
Xylenes, Total	0.100	0.0907		mg/Kg		91	53 - 147	18	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	108		75 - 131
Dibromofluoromethane	89		75 - 126
1,2-Dichloroethane-d4 (Surr)	81		70 - 134
Toluene-d8 (Surr)	90		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185875-1

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

Lab Sample ID: MB 500-556799/1-A
Matrix: Solid
Analysis Batch: 556958

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 556799

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	<0.0060		0.033	0.0060	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Acenaphthylene	<0.0044		0.033	0.0044	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Anthracene	<0.0056		0.033	0.0056	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Benzo[a]anthracene	<0.0045		0.033	0.0045	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Benzo[a]pyrene	<0.0064		0.033	0.0064	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Benzo[b]fluoranthene	<0.0072		0.033	0.0072	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Benzo[g,h,i]perylene	<0.011		0.033	0.011	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Benzo[k]fluoranthene	<0.0098		0.033	0.0098	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Bis(2-chloroethoxy)methane	<0.034		0.17	0.034	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Bis(2-chloroethyl)ether	<0.050		0.17	0.050	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Bis(2-ethylhexyl) phthalate	<0.061		0.17	0.061	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
4-Bromophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Butyl benzyl phthalate	<0.063		0.17	0.063	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Carbazole	<0.083		0.17	0.083	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
4-Chloroaniline	<0.16		0.67	0.16	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
4-Chloro-3-methylphenol	<0.11		0.33	0.11	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
2-Chloronaphthalene	<0.037		0.17	0.037	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
2-Chlorophenol	<0.057		0.17	0.057	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
4-Chlorophenyl phenyl ether	<0.039		0.17	0.039	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Chrysene	<0.0091		0.033	0.0091	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Dibenz(a,h)anthracene	<0.0064		0.033	0.0064	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Dibenzofuran	<0.039		0.17	0.039	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
1,2-Dichlorobenzene	<0.040		0.17	0.040	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
1,3-Dichlorobenzene	<0.037		0.17	0.037	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
1,4-Dichlorobenzene	<0.043		0.17	0.043	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
3,3'-Dichlorobenzidine	<0.047		0.17	0.047	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
2,4-Dichlorophenol	<0.079		0.33	0.079	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Diethyl phthalate	<0.056		0.17	0.056	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
2,4-Dimethylphenol	<0.13		0.33	0.13	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Dimethyl phthalate	<0.043		0.17	0.043	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Di-n-butyl phthalate	<0.051		0.17	0.051	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
4,6-Dinitro-2-methylphenol	<0.27		0.67	0.27	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
2,4-Dinitrophenol	<0.59		0.67	0.59	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
2,4-Dinitrotoluene	<0.053		0.17	0.053	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
2,6-Dinitrotoluene	<0.065		0.17	0.065	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Di-n-octyl phthalate	<0.054		0.17	0.054	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Fluoranthene	<0.0062		0.033	0.0062	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Fluorene	<0.0047		0.033	0.0047	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Hexachlorobenzene	<0.0077		0.067	0.0077	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Hexachlorobutadiene	<0.052		0.17	0.052	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Hexachlorocyclopentadiene	<0.19		0.67	0.19	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Hexachloroethane	<0.051		0.17	0.051	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Indeno[1,2,3-cd]pyrene	<0.0086		0.033	0.0086	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Isophorone	<0.037		0.17	0.037	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
2-Methylnaphthalene	<0.0061		0.067	0.0061	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
2-Methylphenol	<0.053		0.17	0.053	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
3 & 4 Methylphenol	<0.055		0.17	0.055	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Naphthalene	<0.0051		0.033	0.0051	mg/Kg		08/14/20 06:11	08/14/20 23:06	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185875-1

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

Lab Sample ID: MB 500-556799/1-A

Matrix: Solid

Analysis Batch: 556958

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 556799

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	<0.045		0.17	0.045	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
3-Nitroaniline	<0.10		0.33	0.10	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
4-Nitroaniline	<0.14		0.33	0.14	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Nitrobenzene	<0.0083		0.033	0.0083	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
2-Nitrophenol	<0.079		0.33	0.079	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
4-Nitrophenol	<0.32		0.67	0.32	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
N-Nitrosodi-n-propylamine	<0.041		0.067	0.041	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
N-Nitrosodiphenylamine	<0.039		0.17	0.039	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
2,2'-oxybis[1-chloropropane]	<0.039		0.17	0.039	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Pentachlorophenol	<0.53		0.67	0.53	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Phenanthrene	<0.0046		0.033	0.0046	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Phenol	<0.074		0.17	0.074	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Pyrene	<0.0066		0.033	0.0066	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
1,2,4-Trichlorobenzene	<0.036		0.17	0.036	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
2,4,5-Trichlorophenol	<0.076		0.33	0.076	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
2,4,6-Trichlorophenol	<0.11		0.33	0.11	mg/Kg		08/14/20 06:11	08/14/20 23:06	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	83		43 - 145	08/14/20 06:11	08/14/20 23:06	1
2-Fluorophenol	90		31 - 166	08/14/20 06:11	08/14/20 23:06	1
Nitrobenzene-d5	86		37 - 147	08/14/20 06:11	08/14/20 23:06	1
Phenol-d5	75		30 - 153	08/14/20 06:11	08/14/20 23:06	1
Terphenyl-d14	100		42 - 157	08/14/20 06:11	08/14/20 23:06	1
2,4,6-Tribromophenol	62		31 - 143	08/14/20 06:11	08/14/20 23:06	1

Lab Sample ID: LCS 500-556799/2-A

Matrix: Solid

Analysis Batch: 556958

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 556799

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1.33	1.32		mg/Kg		99	65 - 124
Acenaphthylene	1.33	1.32		mg/Kg		99	68 - 120
Anthracene	1.33	1.14		mg/Kg		86	70 - 114
Benzo[a]anthracene	1.33	1.30		mg/Kg		98	67 - 122
Benzo[a]pyrene	1.33	1.32		mg/Kg		99	65 - 133
Benzo[b]fluoranthene	1.33	1.27		mg/Kg		95	69 - 129
Benzo[g,h,i]perylene	1.33	1.28		mg/Kg		96	72 - 131
Benzo[k]fluoranthene	1.33	1.35		mg/Kg		101	68 - 127
Bis(2-chloroethoxy)methane	1.33	1.20		mg/Kg		90	60 - 112
Bis(2-chloroethyl)ether	1.33	1.08		mg/Kg		81	55 - 111
Bis(2-ethylhexyl) phthalate	1.33	1.17		mg/Kg		88	72 - 131
4-Bromophenyl phenyl ether	1.33	1.30		mg/Kg		97	68 - 118
Butyl benzyl phthalate	1.33	1.30		mg/Kg		97	71 - 129
Carbazole	1.33	1.39		mg/Kg		104	65 - 142
4-Chloroaniline	1.33	0.701		mg/Kg		53	30 - 150
4-Chloro-3-methylphenol	1.33	1.14		mg/Kg		85	65 - 122
2-Chloronaphthalene	1.33	1.32		mg/Kg		99	69 - 114
2-Chlorophenol	1.33	0.979		mg/Kg		73	64 - 110

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185875-1

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

Lab Sample ID: LCS 500-556799/2-A

Matrix: Solid

Analysis Batch: 556958

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 556799

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorophenyl phenyl ether	1.33	1.28		mg/Kg		96	62 - 119
Chrysene	1.33	1.34		mg/Kg		100	63 - 120
Dibenz(a,h)anthracene	1.33	1.31		mg/Kg		98	64 - 131
Dibenzofuran	1.33	1.30		mg/Kg		97	66 - 115
1,2-Dichlorobenzene	1.33	1.17		mg/Kg		88	62 - 110
1,3-Dichlorobenzene	1.33	1.19		mg/Kg		89	65 - 124
1,4-Dichlorobenzene	1.33	1.15		mg/Kg		87	61 - 110
3,3'-Dichlorobenzidine	1.33	0.641		mg/Kg		48	35 - 128
2,4-Dichlorophenol	1.33	1.11		mg/Kg		84	58 - 120
Diethyl phthalate	1.33	1.26		mg/Kg		95	58 - 120
2,4-Dimethylphenol	1.33	1.16		mg/Kg		87	60 - 110
Dimethyl phthalate	1.33	1.37		mg/Kg		103	69 - 116
Di-n-butyl phthalate	1.33	1.32		mg/Kg		99	65 - 120
4,6-Dinitro-2-methylphenol	2.67	2.29		mg/Kg		86	10 - 110
2,4-Dinitrophenol	2.67	2.35		mg/Kg		88	10 - 100
2,4-Dinitrotoluene	1.33	1.16		mg/Kg		87	69 - 124
2,6-Dinitrotoluene	1.33	1.37		mg/Kg		103	70 - 123
Di-n-octyl phthalate	1.33	1.29		mg/Kg		97	68 - 134
Fluoranthene	1.33	1.23		mg/Kg		92	62 - 120
Fluorene	1.33	1.34		mg/Kg		100	62 - 120
Hexachlorobenzene	1.33	1.29		mg/Kg		97	63 - 124
Hexachlorobutadiene	1.33	1.29		mg/Kg		97	56 - 120
Hexachlorocyclopentadiene	1.33	0.789		mg/Kg		59	10 - 133
Hexachloroethane	1.33	1.08		mg/Kg		81	60 - 114
Indeno[1,2,3-cd]pyrene	1.33	1.29		mg/Kg		97	68 - 130
Isophorone	1.33	1.42		mg/Kg		107	55 - 110
2-Methylnaphthalene	1.33	1.24		mg/Kg		93	69 - 112
2-Methylphenol	1.33	1.20		mg/Kg		90	60 - 120
3 & 4 Methylphenol	1.33	1.24		mg/Kg		93	57 - 120
Naphthalene	1.33	1.21		mg/Kg		91	63 - 110
2-Nitroaniline	1.33	1.23		mg/Kg		92	57 - 124
3-Nitroaniline	1.33	0.640		mg/Kg		48	40 - 122
4-Nitroaniline	1.33	1.07		mg/Kg		80	60 - 160
Nitrobenzene	1.33	1.25		mg/Kg		94	60 - 116
2-Nitrophenol	1.33	1.29		mg/Kg		96	60 - 120
4-Nitrophenol	2.67	2.29		mg/Kg		86	30 - 122
N-Nitrosodi-n-propylamine	1.33	1.13		mg/Kg		85	56 - 118
N-Nitrosodiphenylamine	1.33	1.32		mg/Kg		99	65 - 112
2,2'-oxybis[1-chloropropane]	1.33	0.971		mg/Kg		73	40 - 124
Pentachlorophenol	2.67	2.21		mg/Kg		83	13 - 112
Phenanthrene	1.33	1.14		mg/Kg		85	62 - 120
Phenol	1.33	1.14		mg/Kg		85	56 - 122
Pyrene	1.33	1.39		mg/Kg		104	61 - 128
1,2,4-Trichlorobenzene	1.33	1.21		mg/Kg		90	66 - 117
2,4,5-Trichlorophenol	1.33	1.30		mg/Kg		98	50 - 120
2,4,6-Trichlorophenol	1.33	1.28		mg/Kg		96	57 - 120

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185875-1

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

Lab Sample ID: LCS 500-556799/2-A
Matrix: Solid
Analysis Batch: 556958

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556799

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	96		43 - 145
2-Fluorophenol	99		31 - 166
Nitrobenzene-d5	100		37 - 147
Phenol-d5	89		30 - 153
Terphenyl-d14	110		42 - 157
2,4,6-Tribromophenol	114		31 - 143

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-556177/1-A
Matrix: Solid
Analysis Batch: 556360

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 556177

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.39		2.0	0.39	mg/Kg		08/11/20 06:38	08/11/20 22:29	1
Arsenic	<0.34		1.0	0.34	mg/Kg		08/11/20 06:38	08/11/20 22:29	1
Barium	<0.11		1.0	0.11	mg/Kg		08/11/20 06:38	08/11/20 22:29	1
Beryllium	<0.093		0.40	0.093	mg/Kg		08/11/20 06:38	08/11/20 22:29	1
Cadmium	0.0717	J	0.20	0.036	mg/Kg		08/11/20 06:38	08/11/20 22:29	1
Chromium	<0.50		1.0	0.50	mg/Kg		08/11/20 06:38	08/11/20 22:29	1
Cobalt	<0.13		0.50	0.13	mg/Kg		08/11/20 06:38	08/11/20 22:29	1
Copper	<0.28		1.0	0.28	mg/Kg		08/11/20 06:38	08/11/20 22:29	1
Iron	<10		20	10	mg/Kg		08/11/20 06:38	08/11/20 22:29	1
Lead	<0.23		0.50	0.23	mg/Kg		08/11/20 06:38	08/11/20 22:29	1
Magnesium	<5.0		10	5.0	mg/Kg		08/11/20 06:38	08/11/20 22:29	1
Calcium	<3.4		20	3.4	mg/Kg		08/11/20 06:38	08/11/20 22:29	1
Manganese	<0.15		1.0	0.15	mg/Kg		08/11/20 06:38	08/11/20 22:29	1
Nickel	<0.29		1.0	0.29	mg/Kg		08/11/20 06:38	08/11/20 22:29	1
Selenium	<0.59		1.0	0.59	mg/Kg		08/11/20 06:38	08/11/20 22:29	1
Silver	<0.13		0.50	0.13	mg/Kg		08/11/20 06:38	08/11/20 22:29	1
Thallium	<0.50		1.0	0.50	mg/Kg		08/11/20 06:38	08/11/20 22:29	1
Vanadium	<0.12		0.50	0.12	mg/Kg		08/11/20 06:38	08/11/20 22:29	1
Zinc	<0.88		2.0	0.88	mg/Kg		08/11/20 06:38	08/11/20 22:29	1
Potassium	<18		50	18	mg/Kg		08/11/20 06:38	08/11/20 22:29	1
Sodium	<15		100	15	mg/Kg		08/11/20 06:38	08/11/20 22:29	1

Lab Sample ID: LCS 500-556177/2-A
Matrix: Solid
Analysis Batch: 556360

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556177

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Antimony	50.0	44.3		mg/Kg		89	80 - 120
Arsenic	10.0	9.50		mg/Kg		95	80 - 120
Barium	200	193		mg/Kg		96	80 - 120
Beryllium	5.00	4.81		mg/Kg		96	80 - 120
Cadmium	5.00	4.80		mg/Kg		96	80 - 120
Chromium	20.0	19.6		mg/Kg		98	80 - 120
Cobalt	50.0	49.7		mg/Kg		99	80 - 120
Copper	25.0	24.4		mg/Kg		98	80 - 120

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185875-1

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

Lab Sample ID: LCS 500-556177/2-A
Matrix: Solid
Analysis Batch: 556360

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556177

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	100	109		mg/Kg		109	80 - 120
Lead	10.0	9.83		mg/Kg		98	80 - 120
Magnesium	1000	938		mg/Kg		94	80 - 120
Calcium	1000	964		mg/Kg		96	80 - 120
Manganese	50.0	47.5		mg/Kg		95	80 - 120
Nickel	50.0	49.3		mg/Kg		99	80 - 120
Selenium	10.0	8.74		mg/Kg		87	80 - 120
Silver	5.00	4.62		mg/Kg		92	80 - 120
Thallium	10.0	9.95		mg/Kg		100	80 - 120
Vanadium	50.0	49.7		mg/Kg		99	80 - 120
Zinc	50.0	47.7		mg/Kg		95	80 - 120
Potassium	1000	972		mg/Kg		97	80 - 120
Sodium	1000	984		mg/Kg		98	80 - 120

Lab Sample ID: LCS 500-556725/2-A
Matrix: Solid
Analysis Batch: 556800

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556725

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.112		mg/L		112	80 - 120
Barium	0.500	0.509		mg/L		102	80 - 120
Beryllium	0.0500	0.0494		mg/L		99	80 - 120
Cadmium	0.0500	0.0521		mg/L		104	80 - 120
Chromium	0.200	0.205		mg/L		103	80 - 120
Cobalt	0.500	0.540		mg/L		108	80 - 120
Copper	0.250	0.269		mg/L		107	80 - 120
Iron	1.00	1.05		mg/L		105	80 - 120
Lead	0.100	0.0988		mg/L		99	80 - 120
Magnesium	10.0	9.44		mg/L		94	80 - 120
Calcium	10.0	9.98		mg/L		100	80 - 120
Manganese	0.500	0.489		mg/L		98	80 - 120
Nickel	0.500	0.533		mg/L		107	80 - 120
Selenium	0.100	0.112		mg/L		112	80 - 120
Silver	0.0500	0.0530		mg/L		106	80 - 120
Vanadium	0.500	0.520		mg/L		104	80 - 120
Zinc	0.500	0.593		mg/L		119	80 - 120
Potassium	10.0	10.4		mg/L		104	80 - 120

Lab Sample ID: LCS 500-556797/2-A
Matrix: Solid
Analysis Batch: 557084

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556797

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.100	0.104		mg/L		104	80 - 120
Manganese	0.500	0.505		mg/L		101	80 - 120

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185875-1

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

Lab Sample ID: LB 500-556481/2-B
Matrix: Solid
Analysis Batch: 556800

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 556725

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/13/20 17:10	08/14/20 03:22	1
Barium	<0.050		0.50	0.050	mg/L		08/13/20 17:10	08/14/20 03:22	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/13/20 17:10	08/14/20 03:22	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/13/20 17:10	08/14/20 03:22	1
Chromium	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 03:22	1
Cobalt	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 03:22	1
Copper	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 03:22	1
Iron	<0.20		0.40	0.20	mg/L		08/13/20 17:10	08/14/20 03:22	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/13/20 17:10	08/14/20 03:22	1
Magnesium	<0.50		2.5	0.50	mg/L		08/13/20 17:10	08/14/20 03:22	1
Calcium	<0.50		5.0	0.50	mg/L		08/13/20 17:10	08/14/20 03:22	1
Manganese	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 03:22	1
Nickel	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 03:22	1
Selenium	<0.020		0.050	0.020	mg/L		08/13/20 17:10	08/14/20 03:22	1
Silver	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 03:22	1
Vanadium	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 03:22	1
Zinc	<0.020		0.50	0.020	mg/L		08/13/20 17:10	08/14/20 03:22	1
Potassium	<0.50		2.5	0.50	mg/L		08/13/20 17:10	08/14/20 03:22	1

Lab Sample ID: LB 500-556480/1-B
Matrix: Solid
Analysis Batch: 557084

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 556797

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		08/14/20 05:58	08/16/20 22:15	1
Manganese	<0.010		0.025	0.010	mg/L		08/14/20 05:58	08/16/20 22:15	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-556725/2-A
Matrix: Solid
Analysis Batch: 556891

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556725

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.478		mg/L		96	80 - 120
Thallium	0.100	0.109		mg/L		109	80 - 120

Lab Sample ID: LB 500-556488/1-B
Matrix: Solid
Analysis Batch: 556891

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L			08/14/20 09:02	1
Thallium	<0.0020		0.0020	0.0020	mg/L			08/14/20 09:02	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185875-1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-556707/12-A
 Matrix: Solid
 Analysis Batch: 556904

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 556707

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/13/20 14:20	08/14/20 10:52	1

Lab Sample ID: LCS 500-556707/14-A
 Matrix: Solid
 Analysis Batch: 556904

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 556707
 %Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00215		mg/L		107	80 - 120

Lab Sample ID: LB 500-556481/1-B
 Matrix: Solid
 Analysis Batch: 556904

Client Sample ID: Method Blank
 Prep Type: TCLP
 Prep Batch: 556707

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/13/20 14:20	08/14/20 10:54	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-556274/12-A
 Matrix: Solid
 Analysis Batch: 556451

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 556274

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		08/11/20 14:25	08/12/20 08:06	1

Lab Sample ID: LCS 500-556274/13-A
 Matrix: Solid
 Analysis Batch: 556451

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 556274
 %Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.177		mg/Kg		106	80 - 120

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 500-556845/1-A
 Matrix: Solid
 Analysis Batch: 557233

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 556845

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.12		0.24	0.12	mg/Kg		08/14/20 13:10	08/17/20 09:49	1

Lab Sample ID: HLCS 500-556845/2-A
 Matrix: Solid
 Analysis Batch: 557233

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 556845
 %Rec.

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	12.0	11.9		mg/Kg		99	90 - 110

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185875-1

Method: 9012B - Cyanide, Total andor Amenable (Continued)

Lab Sample ID: LCS 500-556845/3-A
Matrix: Solid
Analysis Batch: 557233

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556845
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	2.40	2.49		mg/Kg		104	85 - 115

Lab Sample ID: LLCS 500-556845/4-A
Matrix: Solid
Analysis Batch: 557233

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556845
%Rec.

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	1.20	1.18		mg/Kg		98	75 - 125

- 1
- 2
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- 13
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Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185875-1

Client Sample ID: 2412V2-16-B01 (0-5)

Lab Sample ID: 500-185875-1

Date Collected: 08/03/20 11:55

Matrix: Solid

Date Received: 08/03/20 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			556480	08/12/20 12:07	JLC	TAL CHI
SPLP East	Prep	3010A			556797	08/14/20 05:58	LMN	TAL CHI
SPLP East	Analysis	6010B		1	557084	08/16/20 22:52	EEN	TAL CHI
TCLP	Leach	1311			556481	08/12/20 12:07	JLC	TAL CHI
TCLP	Prep	3010A			556725	08/13/20 17:10	BDE	TAL CHI
TCLP	Analysis	6010B		1	556800	08/14/20 03:30	JEF	TAL CHI
TCLP	Leach	1311			556481	08/12/20 12:07	JLC	TAL CHI
TCLP	Prep	3010A			556725	08/13/20 17:10	BDE	TAL CHI
TCLP	Analysis	6020A		1	556891	08/14/20 09:06	FXG	TAL CHI
TCLP	Leach	1311			556481	08/12/20 12:07	JLC	TAL CHI
TCLP	Prep	7470A			556707	08/13/20 14:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	556904	08/14/20 10:59	MJG	TAL CHI
Total/NA	Analysis	9045D		1	555814	08/06/20 19:01	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	555583	08/06/20 07:51	LWN	TAL CHI

Client Sample ID: 2412V2-16-B01 (0-5)

Lab Sample ID: 500-185875-1

Date Collected: 08/03/20 11:55

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 93.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			556455	08/04/20 17:04	PMF	TAL CHI
Total/NA	Analysis	8260B		1	556446	08/12/20 14:41	PMF	TAL CHI
Total/NA	Prep	3541			556799	08/14/20 06:11	DAK	TAL CHI
Total/NA	Analysis	8270D		1	556853	08/14/20 17:51	NRJ	TAL CHI
Total/NA	Prep	3050B			556177	08/11/20 06:38	LMN	TAL CHI
Total/NA	Analysis	6010B		1	556360	08/11/20 23:29	JEF	TAL CHI
Total/NA	Prep	7471B			556274	08/11/20 14:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	556451	08/12/20 08:56	MJG	TAL CHI
Total/NA	Prep	9010C			556845	08/14/20 13:10	MS	TAL CHI
Total/NA	Analysis	9012B		1	557233	08/17/20 10:39	MS	TAL CHI

Client Sample ID: 2412V2-16-B01 (5-7.5)

Lab Sample ID: 500-185875-2

Date Collected: 08/03/20 12:00

Matrix: Solid

Date Received: 08/03/20 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			556480	08/12/20 12:07	JLC	TAL CHI
SPLP East	Prep	3010A			556797	08/14/20 05:58	LMN	TAL CHI
SPLP East	Analysis	6010B		1	557084	08/16/20 22:56	EEN	TAL CHI
TCLP	Leach	1311			556481	08/12/20 12:07	JLC	TAL CHI
TCLP	Prep	3010A			556725	08/13/20 17:10	BDE	TAL CHI
TCLP	Analysis	6010B		1	556800	08/14/20 03:34	JEF	TAL CHI
TCLP	Leach	1311			556481	08/12/20 12:07	JLC	TAL CHI
TCLP	Prep	3010A			556725	08/13/20 17:10	BDE	TAL CHI
TCLP	Analysis	6020A		1	556891	08/14/20 09:08	FXG	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185875-1

Client Sample ID: 2412V2-16-B01 (5-7.5)

Lab Sample ID: 500-185875-2

Date Collected: 08/03/20 12:00

Matrix: Solid

Date Received: 08/03/20 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			556481	08/12/20 12:07	JLC	TAL CHI
TCLP	Prep	7470A			556707	08/13/20 14:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	556904	08/14/20 11:01	MJG	TAL CHI
Total/NA	Analysis	9045D		1	555814	08/06/20 19:03	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	555583	08/06/20 07:51	LWN	TAL CHI

Client Sample ID: 2412V2-16-B01 (5-7.5)

Lab Sample ID: 500-185875-2

Date Collected: 08/03/20 12:00

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 90.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			556455	08/04/20 17:04	PMF	TAL CHI
Total/NA	Analysis	8260B		1	556446	08/12/20 15:06	PMF	TAL CHI
Total/NA	Prep	3541			556799	08/14/20 06:11	DAK	TAL CHI
Total/NA	Analysis	8270D		1	556853	08/14/20 18:14	NRJ	TAL CHI
Total/NA	Prep	3050B			556177	08/11/20 06:38	LMN	TAL CHI
Total/NA	Analysis	6010B		1	556360	08/11/20 23:33	JEF	TAL CHI
Total/NA	Prep	3050B			556177	08/11/20 06:38	LMN	TAL CHI
Total/NA	Analysis	6010B		10	556484	08/12/20 12:22	JEF	TAL CHI
Total/NA	Prep	7471B			556274	08/11/20 14:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	556451	08/12/20 08:58	MJG	TAL CHI
Total/NA	Prep	9010C			556845	08/14/20 13:10	MS	TAL CHI
Total/NA	Analysis	9012B		1	557233	08/17/20 10:41	MS	TAL CHI

Client Sample ID: 2412V2-16-B02 (0-5)

Lab Sample ID: 500-185875-3

Date Collected: 08/03/20 12:20

Matrix: Solid

Date Received: 08/03/20 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			556480	08/12/20 12:07	JLC	TAL CHI
SPLP East	Prep	3010A			556797	08/14/20 05:58	LMN	TAL CHI
SPLP East	Analysis	6010B		1	557084	08/16/20 23:00	EEN	TAL CHI
TCLP	Leach	1311			556481	08/12/20 12:07	JLC	TAL CHI
TCLP	Prep	3010A			556725	08/13/20 17:10	BDE	TAL CHI
TCLP	Analysis	6010B		1	556800	08/14/20 04:03	JEF	TAL CHI
TCLP	Leach	1311			556481	08/12/20 12:07	JLC	TAL CHI
TCLP	Prep	3010A			556725	08/13/20 17:10	BDE	TAL CHI
TCLP	Analysis	6020A		1	556891	08/14/20 09:10	FXG	TAL CHI
TCLP	Leach	1311			556481	08/12/20 12:07	JLC	TAL CHI
TCLP	Prep	7470A			556707	08/13/20 14:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	556904	08/14/20 11:03	MJG	TAL CHI
Total/NA	Analysis	9045D		1	555814	08/06/20 19:08	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	555583	08/06/20 07:51	LWN	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185875-1

Client Sample ID: 2412V2-16-B02 (0-5)

Lab Sample ID: 500-185875-3

Date Collected: 08/03/20 12:20

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 85.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			556455	08/04/20 17:04	PMF	TAL CHI
Total/NA	Analysis	8260B		1	556446	08/12/20 15:32	PMF	TAL CHI
Total/NA	Prep	3541			556799	08/14/20 06:11	DAK	TAL CHI
Total/NA	Analysis	8270D		1	556853	08/14/20 18:38	NRJ	TAL CHI
Total/NA	Prep	3050B			556177	08/11/20 06:38	LMN	TAL CHI
Total/NA	Analysis	6010B		1	556360	08/11/20 23:37	JEF	TAL CHI
Total/NA	Prep	7471B			556274	08/11/20 14:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	556451	08/12/20 09:00	MJG	TAL CHI
Total/NA	Prep	9010C			556845	08/14/20 13:10	MS	TAL CHI
Total/NA	Analysis	9012B		1	557233	08/17/20 10:43	MS	TAL CHI

Client Sample ID: 2412V2-16-B02 (5-7.5)

Lab Sample ID: 500-185875-4

Date Collected: 08/03/20 12:25

Matrix: Solid

Date Received: 08/03/20 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			556480	08/12/20 12:07	JLC	TAL CHI
SPLP East	Prep	3010A			556797	08/14/20 05:58	LMN	TAL CHI
SPLP East	Analysis	6010B		1	557084	08/16/20 23:04	EEN	TAL CHI
TCLP	Leach	1311			556481	08/12/20 12:07	JLC	TAL CHI
TCLP	Prep	3010A			556725	08/13/20 17:10	BDE	TAL CHI
TCLP	Analysis	6010B		1	556800	08/14/20 04:07	JEF	TAL CHI
TCLP	Leach	1311			556481	08/12/20 12:07	JLC	TAL CHI
TCLP	Prep	3010A			556725	08/13/20 17:10	BDE	TAL CHI
TCLP	Analysis	6020A		1	556891	08/14/20 09:12	FXG	TAL CHI
TCLP	Leach	1311			556481	08/12/20 12:07	JLC	TAL CHI
TCLP	Prep	7470A			556707	08/13/20 14:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	556904	08/14/20 11:05	MJG	TAL CHI
Total/NA	Analysis	9045D		1	555814	08/06/20 19:11	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	555583	08/06/20 07:51	LWN	TAL CHI

Client Sample ID: 2412V2-16-B02 (5-7.5)

Lab Sample ID: 500-185875-4

Date Collected: 08/03/20 12:25

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 87.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			556455	08/04/20 17:04	PMF	TAL CHI
Total/NA	Analysis	8260B		1	556446	08/12/20 15:57	PMF	TAL CHI
Total/NA	Prep	3541			556799	08/14/20 06:11	DAK	TAL CHI
Total/NA	Analysis	8270D		1	556853	08/14/20 19:01	NRJ	TAL CHI
Total/NA	Prep	3050B			556177	08/11/20 06:38	LMN	TAL CHI
Total/NA	Analysis	6010B		1	556360	08/11/20 23:41	JEF	TAL CHI
Total/NA	Prep	7471B			556274	08/11/20 14:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	556451	08/12/20 09:22	MJG	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185875-1

Client Sample ID: 2412V2-16-B02 (5-7.5)

Lab Sample ID: 500-185875-4

Date Collected: 08/03/20 12:25

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 87.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	9010C			556845	08/14/20 13:10	MS	TAL CHI
Total/NA	Analysis	9012B		1	557233	08/17/20 10:45	MS	TAL CHI

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

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Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185875-1

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-21

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
9012B	9010C	Solid	Cyanide, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 604
Phone: 708.534.5200 Fax: 708.534.



500-185875 COC

Report To (optional)
Contact: Matt Weiss
Company: Terracon
Address: 192 Exchange 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 #: 500-185875
Chain of Custody Number:
Page 1 of 1
Temperature °C of Cooler: 5.9, 5.7, 5.4

Client		Client Project #		Preservative		Parameter												Preservative Key	
<u>Terracon</u>		<u>11207011P</u>																1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		Sampling		# of Containers		Matrix										Comments	
<u>11207011P</u>				Date Time															
Project Location/State		Lab PM																	
<u>Hempshire, IL</u>																			
Sampler																			
<u>D.G. Fitz</u>																			
<u>1</u>	<u>MS/MSD</u>	<u>2412V2-16-B01 (0-5)</u>		<u>8/3/20</u>	<u>1155</u>	<u>6</u>	<u>50</u>	<u>Vacc's</u>	<u>SUBC'S</u>	<u>Met/23</u>	<u>Inorganics</u>	<u>PH</u>	<u>TCLP 23</u>	<u>Inorganics</u>	<u>SPC 23</u>	<u>Inorganics</u>			
<u>2</u>		<u>2412V2-16-B01 (5-7.5)</u>		<u>8/3/20</u>	<u>1200</u>	<u>6</u>	<u>50</u>												
<u>3</u>		<u>2412V2-16-B02 (0-5)</u>		<u>8/3/20</u>	<u>1220</u>	<u>6</u>	<u>50</u>												
<u>4</u>		<u>2412V2-16-B02 (5-7.5)</u>		<u>8/3/20</u>	<u>1225</u>	<u>6</u>	<u>50</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>8/3/2020</u> Time: <u>1630</u>	Received By <u>[Signature]</u> Company: <u>TA</u> Date: <u>8/3/20</u> Time: <u>1630</u>	Lab Courier <u>TA</u>
Relinquished By <u>P. Ned</u> Company: <u>TA</u> Date: <u>8/3/20</u> Time: <u>1825</u>	Received By <u>[Signature]</u> Company: <u>TA</u> Date: <u>8/4/20</u> Time: <u>0800</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
* STANDARD TURN
* NO ALUMINUM
* HOLD SPC 23 Inorganics Per Terracon Instructions

Lab Comments:

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-185875-1

Login Number: 185875

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.9,5.7,5.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 557-IL Route 72 at State Street/Getzelman Rd Office Phone Number, if available: _____

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

IL Route 72 (Eastbound) IDOT STA 502+10 to 502+90 and STA 503+90 to 504+80 (ISGS 2412V2-19)

City: Hampshire State: IL Zip Code: 60140

County: Kane Township: Hampshire

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

Latitude: 42.08832 Longitude: - 88.53013

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

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

Estimated Volume of debris (cu. Yd.): 30

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

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

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

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

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

Soil from borings B01 and B03 were sampled adjacent to ISGS Site No 2412V2-19.
See Exhibit 2 and Table 23 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 J185876-1.

Also see Preliminary Site Investigation Report prepared by Terracon. CCDD/USFO facility in MSA County.

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

I, Matt Weiss (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51 a] 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

Printed Name: _____

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Date:

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

Comparison of Detected Constituents to MACs-PTB 174-009;Work Order:074A
Preliminary Site Investigation
FAP 557-IL Route 72 at State St./Getzelman Road (PESA #2412V2-19)
Hampshire, Kane Co, IL
Terracon Project No. 11207011P
Page 1 of 4

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2412V2-19-B01 (0-5)	2412V2-19-B01 (5-7.5)
				CCDD	Sample Depth (feet)	(0-5)	(5-7.5)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	8/3/2020	8/3/2020
Inorganic Analytical Parameters							
Arsenic	mg/kg	---	13	11.3		7.5	3.7
Barium	mg/kg	---	110	1500		100	29
Cadmium	mg/kg	---	0.6	5.2		0.041	0.061
Chromium, total	mg/kg	---	16.2	21		21	11
Lead	mg/kg	---	36	107		13	6.7
Mercury	mg/kg	---	0.06	0.89		0.042	0.0089
Selenium	mg/kg	---	0.48	1.3		0.44	<0.30
Silver	mg/kg	---	0.55	4.4		<0.075	<0.066
Antimony	mg/kg	---	4.0	5		0.37	0.3
Beryllium	mg/kg	---	0.59	22		0.85	0.45
Calcium	mg/kg	---	9,300	---		2300	84000
Cobalt	mg/kg	---	8.9	20		10	5.7
Copper	mg/kg	---	19.6	2900		17	10
Cyanide	mg/kg	---	0.51	---		0.2	<0.11
Iron	mg/kg	---	15,900	15000		19000	10000
Magnesium	mg/kg	---	4,820	325000		3600	30000
Manganese	mg/kg	---	636	630		560	270
Nickel	mg/kg	---	18	100		28	14
Potassium	mg/kg	---	1,268	---		1600	1600
Sodium	mg/kg	---	130	---		1000	310
Thallium	mg/kg	---	0.32	2.6		0.5	<0.26
Vanadium	mg/kg	---	25.2	550		35	15
Zinc	mg/kg	---	95	5100		65	33
pH			6.25	9		8.2	8.6

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2412V2-19-B01 (0-5)	2412V2-19-B01 (5-7.5)
				CCDD	Sample Depth (feet)	(0-5)	(5-7.5)
		mg/kg	Date Collected	8/3/2020	8/3/2020		
		pH 6.25-9.0					
Inorganic Analytical Parameters (SPLP)							
Antimony,SPLP	mg/L	---	---	---		--	--
Arsenic,SPLP	mg/L	---	---	---		--	--
Barium,SPLP	mg/L	---	---	---		--	--
Beryllium,SPLP	mg/L	---	---	---		--	--
Cadmium,SPLP	mg/L	---	---	---		--	--
Calcium,SPLP	mg/L	---	---	---		--	--
Chromium,SPLP	mg/L	---	---	---		--	--
Cobalt,SPLP	mg/L	---	---	---		--	--
Copper,SPLP	mg/L	---	---	---		--	--
Iron,SPLP	mg/L	---	---	---		--	--
Lead,SPLP	mg/L	---	---	---		--	--
Magnesium,SPLP	mg/L	---	---	---		--	--
Manganese,SPLP	mg/L	---	---	---		1.5	0.34
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	---	---	---		0.68	0.31
Cadmium,TCLP	mg/L	---	---	---		<0.0020	<0.0020
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	---	---	---		290	710
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	---	---	---		78	36
Manganese,TCLP	mg/L	---	---	---		0.35	0.98
Nickel,TCLP	mg/L	---	---	---		<0.010	<0.010
Potassium,TCLP	mg/L	---	---	---		1.3	1.6
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	<0.020

Comparison of Detected Constituents to MACs-PTB 174-009;Work Order:074A
Preliminary Site Investigation
FAP 557-IL Route 72 at State St./Getzelman Road (PESA #2412V2-19)
Hampshire, Kane Co, IL
Terracon Project No. 11207011P
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Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2412V2-19-B03 (0-5)	2412V2-19-B03 (5-7.5)
				CCDD	Sample Depth (feet)	(0-5)	(5-7.5)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	8/3/2020	8/3/2020
Inorganic Analytical Parameters							
Arsenic	mg/kg	---	13	11.3		7.9	6.1
Barium	mg/kg	---	110	1500		80	89
Cadmium	mg/kg	---	0.6	5.2		0.042	0.12
Chromium, total	mg/kg	---	16.2	21		18	16
Lead	mg/kg	---	36	107		16	12
Mercury	mg/kg	---	0.06	0.89		0.036	0.024
Selenium	mg/kg	---	0.48	1.3		0.47	<0.33
Silver	mg/kg	---	0.55	4.4		<0.071	<0.073
Antimony	mg/kg	---	4.0	5		0.53	0.54
Beryllium	mg/kg	---	0.59	22		0.79	0.65
Calcium	mg/kg	---	9,300	---		5300	22000
Cobalt	mg/kg	---	8.9	20		10	8.5
Copper	mg/kg	---	19.6	2900		16	14
Cyanide	mg/kg	---	0.51	---		0.26	0.21
Iron	mg/kg	---	15,900	15000		20000	15000
Magnesium	mg/kg	---	4,820	325000		4800	15000
Manganese	mg/kg	---	636	630		410	500
Nickel	mg/kg	---	18	100		24	24
Potassium	mg/kg	---	1,268	---		1400	1300
Sodium	mg/kg	---	130	---		660	1000
Thallium	mg/kg	---	0.32	2.6		0.57	0.41
Vanadium	mg/kg	---	25.2	550		28	27
Zinc	mg/kg	---	95	5100		59	53
pH			6.25	9		8.8	9

Preliminary Site Investigation

FAP 557-IL Route 72 at State St./Getzelman Road (PESA #2412V2-19)

Hampshire, Kane Co, IL

Terracon Project No. 11207011P

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2412V2-19-B03 (0-5)	2412V2-19-B03 (5-7.5)
				CCDD	Sample Depth (feet)	(0-5)	(5-7.5)
		mg/kg	Date Collected	8/3/2020	8/3/2020		
		pH 6.25-9.0					
Inorganic Analytical Parameters (SPLP)							
Antimony,SPLP	mg/L	---	---	---		--	--
Arsenic,SPLP	mg/L	---	---	---		--	--
Barium,SPLP	mg/L	---	---	---		--	--
Beryllium,SPLP	mg/L	---	---	---		--	--
Cadmium,SPLP	mg/L	---	---	---		--	--
Calcium,SPLP	mg/L	---	---	---		--	--
Chromium,SPLP	mg/L	---	---	---		--	--
Cobalt,SPLP	mg/L	---	---	---		--	--
Copper,SPLP	mg/L	---	---	---		--	--
Iron,SPLP	mg/L	---	---	---		--	--
Lead,SPLP	mg/L	---	---	---		--	--
Magnesium,SPLP	mg/L	---	---	---		--	--
Manganese,SPLP	mg/L	---	---	---		1.7	1.2
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
Barium,TCLP	mg/L	---	---	---		0.57	0.58
Cadmium,TCLP	mg/L	---	---	---		<0.0020	<0.0020
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	---	---	---		200	310
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	---	---	---		70	180
Manganese,TCLP	mg/L	---	---	---		0.26	0.23
Nickel,TCLP	mg/L	---	---	---		<0.010	<0.010
Potassium,TCLP	mg/L	---	---	---		1.2	0.82
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	0.031

ANALYTICAL REPORT

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

Laboratory Job ID: 500-185876-1
Client Project/Site: IDOT - Hampshire - WO 074

For:

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

Attn: Mr. Matthew Weiss



Authorized for release by:
8/17/2020 4:45:13 PM

Richard Wright, Senior Project Manager
(708)746-0045
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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 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 - Hampshire - WO 074

Job ID: 500-185876-1

Job ID: 500-185876-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-185876-1

Receipt

The samples were received on 8/3/2020 6:25 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 5.4° C, 5.7° C and 5.9° C.

GC/MS VOA

Method 8260B: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for 556207 recovered outside control limits for the following analytes: Bromomethane and Chloromethane. These analytes were not detected in the associated samples; therefore, the data have been reported. 2412V2-19-B01 (0-5) (500-185876-1), 2412V2-19-B01 (5-7.5) (500-185876-2), 2412V2-19-B02 (0-5) (500-185876-3), 2412V2-19-B02 (0-5) Dup (500-185876-4), 2412V2-19-B02 (5-7.5) (500-185876-5), 2412V2-19-B03 (0-5) (500-185876-6) and 2412V2-19-B03 (5-7.5) (500-185876-7)

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

GC/MS Semi VOA

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-556958 was outside the method criteria for the following analyte(s): 2,2'-oxybis[1-chloropropane]. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

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

Metals

Method 6010B: The continuing calibration blanks (CCB) contained zinc above the reporting limit (RL). The sample 2412V2-19-B01 (0-5) (500-185876-1), 2412V2-19-B01 (5-7.5) (500-185876-2), 2412V2-19-B02 (0-5) (500-185876-3), 2412V2-19-B02 (0-5) Dup (500-185876-4), 2412V2-19-B02 (5-7.5) (500-185876-5), 2412V2-19-B03 (0-5) (500-185876-6) and 2412V2-19-B03 (5-7.5) (500-185876-7) associated with this CCB did not contain the target compound; therefore, re-analysis of samples was 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 - Hampshire - WO 074

Job ID: 500-185876-1

Client Sample ID: 2412V2-19-B01 (0-5)

Lab Sample ID: 500-185876-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.37	J	1.2	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.5		0.58	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	100		0.58	0.066	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.85		0.23	0.054	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.041	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	10		0.29	0.076	mg/Kg	1	☼	6010B	Total/NA
Copper	17		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	19000		12	6.1	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	3600		5.8	2.9	mg/Kg	1	☼	6010B	Total/NA
Calcium	2300		12	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	560		0.58	0.084	mg/Kg	1	☼	6010B	Total/NA
Nickel	28		0.58	0.17	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.44	J	0.58	0.34	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.50	J	0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	35		0.29	0.069	mg/Kg	1	☼	6010B	Total/NA
Zinc	65		1.2	0.51	mg/Kg	1	☼	6010B	Total/NA
Potassium	1600		29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	1000		58	8.6	mg/Kg	1	☼	6010B	Total/NA
Barium	0.68		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	290		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	78		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.35		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.3	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.5		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.042		0.019	0.0064	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.20	J	0.32	0.16	mg/Kg	1	☼	9012B	Total/NA
pH	8.2		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2412V2-19-B01 (5-7.5)

Lab Sample ID: 500-185876-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.30	J	1.0	0.20	mg/Kg	1	☼	6010B	Total/NA
Arsenic	3.7		0.51	0.18	mg/Kg	1	☼	6010B	Total/NA
Barium	29		0.51	0.058	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.45		0.21	0.048	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.061	J B	0.10	0.018	mg/Kg	1	☼	6010B	Total/NA
Chromium	11		0.51	0.25	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.7		0.26	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	10		0.51	0.14	mg/Kg	1	☼	6010B	Total/NA
Iron	10000		10	5.3	mg/Kg	1	☼	6010B	Total/NA
Lead	6.7		0.26	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	30000		5.1	2.5	mg/Kg	1	☼	6010B	Total/NA
Calcium	84000		100	17	mg/Kg	10	☼	6010B	Total/NA
Manganese	270		0.51	0.074	mg/Kg	1	☼	6010B	Total/NA
Nickel	14		0.51	0.15	mg/Kg	1	☼	6010B	Total/NA
Vanadium	15		0.26	0.060	mg/Kg	1	☼	6010B	Total/NA
Zinc	33		1.0	0.45	mg/Kg	1	☼	6010B	Total/NA
Potassium	1600		26	9.1	mg/Kg	1	☼	6010B	Total/NA
Sodium	310		51	7.6	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185876-1

Client Sample ID: 2412V2-19-B01 (5-7.5) (Continued)

Lab Sample ID: 500-185876-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.31	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	710		25	2.5	mg/L	5		6010B	TCLP
Magnesium	36		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.98		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.6	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.34		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.0089	J	0.016	0.0055	mg/Kg	1	☼	7471B	Total/NA
pH	8.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2412V2-19-B02 (0-5)

Lab Sample ID: 500-185876-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.76	J	1.2	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.4		0.58	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	86		0.58	0.066	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.93		0.23	0.054	mg/Kg	1	☼	6010B	Total/NA
Chromium	21		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.29	0.075	mg/Kg	1	☼	6010B	Total/NA
Copper	19		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	22000		12	6.0	mg/Kg	1	☼	6010B	Total/NA
Lead	16		0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	3500		5.8	2.9	mg/Kg	1	☼	6010B	Total/NA
Calcium	1600		12	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	630		0.58	0.084	mg/Kg	1	☼	6010B	Total/NA
Nickel	27		0.58	0.17	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.58		0.58	0.34	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.67		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	31		0.29	0.068	mg/Kg	1	☼	6010B	Total/NA
Zinc	61		1.2	0.51	mg/Kg	1	☼	6010B	Total/NA
Potassium	1500		29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	2100		58	8.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.30	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	36		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	12		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.078		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.70	J	2.5	0.50	mg/L	1		6010B	TCLP
Mercury	0.054		0.020	0.0066	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.15	J	0.25	0.12	mg/Kg	1	☼	9012B	Total/NA
pH	7.7		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2412V2-19-B02 (0-5) Dup

Lab Sample ID: 500-185876-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.64	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.0		0.60	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	93		0.60	0.069	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.94		0.24	0.056	mg/Kg	1	☼	6010B	Total/NA
Chromium	22		0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.30	0.079	mg/Kg	1	☼	6010B	Total/NA
Copper	19		0.60	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	22000		12	6.3	mg/Kg	1	☼	6010B	Total/NA
Lead	15		0.30	0.14	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185876-1

Client Sample ID: 2412V2-19-B02 (0-5) Dup (Continued)

Lab Sample ID: 500-185876-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	3800		6.0	3.0	mg/Kg	1	☼	6010B	Total/NA
Calcium	2100		12	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	780		0.60	0.088	mg/Kg	1	☼	6010B	Total/NA
Nickel	26		0.60	0.18	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.71		0.60	0.36	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.79		0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Vanadium	33		0.30	0.071	mg/Kg	1	☼	6010B	Total/NA
Zinc	59		1.2	0.53	mg/Kg	1	☼	6010B	Total/NA
Potassium	1600		30	11	mg/Kg	1	☼	6010B	Total/NA
Sodium	2000		60	8.9	mg/Kg	1	☼	6010B	Total/NA
Barium	0.29	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	39		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	14		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.21		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.73	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	2.1		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.051		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: 2412V2-19-B02 (5-7.5)

Lab Sample ID: 500-185876-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0078	J	0.037	0.0050	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.013	J	0.037	0.0072	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.015	J	0.037	0.0080	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.015	J	0.037	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.011	J	0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.015	J	0.037	0.0069	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.011	J	0.037	0.0096	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0067	J	0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.014	J	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	5.6		0.55	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	36		0.55	0.063	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.42		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	10		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	4.6		0.28	0.072	mg/Kg	1	☼	6010B	Total/NA
Copper	12		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	11000		11	5.7	mg/Kg	1	☼	6010B	Total/NA
Lead	7.9		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	24000		5.5	2.7	mg/Kg	1	☼	6010B	Total/NA
Calcium	54000		110	19	mg/Kg	10	☼	6010B	Total/NA
Manganese	400		0.55	0.080	mg/Kg	1	☼	6010B	Total/NA
Nickel	14		0.55	0.16	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.28	J	0.55	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.28	0.065	mg/Kg	1	☼	6010B	Total/NA
Zinc	35		1.1	0.48	mg/Kg	1	☼	6010B	Total/NA
Potassium	920		28	9.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	420		55	8.2	mg/Kg	1	☼	6010B	Total/NA
Barium	0.36	J	0.50	0.050	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185876-1

Client Sample ID: 2412V2-19-B02 (5-7.5) (Continued)

Lab Sample ID: 500-185876-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	360		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	160		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.77		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.4	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.86		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.011	J	0.017	0.0056	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.13	J	0.26	0.13	mg/Kg	1	☼	9012B	Total/NA
pH	8.7		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2412V2-19-B03 (0-5)

Lab Sample ID: 500-185876-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.53	J	1.1	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.9		0.55	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	80		0.55	0.063	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.79		0.22	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.042	J B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	18		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	10		0.27	0.072	mg/Kg	1	☼	6010B	Total/NA
Copper	16		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	20000		11	5.7	mg/Kg	1	☼	6010B	Total/NA
Lead	16		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	4800		5.5	2.7	mg/Kg	1	☼	6010B	Total/NA
Calcium	5300		11	1.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	410		0.55	0.080	mg/Kg	1	☼	6010B	Total/NA
Nickel	24		0.55	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.47	J	0.55	0.32	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.57		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	28		0.27	0.065	mg/Kg	1	☼	6010B	Total/NA
Zinc	59		1.1	0.48	mg/Kg	1	☼	6010B	Total/NA
Potassium	1400		27	9.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	660		55	8.1	mg/Kg	1	☼	6010B	Total/NA
Barium	0.57		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	200		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	70		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.26		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.2	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.7		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.036		0.019	0.0064	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.26	J	0.29	0.14	mg/Kg	1	☼	9012B	Total/NA
pH	8.8		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 2412V2-19-B03 (5-7.5)

Lab Sample ID: 500-185876-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.54	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.1		0.57	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	89		0.57	0.065	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.65		0.23	0.053	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.12	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185876-1

Client Sample ID: 2412V2-19-B03 (5-7.5) (Continued)

Lab Sample ID: 500-185876-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	8.5		0.28	0.074	mg/Kg	1	☼	6010B	Total/NA
Copper	14		0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	15000		11	5.9	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	15000		5.7	2.8	mg/Kg	1	☼	6010B	Total/NA
Calcium	22000		11	1.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	500		0.57	0.082	mg/Kg	1	☼	6010B	Total/NA
Nickel	24		0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.41	J	0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	27		0.28	0.067	mg/Kg	1	☼	6010B	Total/NA
Zinc	53		1.1	0.50	mg/Kg	1	☼	6010B	Total/NA
Potassium	1300		28	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	1000		57	8.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.58		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	310		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	180		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.23		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.82	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.031	J ^	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.2		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.024		0.020	0.0067	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.21	J	0.38	0.19	mg/Kg	1	☼	9012B	Total/NA
pH	9.0		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185876-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-185876-1	2412V2-19-B01 (0-5)	Solid	08/03/20 12:45	08/03/20 18:25	
500-185876-2	2412V2-19-B01 (5-7.5)	Solid	08/03/20 12:50	08/03/20 18:25	
500-185876-3	2412V2-19-B02 (0-5)	Solid	08/03/20 13:15	08/03/20 18:25	
500-185876-4	2412V2-19-B02 (0-5) Dup	Solid	08/03/20 13:20	08/03/20 18:25	
500-185876-5	2412V2-19-B02 (5-7.5)	Solid	08/03/20 13:30	08/03/20 18:25	
500-185876-6	2412V2-19-B03 (0-5)	Solid	08/03/20 13:50	08/03/20 18:25	
500-185876-7	2412V2-19-B03 (5-7.5)	Solid	08/03/20 13:55	08/03/20 18:25	

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185876-1

Client Sample ID: 2412V2-19-B01 (0-5)

Lab Sample ID: 500-185876-1

Date Collected: 08/03/20 12:45

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 80.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0081		0.019	0.0081	mg/Kg	☼	08/04/20 17:04	08/11/20 14:24	1
Benzene	<0.00047		0.0019	0.00047	mg/Kg	☼	08/04/20 17:04	08/11/20 14:24	1
Bromodichloromethane	<0.00038		0.0019	0.00038	mg/Kg	☼	08/04/20 17:04	08/11/20 14:24	1
Bromoform	<0.00054		0.0019	0.00054	mg/Kg	☼	08/04/20 17:04	08/11/20 14:24	1
Bromomethane	<0.0018 *		0.0046	0.0018	mg/Kg	☼	08/04/20 17:04	08/11/20 14:24	1
2-Butanone (MEK)	<0.0021		0.0046	0.0021	mg/Kg	☼	08/04/20 17:04	08/11/20 14:24	1
Carbon disulfide	<0.00097		0.0046	0.00097	mg/Kg	☼	08/04/20 17:04	08/11/20 14:24	1
Carbon tetrachloride	<0.00054		0.0019	0.00054	mg/Kg	☼	08/04/20 17:04	08/11/20 14:24	1
Chlorobenzene	<0.00069		0.0019	0.00069	mg/Kg	☼	08/04/20 17:04	08/11/20 14:24	1
Chloroethane	<0.0014		0.0046	0.0014	mg/Kg	☼	08/04/20 17:04	08/11/20 14:24	1
Chloroform	<0.00064		0.0019	0.00064	mg/Kg	☼	08/04/20 17:04	08/11/20 14:24	1
Chloromethane	<0.0019 *		0.0046	0.0019	mg/Kg	☼	08/04/20 17:04	08/11/20 14:24	1
cis-1,2-Dichloroethene	<0.00052		0.0019	0.00052	mg/Kg	☼	08/04/20 17:04	08/11/20 14:24	1
cis-1,3-Dichloropropene	<0.00056		0.0019	0.00056	mg/Kg	☼	08/04/20 17:04	08/11/20 14:24	1
Dibromochloromethane	<0.00061		0.0019	0.00061	mg/Kg	☼	08/04/20 17:04	08/11/20 14:24	1
1,1-Dichloroethane	<0.00064		0.0019	0.00064	mg/Kg	☼	08/04/20 17:04	08/11/20 14:24	1
1,2-Dichloroethane	<0.0014		0.0046	0.0014	mg/Kg	☼	08/04/20 17:04	08/11/20 14:24	1
1,1-Dichloroethene	<0.00064		0.0019	0.00064	mg/Kg	☼	08/04/20 17:04	08/11/20 14:24	1
1,2-Dichloropropene	<0.00048		0.0019	0.00048	mg/Kg	☼	08/04/20 17:04	08/11/20 14:24	1
1,3-Dichloropropene, Total	<0.00065		0.0019	0.00065	mg/Kg	☼	08/04/20 17:04	08/11/20 14:24	1
Ethylbenzene	<0.00089		0.0019	0.00089	mg/Kg	☼	08/04/20 17:04	08/11/20 14:24	1
2-Hexanone	<0.0014		0.0046	0.0014	mg/Kg	☼	08/04/20 17:04	08/11/20 14:24	1
Methylene Chloride	<0.0018		0.0046	0.0018	mg/Kg	☼	08/04/20 17:04	08/11/20 14:24	1
4-Methyl-2-pentanone (MIBK)	<0.0014		0.0046	0.0014	mg/Kg	☼	08/04/20 17:04	08/11/20 14:24	1
Methyl tert-butyl ether	<0.00055		0.0019	0.00055	mg/Kg	☼	08/04/20 17:04	08/11/20 14:24	1
Styrene	<0.00056		0.0019	0.00056	mg/Kg	☼	08/04/20 17:04	08/11/20 14:24	1
1,1,2,2-Tetrachloroethane	<0.00059		0.0019	0.00059	mg/Kg	☼	08/04/20 17:04	08/11/20 14:24	1
Tetrachloroethene	<0.00063		0.0019	0.00063	mg/Kg	☼	08/04/20 17:04	08/11/20 14:24	1
Toluene	<0.00047		0.0019	0.00047	mg/Kg	☼	08/04/20 17:04	08/11/20 14:24	1
trans-1,2-Dichloroethene	<0.00082		0.0019	0.00082	mg/Kg	☼	08/04/20 17:04	08/11/20 14:24	1
trans-1,3-Dichloropropene	<0.00065		0.0019	0.00065	mg/Kg	☼	08/04/20 17:04	08/11/20 14:24	1
1,1,1-Trichloroethane	<0.00062		0.0019	0.00062	mg/Kg	☼	08/04/20 17:04	08/11/20 14:24	1
1,1,2-Trichloroethane	<0.00080		0.0019	0.00080	mg/Kg	☼	08/04/20 17:04	08/11/20 14:24	1
Trichloroethene	<0.00063		0.0019	0.00063	mg/Kg	☼	08/04/20 17:04	08/11/20 14:24	1
Vinyl acetate	<0.0016		0.0046	0.0016	mg/Kg	☼	08/04/20 17:04	08/11/20 14:24	1
Vinyl chloride	<0.00082		0.0019	0.00082	mg/Kg	☼	08/04/20 17:04	08/11/20 14:24	1
Xylenes, Total	<0.00059		0.0037	0.00059	mg/Kg	☼	08/04/20 17:04	08/11/20 14:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		75 - 131	08/04/20 17:04	08/11/20 14:24	1
Dibromofluoromethane	93		75 - 126	08/04/20 17:04	08/11/20 14:24	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	08/04/20 17:04	08/11/20 14:24	1
Toluene-d8 (Surr)	90		75 - 124	08/04/20 17:04	08/11/20 14:24	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	☼	08/14/20 06:11	08/14/20 17:32	1
Acenaphthylene	<0.0053		0.040	0.0053	mg/Kg	☼	08/14/20 06:11	08/14/20 17:32	1
Anthracene	<0.0067		0.040	0.0067	mg/Kg	☼	08/14/20 06:11	08/14/20 17:32	1
Benzo[a]anthracene	<0.0054		0.040	0.0054	mg/Kg	☼	08/14/20 06:11	08/14/20 17:32	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185876-1

Client Sample ID: 2412V2-19-B01 (0-5)

Lab Sample ID: 500-185876-1

Date Collected: 08/03/20 12:45

Matrix: Solid

Date Received: 08/03/20 18:25

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	<0.0077		0.040	0.0077	mg/Kg	☼	08/14/20 06:11	08/14/20 17:32	1
Benzo[b]fluoranthene	<0.0086		0.040	0.0086	mg/Kg	☼	08/14/20 06:11	08/14/20 17:32	1
Benzo[g,h,i]perylene	<0.013		0.040	0.013	mg/Kg	☼	08/14/20 06:11	08/14/20 17:32	1
Benzo[k]fluoranthene	<0.012		0.040	0.012	mg/Kg	☼	08/14/20 06:11	08/14/20 17:32	1
Bis(2-chloroethoxy)methane	<0.041		0.20	0.041	mg/Kg	☼	08/14/20 06:11	08/14/20 17:32	1
Bis(2-chloroethyl)ether	<0.060		0.20	0.060	mg/Kg	☼	08/14/20 06:11	08/14/20 17:32	1
Bis(2-ethylhexyl) phthalate	<0.073		0.20	0.073	mg/Kg	☼	08/14/20 06:11	08/14/20 17:32	1
4-Bromophenyl phenyl ether	<0.053		0.20	0.053	mg/Kg	☼	08/14/20 06:11	08/14/20 17:32	1
Butyl benzyl phthalate	<0.076		0.20	0.076	mg/Kg	☼	08/14/20 06:11	08/14/20 17:32	1
Carbazole	<0.10		0.20	0.10	mg/Kg	☼	08/14/20 06:11	08/14/20 17:32	1
4-Chloroaniline	<0.19		0.80	0.19	mg/Kg	☼	08/14/20 06:11	08/14/20 17:32	1
4-Chloro-3-methylphenol	<0.14		0.40	0.14	mg/Kg	☼	08/14/20 06:11	08/14/20 17:32	1
2-Chloronaphthalene	<0.044		0.20	0.044	mg/Kg	☼	08/14/20 06:11	08/14/20 17:32	1
2-Chlorophenol	<0.068		0.20	0.068	mg/Kg	☼	08/14/20 06:11	08/14/20 17:32	1
4-Chlorophenyl phenyl ether	<0.047		0.20	0.047	mg/Kg	☼	08/14/20 06:11	08/14/20 17:32	1
Chrysene	<0.011		0.040	0.011	mg/Kg	☼	08/14/20 06:11	08/14/20 17:32	1
Dibenz(a,h)anthracene	<0.0077		0.040	0.0077	mg/Kg	☼	08/14/20 06:11	08/14/20 17:32	1
Dibenzofuran	<0.047		0.20	0.047	mg/Kg	☼	08/14/20 06:11	08/14/20 17:32	1
1,2-Dichlorobenzene	<0.048		0.20	0.048	mg/Kg	☼	08/14/20 06:11	08/14/20 17:32	1
1,3-Dichlorobenzene	<0.045		0.20	0.045	mg/Kg	☼	08/14/20 06:11	08/14/20 17:32	1
1,4-Dichlorobenzene	<0.051		0.20	0.051	mg/Kg	☼	08/14/20 06:11	08/14/20 17:32	1
3,3'-Dichlorobenzidine	<0.056		0.20	0.056	mg/Kg	☼	08/14/20 06:11	08/14/20 17:32	1
2,4-Dichlorophenol	<0.095		0.40	0.095	mg/Kg	☼	08/14/20 06:11	08/14/20 17:32	1
Diethyl phthalate	<0.068		0.20	0.068	mg/Kg	☼	08/14/20 06:11	08/14/20 17:32	1
2,4-Dimethylphenol	<0.15		0.40	0.15	mg/Kg	☼	08/14/20 06:11	08/14/20 17:32	1
Dimethyl phthalate	<0.052		0.20	0.052	mg/Kg	☼	08/14/20 06:11	08/14/20 17:32	1
Di-n-butyl phthalate	<0.061		0.20	0.061	mg/Kg	☼	08/14/20 06:11	08/14/20 17:32	1
4,6-Dinitro-2-methylphenol	<0.32		0.80	0.32	mg/Kg	☼	08/14/20 06:11	08/14/20 17:32	1
2,4-Dinitrophenol	<0.70		0.80	0.70	mg/Kg	☼	08/14/20 06:11	08/14/20 17:32	1
2,4-Dinitrotoluene	<0.063		0.20	0.063	mg/Kg	☼	08/14/20 06:11	08/14/20 17:32	1
2,6-Dinitrotoluene	<0.078		0.20	0.078	mg/Kg	☼	08/14/20 06:11	08/14/20 17:32	1
Di-n-octyl phthalate	<0.065		0.20	0.065	mg/Kg	☼	08/14/20 06:11	08/14/20 17:32	1
Fluoranthene	<0.0074		0.040	0.0074	mg/Kg	☼	08/14/20 06:11	08/14/20 17:32	1
Fluorene	<0.0056		0.040	0.0056	mg/Kg	☼	08/14/20 06:11	08/14/20 17:32	1
Hexachlorobenzene	<0.0092		0.080	0.0092	mg/Kg	☼	08/14/20 06:11	08/14/20 17:32	1
Hexachlorobutadiene	<0.063		0.20	0.063	mg/Kg	☼	08/14/20 06:11	08/14/20 17:32	1
Hexachlorocyclopentadiene	<0.23		0.80	0.23	mg/Kg	☼	08/14/20 06:11	08/14/20 17:32	1
Hexachloroethane	<0.061		0.20	0.061	mg/Kg	☼	08/14/20 06:11	08/14/20 17:32	1
Indeno[1,2,3-cd]pyrene	<0.010		0.040	0.010	mg/Kg	☼	08/14/20 06:11	08/14/20 17:32	1
Isophorone	<0.045		0.20	0.045	mg/Kg	☼	08/14/20 06:11	08/14/20 17:32	1
2-Methylnaphthalene	<0.0073		0.080	0.0073	mg/Kg	☼	08/14/20 06:11	08/14/20 17:32	1
2-Methylphenol	<0.064		0.20	0.064	mg/Kg	☼	08/14/20 06:11	08/14/20 17:32	1
3 & 4 Methylphenol	<0.067		0.20	0.067	mg/Kg	☼	08/14/20 06:11	08/14/20 17:32	1
Naphthalene	<0.0061		0.040	0.0061	mg/Kg	☼	08/14/20 06:11	08/14/20 17:32	1
2-Nitroaniline	<0.054		0.20	0.054	mg/Kg	☼	08/14/20 06:11	08/14/20 17:32	1
3-Nitroaniline	<0.12		0.40	0.12	mg/Kg	☼	08/14/20 06:11	08/14/20 17:32	1
4-Nitroaniline	<0.17		0.40	0.17	mg/Kg	☼	08/14/20 06:11	08/14/20 17:32	1
Nitrobenzene	<0.010		0.040	0.010	mg/Kg	☼	08/14/20 06:11	08/14/20 17:32	1
2-Nitrophenol	<0.094		0.40	0.094	mg/Kg	☼	08/14/20 06:11	08/14/20 17:32	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185876-1

Client Sample ID: 2412V2-19-B01 (0-5)

Lab Sample ID: 500-185876-1

Date Collected: 08/03/20 12:45

Matrix: Solid

Date Received: 08/03/20 18:25

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	<0.38		0.80	0.38	mg/Kg	☼	08/14/20 06:11	08/14/20 17:32	1
N-Nitrosodi-n-propylamine	<0.049		0.080	0.049	mg/Kg	☼	08/14/20 06:11	08/14/20 17:32	1
N-Nitrosodiphenylamine	<0.047		0.20	0.047	mg/Kg	☼	08/14/20 06:11	08/14/20 17:32	1
2,2'-oxybis[1-chloropropane]	<0.046		0.20	0.046	mg/Kg	☼	08/14/20 06:11	08/14/20 17:32	1
Pentachlorophenol	<0.64		0.80	0.64	mg/Kg	☼	08/14/20 06:11	08/14/20 17:32	1
Phenanthrene	<0.0056		0.040	0.0056	mg/Kg	☼	08/14/20 06:11	08/14/20 17:32	1
Phenol	<0.089		0.20	0.089	mg/Kg	☼	08/14/20 06:11	08/14/20 17:32	1
Pyrene	<0.0079		0.040	0.0079	mg/Kg	☼	08/14/20 06:11	08/14/20 17:32	1
1,2,4-Trichlorobenzene	<0.043		0.20	0.043	mg/Kg	☼	08/14/20 06:11	08/14/20 17:32	1
2,4,5-Trichlorophenol	<0.091		0.40	0.091	mg/Kg	☼	08/14/20 06:11	08/14/20 17:32	1
2,4,6-Trichlorophenol	<0.14		0.40	0.14	mg/Kg	☼	08/14/20 06:11	08/14/20 17:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	80		43 - 145	08/14/20 06:11	08/14/20 17:32	1
2-Fluorophenol	73		31 - 166	08/14/20 06:11	08/14/20 17:32	1
Nitrobenzene-d5	63		37 - 147	08/14/20 06:11	08/14/20 17:32	1
Phenol-d5	58		30 - 153	08/14/20 06:11	08/14/20 17:32	1
Terphenyl-d14	83		42 - 157	08/14/20 06:11	08/14/20 17:32	1
2,4,6-Tribromophenol	57		31 - 143	08/14/20 06:11	08/14/20 17:32	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	☼	08/11/20 06:38	08/11/20 23:45	1
Arsenic	7.5		0.58	0.20	mg/Kg	☼	08/11/20 06:38	08/11/20 23:45	1
Barium	100		0.58	0.066	mg/Kg	☼	08/11/20 06:38	08/11/20 23:45	1
Beryllium	0.85		0.23	0.054	mg/Kg	☼	08/11/20 06:38	08/11/20 23:45	1
Cadmium	0.041	J B	0.12	0.021	mg/Kg	☼	08/11/20 06:38	08/11/20 23:45	1
Chromium	21		0.58	0.29	mg/Kg	☼	08/11/20 06:38	08/11/20 23:45	1
Cobalt	10		0.29	0.076	mg/Kg	☼	08/11/20 06:38	08/11/20 23:45	1
Copper	17		0.58	0.16	mg/Kg	☼	08/11/20 06:38	08/11/20 23:45	1
Iron	19000		12	6.1	mg/Kg	☼	08/11/20 06:38	08/11/20 23:45	1
Lead	13		0.29	0.13	mg/Kg	☼	08/11/20 06:38	08/11/20 23:45	1
Magnesium	3600		5.8	2.9	mg/Kg	☼	08/11/20 06:38	08/11/20 23:45	1
Calcium	2300		12	2.0	mg/Kg	☼	08/11/20 06:38	08/11/20 23:45	1
Manganese	560		0.58	0.084	mg/Kg	☼	08/11/20 06:38	08/11/20 23:45	1
Nickel	28		0.58	0.17	mg/Kg	☼	08/11/20 06:38	08/11/20 23:45	1
Selenium	0.44	J	0.58	0.34	mg/Kg	☼	08/11/20 06:38	08/11/20 23:45	1
Silver	<0.075		0.29	0.075	mg/Kg	☼	08/11/20 06:38	08/11/20 23:45	1
Thallium	0.50	J	0.58	0.29	mg/Kg	☼	08/11/20 06:38	08/11/20 23:45	1
Vanadium	35		0.29	0.069	mg/Kg	☼	08/11/20 06:38	08/11/20 23:45	1
Zinc	65		1.2	0.51	mg/Kg	☼	08/11/20 06:38	08/11/20 23:45	1
Potassium	1600		29	10	mg/Kg	☼	08/11/20 06:38	08/11/20 23:45	1
Sodium	1000		58	8.6	mg/Kg	☼	08/11/20 06:38	08/11/20 23:45	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/13/20 17:10	08/14/20 04:16	1
Barium	0.68		0.50	0.050	mg/L		08/13/20 17:10	08/14/20 04:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/13/20 17:10	08/14/20 04:16	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/13/20 17:10	08/14/20 04:16	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185876-1

Client Sample ID: 2412V2-19-B01 (0-5)

Lab Sample ID: 500-185876-1

Date Collected: 08/03/20 12:45

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 80.0

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		08/13/20 17:10	08/14/20 04:16	1
Chromium	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 04:16	1
Cobalt	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 04:16	1
Copper	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 04:16	1
Iron	<0.20		0.40	0.20	mg/L		08/13/20 17:10	08/14/20 04:16	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/13/20 17:10	08/14/20 04:16	1
Magnesium	78		2.5	0.50	mg/L		08/13/20 17:10	08/14/20 04:16	1
Manganese	0.35		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 04:16	1
Nickel	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 04:16	1
Potassium	1.3 J		2.5	0.50	mg/L		08/13/20 17:10	08/14/20 04:16	1
Selenium	<0.020		0.050	0.020	mg/L		08/13/20 17:10	08/14/20 04:16	1
Silver	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 04:16	1
Vanadium	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 04:16	1
Zinc	<0.020		0.50	0.020	mg/L		08/13/20 17:10	08/14/20 04:16	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		08/14/20 05:58	08/16/20 23:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/13/20 17:10	08/14/20 09:14	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/13/20 17:10	08/14/20 09:14	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/13/20 14:20	08/14/20 11:25	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	☼	08/11/20 14:25	08/12/20 07:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.20 J		0.32	0.16	mg/Kg	☼	08/14/20 13:10	08/17/20 10:15	1
pH	8.2		0.2	0.2	SU			08/06/20 19:13	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185876-1

Client Sample ID: 2412V2-19-B01 (5-7.5)

Lab Sample ID: 500-185876-2

Date Collected: 08/03/20 12:50

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 89.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0058		0.013	0.0058	mg/Kg	☼	08/04/20 17:04	08/11/20 14:49	1
Benzene	<0.00034		0.0013	0.00034	mg/Kg	☼	08/04/20 17:04	08/11/20 14:49	1
Bromodichloromethane	<0.00027		0.0013	0.00027	mg/Kg	☼	08/04/20 17:04	08/11/20 14:49	1
Bromoform	<0.00039		0.0013	0.00039	mg/Kg	☼	08/04/20 17:04	08/11/20 14:49	1
Bromomethane	<0.0012	*	0.0033	0.0012	mg/Kg	☼	08/04/20 17:04	08/11/20 14:49	1
2-Butanone (MEK)	<0.0015		0.0033	0.0015	mg/Kg	☼	08/04/20 17:04	08/11/20 14:49	1
Carbon disulfide	<0.00069		0.0033	0.00069	mg/Kg	☼	08/04/20 17:04	08/11/20 14:49	1
Carbon tetrachloride	<0.00038		0.0013	0.00038	mg/Kg	☼	08/04/20 17:04	08/11/20 14:49	1
Chlorobenzene	<0.00049		0.0013	0.00049	mg/Kg	☼	08/04/20 17:04	08/11/20 14:49	1
Chloroethane	<0.00098		0.0033	0.00098	mg/Kg	☼	08/04/20 17:04	08/11/20 14:49	1
Chloroform	<0.00046		0.0013	0.00046	mg/Kg	☼	08/04/20 17:04	08/11/20 14:49	1
Chloromethane	<0.0013	*	0.0033	0.0013	mg/Kg	☼	08/04/20 17:04	08/11/20 14:49	1
cis-1,2-Dichloroethene	<0.00037		0.0013	0.00037	mg/Kg	☼	08/04/20 17:04	08/11/20 14:49	1
cis-1,3-Dichloropropene	<0.00040		0.0013	0.00040	mg/Kg	☼	08/04/20 17:04	08/11/20 14:49	1
Dibromochloromethane	<0.00043		0.0013	0.00043	mg/Kg	☼	08/04/20 17:04	08/11/20 14:49	1
1,1-Dichloroethane	<0.00045		0.0013	0.00045	mg/Kg	☼	08/04/20 17:04	08/11/20 14:49	1
1,2-Dichloroethane	<0.0010		0.0033	0.0010	mg/Kg	☼	08/04/20 17:04	08/11/20 14:49	1
1,1-Dichloroethene	<0.00045		0.0013	0.00045	mg/Kg	☼	08/04/20 17:04	08/11/20 14:49	1
1,2-Dichloropropane	<0.00034		0.0013	0.00034	mg/Kg	☼	08/04/20 17:04	08/11/20 14:49	1
1,3-Dichloropropane, Total	<0.00046		0.0013	0.00046	mg/Kg	☼	08/04/20 17:04	08/11/20 14:49	1
Ethylbenzene	<0.00063		0.0013	0.00063	mg/Kg	☼	08/04/20 17:04	08/11/20 14:49	1
2-Hexanone	<0.0010		0.0033	0.0010	mg/Kg	☼	08/04/20 17:04	08/11/20 14:49	1
Methylene Chloride	<0.0013		0.0033	0.0013	mg/Kg	☼	08/04/20 17:04	08/11/20 14:49	1
4-Methyl-2-pentanone (MIBK)	<0.00098		0.0033	0.00098	mg/Kg	☼	08/04/20 17:04	08/11/20 14:49	1
Methyl tert-butyl ether	<0.00039		0.0013	0.00039	mg/Kg	☼	08/04/20 17:04	08/11/20 14:49	1
Styrene	<0.00040		0.0013	0.00040	mg/Kg	☼	08/04/20 17:04	08/11/20 14:49	1
1,1,2,2-Tetrachloroethane	<0.00042		0.0013	0.00042	mg/Kg	☼	08/04/20 17:04	08/11/20 14:49	1
Tetrachloroethene	<0.00045		0.0013	0.00045	mg/Kg	☼	08/04/20 17:04	08/11/20 14:49	1
Toluene	<0.00033		0.0013	0.00033	mg/Kg	☼	08/04/20 17:04	08/11/20 14:49	1
trans-1,2-Dichloroethene	<0.00059		0.0013	0.00059	mg/Kg	☼	08/04/20 17:04	08/11/20 14:49	1
trans-1,3-Dichloropropene	<0.00046		0.0013	0.00046	mg/Kg	☼	08/04/20 17:04	08/11/20 14:49	1
1,1,1-Trichloroethane	<0.00044		0.0013	0.00044	mg/Kg	☼	08/04/20 17:04	08/11/20 14:49	1
1,1,2-Trichloroethane	<0.00057		0.0013	0.00057	mg/Kg	☼	08/04/20 17:04	08/11/20 14:49	1
Trichloroethene	<0.00045		0.0013	0.00045	mg/Kg	☼	08/04/20 17:04	08/11/20 14:49	1
Vinyl acetate	<0.0011		0.0033	0.0011	mg/Kg	☼	08/04/20 17:04	08/11/20 14:49	1
Vinyl chloride	<0.00058		0.0013	0.00058	mg/Kg	☼	08/04/20 17:04	08/11/20 14:49	1
Xylenes, Total	<0.00042		0.0026	0.00042	mg/Kg	☼	08/04/20 17:04	08/11/20 14:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		75 - 131	08/04/20 17:04	08/11/20 14:49	1
Dibromofluoromethane	89		75 - 126	08/04/20 17:04	08/11/20 14:49	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 134	08/04/20 17:04	08/11/20 14:49	1
Toluene-d8 (Surr)	90		75 - 124	08/04/20 17:04	08/11/20 14:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0064		0.036	0.0064	mg/Kg	☼	08/14/20 06:11	08/14/20 17:59	1
Acenaphthylene	<0.0047		0.036	0.0047	mg/Kg	☼	08/14/20 06:11	08/14/20 17:59	1
Anthracene	<0.0060		0.036	0.0060	mg/Kg	☼	08/14/20 06:11	08/14/20 17:59	1
Benzo[a]anthracene	<0.0048		0.036	0.0048	mg/Kg	☼	08/14/20 06:11	08/14/20 17:59	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185876-1

Client Sample ID: 2412V2-19-B01 (5-7.5)

Lab Sample ID: 500-185876-2

Date Collected: 08/03/20 12:50

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 89.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.0069		0.036	0.0069	mg/Kg	☼	08/14/20 06:11	08/14/20 17:59	1
Benzo[b]fluoranthene	<0.0077		0.036	0.0077	mg/Kg	☼	08/14/20 06:11	08/14/20 17:59	1
Benzo[g,h,i]perylene	<0.012		0.036	0.012	mg/Kg	☼	08/14/20 06:11	08/14/20 17:59	1
Benzo[k]fluoranthene	<0.011		0.036	0.011	mg/Kg	☼	08/14/20 06:11	08/14/20 17:59	1
Bis(2-chloroethoxy)methane	<0.037		0.18	0.037	mg/Kg	☼	08/14/20 06:11	08/14/20 17:59	1
Bis(2-chloroethyl)ether	<0.054		0.18	0.054	mg/Kg	☼	08/14/20 06:11	08/14/20 17:59	1
Bis(2-ethylhexyl) phthalate	<0.065		0.18	0.065	mg/Kg	☼	08/14/20 06:11	08/14/20 17:59	1
4-Bromophenyl phenyl ether	<0.047		0.18	0.047	mg/Kg	☼	08/14/20 06:11	08/14/20 17:59	1
Butyl benzyl phthalate	<0.068		0.18	0.068	mg/Kg	☼	08/14/20 06:11	08/14/20 17:59	1
Carbazole	<0.089		0.18	0.089	mg/Kg	☼	08/14/20 06:11	08/14/20 17:59	1
4-Chloroaniline	<0.17		0.72	0.17	mg/Kg	☼	08/14/20 06:11	08/14/20 17:59	1
4-Chloro-3-methylphenol	<0.12		0.36	0.12	mg/Kg	☼	08/14/20 06:11	08/14/20 17:59	1
2-Chloronaphthalene	<0.040		0.18	0.040	mg/Kg	☼	08/14/20 06:11	08/14/20 17:59	1
2-Chlorophenol	<0.061		0.18	0.061	mg/Kg	☼	08/14/20 06:11	08/14/20 17:59	1
4-Chlorophenyl phenyl ether	<0.042		0.18	0.042	mg/Kg	☼	08/14/20 06:11	08/14/20 17:59	1
Chrysene	<0.0098		0.036	0.0098	mg/Kg	☼	08/14/20 06:11	08/14/20 17:59	1
Dibenz(a,h)anthracene	<0.0069		0.036	0.0069	mg/Kg	☼	08/14/20 06:11	08/14/20 17:59	1
Dibenzofuran	<0.042		0.18	0.042	mg/Kg	☼	08/14/20 06:11	08/14/20 17:59	1
1,2-Dichlorobenzene	<0.043		0.18	0.043	mg/Kg	☼	08/14/20 06:11	08/14/20 17:59	1
1,3-Dichlorobenzene	<0.040		0.18	0.040	mg/Kg	☼	08/14/20 06:11	08/14/20 17:59	1
1,4-Dichlorobenzene	<0.046		0.18	0.046	mg/Kg	☼	08/14/20 06:11	08/14/20 17:59	1
3,3'-Dichlorobenzidine	<0.050		0.18	0.050	mg/Kg	☼	08/14/20 06:11	08/14/20 17:59	1
2,4-Dichlorophenol	<0.085		0.36	0.085	mg/Kg	☼	08/14/20 06:11	08/14/20 17:59	1
Diethyl phthalate	<0.061		0.18	0.061	mg/Kg	☼	08/14/20 06:11	08/14/20 17:59	1
2,4-Dimethylphenol	<0.14		0.36	0.14	mg/Kg	☼	08/14/20 06:11	08/14/20 17:59	1
Dimethyl phthalate	<0.047		0.18	0.047	mg/Kg	☼	08/14/20 06:11	08/14/20 17:59	1
Di-n-butyl phthalate	<0.055		0.18	0.055	mg/Kg	☼	08/14/20 06:11	08/14/20 17:59	1
4,6-Dinitro-2-methylphenol	<0.29		0.72	0.29	mg/Kg	☼	08/14/20 06:11	08/14/20 17:59	1
2,4-Dinitrophenol	<0.63		0.72	0.63	mg/Kg	☼	08/14/20 06:11	08/14/20 17:59	1
2,4-Dinitrotoluene	<0.057		0.18	0.057	mg/Kg	☼	08/14/20 06:11	08/14/20 17:59	1
2,6-Dinitrotoluene	<0.070		0.18	0.070	mg/Kg	☼	08/14/20 06:11	08/14/20 17:59	1
Di-n-octyl phthalate	<0.058		0.18	0.058	mg/Kg	☼	08/14/20 06:11	08/14/20 17:59	1
Fluoranthene	<0.0066		0.036	0.0066	mg/Kg	☼	08/14/20 06:11	08/14/20 17:59	1
Fluorene	<0.0050		0.036	0.0050	mg/Kg	☼	08/14/20 06:11	08/14/20 17:59	1
Hexachlorobenzene	<0.0083		0.072	0.0083	mg/Kg	☼	08/14/20 06:11	08/14/20 17:59	1
Hexachlorobutadiene	<0.056		0.18	0.056	mg/Kg	☼	08/14/20 06:11	08/14/20 17:59	1
Hexachlorocyclopentadiene	<0.21		0.72	0.21	mg/Kg	☼	08/14/20 06:11	08/14/20 17:59	1
Hexachloroethane	<0.054		0.18	0.054	mg/Kg	☼	08/14/20 06:11	08/14/20 17:59	1
Indeno[1,2,3-cd]pyrene	<0.0093		0.036	0.0093	mg/Kg	☼	08/14/20 06:11	08/14/20 17:59	1
Isophorone	<0.040		0.18	0.040	mg/Kg	☼	08/14/20 06:11	08/14/20 17:59	1
2-Methylnaphthalene	<0.0066		0.072	0.0066	mg/Kg	☼	08/14/20 06:11	08/14/20 17:59	1
2-Methylphenol	<0.057		0.18	0.057	mg/Kg	☼	08/14/20 06:11	08/14/20 17:59	1
3 & 4 Methylphenol	<0.060		0.18	0.060	mg/Kg	☼	08/14/20 06:11	08/14/20 17:59	1
Naphthalene	<0.0055		0.036	0.0055	mg/Kg	☼	08/14/20 06:11	08/14/20 17:59	1
2-Nitroaniline	<0.048		0.18	0.048	mg/Kg	☼	08/14/20 06:11	08/14/20 17:59	1
3-Nitroaniline	<0.11		0.36	0.11	mg/Kg	☼	08/14/20 06:11	08/14/20 17:59	1
4-Nitroaniline	<0.15		0.36	0.15	mg/Kg	☼	08/14/20 06:11	08/14/20 17:59	1
Nitrobenzene	<0.0089		0.036	0.0089	mg/Kg	☼	08/14/20 06:11	08/14/20 17:59	1
2-Nitrophenol	<0.085		0.36	0.085	mg/Kg	☼	08/14/20 06:11	08/14/20 17:59	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185876-1

Client Sample ID: 2412V2-19-B01 (5-7.5)

Lab Sample ID: 500-185876-2

Date Collected: 08/03/20 12:50

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 89.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.34		0.72	0.34	mg/Kg	☼	08/14/20 06:11	08/14/20 17:59	1
N-Nitrosodi-n-propylamine	<0.044		0.072	0.044	mg/Kg	☼	08/14/20 06:11	08/14/20 17:59	1
N-Nitrosodiphenylamine	<0.042		0.18	0.042	mg/Kg	☼	08/14/20 06:11	08/14/20 17:59	1
2,2'-oxybis[1-chloropropane]	<0.041		0.18	0.041	mg/Kg	☼	08/14/20 06:11	08/14/20 17:59	1
Pentachlorophenol	<0.57		0.72	0.57	mg/Kg	☼	08/14/20 06:11	08/14/20 17:59	1
Phenanthrene	<0.0050		0.036	0.0050	mg/Kg	☼	08/14/20 06:11	08/14/20 17:59	1
Phenol	<0.080		0.18	0.080	mg/Kg	☼	08/14/20 06:11	08/14/20 17:59	1
Pyrene	<0.0071		0.036	0.0071	mg/Kg	☼	08/14/20 06:11	08/14/20 17:59	1
1,2,4-Trichlorobenzene	<0.039		0.18	0.039	mg/Kg	☼	08/14/20 06:11	08/14/20 17:59	1
2,4,5-Trichlorophenol	<0.082		0.36	0.082	mg/Kg	☼	08/14/20 06:11	08/14/20 17:59	1
2,4,6-Trichlorophenol	<0.12		0.36	0.12	mg/Kg	☼	08/14/20 06:11	08/14/20 17:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	90		43 - 145	08/14/20 06:11	08/14/20 17:59	1
2-Fluorophenol	88		31 - 166	08/14/20 06:11	08/14/20 17:59	1
Nitrobenzene-d5	78		37 - 147	08/14/20 06:11	08/14/20 17:59	1
Phenol-d5	70		30 - 153	08/14/20 06:11	08/14/20 17:59	1
Terphenyl-d14	85		42 - 157	08/14/20 06:11	08/14/20 17:59	1
2,4,6-Tribromophenol	47		31 - 143	08/14/20 06:11	08/14/20 17:59	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.30	J	1.0	0.20	mg/Kg	☼	08/11/20 06:38	08/11/20 23:49	1
Arsenic	3.7		0.51	0.18	mg/Kg	☼	08/11/20 06:38	08/11/20 23:49	1
Barium	29		0.51	0.058	mg/Kg	☼	08/11/20 06:38	08/11/20 23:49	1
Beryllium	0.45		0.21	0.048	mg/Kg	☼	08/11/20 06:38	08/11/20 23:49	1
Cadmium	0.061	J B	0.10	0.018	mg/Kg	☼	08/11/20 06:38	08/11/20 23:49	1
Chromium	11		0.51	0.25	mg/Kg	☼	08/11/20 06:38	08/11/20 23:49	1
Cobalt	5.7		0.26	0.067	mg/Kg	☼	08/11/20 06:38	08/11/20 23:49	1
Copper	10		0.51	0.14	mg/Kg	☼	08/11/20 06:38	08/11/20 23:49	1
Iron	10000		10	5.3	mg/Kg	☼	08/11/20 06:38	08/11/20 23:49	1
Lead	6.7		0.26	0.12	mg/Kg	☼	08/11/20 06:38	08/11/20 23:49	1
Magnesium	30000		5.1	2.5	mg/Kg	☼	08/11/20 06:38	08/11/20 23:49	1
Calcium	84000		100	17	mg/Kg	☼	08/11/20 06:38	08/12/20 12:26	10
Manganese	270		0.51	0.074	mg/Kg	☼	08/11/20 06:38	08/11/20 23:49	1
Nickel	14		0.51	0.15	mg/Kg	☼	08/11/20 06:38	08/11/20 23:49	1
Selenium	<0.30		0.51	0.30	mg/Kg	☼	08/11/20 06:38	08/11/20 23:49	1
Silver	<0.066		0.26	0.066	mg/Kg	☼	08/11/20 06:38	08/11/20 23:49	1
Thallium	<0.26		0.51	0.26	mg/Kg	☼	08/11/20 06:38	08/11/20 23:49	1
Vanadium	15		0.26	0.060	mg/Kg	☼	08/11/20 06:38	08/11/20 23:49	1
Zinc	33		1.0	0.45	mg/Kg	☼	08/11/20 06:38	08/11/20 23:49	1
Potassium	1600		26	9.1	mg/Kg	☼	08/11/20 06:38	08/11/20 23:49	1
Sodium	310		51	7.6	mg/Kg	☼	08/11/20 06:38	08/11/20 23:49	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/13/20 17:10	08/14/20 04:20	1
Barium	0.31	J	0.50	0.050	mg/L		08/13/20 17:10	08/14/20 04:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/13/20 17:10	08/14/20 04:20	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/13/20 17:10	08/14/20 04:20	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185876-1

Client Sample ID: 2412V2-19-B01 (5-7.5)

Lab Sample ID: 500-185876-2

Date Collected: 08/03/20 12:50

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 89.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	710		25	2.5	mg/L		08/13/20 17:10	08/14/20 08:22	5
Chromium	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 04:20	1
Cobalt	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 04:20	1
Copper	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 04:20	1
Iron	<0.20		0.40	0.20	mg/L		08/13/20 17:10	08/14/20 04:20	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/13/20 17:10	08/14/20 08:18	1
Magnesium	36		2.5	0.50	mg/L		08/13/20 17:10	08/14/20 04:20	1
Manganese	0.98		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 04:20	1
Nickel	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 04:20	1
Potassium	1.6 J		2.5	0.50	mg/L		08/13/20 17:10	08/14/20 04:20	1
Selenium	<0.020		0.050	0.020	mg/L		08/13/20 17:10	08/14/20 04:20	1
Silver	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 04:20	1
Vanadium	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 04:20	1
Zinc	<0.020		0.50	0.020	mg/L		08/13/20 17:10	08/14/20 04:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.34		0.025	0.010	mg/L		08/14/20 05:58	08/16/20 23:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/13/20 17:10	08/14/20 09:16	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/13/20 17:10	08/14/20 09:16	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/13/20 14:20	08/14/20 11:27	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0089 J		0.016	0.0055	mg/Kg	☼	08/11/20 14:25	08/12/20 07:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.11		0.22	0.11	mg/Kg	☼	08/14/20 13:10	08/17/20 10:16	1
pH	8.6		0.2	0.2	SU			08/06/20 19:16	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185876-1

Client Sample ID: 2412V2-19-B02 (0-5)

Lab Sample ID: 500-185876-3

Date Collected: 08/03/20 13:15

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0074		0.017	0.0074	mg/Kg	☼	08/04/20 17:04	08/11/20 15:15	1
Benzene	<0.00043		0.0017	0.00043	mg/Kg	☼	08/04/20 17:04	08/11/20 15:15	1
Bromodichloromethane	<0.00034		0.0017	0.00034	mg/Kg	☼	08/04/20 17:04	08/11/20 15:15	1
Bromoform	<0.00049		0.0017	0.00049	mg/Kg	☼	08/04/20 17:04	08/11/20 15:15	1
Bromomethane	<0.0016	*	0.0042	0.0016	mg/Kg	☼	08/04/20 17:04	08/11/20 15:15	1
2-Butanone (MEK)	<0.0019		0.0042	0.0019	mg/Kg	☼	08/04/20 17:04	08/11/20 15:15	1
Carbon disulfide	<0.00088		0.0042	0.00088	mg/Kg	☼	08/04/20 17:04	08/11/20 15:15	1
Carbon tetrachloride	<0.00049		0.0017	0.00049	mg/Kg	☼	08/04/20 17:04	08/11/20 15:15	1
Chlorobenzene	<0.00062		0.0017	0.00062	mg/Kg	☼	08/04/20 17:04	08/11/20 15:15	1
Chloroethane	<0.0013		0.0042	0.0013	mg/Kg	☼	08/04/20 17:04	08/11/20 15:15	1
Chloroform	<0.00059		0.0017	0.00059	mg/Kg	☼	08/04/20 17:04	08/11/20 15:15	1
Chloromethane	<0.0017	*	0.0042	0.0017	mg/Kg	☼	08/04/20 17:04	08/11/20 15:15	1
cis-1,2-Dichloroethene	<0.00047		0.0017	0.00047	mg/Kg	☼	08/04/20 17:04	08/11/20 15:15	1
cis-1,3-Dichloropropene	<0.00051		0.0017	0.00051	mg/Kg	☼	08/04/20 17:04	08/11/20 15:15	1
Dibromochloromethane	<0.00055		0.0017	0.00055	mg/Kg	☼	08/04/20 17:04	08/11/20 15:15	1
1,1-Dichloroethane	<0.00058		0.0017	0.00058	mg/Kg	☼	08/04/20 17:04	08/11/20 15:15	1
1,2-Dichloroethane	<0.0013		0.0042	0.0013	mg/Kg	☼	08/04/20 17:04	08/11/20 15:15	1
1,1-Dichloroethene	<0.00058		0.0017	0.00058	mg/Kg	☼	08/04/20 17:04	08/11/20 15:15	1
1,2-Dichloropropene	<0.00044		0.0017	0.00044	mg/Kg	☼	08/04/20 17:04	08/11/20 15:15	1
1,3-Dichloropropene, Total	<0.00059		0.0017	0.00059	mg/Kg	☼	08/04/20 17:04	08/11/20 15:15	1
Ethylbenzene	<0.00081		0.0017	0.00081	mg/Kg	☼	08/04/20 17:04	08/11/20 15:15	1
2-Hexanone	<0.0013		0.0042	0.0013	mg/Kg	☼	08/04/20 17:04	08/11/20 15:15	1
Methylene Chloride	<0.0017		0.0042	0.0017	mg/Kg	☼	08/04/20 17:04	08/11/20 15:15	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0042	0.0013	mg/Kg	☼	08/04/20 17:04	08/11/20 15:15	1
Methyl tert-butyl ether	<0.00050		0.0017	0.00050	mg/Kg	☼	08/04/20 17:04	08/11/20 15:15	1
Styrene	<0.00051		0.0017	0.00051	mg/Kg	☼	08/04/20 17:04	08/11/20 15:15	1
1,1,2,2-Tetrachloroethane	<0.00054		0.0017	0.00054	mg/Kg	☼	08/04/20 17:04	08/11/20 15:15	1
Tetrachloroethene	<0.00058		0.0017	0.00058	mg/Kg	☼	08/04/20 17:04	08/11/20 15:15	1
Toluene	<0.00043		0.0017	0.00043	mg/Kg	☼	08/04/20 17:04	08/11/20 15:15	1
trans-1,2-Dichloroethene	<0.00075		0.0017	0.00075	mg/Kg	☼	08/04/20 17:04	08/11/20 15:15	1
trans-1,3-Dichloropropene	<0.00059		0.0017	0.00059	mg/Kg	☼	08/04/20 17:04	08/11/20 15:15	1
1,1,1-Trichloroethane	<0.00057		0.0017	0.00057	mg/Kg	☼	08/04/20 17:04	08/11/20 15:15	1
1,1,2-Trichloroethane	<0.00073		0.0017	0.00073	mg/Kg	☼	08/04/20 17:04	08/11/20 15:15	1
Trichloroethene	<0.00057		0.0017	0.00057	mg/Kg	☼	08/04/20 17:04	08/11/20 15:15	1
Vinyl acetate	<0.0015		0.0042	0.0015	mg/Kg	☼	08/04/20 17:04	08/11/20 15:15	1
Vinyl chloride	<0.00075		0.0017	0.00075	mg/Kg	☼	08/04/20 17:04	08/11/20 15:15	1
Xylenes, Total	<0.00054		0.0034	0.00054	mg/Kg	☼	08/04/20 17:04	08/11/20 15:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		75 - 131	08/04/20 17:04	08/11/20 15:15	1
Dibromofluoromethane	95		75 - 126	08/04/20 17:04	08/11/20 15:15	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	08/04/20 17:04	08/11/20 15:15	1
Toluene-d8 (Surr)	88		75 - 124	08/04/20 17:04	08/11/20 15:15	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	☼	08/14/20 06:11	08/14/20 18:26	1
Acenaphthylene	<0.0053		0.040	0.0053	mg/Kg	☼	08/14/20 06:11	08/14/20 18:26	1
Anthracene	<0.0067		0.040	0.0067	mg/Kg	☼	08/14/20 06:11	08/14/20 18:26	1
Benzo[a]anthracene	<0.0054		0.040	0.0054	mg/Kg	☼	08/14/20 06:11	08/14/20 18:26	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185876-1

Client Sample ID: 2412V2-19-B02 (0-5)

Lab Sample ID: 500-185876-3

Date Collected: 08/03/20 13:15

Matrix: Solid

Date Received: 08/03/20 18:25

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	<0.0078		0.040	0.0078	mg/Kg	☼	08/14/20 06:11	08/14/20 18:26	1
Benzo[b]fluoranthene	<0.0086		0.040	0.0086	mg/Kg	☼	08/14/20 06:11	08/14/20 18:26	1
Benzo[g,h,i]perylene	<0.013		0.040	0.013	mg/Kg	☼	08/14/20 06:11	08/14/20 18:26	1
Benzo[k]fluoranthene	<0.012		0.040	0.012	mg/Kg	☼	08/14/20 06:11	08/14/20 18:26	1
Bis(2-chloroethoxy)methane	<0.041		0.20	0.041	mg/Kg	☼	08/14/20 06:11	08/14/20 18:26	1
Bis(2-chloroethyl)ether	<0.060		0.20	0.060	mg/Kg	☼	08/14/20 06:11	08/14/20 18:26	1
Bis(2-ethylhexyl) phthalate	<0.073		0.20	0.073	mg/Kg	☼	08/14/20 06:11	08/14/20 18:26	1
4-Bromophenyl phenyl ether	<0.053		0.20	0.053	mg/Kg	☼	08/14/20 06:11	08/14/20 18:26	1
Butyl benzyl phthalate	<0.076		0.20	0.076	mg/Kg	☼	08/14/20 06:11	08/14/20 18:26	1
Carbazole	<0.10		0.20	0.10	mg/Kg	☼	08/14/20 06:11	08/14/20 18:26	1
4-Chloroaniline	<0.19		0.81	0.19	mg/Kg	☼	08/14/20 06:11	08/14/20 18:26	1
4-Chloro-3-methylphenol	<0.14		0.40	0.14	mg/Kg	☼	08/14/20 06:11	08/14/20 18:26	1
2-Chloronaphthalene	<0.044		0.20	0.044	mg/Kg	☼	08/14/20 06:11	08/14/20 18:26	1
2-Chlorophenol	<0.068		0.20	0.068	mg/Kg	☼	08/14/20 06:11	08/14/20 18:26	1
4-Chlorophenyl phenyl ether	<0.047		0.20	0.047	mg/Kg	☼	08/14/20 06:11	08/14/20 18:26	1
Chrysene	<0.011		0.040	0.011	mg/Kg	☼	08/14/20 06:11	08/14/20 18:26	1
Dibenz(a,h)anthracene	<0.0077		0.040	0.0077	mg/Kg	☼	08/14/20 06:11	08/14/20 18:26	1
Dibenzofuran	<0.047		0.20	0.047	mg/Kg	☼	08/14/20 06:11	08/14/20 18:26	1
1,2-Dichlorobenzene	<0.048		0.20	0.048	mg/Kg	☼	08/14/20 06:11	08/14/20 18:26	1
1,3-Dichlorobenzene	<0.045		0.20	0.045	mg/Kg	☼	08/14/20 06:11	08/14/20 18:26	1
1,4-Dichlorobenzene	<0.051		0.20	0.051	mg/Kg	☼	08/14/20 06:11	08/14/20 18:26	1
3,3'-Dichlorobenzidine	<0.056		0.20	0.056	mg/Kg	☼	08/14/20 06:11	08/14/20 18:26	1
2,4-Dichlorophenol	<0.095		0.40	0.095	mg/Kg	☼	08/14/20 06:11	08/14/20 18:26	1
Diethyl phthalate	<0.068		0.20	0.068	mg/Kg	☼	08/14/20 06:11	08/14/20 18:26	1
2,4-Dimethylphenol	<0.15		0.40	0.15	mg/Kg	☼	08/14/20 06:11	08/14/20 18:26	1
Dimethyl phthalate	<0.052		0.20	0.052	mg/Kg	☼	08/14/20 06:11	08/14/20 18:26	1
Di-n-butyl phthalate	<0.061		0.20	0.061	mg/Kg	☼	08/14/20 06:11	08/14/20 18:26	1
4,6-Dinitro-2-methylphenol	<0.32		0.81	0.32	mg/Kg	☼	08/14/20 06:11	08/14/20 18:26	1
2,4-Dinitrophenol	<0.71		0.81	0.71	mg/Kg	☼	08/14/20 06:11	08/14/20 18:26	1
2,4-Dinitrotoluene	<0.064		0.20	0.064	mg/Kg	☼	08/14/20 06:11	08/14/20 18:26	1
2,6-Dinitrotoluene	<0.079		0.20	0.079	mg/Kg	☼	08/14/20 06:11	08/14/20 18:26	1
Di-n-octyl phthalate	<0.065		0.20	0.065	mg/Kg	☼	08/14/20 06:11	08/14/20 18:26	1
Fluoranthene	<0.0074		0.040	0.0074	mg/Kg	☼	08/14/20 06:11	08/14/20 18:26	1
Fluorene	<0.0056		0.040	0.0056	mg/Kg	☼	08/14/20 06:11	08/14/20 18:26	1
Hexachlorobenzene	<0.0093		0.081	0.0093	mg/Kg	☼	08/14/20 06:11	08/14/20 18:26	1
Hexachlorobutadiene	<0.063		0.20	0.063	mg/Kg	☼	08/14/20 06:11	08/14/20 18:26	1
Hexachlorocyclopentadiene	<0.23		0.81	0.23	mg/Kg	☼	08/14/20 06:11	08/14/20 18:26	1
Hexachloroethane	<0.061		0.20	0.061	mg/Kg	☼	08/14/20 06:11	08/14/20 18:26	1
Indeno[1,2,3-cd]pyrene	<0.010		0.040	0.010	mg/Kg	☼	08/14/20 06:11	08/14/20 18:26	1
Isophorone	<0.045		0.20	0.045	mg/Kg	☼	08/14/20 06:11	08/14/20 18:26	1
2-Methylnaphthalene	<0.0074		0.081	0.0074	mg/Kg	☼	08/14/20 06:11	08/14/20 18:26	1
2-Methylphenol	<0.064		0.20	0.064	mg/Kg	☼	08/14/20 06:11	08/14/20 18:26	1
3 & 4 Methylphenol	<0.067		0.20	0.067	mg/Kg	☼	08/14/20 06:11	08/14/20 18:26	1
Naphthalene	<0.0062		0.040	0.0062	mg/Kg	☼	08/14/20 06:11	08/14/20 18:26	1
2-Nitroaniline	<0.054		0.20	0.054	mg/Kg	☼	08/14/20 06:11	08/14/20 18:26	1
3-Nitroaniline	<0.12		0.40	0.12	mg/Kg	☼	08/14/20 06:11	08/14/20 18:26	1
4-Nitroaniline	<0.17		0.40	0.17	mg/Kg	☼	08/14/20 06:11	08/14/20 18:26	1
Nitrobenzene	<0.010		0.040	0.010	mg/Kg	☼	08/14/20 06:11	08/14/20 18:26	1
2-Nitrophenol	<0.095		0.40	0.095	mg/Kg	☼	08/14/20 06:11	08/14/20 18:26	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185876-1

Client Sample ID: 2412V2-19-B02 (0-5)

Lab Sample ID: 500-185876-3

Date Collected: 08/03/20 13:15

Matrix: Solid

Date Received: 08/03/20 18:25

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	<0.38		0.81	0.38	mg/Kg	☼	08/14/20 06:11	08/14/20 18:26	1
N-Nitrosodi-n-propylamine	<0.049		0.081	0.049	mg/Kg	☼	08/14/20 06:11	08/14/20 18:26	1
N-Nitrosodiphenylamine	<0.047		0.20	0.047	mg/Kg	☼	08/14/20 06:11	08/14/20 18:26	1
2,2'-oxybis[1-chloropropane]	<0.046		0.20	0.046	mg/Kg	☼	08/14/20 06:11	08/14/20 18:26	1
Pentachlorophenol	<0.64		0.81	0.64	mg/Kg	☼	08/14/20 06:11	08/14/20 18:26	1
Phenanthrene	<0.0056		0.040	0.0056	mg/Kg	☼	08/14/20 06:11	08/14/20 18:26	1
Phenol	<0.089		0.20	0.089	mg/Kg	☼	08/14/20 06:11	08/14/20 18:26	1
Pyrene	<0.0080		0.040	0.0080	mg/Kg	☼	08/14/20 06:11	08/14/20 18:26	1
1,2,4-Trichlorobenzene	<0.043		0.20	0.043	mg/Kg	☼	08/14/20 06:11	08/14/20 18:26	1
2,4,5-Trichlorophenol	<0.091		0.40	0.091	mg/Kg	☼	08/14/20 06:11	08/14/20 18:26	1
2,4,6-Trichlorophenol	<0.14		0.40	0.14	mg/Kg	☼	08/14/20 06:11	08/14/20 18:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	74		43 - 145				08/14/20 06:11	08/14/20 18:26	1
2-Fluorophenol	74		31 - 166				08/14/20 06:11	08/14/20 18:26	1
Nitrobenzene-d5	61		37 - 147				08/14/20 06:11	08/14/20 18:26	1
Phenol-d5	59		30 - 153				08/14/20 06:11	08/14/20 18:26	1
Terphenyl-d14	77		42 - 157				08/14/20 06:11	08/14/20 18:26	1
2,4,6-Tribromophenol	49		31 - 143				08/14/20 06:11	08/14/20 18:26	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.76	J	1.2	0.22	mg/Kg	☼	08/11/20 06:38	08/11/20 23:53	1
Arsenic	8.4		0.58	0.20	mg/Kg	☼	08/11/20 06:38	08/11/20 23:53	1
Barium	86		0.58	0.066	mg/Kg	☼	08/11/20 06:38	08/11/20 23:53	1
Beryllium	0.93		0.23	0.054	mg/Kg	☼	08/11/20 06:38	08/11/20 23:53	1
Cadmium	<0.021		0.12	0.021	mg/Kg	☼	08/11/20 06:38	08/11/20 23:53	1
Chromium	21		0.58	0.29	mg/Kg	☼	08/11/20 06:38	08/11/20 23:53	1
Cobalt	13		0.29	0.075	mg/Kg	☼	08/11/20 06:38	08/11/20 23:53	1
Copper	19		0.58	0.16	mg/Kg	☼	08/11/20 06:38	08/11/20 23:53	1
Iron	22000		12	6.0	mg/Kg	☼	08/11/20 06:38	08/11/20 23:53	1
Lead	16		0.29	0.13	mg/Kg	☼	08/11/20 06:38	08/11/20 23:53	1
Magnesium	3500		5.8	2.9	mg/Kg	☼	08/11/20 06:38	08/11/20 23:53	1
Calcium	1600		12	2.0	mg/Kg	☼	08/11/20 06:38	08/11/20 23:53	1
Manganese	630		0.58	0.084	mg/Kg	☼	08/11/20 06:38	08/11/20 23:53	1
Nickel	27		0.58	0.17	mg/Kg	☼	08/11/20 06:38	08/11/20 23:53	1
Selenium	0.58		0.58	0.34	mg/Kg	☼	08/11/20 06:38	08/11/20 23:53	1
Silver	<0.074		0.29	0.074	mg/Kg	☼	08/11/20 06:38	08/11/20 23:53	1
Thallium	0.67		0.58	0.29	mg/Kg	☼	08/11/20 06:38	08/11/20 23:53	1
Vanadium	31		0.29	0.068	mg/Kg	☼	08/11/20 06:38	08/11/20 23:53	1
Zinc	61		1.2	0.51	mg/Kg	☼	08/11/20 06:38	08/11/20 23:53	1
Potassium	1500		29	10	mg/Kg	☼	08/11/20 06:38	08/11/20 23:53	1
Sodium	2100		58	8.5	mg/Kg	☼	08/11/20 06:38	08/11/20 23:53	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		08/13/20 17:10	08/14/20 04:24	1
Barium	0.30	J	0.50	0.050	mg/L		08/13/20 17:10	08/14/20 04:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/13/20 17:10	08/14/20 04:24	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/13/20 17:10	08/14/20 04:24	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185876-1

Client Sample ID: 2412V2-19-B02 (0-5)

Lab Sample ID: 500-185876-3

Date Collected: 08/03/20 13:15

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	36		5.0	0.50	mg/L		08/13/20 17:10	08/14/20 04:24	1
Chromium	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 04:24	1
Cobalt	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 04:24	1
Copper	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 04:24	1
Iron	<0.20		0.40	0.20	mg/L		08/13/20 17:10	08/14/20 04:24	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/13/20 17:10	08/14/20 04:24	1
Magnesium	12		2.5	0.50	mg/L		08/13/20 17:10	08/14/20 04:24	1
Manganese	0.078		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 04:24	1
Nickel	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 04:24	1
Potassium	0.70	J	2.5	0.50	mg/L		08/13/20 17:10	08/14/20 04:24	1
Selenium	<0.020		0.050	0.020	mg/L		08/13/20 17:10	08/14/20 04:24	1
Silver	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 04:24	1
Vanadium	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 04:24	1
Zinc	<0.020		0.50	0.020	mg/L		08/13/20 17:10	08/14/20 04:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/13/20 17:10	08/14/20 09:18	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/13/20 17:10	08/14/20 09:18	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/13/20 14:20	08/14/20 11:34	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.054		0.020	0.0066	mg/Kg	☼	08/11/20 14:25	08/12/20 07:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.15	J	0.25	0.12	mg/Kg	☼	08/14/20 13:10	08/17/20 10:18	1
pH	7.7		0.2	0.2	SU			08/06/20 19:18	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185876-1

Client Sample ID: 2412V2-19-B02 (0-5) Dup

Lab Sample ID: 500-185876-4

Date Collected: 08/03/20 13:20

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 81.6

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	☼	08/04/20 17:04	08/11/20 15:40	1
Benzene	<0.00042		0.0016	0.00042	mg/Kg	☼	08/04/20 17:04	08/11/20 15:40	1
Bromodichloromethane	<0.00033		0.0016	0.00033	mg/Kg	☼	08/04/20 17:04	08/11/20 15:40	1
Bromoform	<0.00048		0.0016	0.00048	mg/Kg	☼	08/04/20 17:04	08/11/20 15:40	1
Bromomethane	<0.0015	*	0.0041	0.0015	mg/Kg	☼	08/04/20 17:04	08/11/20 15:40	1
2-Butanone (MEK)	<0.0018		0.0041	0.0018	mg/Kg	☼	08/04/20 17:04	08/11/20 15:40	1
Carbon disulfide	<0.00085		0.0041	0.00085	mg/Kg	☼	08/04/20 17:04	08/11/20 15:40	1
Carbon tetrachloride	<0.00047		0.0016	0.00047	mg/Kg	☼	08/04/20 17:04	08/11/20 15:40	1
Chlorobenzene	<0.00060		0.0016	0.00060	mg/Kg	☼	08/04/20 17:04	08/11/20 15:40	1
Chloroethane	<0.0012		0.0041	0.0012	mg/Kg	☼	08/04/20 17:04	08/11/20 15:40	1
Chloroform	<0.00057		0.0016	0.00057	mg/Kg	☼	08/04/20 17:04	08/11/20 15:40	1
Chloromethane	<0.0016	*	0.0041	0.0016	mg/Kg	☼	08/04/20 17:04	08/11/20 15:40	1
cis-1,2-Dichloroethene	<0.00046		0.0016	0.00046	mg/Kg	☼	08/04/20 17:04	08/11/20 15:40	1
cis-1,3-Dichloropropene	<0.00049		0.0016	0.00049	mg/Kg	☼	08/04/20 17:04	08/11/20 15:40	1
Dibromochloromethane	<0.00053		0.0016	0.00053	mg/Kg	☼	08/04/20 17:04	08/11/20 15:40	1
1,1-Dichloroethane	<0.00056		0.0016	0.00056	mg/Kg	☼	08/04/20 17:04	08/11/20 15:40	1
1,2-Dichloroethane	<0.0013		0.0041	0.0013	mg/Kg	☼	08/04/20 17:04	08/11/20 15:40	1
1,1-Dichloroethene	<0.00056		0.0016	0.00056	mg/Kg	☼	08/04/20 17:04	08/11/20 15:40	1
1,2-Dichloropropane	<0.00042		0.0016	0.00042	mg/Kg	☼	08/04/20 17:04	08/11/20 15:40	1
1,3-Dichloropropane, Total	<0.00057		0.0016	0.00057	mg/Kg	☼	08/04/20 17:04	08/11/20 15:40	1
Ethylbenzene	<0.00078		0.0016	0.00078	mg/Kg	☼	08/04/20 17:04	08/11/20 15:40	1
2-Hexanone	<0.0013		0.0041	0.0013	mg/Kg	☼	08/04/20 17:04	08/11/20 15:40	1
Methylene Chloride	<0.0016		0.0041	0.0016	mg/Kg	☼	08/04/20 17:04	08/11/20 15:40	1
4-Methyl-2-pentanone (MIBK)	<0.0012		0.0041	0.0012	mg/Kg	☼	08/04/20 17:04	08/11/20 15:40	1
Methyl tert-butyl ether	<0.00048		0.0016	0.00048	mg/Kg	☼	08/04/20 17:04	08/11/20 15:40	1
Styrene	<0.00049		0.0016	0.00049	mg/Kg	☼	08/04/20 17:04	08/11/20 15:40	1
1,1,2,2-Tetrachloroethane	<0.00052		0.0016	0.00052	mg/Kg	☼	08/04/20 17:04	08/11/20 15:40	1
Tetrachloroethene	<0.00056		0.0016	0.00056	mg/Kg	☼	08/04/20 17:04	08/11/20 15:40	1
Toluene	<0.00041		0.0016	0.00041	mg/Kg	☼	08/04/20 17:04	08/11/20 15:40	1
trans-1,2-Dichloroethene	<0.00072		0.0016	0.00072	mg/Kg	☼	08/04/20 17:04	08/11/20 15:40	1
trans-1,3-Dichloropropene	<0.00057		0.0016	0.00057	mg/Kg	☼	08/04/20 17:04	08/11/20 15:40	1
1,1,1-Trichloroethane	<0.00055		0.0016	0.00055	mg/Kg	☼	08/04/20 17:04	08/11/20 15:40	1
1,1,2-Trichloroethane	<0.00070		0.0016	0.00070	mg/Kg	☼	08/04/20 17:04	08/11/20 15:40	1
Trichloroethene	<0.00055		0.0016	0.00055	mg/Kg	☼	08/04/20 17:04	08/11/20 15:40	1
Vinyl acetate	<0.0014		0.0041	0.0014	mg/Kg	☼	08/04/20 17:04	08/11/20 15:40	1
Vinyl chloride	<0.00072		0.0016	0.00072	mg/Kg	☼	08/04/20 17:04	08/11/20 15:40	1
Xylenes, Total	<0.00052		0.0033	0.00052	mg/Kg	☼	08/04/20 17:04	08/11/20 15:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		75 - 131	08/04/20 17:04	08/11/20 15:40	1
Dibromofluoromethane	94		75 - 126	08/04/20 17:04	08/11/20 15:40	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	08/04/20 17:04	08/11/20 15:40	1
Toluene-d8 (Surr)	88		75 - 124	08/04/20 17:04	08/11/20 15:40	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	☼	08/14/20 06:11	08/14/20 18:53	1
Acenaphthylene	<0.0053		0.040	0.0053	mg/Kg	☼	08/14/20 06:11	08/14/20 18:53	1
Anthracene	<0.0067		0.040	0.0067	mg/Kg	☼	08/14/20 06:11	08/14/20 18:53	1
Benzo[a]anthracene	<0.0054		0.040	0.0054	mg/Kg	☼	08/14/20 06:11	08/14/20 18:53	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185876-1

Client Sample ID: 2412V2-19-B02 (0-5) Dup

Lab Sample ID: 500-185876-4

Date Collected: 08/03/20 13:20

Matrix: Solid

Date Received: 08/03/20 18:25

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	<0.0077		0.040	0.0077	mg/Kg	☼	08/14/20 06:11	08/14/20 18:53	1
Benzo[b]fluoranthene	<0.0086		0.040	0.0086	mg/Kg	☼	08/14/20 06:11	08/14/20 18:53	1
Benzo[g,h,i]perylene	<0.013		0.040	0.013	mg/Kg	☼	08/14/20 06:11	08/14/20 18:53	1
Benzo[k]fluoranthene	<0.012		0.040	0.012	mg/Kg	☼	08/14/20 06:11	08/14/20 18:53	1
Bis(2-chloroethoxy)methane	<0.041		0.20	0.041	mg/Kg	☼	08/14/20 06:11	08/14/20 18:53	1
Bis(2-chloroethyl)ether	<0.060		0.20	0.060	mg/Kg	☼	08/14/20 06:11	08/14/20 18:53	1
Bis(2-ethylhexyl) phthalate	<0.073		0.20	0.073	mg/Kg	☼	08/14/20 06:11	08/14/20 18:53	1
4-Bromophenyl phenyl ether	<0.053		0.20	0.053	mg/Kg	☼	08/14/20 06:11	08/14/20 18:53	1
Butyl benzyl phthalate	<0.076		0.20	0.076	mg/Kg	☼	08/14/20 06:11	08/14/20 18:53	1
Carbazole	<0.10		0.20	0.10	mg/Kg	☼	08/14/20 06:11	08/14/20 18:53	1
4-Chloroaniline	<0.19		0.81	0.19	mg/Kg	☼	08/14/20 06:11	08/14/20 18:53	1
4-Chloro-3-methylphenol	<0.14		0.40	0.14	mg/Kg	☼	08/14/20 06:11	08/14/20 18:53	1
2-Chloronaphthalene	<0.044		0.20	0.044	mg/Kg	☼	08/14/20 06:11	08/14/20 18:53	1
2-Chlorophenol	<0.068		0.20	0.068	mg/Kg	☼	08/14/20 06:11	08/14/20 18:53	1
4-Chlorophenyl phenyl ether	<0.047		0.20	0.047	mg/Kg	☼	08/14/20 06:11	08/14/20 18:53	1
Chrysene	<0.011		0.040	0.011	mg/Kg	☼	08/14/20 06:11	08/14/20 18:53	1
Dibenz(a,h)anthracene	<0.0077		0.040	0.0077	mg/Kg	☼	08/14/20 06:11	08/14/20 18:53	1
Dibenzofuran	<0.047		0.20	0.047	mg/Kg	☼	08/14/20 06:11	08/14/20 18:53	1
1,2-Dichlorobenzene	<0.048		0.20	0.048	mg/Kg	☼	08/14/20 06:11	08/14/20 18:53	1
1,3-Dichlorobenzene	<0.045		0.20	0.045	mg/Kg	☼	08/14/20 06:11	08/14/20 18:53	1
1,4-Dichlorobenzene	<0.051		0.20	0.051	mg/Kg	☼	08/14/20 06:11	08/14/20 18:53	1
3,3'-Dichlorobenzidine	<0.056		0.20	0.056	mg/Kg	☼	08/14/20 06:11	08/14/20 18:53	1
2,4-Dichlorophenol	<0.095		0.40	0.095	mg/Kg	☼	08/14/20 06:11	08/14/20 18:53	1
Diethyl phthalate	<0.068		0.20	0.068	mg/Kg	☼	08/14/20 06:11	08/14/20 18:53	1
2,4-Dimethylphenol	<0.15		0.40	0.15	mg/Kg	☼	08/14/20 06:11	08/14/20 18:53	1
Dimethyl phthalate	<0.052		0.20	0.052	mg/Kg	☼	08/14/20 06:11	08/14/20 18:53	1
Di-n-butyl phthalate	<0.061		0.20	0.061	mg/Kg	☼	08/14/20 06:11	08/14/20 18:53	1
4,6-Dinitro-2-methylphenol	<0.32		0.81	0.32	mg/Kg	☼	08/14/20 06:11	08/14/20 18:53	1
2,4-Dinitrophenol	<0.70		0.81	0.70	mg/Kg	☼	08/14/20 06:11	08/14/20 18:53	1
2,4-Dinitrotoluene	<0.064		0.20	0.064	mg/Kg	☼	08/14/20 06:11	08/14/20 18:53	1
2,6-Dinitrotoluene	<0.079		0.20	0.079	mg/Kg	☼	08/14/20 06:11	08/14/20 18:53	1
Di-n-octyl phthalate	<0.065		0.20	0.065	mg/Kg	☼	08/14/20 06:11	08/14/20 18:53	1
Fluoranthene	<0.0074		0.040	0.0074	mg/Kg	☼	08/14/20 06:11	08/14/20 18:53	1
Fluorene	<0.0056		0.040	0.0056	mg/Kg	☼	08/14/20 06:11	08/14/20 18:53	1
Hexachlorobenzene	<0.0093		0.081	0.0093	mg/Kg	☼	08/14/20 06:11	08/14/20 18:53	1
Hexachlorobutadiene	<0.063		0.20	0.063	mg/Kg	☼	08/14/20 06:11	08/14/20 18:53	1
Hexachlorocyclopentadiene	<0.23		0.81	0.23	mg/Kg	☼	08/14/20 06:11	08/14/20 18:53	1
Hexachloroethane	<0.061		0.20	0.061	mg/Kg	☼	08/14/20 06:11	08/14/20 18:53	1
Indeno[1,2,3-cd]pyrene	<0.010		0.040	0.010	mg/Kg	☼	08/14/20 06:11	08/14/20 18:53	1
Isophorone	<0.045		0.20	0.045	mg/Kg	☼	08/14/20 06:11	08/14/20 18:53	1
2-Methylnaphthalene	<0.0074		0.081	0.0074	mg/Kg	☼	08/14/20 06:11	08/14/20 18:53	1
2-Methylphenol	<0.064		0.20	0.064	mg/Kg	☼	08/14/20 06:11	08/14/20 18:53	1
3 & 4 Methylphenol	<0.067		0.20	0.067	mg/Kg	☼	08/14/20 06:11	08/14/20 18:53	1
Naphthalene	<0.0062		0.040	0.0062	mg/Kg	☼	08/14/20 06:11	08/14/20 18:53	1
2-Nitroaniline	<0.054		0.20	0.054	mg/Kg	☼	08/14/20 06:11	08/14/20 18:53	1
3-Nitroaniline	<0.12		0.40	0.12	mg/Kg	☼	08/14/20 06:11	08/14/20 18:53	1
4-Nitroaniline	<0.17		0.40	0.17	mg/Kg	☼	08/14/20 06:11	08/14/20 18:53	1
Nitrobenzene	<0.010		0.040	0.010	mg/Kg	☼	08/14/20 06:11	08/14/20 18:53	1
2-Nitrophenol	<0.095		0.40	0.095	mg/Kg	☼	08/14/20 06:11	08/14/20 18:53	1

Euofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185876-1

Client Sample ID: 2412V2-19-B02 (0-5) Dup

Lab Sample ID: 500-185876-4

Date Collected: 08/03/20 13:20

Matrix: Solid

Date Received: 08/03/20 18:25

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	☼	08/14/20 06:11	08/14/20 18:53	1
N-Nitrosodi-n-propylamine	<0.049		0.081	0.049	mg/Kg	☼	08/14/20 06:11	08/14/20 18:53	1
N-Nitrosodiphenylamine	<0.047		0.20	0.047	mg/Kg	☼	08/14/20 06:11	08/14/20 18:53	1
2,2'-oxybis[1-chloropropane]	<0.046		0.20	0.046	mg/Kg	☼	08/14/20 06:11	08/14/20 18:53	1
Pentachlorophenol	<0.64		0.81	0.64	mg/Kg	☼	08/14/20 06:11	08/14/20 18:53	1
Phenanthrene	<0.0056		0.040	0.0056	mg/Kg	☼	08/14/20 06:11	08/14/20 18:53	1
Phenol	<0.089		0.20	0.089	mg/Kg	☼	08/14/20 06:11	08/14/20 18:53	1
Pyrene	<0.0080		0.040	0.0080	mg/Kg	☼	08/14/20 06:11	08/14/20 18:53	1
1,2,4-Trichlorobenzene	<0.043		0.20	0.043	mg/Kg	☼	08/14/20 06:11	08/14/20 18:53	1
2,4,5-Trichlorophenol	<0.091		0.40	0.091	mg/Kg	☼	08/14/20 06:11	08/14/20 18:53	1
2,4,6-Trichlorophenol	<0.14		0.40	0.14	mg/Kg	☼	08/14/20 06:11	08/14/20 18:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	79		43 - 145	08/14/20 06:11	08/14/20 18:53	1
2-Fluorophenol	77		31 - 166	08/14/20 06:11	08/14/20 18:53	1
Nitrobenzene-d5	66		37 - 147	08/14/20 06:11	08/14/20 18:53	1
Phenol-d5	58		30 - 153	08/14/20 06:11	08/14/20 18:53	1
Terphenyl-d14	78		42 - 157	08/14/20 06:11	08/14/20 18:53	1
2,4,6-Tribromophenol	44		31 - 143	08/14/20 06:11	08/14/20 18:53	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.64	J	1.2	0.24	mg/Kg	☼	08/11/20 06:38	08/12/20 00:05	1
Arsenic	8.0		0.60	0.21	mg/Kg	☼	08/11/20 06:38	08/12/20 00:05	1
Barium	93		0.60	0.069	mg/Kg	☼	08/11/20 06:38	08/12/20 00:05	1
Beryllium	0.94		0.24	0.056	mg/Kg	☼	08/11/20 06:38	08/12/20 00:05	1
Cadmium	<0.022		0.12	0.022	mg/Kg	☼	08/11/20 06:38	08/12/20 00:05	1
Chromium	22		0.60	0.30	mg/Kg	☼	08/11/20 06:38	08/12/20 00:05	1
Cobalt	14		0.30	0.079	mg/Kg	☼	08/11/20 06:38	08/12/20 00:05	1
Copper	19		0.60	0.17	mg/Kg	☼	08/11/20 06:38	08/12/20 00:05	1
Iron	22000		12	6.3	mg/Kg	☼	08/11/20 06:38	08/12/20 00:05	1
Lead	15		0.30	0.14	mg/Kg	☼	08/11/20 06:38	08/12/20 00:05	1
Magnesium	3800		6.0	3.0	mg/Kg	☼	08/11/20 06:38	08/12/20 00:05	1
Calcium	2100		12	2.0	mg/Kg	☼	08/11/20 06:38	08/12/20 00:05	1
Manganese	780		0.60	0.088	mg/Kg	☼	08/11/20 06:38	08/12/20 00:05	1
Nickel	26		0.60	0.18	mg/Kg	☼	08/11/20 06:38	08/12/20 00:05	1
Selenium	0.71		0.60	0.36	mg/Kg	☼	08/11/20 06:38	08/12/20 00:05	1
Silver	<0.078		0.30	0.078	mg/Kg	☼	08/11/20 06:38	08/12/20 00:05	1
Thallium	0.79		0.60	0.30	mg/Kg	☼	08/11/20 06:38	08/12/20 00:05	1
Vanadium	33		0.30	0.071	mg/Kg	☼	08/11/20 06:38	08/12/20 00:05	1
Zinc	59		1.2	0.53	mg/Kg	☼	08/11/20 06:38	08/12/20 00:05	1
Potassium	1600		30	11	mg/Kg	☼	08/11/20 06:38	08/12/20 00:05	1
Sodium	2000		60	8.9	mg/Kg	☼	08/11/20 06:38	08/12/20 00:05	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/13/20 17:10	08/14/20 04:29	1
Barium	0.29	J	0.50	0.050	mg/L		08/13/20 17:10	08/14/20 04:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/13/20 17:10	08/14/20 04:29	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/13/20 17:10	08/14/20 04:29	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185876-1

Client Sample ID: 2412V2-19-B02 (0-5) Dup

Lab Sample ID: 500-185876-4

Date Collected: 08/03/20 13:20

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 81.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	39		5.0	0.50	mg/L		08/13/20 17:10	08/14/20 04:29	1
Chromium	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 04:29	1
Cobalt	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 04:29	1
Copper	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 04:29	1
Iron	<0.20		0.40	0.20	mg/L		08/13/20 17:10	08/14/20 04:29	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/13/20 17:10	08/14/20 04:29	1
Magnesium	14		2.5	0.50	mg/L		08/13/20 17:10	08/14/20 04:29	1
Manganese	0.21		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 04:29	1
Nickel	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 04:29	1
Potassium	0.73 J		2.5	0.50	mg/L		08/13/20 17:10	08/14/20 04:29	1
Selenium	<0.020		0.050	0.020	mg/L		08/13/20 17:10	08/14/20 04:29	1
Silver	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 04:29	1
Vanadium	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 04:29	1
Zinc	<0.020		0.50	0.020	mg/L		08/13/20 17:10	08/14/20 04:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	2.1		0.025	0.010	mg/L		08/14/20 05:58	08/16/20 23:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/13/20 17:10	08/14/20 09:20	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/13/20 17:10	08/14/20 09:20	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/13/20 14:20	08/14/20 11:36	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.051		0.019	0.0064	mg/Kg	☼	08/11/20 14:25	08/12/20 07:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.13		0.26	0.13	mg/Kg	☼	08/14/20 13:10	08/17/20 10:20	1
pH	7.8		0.2	0.2	SU			08/06/20 19:21	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185876-1

Client Sample ID: 2412V2-19-B02 (5-7.5)

Lab Sample ID: 500-185876-5

Date Collected: 08/03/20 13:30

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 89.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0069		0.016	0.0069	mg/Kg	☼	08/04/20 17:04	08/11/20 16:06	1
Benzene	<0.00041		0.0016	0.00041	mg/Kg	☼	08/04/20 17:04	08/11/20 16:06	1
Bromodichloromethane	<0.00032		0.0016	0.00032	mg/Kg	☼	08/04/20 17:04	08/11/20 16:06	1
Bromoform	<0.00047		0.0016	0.00047	mg/Kg	☼	08/04/20 17:04	08/11/20 16:06	1
Bromomethane	<0.0015 *		0.0040	0.0015	mg/Kg	☼	08/04/20 17:04	08/11/20 16:06	1
2-Butanone (MEK)	<0.0018		0.0040	0.0018	mg/Kg	☼	08/04/20 17:04	08/11/20 16:06	1
Carbon disulfide	<0.00083		0.0040	0.00083	mg/Kg	☼	08/04/20 17:04	08/11/20 16:06	1
Carbon tetrachloride	<0.00046		0.0016	0.00046	mg/Kg	☼	08/04/20 17:04	08/11/20 16:06	1
Chlorobenzene	<0.00059		0.0016	0.00059	mg/Kg	☼	08/04/20 17:04	08/11/20 16:06	1
Chloroethane	<0.0012		0.0040	0.0012	mg/Kg	☼	08/04/20 17:04	08/11/20 16:06	1
Chloroform	<0.00055		0.0016	0.00055	mg/Kg	☼	08/04/20 17:04	08/11/20 16:06	1
Chloromethane	<0.0016 *		0.0040	0.0016	mg/Kg	☼	08/04/20 17:04	08/11/20 16:06	1
cis-1,2-Dichloroethene	<0.00045		0.0016	0.00045	mg/Kg	☼	08/04/20 17:04	08/11/20 16:06	1
cis-1,3-Dichloropropene	<0.00048		0.0016	0.00048	mg/Kg	☼	08/04/20 17:04	08/11/20 16:06	1
Dibromochloromethane	<0.00052		0.0016	0.00052	mg/Kg	☼	08/04/20 17:04	08/11/20 16:06	1
1,1-Dichloroethane	<0.00055		0.0016	0.00055	mg/Kg	☼	08/04/20 17:04	08/11/20 16:06	1
1,2-Dichloroethane	<0.0012		0.0040	0.0012	mg/Kg	☼	08/04/20 17:04	08/11/20 16:06	1
1,1-Dichloroethene	<0.00055		0.0016	0.00055	mg/Kg	☼	08/04/20 17:04	08/11/20 16:06	1
1,2-Dichloropropane	<0.00041		0.0016	0.00041	mg/Kg	☼	08/04/20 17:04	08/11/20 16:06	1
1,3-Dichloropropane, Total	<0.00056		0.0016	0.00056	mg/Kg	☼	08/04/20 17:04	08/11/20 16:06	1
Ethylbenzene	<0.00076		0.0016	0.00076	mg/Kg	☼	08/04/20 17:04	08/11/20 16:06	1
2-Hexanone	<0.0012		0.0040	0.0012	mg/Kg	☼	08/04/20 17:04	08/11/20 16:06	1
Methylene Chloride	<0.0016		0.0040	0.0016	mg/Kg	☼	08/04/20 17:04	08/11/20 16:06	1
4-Methyl-2-pentanone (MIBK)	<0.0012		0.0040	0.0012	mg/Kg	☼	08/04/20 17:04	08/11/20 16:06	1
Methyl tert-butyl ether	<0.00047		0.0016	0.00047	mg/Kg	☼	08/04/20 17:04	08/11/20 16:06	1
Styrene	<0.00048		0.0016	0.00048	mg/Kg	☼	08/04/20 17:04	08/11/20 16:06	1
1,1,2,2-Tetrachloroethane	<0.00051		0.0016	0.00051	mg/Kg	☼	08/04/20 17:04	08/11/20 16:06	1
Tetrachloroethene	<0.00054		0.0016	0.00054	mg/Kg	☼	08/04/20 17:04	08/11/20 16:06	1
Toluene	<0.00040		0.0016	0.00040	mg/Kg	☼	08/04/20 17:04	08/11/20 16:06	1
trans-1,2-Dichloroethene	<0.00071		0.0016	0.00071	mg/Kg	☼	08/04/20 17:04	08/11/20 16:06	1
trans-1,3-Dichloropropene	<0.00056		0.0016	0.00056	mg/Kg	☼	08/04/20 17:04	08/11/20 16:06	1
1,1,1-Trichloroethane	<0.00053		0.0016	0.00053	mg/Kg	☼	08/04/20 17:04	08/11/20 16:06	1
1,1,2-Trichloroethane	<0.00068		0.0016	0.00068	mg/Kg	☼	08/04/20 17:04	08/11/20 16:06	1
Trichloroethene	<0.00054		0.0016	0.00054	mg/Kg	☼	08/04/20 17:04	08/11/20 16:06	1
Vinyl acetate	<0.0014		0.0040	0.0014	mg/Kg	☼	08/04/20 17:04	08/11/20 16:06	1
Vinyl chloride	<0.00070		0.0016	0.00070	mg/Kg	☼	08/04/20 17:04	08/11/20 16:06	1
Xylenes, Total	<0.00051		0.0032	0.00051	mg/Kg	☼	08/04/20 17:04	08/11/20 16:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		75 - 131	08/04/20 17:04	08/11/20 16:06	1
Dibromofluoromethane	96		75 - 126	08/04/20 17:04	08/11/20 16:06	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 134	08/04/20 17:04	08/11/20 16:06	1
Toluene-d8 (Surr)	88		75 - 124	08/04/20 17:04	08/11/20 16:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0067		0.037	0.0067	mg/Kg	☼	08/14/20 06:11	08/14/20 19:20	1
Acenaphthylene	<0.0049		0.037	0.0049	mg/Kg	☼	08/14/20 06:11	08/14/20 19:20	1
Anthracene	<0.0062		0.037	0.0062	mg/Kg	☼	08/14/20 06:11	08/14/20 19:20	1
Benzo[a]anthracene	0.0078 J		0.037	0.0050	mg/Kg	☼	08/14/20 06:11	08/14/20 19:20	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185876-1

Client Sample ID: 2412V2-19-B02 (5-7.5)

Lab Sample ID: 500-185876-5

Date Collected: 08/03/20 13:30

Matrix: Solid

Date Received: 08/03/20 18:25

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	0.013	J	0.037	0.0072	mg/Kg	☼	08/14/20 06:11	08/14/20 19:20	1
Benzo[b]fluoranthene	0.015	J	0.037	0.0080	mg/Kg	☼	08/14/20 06:11	08/14/20 19:20	1
Benzo[g,h,i]perylene	0.015	J	0.037	0.012	mg/Kg	☼	08/14/20 06:11	08/14/20 19:20	1
Benzo[k]fluoranthene	<0.011		0.037	0.011	mg/Kg	☼	08/14/20 06:11	08/14/20 19:20	1
Bis(2-chloroethoxy)methane	<0.038		0.19	0.038	mg/Kg	☼	08/14/20 06:11	08/14/20 19:20	1
Bis(2-chloroethyl)ether	<0.056		0.19	0.056	mg/Kg	☼	08/14/20 06:11	08/14/20 19:20	1
Bis(2-ethylhexyl) phthalate	<0.068		0.19	0.068	mg/Kg	☼	08/14/20 06:11	08/14/20 19:20	1
4-Bromophenyl phenyl ether	<0.049		0.19	0.049	mg/Kg	☼	08/14/20 06:11	08/14/20 19:20	1
Butyl benzyl phthalate	<0.070		0.19	0.070	mg/Kg	☼	08/14/20 06:11	08/14/20 19:20	1
Carbazole	<0.093		0.19	0.093	mg/Kg	☼	08/14/20 06:11	08/14/20 19:20	1
4-Chloroaniline	<0.17		0.75	0.17	mg/Kg	☼	08/14/20 06:11	08/14/20 19:20	1
4-Chloro-3-methylphenol	<0.13		0.37	0.13	mg/Kg	☼	08/14/20 06:11	08/14/20 19:20	1
2-Chloronaphthalene	<0.041		0.19	0.041	mg/Kg	☼	08/14/20 06:11	08/14/20 19:20	1
2-Chlorophenol	<0.063		0.19	0.063	mg/Kg	☼	08/14/20 06:11	08/14/20 19:20	1
4-Chlorophenyl phenyl ether	<0.043		0.19	0.043	mg/Kg	☼	08/14/20 06:11	08/14/20 19:20	1
Chrysene	0.011	J	0.037	0.010	mg/Kg	☼	08/14/20 06:11	08/14/20 19:20	1
Dibenz(a,h)anthracene	<0.0072		0.037	0.0072	mg/Kg	☼	08/14/20 06:11	08/14/20 19:20	1
Dibenzofuran	<0.043		0.19	0.043	mg/Kg	☼	08/14/20 06:11	08/14/20 19:20	1
1,2-Dichlorobenzene	<0.044		0.19	0.044	mg/Kg	☼	08/14/20 06:11	08/14/20 19:20	1
1,3-Dichlorobenzene	<0.042		0.19	0.042	mg/Kg	☼	08/14/20 06:11	08/14/20 19:20	1
1,4-Dichlorobenzene	<0.047		0.19	0.047	mg/Kg	☼	08/14/20 06:11	08/14/20 19:20	1
3,3'-Dichlorobenzidine	<0.052		0.19	0.052	mg/Kg	☼	08/14/20 06:11	08/14/20 19:20	1
2,4-Dichlorophenol	<0.088		0.37	0.088	mg/Kg	☼	08/14/20 06:11	08/14/20 19:20	1
Diethyl phthalate	<0.063		0.19	0.063	mg/Kg	☼	08/14/20 06:11	08/14/20 19:20	1
2,4-Dimethylphenol	<0.14		0.37	0.14	mg/Kg	☼	08/14/20 06:11	08/14/20 19:20	1
Dimethyl phthalate	<0.048		0.19	0.048	mg/Kg	☼	08/14/20 06:11	08/14/20 19:20	1
Di-n-butyl phthalate	<0.056		0.19	0.056	mg/Kg	☼	08/14/20 06:11	08/14/20 19:20	1
4,6-Dinitro-2-methylphenol	<0.30		0.75	0.30	mg/Kg	☼	08/14/20 06:11	08/14/20 19:20	1
2,4-Dinitrophenol	<0.65		0.75	0.65	mg/Kg	☼	08/14/20 06:11	08/14/20 19:20	1
2,4-Dinitrotoluene	<0.059		0.19	0.059	mg/Kg	☼	08/14/20 06:11	08/14/20 19:20	1
2,6-Dinitrotoluene	<0.073		0.19	0.073	mg/Kg	☼	08/14/20 06:11	08/14/20 19:20	1
Di-n-octyl phthalate	<0.060		0.19	0.060	mg/Kg	☼	08/14/20 06:11	08/14/20 19:20	1
Fluoranthene	0.015	J	0.037	0.0069	mg/Kg	☼	08/14/20 06:11	08/14/20 19:20	1
Fluorene	<0.0052		0.037	0.0052	mg/Kg	☼	08/14/20 06:11	08/14/20 19:20	1
Hexachlorobenzene	<0.0086		0.075	0.0086	mg/Kg	☼	08/14/20 06:11	08/14/20 19:20	1
Hexachlorobutadiene	<0.058		0.19	0.058	mg/Kg	☼	08/14/20 06:11	08/14/20 19:20	1
Hexachlorocyclopentadiene	<0.21		0.75	0.21	mg/Kg	☼	08/14/20 06:11	08/14/20 19:20	1
Hexachloroethane	<0.056		0.19	0.056	mg/Kg	☼	08/14/20 06:11	08/14/20 19:20	1
Indeno[1,2,3-cd]pyrene	0.011	J	0.037	0.0096	mg/Kg	☼	08/14/20 06:11	08/14/20 19:20	1
Isophorone	<0.042		0.19	0.042	mg/Kg	☼	08/14/20 06:11	08/14/20 19:20	1
2-Methylnaphthalene	<0.0068		0.075	0.0068	mg/Kg	☼	08/14/20 06:11	08/14/20 19:20	1
2-Methylphenol	<0.059		0.19	0.059	mg/Kg	☼	08/14/20 06:11	08/14/20 19:20	1
3 & 4 Methylphenol	<0.062		0.19	0.062	mg/Kg	☼	08/14/20 06:11	08/14/20 19:20	1
Naphthalene	<0.0057		0.037	0.0057	mg/Kg	☼	08/14/20 06:11	08/14/20 19:20	1
2-Nitroaniline	<0.050		0.19	0.050	mg/Kg	☼	08/14/20 06:11	08/14/20 19:20	1
3-Nitroaniline	<0.11		0.37	0.11	mg/Kg	☼	08/14/20 06:11	08/14/20 19:20	1
4-Nitroaniline	<0.15		0.37	0.15	mg/Kg	☼	08/14/20 06:11	08/14/20 19:20	1
Nitrobenzene	<0.0092		0.037	0.0092	mg/Kg	☼	08/14/20 06:11	08/14/20 19:20	1
2-Nitrophenol	<0.087		0.37	0.087	mg/Kg	☼	08/14/20 06:11	08/14/20 19:20	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185876-1

Client Sample ID: 2412V2-19-B02 (5-7.5)

Lab Sample ID: 500-185876-5

Date Collected: 08/03/20 13:30

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 89.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.35		0.75	0.35	mg/Kg	☼	08/14/20 06:11	08/14/20 19:20	1
N-Nitrosodi-n-propylamine	<0.045		0.075	0.045	mg/Kg	☼	08/14/20 06:11	08/14/20 19:20	1
N-Nitrosodiphenylamine	<0.044		0.19	0.044	mg/Kg	☼	08/14/20 06:11	08/14/20 19:20	1
2,2'-oxybis[1-chloropropane]	<0.043		0.19	0.043	mg/Kg	☼	08/14/20 06:11	08/14/20 19:20	1
Pentachlorophenol	<0.59		0.75	0.59	mg/Kg	☼	08/14/20 06:11	08/14/20 19:20	1
Phenanthrene	0.0067	J	0.037	0.0052	mg/Kg	☼	08/14/20 06:11	08/14/20 19:20	1
Phenol	<0.082		0.19	0.082	mg/Kg	☼	08/14/20 06:11	08/14/20 19:20	1
Pyrene	0.014	J	0.037	0.0074	mg/Kg	☼	08/14/20 06:11	08/14/20 19:20	1
1,2,4-Trichlorobenzene	<0.040		0.19	0.040	mg/Kg	☼	08/14/20 06:11	08/14/20 19:20	1
2,4,5-Trichlorophenol	<0.084		0.37	0.084	mg/Kg	☼	08/14/20 06:11	08/14/20 19:20	1
2,4,6-Trichlorophenol	<0.13		0.37	0.13	mg/Kg	☼	08/14/20 06:11	08/14/20 19:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	86		43 - 145	08/14/20 06:11	08/14/20 19:20	1
2-Fluorophenol	84		31 - 166	08/14/20 06:11	08/14/20 19:20	1
Nitrobenzene-d5	72		37 - 147	08/14/20 06:11	08/14/20 19:20	1
Phenol-d5	63		30 - 153	08/14/20 06:11	08/14/20 19:20	1
Terphenyl-d14	89		42 - 157	08/14/20 06:11	08/14/20 19:20	1
2,4,6-Tribromophenol	49		31 - 143	08/14/20 06:11	08/14/20 19:20	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	☼	08/11/20 06:38	08/12/20 00:09	1
Arsenic	5.6		0.55	0.19	mg/Kg	☼	08/11/20 06:38	08/12/20 00:09	1
Barium	36		0.55	0.063	mg/Kg	☼	08/11/20 06:38	08/12/20 00:09	1
Beryllium	0.42		0.22	0.052	mg/Kg	☼	08/11/20 06:38	08/12/20 00:09	1
Cadmium	0.12	B	0.11	0.020	mg/Kg	☼	08/11/20 06:38	08/12/20 00:09	1
Chromium	10		0.55	0.27	mg/Kg	☼	08/11/20 06:38	08/12/20 00:09	1
Cobalt	4.6		0.28	0.072	mg/Kg	☼	08/11/20 06:38	08/12/20 00:09	1
Copper	12		0.55	0.15	mg/Kg	☼	08/11/20 06:38	08/12/20 00:09	1
Iron	11000		11	5.7	mg/Kg	☼	08/11/20 06:38	08/12/20 00:09	1
Lead	7.9		0.28	0.13	mg/Kg	☼	08/11/20 06:38	08/12/20 00:09	1
Magnesium	24000		5.5	2.7	mg/Kg	☼	08/11/20 06:38	08/12/20 00:09	1
Calcium	54000		110	19	mg/Kg	☼	08/11/20 06:38	08/12/20 12:30	10
Manganese	400		0.55	0.080	mg/Kg	☼	08/11/20 06:38	08/12/20 00:09	1
Nickel	14		0.55	0.16	mg/Kg	☼	08/11/20 06:38	08/12/20 00:09	1
Selenium	<0.32		0.55	0.32	mg/Kg	☼	08/11/20 06:38	08/12/20 00:09	1
Silver	<0.071		0.28	0.071	mg/Kg	☼	08/11/20 06:38	08/12/20 00:09	1
Thallium	0.28	J	0.55	0.28	mg/Kg	☼	08/11/20 06:38	08/12/20 00:09	1
Vanadium	18		0.28	0.065	mg/Kg	☼	08/11/20 06:38	08/12/20 00:09	1
Zinc	35		1.1	0.48	mg/Kg	☼	08/11/20 06:38	08/12/20 00:09	1
Potassium	920		28	9.8	mg/Kg	☼	08/11/20 06:38	08/12/20 00:09	1
Sodium	420		55	8.2	mg/Kg	☼	08/11/20 06:38	08/12/20 00:09	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/13/20 17:10	08/14/20 04:33	1
Barium	0.36	J	0.50	0.050	mg/L		08/13/20 17:10	08/14/20 04:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/13/20 17:10	08/14/20 04:33	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/13/20 17:10	08/14/20 04:33	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185876-1

Client Sample ID: 2412V2-19-B02 (5-7.5)

Lab Sample ID: 500-185876-5

Date Collected: 08/03/20 13:30

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 89.1

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		08/13/20 17:10	08/14/20 04:33	1
Chromium	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 04:33	1
Cobalt	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 04:33	1
Copper	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 04:33	1
Iron	<0.20		0.40	0.20	mg/L		08/13/20 17:10	08/14/20 04:33	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/13/20 17:10	08/14/20 04:33	1
Magnesium	160		2.5	0.50	mg/L		08/13/20 17:10	08/14/20 04:33	1
Manganese	0.77		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 04:33	1
Nickel	0.011	J	0.025	0.010	mg/L		08/13/20 17:10	08/14/20 04:33	1
Potassium	1.4	J	2.5	0.50	mg/L		08/13/20 17:10	08/14/20 04:33	1
Selenium	<0.020		0.050	0.020	mg/L		08/13/20 17:10	08/14/20 04:33	1
Silver	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 04:33	1
Vanadium	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 04:33	1
Zinc	<0.020		0.50	0.020	mg/L		08/13/20 17:10	08/14/20 04:33	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		08/14/20 05:58	08/16/20 23:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/13/20 17:10	08/14/20 09:26	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/13/20 17:10	08/14/20 09:26	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		08/13/20 14:20	08/14/20 11:42	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	J	0.017	0.0056	mg/Kg	☼	08/11/20 14:25	08/12/20 07:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.13	J	0.26	0.13	mg/Kg	☼	08/14/20 13:10	08/17/20 10:22	1
pH	8.7		0.2	0.2	SU			08/06/20 19:23	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185876-1

Client Sample ID: 2412V2-19-B03 (0-5)

Lab Sample ID: 500-185876-6

Date Collected: 08/03/20 13:50

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0073		0.017	0.0073	mg/Kg	☼	08/04/20 17:04	08/11/20 16:31	1
Benzene	<0.00043		0.0017	0.00043	mg/Kg	☼	08/04/20 17:04	08/11/20 16:31	1
Bromodichloromethane	<0.00034		0.0017	0.00034	mg/Kg	☼	08/04/20 17:04	08/11/20 16:31	1
Bromoform	<0.00049		0.0017	0.00049	mg/Kg	☼	08/04/20 17:04	08/11/20 16:31	1
Bromomethane	<0.0016	*	0.0042	0.0016	mg/Kg	☼	08/04/20 17:04	08/11/20 16:31	1
2-Butanone (MEK)	<0.0019		0.0042	0.0019	mg/Kg	☼	08/04/20 17:04	08/11/20 16:31	1
Carbon disulfide	<0.00087		0.0042	0.00087	mg/Kg	☼	08/04/20 17:04	08/11/20 16:31	1
Carbon tetrachloride	<0.00049		0.0017	0.00049	mg/Kg	☼	08/04/20 17:04	08/11/20 16:31	1
Chlorobenzene	<0.00062		0.0017	0.00062	mg/Kg	☼	08/04/20 17:04	08/11/20 16:31	1
Chloroethane	<0.0012		0.0042	0.0012	mg/Kg	☼	08/04/20 17:04	08/11/20 16:31	1
Chloroform	<0.00058		0.0017	0.00058	mg/Kg	☼	08/04/20 17:04	08/11/20 16:31	1
Chloromethane	<0.0017	*	0.0042	0.0017	mg/Kg	☼	08/04/20 17:04	08/11/20 16:31	1
cis-1,2-Dichloroethene	<0.00047		0.0017	0.00047	mg/Kg	☼	08/04/20 17:04	08/11/20 16:31	1
cis-1,3-Dichloropropene	<0.00050		0.0017	0.00050	mg/Kg	☼	08/04/20 17:04	08/11/20 16:31	1
Dibromochloromethane	<0.00055		0.0017	0.00055	mg/Kg	☼	08/04/20 17:04	08/11/20 16:31	1
1,1-Dichloroethane	<0.00057		0.0017	0.00057	mg/Kg	☼	08/04/20 17:04	08/11/20 16:31	1
1,2-Dichloroethane	<0.0013		0.0042	0.0013	mg/Kg	☼	08/04/20 17:04	08/11/20 16:31	1
1,1-Dichloroethene	<0.00058		0.0017	0.00058	mg/Kg	☼	08/04/20 17:04	08/11/20 16:31	1
1,2-Dichloropropene	<0.00043		0.0017	0.00043	mg/Kg	☼	08/04/20 17:04	08/11/20 16:31	1
1,3-Dichloropropene, Total	<0.00059		0.0017	0.00059	mg/Kg	☼	08/04/20 17:04	08/11/20 16:31	1
Ethylbenzene	<0.00080		0.0017	0.00080	mg/Kg	☼	08/04/20 17:04	08/11/20 16:31	1
2-Hexanone	<0.0013		0.0042	0.0013	mg/Kg	☼	08/04/20 17:04	08/11/20 16:31	1
Methylene Chloride	<0.0016		0.0042	0.0016	mg/Kg	☼	08/04/20 17:04	08/11/20 16:31	1
4-Methyl-2-pentanone (MIBK)	<0.0012		0.0042	0.0012	mg/Kg	☼	08/04/20 17:04	08/11/20 16:31	1
Methyl tert-butyl ether	<0.00049		0.0017	0.00049	mg/Kg	☼	08/04/20 17:04	08/11/20 16:31	1
Styrene	<0.00051		0.0017	0.00051	mg/Kg	☼	08/04/20 17:04	08/11/20 16:31	1
1,1,2,2-Tetrachloroethane	<0.00053		0.0017	0.00053	mg/Kg	☼	08/04/20 17:04	08/11/20 16:31	1
Tetrachloroethene	<0.00057		0.0017	0.00057	mg/Kg	☼	08/04/20 17:04	08/11/20 16:31	1
Toluene	<0.00042		0.0017	0.00042	mg/Kg	☼	08/04/20 17:04	08/11/20 16:31	1
trans-1,2-Dichloroethene	<0.00074		0.0017	0.00074	mg/Kg	☼	08/04/20 17:04	08/11/20 16:31	1
trans-1,3-Dichloropropene	<0.00059		0.0017	0.00059	mg/Kg	☼	08/04/20 17:04	08/11/20 16:31	1
1,1,1-Trichloroethane	<0.00056		0.0017	0.00056	mg/Kg	☼	08/04/20 17:04	08/11/20 16:31	1
1,1,2-Trichloroethane	<0.00072		0.0017	0.00072	mg/Kg	☼	08/04/20 17:04	08/11/20 16:31	1
Trichloroethene	<0.00057		0.0017	0.00057	mg/Kg	☼	08/04/20 17:04	08/11/20 16:31	1
Vinyl acetate	<0.0015		0.0042	0.0015	mg/Kg	☼	08/04/20 17:04	08/11/20 16:31	1
Vinyl chloride	<0.00074		0.0017	0.00074	mg/Kg	☼	08/04/20 17:04	08/11/20 16:31	1
Xylenes, Total	<0.00054		0.0033	0.00054	mg/Kg	☼	08/04/20 17:04	08/11/20 16:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		75 - 131	08/04/20 17:04	08/11/20 16:31	1
Dibromofluoromethane	96		75 - 126	08/04/20 17:04	08/11/20 16:31	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	08/04/20 17:04	08/11/20 16:31	1
Toluene-d8 (Surr)	88		75 - 124	08/04/20 17:04	08/11/20 16:31	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	☼	08/14/20 06:11	08/14/20 19:48	1
Acenaphthylene	<0.0050		0.038	0.0050	mg/Kg	☼	08/14/20 06:11	08/14/20 19:48	1
Anthracene	<0.0063		0.038	0.0063	mg/Kg	☼	08/14/20 06:11	08/14/20 19:48	1
Benzo[a]anthracene	<0.0051		0.038	0.0051	mg/Kg	☼	08/14/20 06:11	08/14/20 19:48	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185876-1

Client Sample ID: 2412V2-19-B03 (0-5)

Lab Sample ID: 500-185876-6

Date Collected: 08/03/20 13:50

Matrix: Solid

Date Received: 08/03/20 18:25

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	<0.0073		0.038	0.0073	mg/Kg	☼	08/14/20 06:11	08/14/20 19:48	1
Benzo[b]fluoranthene	<0.0082		0.038	0.0082	mg/Kg	☼	08/14/20 06:11	08/14/20 19:48	1
Benzo[g,h,i]perylene	<0.012		0.038	0.012	mg/Kg	☼	08/14/20 06:11	08/14/20 19:48	1
Benzo[k]fluoranthene	<0.011		0.038	0.011	mg/Kg	☼	08/14/20 06:11	08/14/20 19:48	1
Bis(2-chloroethoxy)methane	<0.039		0.19	0.039	mg/Kg	☼	08/14/20 06:11	08/14/20 19:48	1
Bis(2-chloroethyl)ether	<0.057		0.19	0.057	mg/Kg	☼	08/14/20 06:11	08/14/20 19:48	1
Bis(2-ethylhexyl) phthalate	<0.069		0.19	0.069	mg/Kg	☼	08/14/20 06:11	08/14/20 19:48	1
4-Bromophenyl phenyl ether	<0.050		0.19	0.050	mg/Kg	☼	08/14/20 06:11	08/14/20 19:48	1
Butyl benzyl phthalate	<0.072		0.19	0.072	mg/Kg	☼	08/14/20 06:11	08/14/20 19:48	1
Carbazole	<0.094		0.19	0.094	mg/Kg	☼	08/14/20 06:11	08/14/20 19:48	1
4-Chloroaniline	<0.18		0.76	0.18	mg/Kg	☼	08/14/20 06:11	08/14/20 19:48	1
4-Chloro-3-methylphenol	<0.13		0.38	0.13	mg/Kg	☼	08/14/20 06:11	08/14/20 19:48	1
2-Chloronaphthalene	<0.042		0.19	0.042	mg/Kg	☼	08/14/20 06:11	08/14/20 19:48	1
2-Chlorophenol	<0.065		0.19	0.065	mg/Kg	☼	08/14/20 06:11	08/14/20 19:48	1
4-Chlorophenyl phenyl ether	<0.044		0.19	0.044	mg/Kg	☼	08/14/20 06:11	08/14/20 19:48	1
Chrysene	<0.010		0.038	0.010	mg/Kg	☼	08/14/20 06:11	08/14/20 19:48	1
Dibenz(a,h)anthracene	<0.0073		0.038	0.0073	mg/Kg	☼	08/14/20 06:11	08/14/20 19:48	1
Dibenzofuran	<0.044		0.19	0.044	mg/Kg	☼	08/14/20 06:11	08/14/20 19:48	1
1,2-Dichlorobenzene	<0.045		0.19	0.045	mg/Kg	☼	08/14/20 06:11	08/14/20 19:48	1
1,3-Dichlorobenzene	<0.043		0.19	0.043	mg/Kg	☼	08/14/20 06:11	08/14/20 19:48	1
1,4-Dichlorobenzene	<0.048		0.19	0.048	mg/Kg	☼	08/14/20 06:11	08/14/20 19:48	1
3,3'-Dichlorobenzidine	<0.053		0.19	0.053	mg/Kg	☼	08/14/20 06:11	08/14/20 19:48	1
2,4-Dichlorophenol	<0.090		0.38	0.090	mg/Kg	☼	08/14/20 06:11	08/14/20 19:48	1
Diethyl phthalate	<0.064		0.19	0.064	mg/Kg	☼	08/14/20 06:11	08/14/20 19:48	1
2,4-Dimethylphenol	<0.14		0.38	0.14	mg/Kg	☼	08/14/20 06:11	08/14/20 19:48	1
Dimethyl phthalate	<0.049		0.19	0.049	mg/Kg	☼	08/14/20 06:11	08/14/20 19:48	1
Di-n-butyl phthalate	<0.058		0.19	0.058	mg/Kg	☼	08/14/20 06:11	08/14/20 19:48	1
4,6-Dinitro-2-methylphenol	<0.30		0.76	0.30	mg/Kg	☼	08/14/20 06:11	08/14/20 19:48	1
2,4-Dinitrophenol	<0.67		0.76	0.67	mg/Kg	☼	08/14/20 06:11	08/14/20 19:48	1
2,4-Dinitrotoluene	<0.060		0.19	0.060	mg/Kg	☼	08/14/20 06:11	08/14/20 19:48	1
2,6-Dinitrotoluene	<0.074		0.19	0.074	mg/Kg	☼	08/14/20 06:11	08/14/20 19:48	1
Di-n-octyl phthalate	<0.062		0.19	0.062	mg/Kg	☼	08/14/20 06:11	08/14/20 19:48	1
Fluoranthene	<0.0070		0.038	0.0070	mg/Kg	☼	08/14/20 06:11	08/14/20 19:48	1
Fluorene	<0.0053		0.038	0.0053	mg/Kg	☼	08/14/20 06:11	08/14/20 19:48	1
Hexachlorobenzene	<0.0088		0.076	0.0088	mg/Kg	☼	08/14/20 06:11	08/14/20 19:48	1
Hexachlorobutadiene	<0.059		0.19	0.059	mg/Kg	☼	08/14/20 06:11	08/14/20 19:48	1
Hexachlorocyclopentadiene	<0.22		0.76	0.22	mg/Kg	☼	08/14/20 06:11	08/14/20 19:48	1
Hexachloroethane	<0.057		0.19	0.057	mg/Kg	☼	08/14/20 06:11	08/14/20 19:48	1
Indeno[1,2,3-cd]pyrene	<0.0098		0.038	0.0098	mg/Kg	☼	08/14/20 06:11	08/14/20 19:48	1
Isophorone	<0.042		0.19	0.042	mg/Kg	☼	08/14/20 06:11	08/14/20 19:48	1
2-Methylnaphthalene	<0.0070		0.076	0.0070	mg/Kg	☼	08/14/20 06:11	08/14/20 19:48	1
2-Methylphenol	<0.061		0.19	0.061	mg/Kg	☼	08/14/20 06:11	08/14/20 19:48	1
3 & 4 Methylphenol	<0.063		0.19	0.063	mg/Kg	☼	08/14/20 06:11	08/14/20 19:48	1
Naphthalene	<0.0058		0.038	0.0058	mg/Kg	☼	08/14/20 06:11	08/14/20 19:48	1
2-Nitroaniline	<0.051		0.19	0.051	mg/Kg	☼	08/14/20 06:11	08/14/20 19:48	1
3-Nitroaniline	<0.12		0.38	0.12	mg/Kg	☼	08/14/20 06:11	08/14/20 19:48	1
4-Nitroaniline	<0.16		0.38	0.16	mg/Kg	☼	08/14/20 06:11	08/14/20 19:48	1
Nitrobenzene	<0.0094		0.038	0.0094	mg/Kg	☼	08/14/20 06:11	08/14/20 19:48	1
2-Nitrophenol	<0.089		0.38	0.089	mg/Kg	☼	08/14/20 06:11	08/14/20 19:48	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185876-1

Client Sample ID: 2412V2-19-B03 (0-5)

Lab Sample ID: 500-185876-6

Date Collected: 08/03/20 13:50

Matrix: Solid

Date Received: 08/03/20 18:25

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	<0.36		0.76	0.36	mg/Kg	☼	08/14/20 06:11	08/14/20 19:48	1
N-Nitrosodi-n-propylamine	<0.046		0.076	0.046	mg/Kg	☼	08/14/20 06:11	08/14/20 19:48	1
N-Nitrosodiphenylamine	<0.045		0.19	0.045	mg/Kg	☼	08/14/20 06:11	08/14/20 19:48	1
2,2'-oxybis[1-chloropropane]	<0.044		0.19	0.044	mg/Kg	☼	08/14/20 06:11	08/14/20 19:48	1
Pentachlorophenol	<0.61		0.76	0.61	mg/Kg	☼	08/14/20 06:11	08/14/20 19:48	1
Phenanthrene	<0.0053		0.038	0.0053	mg/Kg	☼	08/14/20 06:11	08/14/20 19:48	1
Phenol	<0.084		0.19	0.084	mg/Kg	☼	08/14/20 06:11	08/14/20 19:48	1
Pyrene	<0.0075		0.038	0.0075	mg/Kg	☼	08/14/20 06:11	08/14/20 19:48	1
1,2,4-Trichlorobenzene	<0.041		0.19	0.041	mg/Kg	☼	08/14/20 06:11	08/14/20 19:48	1
2,4,5-Trichlorophenol	<0.086		0.38	0.086	mg/Kg	☼	08/14/20 06:11	08/14/20 19:48	1
2,4,6-Trichlorophenol	<0.13		0.38	0.13	mg/Kg	☼	08/14/20 06:11	08/14/20 19:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	80		43 - 145	08/14/20 06:11	08/14/20 19:48	1
2-Fluorophenol	79		31 - 166	08/14/20 06:11	08/14/20 19:48	1
Nitrobenzene-d5	68		37 - 147	08/14/20 06:11	08/14/20 19:48	1
Phenol-d5	56		30 - 153	08/14/20 06:11	08/14/20 19:48	1
Terphenyl-d14	77		42 - 157	08/14/20 06:11	08/14/20 19:48	1
2,4,6-Tribromophenol	40		31 - 143	08/14/20 06:11	08/14/20 19:48	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.53	J	1.1	0.21	mg/Kg	☼	08/11/20 06:38	08/12/20 00:13	1
Arsenic	7.9		0.55	0.19	mg/Kg	☼	08/11/20 06:38	08/12/20 00:13	1
Barium	80		0.55	0.063	mg/Kg	☼	08/11/20 06:38	08/12/20 00:13	1
Beryllium	0.79		0.22	0.051	mg/Kg	☼	08/11/20 06:38	08/12/20 00:13	1
Cadmium	0.042	J B	0.11	0.020	mg/Kg	☼	08/11/20 06:38	08/12/20 00:13	1
Chromium	18		0.55	0.27	mg/Kg	☼	08/11/20 06:38	08/12/20 00:13	1
Cobalt	10		0.27	0.072	mg/Kg	☼	08/11/20 06:38	08/12/20 00:13	1
Copper	16		0.55	0.15	mg/Kg	☼	08/11/20 06:38	08/12/20 00:13	1
Iron	20000		11	5.7	mg/Kg	☼	08/11/20 06:38	08/12/20 00:13	1
Lead	16		0.27	0.13	mg/Kg	☼	08/11/20 06:38	08/12/20 00:13	1
Magnesium	4800		5.5	2.7	mg/Kg	☼	08/11/20 06:38	08/12/20 00:13	1
Calcium	5300		11	1.9	mg/Kg	☼	08/11/20 06:38	08/12/20 00:13	1
Manganese	410		0.55	0.080	mg/Kg	☼	08/11/20 06:38	08/12/20 00:13	1
Nickel	24		0.55	0.16	mg/Kg	☼	08/11/20 06:38	08/12/20 00:13	1
Selenium	0.47	J	0.55	0.32	mg/Kg	☼	08/11/20 06:38	08/12/20 00:13	1
Silver	<0.071		0.27	0.071	mg/Kg	☼	08/11/20 06:38	08/12/20 00:13	1
Thallium	0.57		0.55	0.27	mg/Kg	☼	08/11/20 06:38	08/12/20 00:13	1
Vanadium	28		0.27	0.065	mg/Kg	☼	08/11/20 06:38	08/12/20 00:13	1
Zinc	59		1.1	0.48	mg/Kg	☼	08/11/20 06:38	08/12/20 00:13	1
Potassium	1400		27	9.7	mg/Kg	☼	08/11/20 06:38	08/12/20 00:13	1
Sodium	660		55	8.1	mg/Kg	☼	08/11/20 06:38	08/12/20 00:13	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/13/20 17:10	08/14/20 04:37	1
Barium	0.57		0.50	0.050	mg/L		08/13/20 17:10	08/14/20 04:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/13/20 17:10	08/14/20 04:37	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/13/20 17:10	08/14/20 04:37	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185876-1

Client Sample ID: 2412V2-19-B03 (0-5)

Lab Sample ID: 500-185876-6

Date Collected: 08/03/20 13:50

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	200		5.0	0.50	mg/L		08/13/20 17:10	08/14/20 04:37	1
Chromium	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 04:37	1
Cobalt	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 04:37	1
Copper	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 04:37	1
Iron	<0.20		0.40	0.20	mg/L		08/13/20 17:10	08/14/20 04:37	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/13/20 17:10	08/14/20 04:37	1
Magnesium	70		2.5	0.50	mg/L		08/13/20 17:10	08/14/20 04:37	1
Manganese	0.26		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 04:37	1
Nickel	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 04:37	1
Potassium	1.2 J		2.5	0.50	mg/L		08/13/20 17:10	08/14/20 04:37	1
Selenium	<0.020		0.050	0.020	mg/L		08/13/20 17:10	08/14/20 04:37	1
Silver	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 04:37	1
Vanadium	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 04:37	1
Zinc	<0.020		0.50	0.020	mg/L		08/13/20 17:10	08/14/20 04:37	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		08/14/20 05:58	08/16/20 23:56	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		08/13/20 17:10	08/14/20 09:29	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/13/20 17:10	08/14/20 09:29	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/13/20 14:20	08/14/20 11:45	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	☼	08/11/20 14:25	08/12/20 07:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.26 J		0.29	0.14	mg/Kg	☼	08/14/20 13:10	08/17/20 10:24	1
pH	8.8		0.2	0.2	SU			08/06/20 19:26	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185876-1

Client Sample ID: 2412V2-19-B03 (5-7.5)

Lab Sample ID: 500-185876-7

Date Collected: 08/03/20 13:55

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 80.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0073		0.017	0.0073	mg/Kg	☼	08/04/20 17:04	08/11/20 16:57	1
Benzene	<0.00043		0.0017	0.00043	mg/Kg	☼	08/04/20 17:04	08/11/20 16:57	1
Bromodichloromethane	<0.00034		0.0017	0.00034	mg/Kg	☼	08/04/20 17:04	08/11/20 16:57	1
Bromoform	<0.00049		0.0017	0.00049	mg/Kg	☼	08/04/20 17:04	08/11/20 16:57	1
Bromomethane	<0.0016	*	0.0042	0.0016	mg/Kg	☼	08/04/20 17:04	08/11/20 16:57	1
2-Butanone (MEK)	<0.0019		0.0042	0.0019	mg/Kg	☼	08/04/20 17:04	08/11/20 16:57	1
Carbon disulfide	<0.00087		0.0042	0.00087	mg/Kg	☼	08/04/20 17:04	08/11/20 16:57	1
Carbon tetrachloride	<0.00049		0.0017	0.00049	mg/Kg	☼	08/04/20 17:04	08/11/20 16:57	1
Chlorobenzene	<0.00062		0.0017	0.00062	mg/Kg	☼	08/04/20 17:04	08/11/20 16:57	1
Chloroethane	<0.0012		0.0042	0.0012	mg/Kg	☼	08/04/20 17:04	08/11/20 16:57	1
Chloroform	<0.00058		0.0017	0.00058	mg/Kg	☼	08/04/20 17:04	08/11/20 16:57	1
Chloromethane	<0.0017	*	0.0042	0.0017	mg/Kg	☼	08/04/20 17:04	08/11/20 16:57	1
cis-1,2-Dichloroethene	<0.00047		0.0017	0.00047	mg/Kg	☼	08/04/20 17:04	08/11/20 16:57	1
cis-1,3-Dichloropropene	<0.00051		0.0017	0.00051	mg/Kg	☼	08/04/20 17:04	08/11/20 16:57	1
Dibromochloromethane	<0.00055		0.0017	0.00055	mg/Kg	☼	08/04/20 17:04	08/11/20 16:57	1
1,1-Dichloroethane	<0.00057		0.0017	0.00057	mg/Kg	☼	08/04/20 17:04	08/11/20 16:57	1
1,2-Dichloroethane	<0.0013		0.0042	0.0013	mg/Kg	☼	08/04/20 17:04	08/11/20 16:57	1
1,1-Dichloroethene	<0.00058		0.0017	0.00058	mg/Kg	☼	08/04/20 17:04	08/11/20 16:57	1
1,2-Dichloropropane	<0.00043		0.0017	0.00043	mg/Kg	☼	08/04/20 17:04	08/11/20 16:57	1
1,3-Dichloropropane, Total	<0.00059		0.0017	0.00059	mg/Kg	☼	08/04/20 17:04	08/11/20 16:57	1
Ethylbenzene	<0.00080		0.0017	0.00080	mg/Kg	☼	08/04/20 17:04	08/11/20 16:57	1
2-Hexanone	<0.0013		0.0042	0.0013	mg/Kg	☼	08/04/20 17:04	08/11/20 16:57	1
Methylene Chloride	<0.0017		0.0042	0.0017	mg/Kg	☼	08/04/20 17:04	08/11/20 16:57	1
4-Methyl-2-pentanone (MIBK)	<0.0012		0.0042	0.0012	mg/Kg	☼	08/04/20 17:04	08/11/20 16:57	1
Methyl tert-butyl ether	<0.00049		0.0017	0.00049	mg/Kg	☼	08/04/20 17:04	08/11/20 16:57	1
Styrene	<0.00051		0.0017	0.00051	mg/Kg	☼	08/04/20 17:04	08/11/20 16:57	1
1,1,2,2-Tetrachloroethane	<0.00054		0.0017	0.00054	mg/Kg	☼	08/04/20 17:04	08/11/20 16:57	1
Tetrachloroethene	<0.00057		0.0017	0.00057	mg/Kg	☼	08/04/20 17:04	08/11/20 16:57	1
Toluene	<0.00042		0.0017	0.00042	mg/Kg	☼	08/04/20 17:04	08/11/20 16:57	1
trans-1,2-Dichloroethene	<0.00074		0.0017	0.00074	mg/Kg	☼	08/04/20 17:04	08/11/20 16:57	1
trans-1,3-Dichloropropene	<0.00059		0.0017	0.00059	mg/Kg	☼	08/04/20 17:04	08/11/20 16:57	1
1,1,1-Trichloroethane	<0.00056		0.0017	0.00056	mg/Kg	☼	08/04/20 17:04	08/11/20 16:57	1
1,1,2-Trichloroethane	<0.00072		0.0017	0.00072	mg/Kg	☼	08/04/20 17:04	08/11/20 16:57	1
Trichloroethene	<0.00057		0.0017	0.00057	mg/Kg	☼	08/04/20 17:04	08/11/20 16:57	1
Vinyl acetate	<0.0015		0.0042	0.0015	mg/Kg	☼	08/04/20 17:04	08/11/20 16:57	1
Vinyl chloride	<0.00074		0.0017	0.00074	mg/Kg	☼	08/04/20 17:04	08/11/20 16:57	1
Xylenes, Total	<0.00054		0.0034	0.00054	mg/Kg	☼	08/04/20 17:04	08/11/20 16:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		75 - 131	08/04/20 17:04	08/11/20 16:57	1
Dibromofluoromethane	94		75 - 126	08/04/20 17:04	08/11/20 16:57	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	08/04/20 17:04	08/11/20 16:57	1
Toluene-d8 (Surr)	89		75 - 124	08/04/20 17:04	08/11/20 16:57	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	☼	08/14/20 06:11	08/14/20 20:14	1
Acenaphthylene	<0.0053		0.040	0.0053	mg/Kg	☼	08/14/20 06:11	08/14/20 20:14	1
Anthracene	<0.0067		0.040	0.0067	mg/Kg	☼	08/14/20 06:11	08/14/20 20:14	1
Benzo[a]anthracene	<0.0054		0.040	0.0054	mg/Kg	☼	08/14/20 06:11	08/14/20 20:14	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185876-1

Client Sample ID: 2412V2-19-B03 (5-7.5)

Lab Sample ID: 500-185876-7

Date Collected: 08/03/20 13:55

Matrix: Solid

Date Received: 08/03/20 18:25

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	<0.0078		0.040	0.0078	mg/Kg	☼	08/14/20 06:11	08/14/20 20:14	1
Benzo[b]fluoranthene	<0.0086		0.040	0.0086	mg/Kg	☼	08/14/20 06:11	08/14/20 20:14	1
Benzo[g,h,i]perylene	<0.013		0.040	0.013	mg/Kg	☼	08/14/20 06:11	08/14/20 20:14	1
Benzo[k]fluoranthene	<0.012		0.040	0.012	mg/Kg	☼	08/14/20 06:11	08/14/20 20:14	1
Bis(2-chloroethoxy)methane	<0.041		0.20	0.041	mg/Kg	☼	08/14/20 06:11	08/14/20 20:14	1
Bis(2-chloroethyl)ether	<0.060		0.20	0.060	mg/Kg	☼	08/14/20 06:11	08/14/20 20:14	1
Bis(2-ethylhexyl) phthalate	<0.073		0.20	0.073	mg/Kg	☼	08/14/20 06:11	08/14/20 20:14	1
4-Bromophenyl phenyl ether	<0.053		0.20	0.053	mg/Kg	☼	08/14/20 06:11	08/14/20 20:14	1
Butyl benzyl phthalate	<0.076		0.20	0.076	mg/Kg	☼	08/14/20 06:11	08/14/20 20:14	1
Carbazole	<0.10		0.20	0.10	mg/Kg	☼	08/14/20 06:11	08/14/20 20:14	1
4-Chloroaniline	<0.19		0.81	0.19	mg/Kg	☼	08/14/20 06:11	08/14/20 20:14	1
4-Chloro-3-methylphenol	<0.14		0.40	0.14	mg/Kg	☼	08/14/20 06:11	08/14/20 20:14	1
2-Chloronaphthalene	<0.044		0.20	0.044	mg/Kg	☼	08/14/20 06:11	08/14/20 20:14	1
2-Chlorophenol	<0.068		0.20	0.068	mg/Kg	☼	08/14/20 06:11	08/14/20 20:14	1
4-Chlorophenyl phenyl ether	<0.047		0.20	0.047	mg/Kg	☼	08/14/20 06:11	08/14/20 20:14	1
Chrysene	<0.011		0.040	0.011	mg/Kg	☼	08/14/20 06:11	08/14/20 20:14	1
Dibenz(a,h)anthracene	<0.0077		0.040	0.0077	mg/Kg	☼	08/14/20 06:11	08/14/20 20:14	1
Dibenzofuran	<0.047		0.20	0.047	mg/Kg	☼	08/14/20 06:11	08/14/20 20:14	1
1,2-Dichlorobenzene	<0.048		0.20	0.048	mg/Kg	☼	08/14/20 06:11	08/14/20 20:14	1
1,3-Dichlorobenzene	<0.045		0.20	0.045	mg/Kg	☼	08/14/20 06:11	08/14/20 20:14	1
1,4-Dichlorobenzene	<0.051		0.20	0.051	mg/Kg	☼	08/14/20 06:11	08/14/20 20:14	1
3,3'-Dichlorobenzidine	<0.056		0.20	0.056	mg/Kg	☼	08/14/20 06:11	08/14/20 20:14	1
2,4-Dichlorophenol	<0.095		0.40	0.095	mg/Kg	☼	08/14/20 06:11	08/14/20 20:14	1
Diethyl phthalate	<0.068		0.20	0.068	mg/Kg	☼	08/14/20 06:11	08/14/20 20:14	1
2,4-Dimethylphenol	<0.15		0.40	0.15	mg/Kg	☼	08/14/20 06:11	08/14/20 20:14	1
Dimethyl phthalate	<0.052		0.20	0.052	mg/Kg	☼	08/14/20 06:11	08/14/20 20:14	1
Di-n-butyl phthalate	<0.061		0.20	0.061	mg/Kg	☼	08/14/20 06:11	08/14/20 20:14	1
4,6-Dinitro-2-methylphenol	<0.32		0.81	0.32	mg/Kg	☼	08/14/20 06:11	08/14/20 20:14	1
2,4-Dinitrophenol	<0.71		0.81	0.71	mg/Kg	☼	08/14/20 06:11	08/14/20 20:14	1
2,4-Dinitrotoluene	<0.064		0.20	0.064	mg/Kg	☼	08/14/20 06:11	08/14/20 20:14	1
2,6-Dinitrotoluene	<0.079		0.20	0.079	mg/Kg	☼	08/14/20 06:11	08/14/20 20:14	1
Di-n-octyl phthalate	<0.065		0.20	0.065	mg/Kg	☼	08/14/20 06:11	08/14/20 20:14	1
Fluoranthene	<0.0074		0.040	0.0074	mg/Kg	☼	08/14/20 06:11	08/14/20 20:14	1
Fluorene	<0.0056		0.040	0.0056	mg/Kg	☼	08/14/20 06:11	08/14/20 20:14	1
Hexachlorobenzene	<0.0093		0.081	0.0093	mg/Kg	☼	08/14/20 06:11	08/14/20 20:14	1
Hexachlorobutadiene	<0.063		0.20	0.063	mg/Kg	☼	08/14/20 06:11	08/14/20 20:14	1
Hexachlorocyclopentadiene	<0.23		0.81	0.23	mg/Kg	☼	08/14/20 06:11	08/14/20 20:14	1
Hexachloroethane	<0.061		0.20	0.061	mg/Kg	☼	08/14/20 06:11	08/14/20 20:14	1
Indeno[1,2,3-cd]pyrene	<0.010		0.040	0.010	mg/Kg	☼	08/14/20 06:11	08/14/20 20:14	1
Isophorone	<0.045		0.20	0.045	mg/Kg	☼	08/14/20 06:11	08/14/20 20:14	1
2-Methylnaphthalene	<0.0074		0.081	0.0074	mg/Kg	☼	08/14/20 06:11	08/14/20 20:14	1
2-Methylphenol	<0.064		0.20	0.064	mg/Kg	☼	08/14/20 06:11	08/14/20 20:14	1
3 & 4 Methylphenol	<0.067		0.20	0.067	mg/Kg	☼	08/14/20 06:11	08/14/20 20:14	1
Naphthalene	<0.0062		0.040	0.0062	mg/Kg	☼	08/14/20 06:11	08/14/20 20:14	1
2-Nitroaniline	<0.054		0.20	0.054	mg/Kg	☼	08/14/20 06:11	08/14/20 20:14	1
3-Nitroaniline	<0.12		0.40	0.12	mg/Kg	☼	08/14/20 06:11	08/14/20 20:14	1
4-Nitroaniline	<0.17		0.40	0.17	mg/Kg	☼	08/14/20 06:11	08/14/20 20:14	1
Nitrobenzene	<0.010		0.040	0.010	mg/Kg	☼	08/14/20 06:11	08/14/20 20:14	1
2-Nitrophenol	<0.095		0.40	0.095	mg/Kg	☼	08/14/20 06:11	08/14/20 20:14	1

Euofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185876-1

Client Sample ID: 2412V2-19-B03 (5-7.5)

Lab Sample ID: 500-185876-7

Date Collected: 08/03/20 13:55

Matrix: Solid

Date Received: 08/03/20 18:25

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		0.81	0.38	mg/Kg	☼	08/14/20 06:11	08/14/20 20:14	1
N-Nitrosodi-n-propylamine	<0.049		0.081	0.049	mg/Kg	☼	08/14/20 06:11	08/14/20 20:14	1
N-Nitrosodiphenylamine	<0.047		0.20	0.047	mg/Kg	☼	08/14/20 06:11	08/14/20 20:14	1
2,2'-oxybis[1-chloropropane]	<0.046		0.20	0.046	mg/Kg	☼	08/14/20 06:11	08/14/20 20:14	1
Pentachlorophenol	<0.64		0.81	0.64	mg/Kg	☼	08/14/20 06:11	08/14/20 20:14	1
Phenanthrene	<0.0056		0.040	0.0056	mg/Kg	☼	08/14/20 06:11	08/14/20 20:14	1
Phenol	<0.089		0.20	0.089	mg/Kg	☼	08/14/20 06:11	08/14/20 20:14	1
Pyrene	<0.0080		0.040	0.0080	mg/Kg	☼	08/14/20 06:11	08/14/20 20:14	1
1,2,4-Trichlorobenzene	<0.043		0.20	0.043	mg/Kg	☼	08/14/20 06:11	08/14/20 20:14	1
2,4,5-Trichlorophenol	<0.091		0.40	0.091	mg/Kg	☼	08/14/20 06:11	08/14/20 20:14	1
2,4,6-Trichlorophenol	<0.14		0.40	0.14	mg/Kg	☼	08/14/20 06:11	08/14/20 20:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	82		43 - 145	08/14/20 06:11	08/14/20 20:14	1
2-Fluorophenol	78		31 - 166	08/14/20 06:11	08/14/20 20:14	1
Nitrobenzene-d5	71		37 - 147	08/14/20 06:11	08/14/20 20:14	1
Phenol-d5	55		30 - 153	08/14/20 06:11	08/14/20 20:14	1
Terphenyl-d14	80		42 - 157	08/14/20 06:11	08/14/20 20:14	1
2,4,6-Tribromophenol	35		31 - 143	08/14/20 06:11	08/14/20 20:14	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.54	J	1.1	0.22	mg/Kg	☼	08/11/20 06:38	08/12/20 00:17	1
Arsenic	6.1		0.57	0.19	mg/Kg	☼	08/11/20 06:38	08/12/20 00:17	1
Barium	89		0.57	0.065	mg/Kg	☼	08/11/20 06:38	08/12/20 00:17	1
Beryllium	0.65		0.23	0.053	mg/Kg	☼	08/11/20 06:38	08/12/20 00:17	1
Cadmium	0.12	B	0.11	0.020	mg/Kg	☼	08/11/20 06:38	08/12/20 00:17	1
Chromium	16		0.57	0.28	mg/Kg	☼	08/11/20 06:38	08/12/20 00:17	1
Cobalt	8.5		0.28	0.074	mg/Kg	☼	08/11/20 06:38	08/12/20 00:17	1
Copper	14		0.57	0.16	mg/Kg	☼	08/11/20 06:38	08/12/20 00:17	1
Iron	15000		11	5.9	mg/Kg	☼	08/11/20 06:38	08/12/20 00:17	1
Lead	12		0.28	0.13	mg/Kg	☼	08/11/20 06:38	08/12/20 00:17	1
Magnesium	15000		5.7	2.8	mg/Kg	☼	08/11/20 06:38	08/12/20 00:17	1
Calcium	22000		11	1.9	mg/Kg	☼	08/11/20 06:38	08/12/20 00:17	1
Manganese	500		0.57	0.082	mg/Kg	☼	08/11/20 06:38	08/12/20 00:17	1
Nickel	24		0.57	0.16	mg/Kg	☼	08/11/20 06:38	08/12/20 00:17	1
Selenium	<0.33		0.57	0.33	mg/Kg	☼	08/11/20 06:38	08/12/20 00:17	1
Silver	<0.073		0.28	0.073	mg/Kg	☼	08/11/20 06:38	08/12/20 00:17	1
Thallium	0.41	J	0.57	0.28	mg/Kg	☼	08/11/20 06:38	08/12/20 00:17	1
Vanadium	27		0.28	0.067	mg/Kg	☼	08/11/20 06:38	08/12/20 00:17	1
Zinc	53		1.1	0.50	mg/Kg	☼	08/11/20 06:38	08/12/20 00:17	1
Potassium	1300		28	10	mg/Kg	☼	08/11/20 06:38	08/12/20 00:17	1
Sodium	1000		57	8.4	mg/Kg	☼	08/11/20 06:38	08/12/20 00:17	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/13/20 17:10	08/14/20 04:41	1
Barium	0.58		0.50	0.050	mg/L		08/13/20 17:10	08/14/20 04:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/13/20 17:10	08/14/20 04:41	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/13/20 17:10	08/14/20 04:41	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185876-1

Client Sample ID: 2412V2-19-B03 (5-7.5)

Lab Sample ID: 500-185876-7

Date Collected: 08/03/20 13:55

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 80.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	310		5.0	0.50	mg/L		08/13/20 17:10	08/14/20 04:41	1
Chromium	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 04:41	1
Cobalt	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 04:41	1
Copper	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 04:41	1
Iron	<0.20		0.40	0.20	mg/L		08/13/20 17:10	08/14/20 04:41	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/13/20 17:10	08/14/20 04:41	1
Magnesium	180		2.5	0.50	mg/L		08/13/20 17:10	08/14/20 04:41	1
Manganese	0.23		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 04:41	1
Nickel	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 04:41	1
Potassium	0.82	J	2.5	0.50	mg/L		08/13/20 17:10	08/14/20 04:41	1
Selenium	<0.020		0.050	0.020	mg/L		08/13/20 17:10	08/14/20 04:41	1
Silver	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 04:41	1
Vanadium	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 04:41	1
Zinc	0.031	J ^	0.50	0.020	mg/L		08/13/20 17:10	08/14/20 04:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.2		0.025	0.010	mg/L		08/14/20 05:58	08/17/20 00:00	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		08/13/20 17:10	08/14/20 09:31	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/13/20 17:10	08/14/20 09:31	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		08/13/20 14:20	08/14/20 11:47	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.020	0.0067	mg/Kg	☼	08/11/20 14:25	08/12/20 07:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.21	J	0.38	0.19	mg/Kg	☼	08/14/20 13:10	08/17/20 10:25	1
pH	9.0		0.2	0.2	SU			08/06/20 19:28	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185876-1

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
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC 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.

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.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185876-1

GC/MS VOA

Prep Batch: 556139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185876-1	2412V2-19-B01 (0-5)	Total/NA	Solid	5035	
500-185876-2	2412V2-19-B01 (5-7.5)	Total/NA	Solid	5035	
500-185876-3	2412V2-19-B02 (0-5)	Total/NA	Solid	5035	
500-185876-4	2412V2-19-B02 (0-5) Dup	Total/NA	Solid	5035	
500-185876-5	2412V2-19-B02 (5-7.5)	Total/NA	Solid	5035	
500-185876-6	2412V2-19-B03 (0-5)	Total/NA	Solid	5035	
500-185876-7	2412V2-19-B03 (5-7.5)	Total/NA	Solid	5035	

Analysis Batch: 556207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185876-1	2412V2-19-B01 (0-5)	Total/NA	Solid	8260B	556139
500-185876-2	2412V2-19-B01 (5-7.5)	Total/NA	Solid	8260B	556139
500-185876-3	2412V2-19-B02 (0-5)	Total/NA	Solid	8260B	556139
500-185876-4	2412V2-19-B02 (0-5) Dup	Total/NA	Solid	8260B	556139
500-185876-5	2412V2-19-B02 (5-7.5)	Total/NA	Solid	8260B	556139
500-185876-6	2412V2-19-B03 (0-5)	Total/NA	Solid	8260B	556139
500-185876-7	2412V2-19-B03 (5-7.5)	Total/NA	Solid	8260B	556139
MB 500-556207/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-556207/7	Lab Control Sample	Total/NA	Solid	8260B	
LCS 500-556207/8	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 556799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185876-1	2412V2-19-B01 (0-5)	Total/NA	Solid	3541	
500-185876-2	2412V2-19-B01 (5-7.5)	Total/NA	Solid	3541	
500-185876-3	2412V2-19-B02 (0-5)	Total/NA	Solid	3541	
500-185876-4	2412V2-19-B02 (0-5) Dup	Total/NA	Solid	3541	
500-185876-5	2412V2-19-B02 (5-7.5)	Total/NA	Solid	3541	
500-185876-6	2412V2-19-B03 (0-5)	Total/NA	Solid	3541	
500-185876-7	2412V2-19-B03 (5-7.5)	Total/NA	Solid	3541	
MB 500-556799/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-556799/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 556846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185876-1	2412V2-19-B01 (0-5)	Total/NA	Solid	8270D	556799
500-185876-2	2412V2-19-B01 (5-7.5)	Total/NA	Solid	8270D	556799
500-185876-3	2412V2-19-B02 (0-5)	Total/NA	Solid	8270D	556799
500-185876-4	2412V2-19-B02 (0-5) Dup	Total/NA	Solid	8270D	556799
500-185876-5	2412V2-19-B02 (5-7.5)	Total/NA	Solid	8270D	556799
500-185876-6	2412V2-19-B03 (0-5)	Total/NA	Solid	8270D	556799
500-185876-7	2412V2-19-B03 (5-7.5)	Total/NA	Solid	8270D	556799

Analysis Batch: 556958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-556799/1-A	Method Blank	Total/NA	Solid	8270D	556799
LCS 500-556799/2-A	Lab Control Sample	Total/NA	Solid	8270D	556799

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185876-1

Metals

Prep Batch: 556177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185876-1	2412V2-19-B01 (0-5)	Total/NA	Solid	3050B	
500-185876-2	2412V2-19-B01 (5-7.5)	Total/NA	Solid	3050B	
500-185876-3	2412V2-19-B02 (0-5)	Total/NA	Solid	3050B	
500-185876-4	2412V2-19-B02 (0-5) Dup	Total/NA	Solid	3050B	
500-185876-5	2412V2-19-B02 (5-7.5)	Total/NA	Solid	3050B	
500-185876-6	2412V2-19-B03 (0-5)	Total/NA	Solid	3050B	
500-185876-7	2412V2-19-B03 (5-7.5)	Total/NA	Solid	3050B	
MB 500-556177/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-556177/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 556263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185876-1	2412V2-19-B01 (0-5)	Total/NA	Solid	7471B	
500-185876-2	2412V2-19-B01 (5-7.5)	Total/NA	Solid	7471B	
500-185876-3	2412V2-19-B02 (0-5)	Total/NA	Solid	7471B	
500-185876-4	2412V2-19-B02 (0-5) Dup	Total/NA	Solid	7471B	
500-185876-5	2412V2-19-B02 (5-7.5)	Total/NA	Solid	7471B	
500-185876-6	2412V2-19-B03 (0-5)	Total/NA	Solid	7471B	
500-185876-7	2412V2-19-B03 (5-7.5)	Total/NA	Solid	7471B	
MB 500-556263/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-556263/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 556360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185876-1	2412V2-19-B01 (0-5)	Total/NA	Solid	6010B	556177
500-185876-2	2412V2-19-B01 (5-7.5)	Total/NA	Solid	6010B	556177
500-185876-3	2412V2-19-B02 (0-5)	Total/NA	Solid	6010B	556177
500-185876-4	2412V2-19-B02 (0-5) Dup	Total/NA	Solid	6010B	556177
500-185876-5	2412V2-19-B02 (5-7.5)	Total/NA	Solid	6010B	556177
500-185876-6	2412V2-19-B03 (0-5)	Total/NA	Solid	6010B	556177
500-185876-7	2412V2-19-B03 (5-7.5)	Total/NA	Solid	6010B	556177
MB 500-556177/1-A	Method Blank	Total/NA	Solid	6010B	556177
LCS 500-556177/2-A	Lab Control Sample	Total/NA	Solid	6010B	556177

Analysis Batch: 556451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185876-1	2412V2-19-B01 (0-5)	Total/NA	Solid	7471B	556263
500-185876-2	2412V2-19-B01 (5-7.5)	Total/NA	Solid	7471B	556263
500-185876-3	2412V2-19-B02 (0-5)	Total/NA	Solid	7471B	556263
500-185876-4	2412V2-19-B02 (0-5) Dup	Total/NA	Solid	7471B	556263
500-185876-5	2412V2-19-B02 (5-7.5)	Total/NA	Solid	7471B	556263
500-185876-6	2412V2-19-B03 (0-5)	Total/NA	Solid	7471B	556263
500-185876-7	2412V2-19-B03 (5-7.5)	Total/NA	Solid	7471B	556263
MB 500-556263/12-A	Method Blank	Total/NA	Solid	7471B	556263
LCS 500-556263/13-A	Lab Control Sample	Total/NA	Solid	7471B	556263

Leach Batch: 556480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185876-1	2412V2-19-B01 (0-5)	SPLP East	Solid	1312	
500-185876-2	2412V2-19-B01 (5-7.5)	SPLP East	Solid	1312	
500-185876-4	2412V2-19-B02 (0-5) Dup	SPLP East	Solid	1312	

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185876-1

Metals (Continued)

Leach Batch: 556480 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185876-5	2412V2-19-B02 (5-7.5)	SPLP East	Solid	1312	
500-185876-6	2412V2-19-B03 (0-5)	SPLP East	Solid	1312	
500-185876-7	2412V2-19-B03 (5-7.5)	SPLP East	Solid	1312	
LB 500-556480/1-B	Method Blank	SPLP East	Solid	1312	

Leach Batch: 556481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185876-1	2412V2-19-B01 (0-5)	TCLP	Solid	1311	
500-185876-2	2412V2-19-B01 (5-7.5)	TCLP	Solid	1311	
500-185876-3	2412V2-19-B02 (0-5)	TCLP	Solid	1311	
500-185876-4	2412V2-19-B02 (0-5) Dup	TCLP	Solid	1311	
500-185876-5	2412V2-19-B02 (5-7.5)	TCLP	Solid	1311	
500-185876-6	2412V2-19-B03 (0-5)	TCLP	Solid	1311	
500-185876-7	2412V2-19-B03 (5-7.5)	TCLP	Solid	1311	
LB 500-556481/1-B	Method Blank	TCLP	Solid	1311	
LB 500-556481/2-B	Method Blank	TCLP	Solid	1311	
500-185876-2 MS	2412V2-19-B01 (5-7.5)	TCLP	Solid	1311	
500-185876-2 DU	2412V2-19-B01 (5-7.5)	TCLP	Solid	1311	

Analysis Batch: 556484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185876-2	2412V2-19-B01 (5-7.5)	Total/NA	Solid	6010B	556177
500-185876-5	2412V2-19-B02 (5-7.5)	Total/NA	Solid	6010B	556177

Prep Batch: 556707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185876-1	2412V2-19-B01 (0-5)	TCLP	Solid	7470A	556481
500-185876-2	2412V2-19-B01 (5-7.5)	TCLP	Solid	7470A	556481
500-185876-3	2412V2-19-B02 (0-5)	TCLP	Solid	7470A	556481
500-185876-4	2412V2-19-B02 (0-5) Dup	TCLP	Solid	7470A	556481
500-185876-5	2412V2-19-B02 (5-7.5)	TCLP	Solid	7470A	556481
500-185876-6	2412V2-19-B03 (0-5)	TCLP	Solid	7470A	556481
500-185876-7	2412V2-19-B03 (5-7.5)	TCLP	Solid	7470A	556481
LB 500-556481/1-B	Method Blank	TCLP	Solid	7470A	556481
MB 500-556707/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-556707/14-A	Lab Control Sample	Total/NA	Solid	7470A	
500-185876-2 MS	2412V2-19-B01 (5-7.5)	TCLP	Solid	7470A	556481
500-185876-2 DU	2412V2-19-B01 (5-7.5)	TCLP	Solid	7470A	556481

Prep Batch: 556725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185876-1	2412V2-19-B01 (0-5)	TCLP	Solid	3010A	556481
500-185876-2	2412V2-19-B01 (5-7.5)	TCLP	Solid	3010A	556481
500-185876-3	2412V2-19-B02 (0-5)	TCLP	Solid	3010A	556481
500-185876-4	2412V2-19-B02 (0-5) Dup	TCLP	Solid	3010A	556481
500-185876-5	2412V2-19-B02 (5-7.5)	TCLP	Solid	3010A	556481
500-185876-6	2412V2-19-B03 (0-5)	TCLP	Solid	3010A	556481
500-185876-7	2412V2-19-B03 (5-7.5)	TCLP	Solid	3010A	556481
LB 500-556481/2-B	Method Blank	TCLP	Solid	3010A	556481
LCS 500-556725/2-A	Lab Control Sample	Total/NA	Solid	3010A	

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185876-1

Metals

Prep Batch: 556797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185876-1	2412V2-19-B01 (0-5)	SPLP East	Solid	3010A	556480
500-185876-2	2412V2-19-B01 (5-7.5)	SPLP East	Solid	3010A	556480
500-185876-4	2412V2-19-B02 (0-5) Dup	SPLP East	Solid	3010A	556480
500-185876-5	2412V2-19-B02 (5-7.5)	SPLP East	Solid	3010A	556480
500-185876-6	2412V2-19-B03 (0-5)	SPLP East	Solid	3010A	556480
500-185876-7	2412V2-19-B03 (5-7.5)	SPLP East	Solid	3010A	556480
LB 500-556480/1-B	Method Blank	SPLP East	Solid	3010A	556480
LCS 500-556797/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 556800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185876-1	2412V2-19-B01 (0-5)	TCLP	Solid	6010B	556725
500-185876-2	2412V2-19-B01 (5-7.5)	TCLP	Solid	6010B	556725
500-185876-3	2412V2-19-B02 (0-5)	TCLP	Solid	6010B	556725
500-185876-4	2412V2-19-B02 (0-5) Dup	TCLP	Solid	6010B	556725
500-185876-5	2412V2-19-B02 (5-7.5)	TCLP	Solid	6010B	556725
500-185876-6	2412V2-19-B03 (0-5)	TCLP	Solid	6010B	556725
500-185876-7	2412V2-19-B03 (5-7.5)	TCLP	Solid	6010B	556725
LB 500-556481/2-B	Method Blank	TCLP	Solid	6010B	556725
LCS 500-556725/2-A	Lab Control Sample	Total/NA	Solid	6010B	556725

Analysis Batch: 556891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185876-1	2412V2-19-B01 (0-5)	TCLP	Solid	6020A	556725
500-185876-2	2412V2-19-B01 (5-7.5)	TCLP	Solid	6020A	556725
500-185876-3	2412V2-19-B02 (0-5)	TCLP	Solid	6020A	556725
500-185876-4	2412V2-19-B02 (0-5) Dup	TCLP	Solid	6020A	556725
500-185876-5	2412V2-19-B02 (5-7.5)	TCLP	Solid	6020A	556725
500-185876-6	2412V2-19-B03 (0-5)	TCLP	Solid	6020A	556725
500-185876-7	2412V2-19-B03 (5-7.5)	TCLP	Solid	6020A	556725
LB 500-556488/1-B	Method Blank	Total/NA	Solid	6020A	
LCS 500-556725/2-A	Lab Control Sample	Total/NA	Solid	6020A	556725

Analysis Batch: 556902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185876-2	2412V2-19-B01 (5-7.5)	TCLP	Solid	6010B	556725
500-185876-2	2412V2-19-B01 (5-7.5)	TCLP	Solid	6010B	556725

Analysis Batch: 556904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185876-1	2412V2-19-B01 (0-5)	TCLP	Solid	7470A	556707
500-185876-2	2412V2-19-B01 (5-7.5)	TCLP	Solid	7470A	556707
500-185876-3	2412V2-19-B02 (0-5)	TCLP	Solid	7470A	556707
500-185876-4	2412V2-19-B02 (0-5) Dup	TCLP	Solid	7470A	556707
500-185876-5	2412V2-19-B02 (5-7.5)	TCLP	Solid	7470A	556707
500-185876-6	2412V2-19-B03 (0-5)	TCLP	Solid	7470A	556707
500-185876-7	2412V2-19-B03 (5-7.5)	TCLP	Solid	7470A	556707
LB 500-556481/1-B	Method Blank	TCLP	Solid	7470A	556707
MB 500-556707/12-A	Method Blank	Total/NA	Solid	7470A	556707
LCS 500-556707/14-A	Lab Control Sample	Total/NA	Solid	7470A	556707
500-185876-2 MS	2412V2-19-B01 (5-7.5)	TCLP	Solid	7470A	556707

Eurofins TestAmerica, Chicago

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185876-1

Metals (Continued)

Analysis Batch: 556904 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185876-2 DU	2412V2-19-B01 (5-7.5)	TCLP	Solid	7470A	556707

Analysis Batch: 557084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185876-1	2412V2-19-B01 (0-5)	SPLP East	Solid	6010B	556797
500-185876-2	2412V2-19-B01 (5-7.5)	SPLP East	Solid	6010B	556797
500-185876-4	2412V2-19-B02 (0-5) Dup	SPLP East	Solid	6010B	556797
500-185876-5	2412V2-19-B02 (5-7.5)	SPLP East	Solid	6010B	556797
500-185876-6	2412V2-19-B03 (0-5)	SPLP East	Solid	6010B	556797
500-185876-7	2412V2-19-B03 (5-7.5)	SPLP East	Solid	6010B	556797
LB 500-556480/1-B	Method Blank	SPLP East	Solid	6010B	556797
LCS 500-556797/2-A	Lab Control Sample	Total/NA	Solid	6010B	556797

General Chemistry

Analysis Batch: 555660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185876-1	2412V2-19-B01 (0-5)	Total/NA	Solid	Moisture	
500-185876-2	2412V2-19-B01 (5-7.5)	Total/NA	Solid	Moisture	
500-185876-3	2412V2-19-B02 (0-5)	Total/NA	Solid	Moisture	
500-185876-4	2412V2-19-B02 (0-5) Dup	Total/NA	Solid	Moisture	
500-185876-5	2412V2-19-B02 (5-7.5)	Total/NA	Solid	Moisture	
500-185876-6	2412V2-19-B03 (0-5)	Total/NA	Solid	Moisture	
500-185876-7	2412V2-19-B03 (5-7.5)	Total/NA	Solid	Moisture	

Analysis Batch: 555814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185876-1	2412V2-19-B01 (0-5)	Total/NA	Solid	9045D	
500-185876-2	2412V2-19-B01 (5-7.5)	Total/NA	Solid	9045D	
500-185876-3	2412V2-19-B02 (0-5)	Total/NA	Solid	9045D	
500-185876-4	2412V2-19-B02 (0-5) Dup	Total/NA	Solid	9045D	
500-185876-5	2412V2-19-B02 (5-7.5)	Total/NA	Solid	9045D	
500-185876-6	2412V2-19-B03 (0-5)	Total/NA	Solid	9045D	
500-185876-7	2412V2-19-B03 (5-7.5)	Total/NA	Solid	9045D	
LCS 500-555814/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-555814/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Prep Batch: 556845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185876-1	2412V2-19-B01 (0-5)	Total/NA	Solid	9010C	
500-185876-2	2412V2-19-B01 (5-7.5)	Total/NA	Solid	9010C	
500-185876-3	2412V2-19-B02 (0-5)	Total/NA	Solid	9010C	
500-185876-4	2412V2-19-B02 (0-5) Dup	Total/NA	Solid	9010C	
500-185876-5	2412V2-19-B02 (5-7.5)	Total/NA	Solid	9010C	
500-185876-6	2412V2-19-B03 (0-5)	Total/NA	Solid	9010C	
500-185876-7	2412V2-19-B03 (5-7.5)	Total/NA	Solid	9010C	
MB 500-556845/1-A	Method Blank	Total/NA	Solid	9010C	
HLCS 500-556845/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 500-556845/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 500-556845/4-A	Lab Control Sample	Total/NA	Solid	9010C	

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185876-1

General Chemistry

Analysis Batch: 557233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185876-1	2412V2-19-B01 (0-5)	Total/NA	Solid	9012B	556845
500-185876-2	2412V2-19-B01 (5-7.5)	Total/NA	Solid	9012B	556845
500-185876-3	2412V2-19-B02 (0-5)	Total/NA	Solid	9012B	556845
500-185876-4	2412V2-19-B02 (0-5) Dup	Total/NA	Solid	9012B	556845
500-185876-5	2412V2-19-B02 (5-7.5)	Total/NA	Solid	9012B	556845
500-185876-6	2412V2-19-B03 (0-5)	Total/NA	Solid	9012B	556845
500-185876-7	2412V2-19-B03 (5-7.5)	Total/NA	Solid	9012B	556845
MB 500-556845/1-A	Method Blank	Total/NA	Solid	9012B	556845
HLCS 500-556845/2-A	Lab Control Sample	Total/NA	Solid	9012B	556845
LCS 500-556845/3-A	Lab Control Sample	Total/NA	Solid	9012B	556845
LLCS 500-556845/4-A	Lab Control Sample	Total/NA	Solid	9012B	556845

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185876-1

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)
500-185876-1	2412V2-19-B01 (0-5)	109	93	93	90
500-185876-2	2412V2-19-B01 (5-7.5)	105	89	90	90
500-185876-3	2412V2-19-B02 (0-5)	110	95	100	88
500-185876-4	2412V2-19-B02 (0-5) Dup	110	94	98	88
500-185876-5	2412V2-19-B02 (5-7.5)	111	96	89	88
500-185876-6	2412V2-19-B03 (0-5)	106	96	96	88
500-185876-7	2412V2-19-B03 (5-7.5)	110	94	96	89
LCS 500-556207/7	Lab Control Sample	97	87	82	95
LCSD 500-556207/8	Lab Control Sample Dup	102	87	82	91
MB 500-556207/6	Method Blank	103	89	86	89

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)
500-185876-1	2412V2-19-B01 (0-5)	80	73	63	58	83	57
500-185876-2	2412V2-19-B01 (5-7.5)	90	88	78	70	85	47
500-185876-3	2412V2-19-B02 (0-5)	74	74	61	59	77	49
500-185876-4	2412V2-19-B02 (0-5) Dup	79	77	66	58	78	44
500-185876-5	2412V2-19-B02 (5-7.5)	86	84	72	63	89	49
500-185876-6	2412V2-19-B03 (0-5)	80	79	68	56	77	40
500-185876-7	2412V2-19-B03 (5-7.5)	82	78	71	55	80	35
LCS 500-556799/2-A	Lab Control Sample	96	99	100	89	110	114
MB 500-556799/1-A	Method Blank	83	90	86	75	100	62

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 - Hampshire - WO 074

Job ID: 500-185876-1

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

Lab Sample ID: MB 500-556207/6
Matrix: Solid
Analysis Batch: 556207

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			08/11/20 10:59	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg			08/11/20 10:59	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg			08/11/20 10:59	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg			08/11/20 10:59	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg			08/11/20 10:59	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			08/11/20 10:59	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg			08/11/20 10:59	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg			08/11/20 10:59	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg			08/11/20 10:59	1
Chloroethane	<0.0015		0.0050	0.0015	mg/Kg			08/11/20 10:59	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg			08/11/20 10:59	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg			08/11/20 10:59	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg			08/11/20 10:59	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg			08/11/20 10:59	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg			08/11/20 10:59	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg			08/11/20 10:59	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg			08/11/20 10:59	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg			08/11/20 10:59	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			08/11/20 10:59	1
1,3-Dichloropropene, Total	<0.00070		0.0020	0.00070	mg/Kg			08/11/20 10:59	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg			08/11/20 10:59	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg			08/11/20 10:59	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg			08/11/20 10:59	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg			08/11/20 10:59	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg			08/11/20 10:59	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg			08/11/20 10:59	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg			08/11/20 10:59	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg			08/11/20 10:59	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg			08/11/20 10:59	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg			08/11/20 10:59	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg			08/11/20 10:59	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg			08/11/20 10:59	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg			08/11/20 10:59	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg			08/11/20 10:59	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg			08/11/20 10:59	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg			08/11/20 10:59	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg			08/11/20 10:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		75 - 131		08/11/20 10:59	1
Dibromofluoromethane	89		75 - 126		08/11/20 10:59	1
1,2-Dichloroethane-d4 (Surr)	86		70 - 134		08/11/20 10:59	1
Toluene-d8 (Surr)	89		75 - 124		08/11/20 10:59	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185876-1

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

Lab Sample ID: LCS 500-556207/7

Matrix: Solid

Analysis Batch: 556207

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	0.0487		mg/Kg		97	40 - 150
Benzene	0.0500	0.0542		mg/Kg		108	70 - 125
Bromodichloromethane	0.0500	0.0493		mg/Kg		99	67 - 129
Bromoform	0.0500	0.0455		mg/Kg		91	68 - 136
Bromomethane	0.0500	0.0324	*	mg/Kg		65	70 - 130
2-Butanone (MEK)	0.0500	0.0505		mg/Kg		101	47 - 138
Carbon disulfide	0.0500	0.0555		mg/Kg		111	70 - 129
Carbon tetrachloride	0.0500	0.0530		mg/Kg		106	75 - 125
Chlorobenzene	0.0500	0.0528		mg/Kg		106	50 - 150
Chloroethane	0.0500	0.0382		mg/Kg		76	75 - 125
Chloroform	0.0500	0.0505		mg/Kg		101	57 - 135
Chloromethane	0.0500	0.0676	*	mg/Kg		135	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0513		mg/Kg		103	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0501		mg/Kg		100	70 - 125
Dibromochloromethane	0.0500	0.0482		mg/Kg		96	69 - 125
1,1-Dichloroethane	0.0500	0.0593		mg/Kg		119	70 - 125
1,2-Dichloroethane	0.0500	0.0503		mg/Kg		101	70 - 130
1,1-Dichloroethene	0.0500	0.0532		mg/Kg		106	70 - 120
1,2-Dichloropropane	0.0500	0.0563		mg/Kg		113	70 - 125
Ethylbenzene	0.0500	0.0548		mg/Kg		110	61 - 136
2-Hexanone	0.0500	0.0552		mg/Kg		110	48 - 146
Methylene Chloride	0.0500	0.0501		mg/Kg		100	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0538		mg/Kg		108	50 - 148
Methyl tert-butyl ether	0.0500	0.0457		mg/Kg		91	50 - 140
Styrene	0.0500	0.0523		mg/Kg		105	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0469		mg/Kg		94	70 - 122
Tetrachloroethene	0.0500	0.0513		mg/Kg		103	70 - 124
Toluene	0.0500	0.0536		mg/Kg		107	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0534		mg/Kg		107	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0468		mg/Kg		94	70 - 125
1,1,1-Trichloroethane	0.0500	0.0522		mg/Kg		104	70 - 128
1,1,2-Trichloroethane	0.0500	0.0484		mg/Kg		97	70 - 125
Trichloroethene	0.0500	0.0535		mg/Kg		107	70 - 125
Vinyl acetate	0.0500	0.0608		mg/Kg		122	40 - 153
Vinyl chloride	0.0500	0.0537		mg/Kg		107	70 - 125
Xylenes, Total	0.100	0.106		mg/Kg		106	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	97		75 - 131
Dibromofluoromethane	87		75 - 126
1,2-Dichloroethane-d4 (Surr)	82		70 - 134
Toluene-d8 (Surr)	95		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185876-1

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

Lab Sample ID: LCSD 500-556207/8

Matrix: Solid

Analysis Batch: 556207

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	0.0452		mg/Kg		90	40 - 150	8	30
Benzene	0.0500	0.0524		mg/Kg		105	70 - 125	3	30
Bromodichloromethane	0.0500	0.0478		mg/Kg		96	67 - 129	3	30
Bromoform	0.0500	0.0440		mg/Kg		88	68 - 136	3	30
Bromomethane	0.0500	0.0326	*	mg/Kg		65	70 - 130	1	30
2-Butanone (MEK)	0.0500	0.0451		mg/Kg		90	47 - 138	11	30
Carbon disulfide	0.0500	0.0571		mg/Kg		114	70 - 129	3	30
Carbon tetrachloride	0.0500	0.0535		mg/Kg		107	75 - 125	1	30
Chlorobenzene	0.0500	0.0495		mg/Kg		99	50 - 150	6	30
Chloroethane	0.0500	0.0400		mg/Kg		80	75 - 125	5	30
Chloroform	0.0500	0.0498		mg/Kg		100	57 - 135	1	30
Chloromethane	0.0500	0.0696	*	mg/Kg		139	70 - 125	3	30
cis-1,2-Dichloroethene	0.0500	0.0512		mg/Kg		102	70 - 125	0	30
cis-1,3-Dichloropropene	0.0500	0.0457		mg/Kg		91	70 - 125	9	30
Dibromochloromethane	0.0500	0.0451		mg/Kg		90	69 - 125	7	30
1,1-Dichloroethane	0.0500	0.0594		mg/Kg		119	70 - 125	0	30
1,2-Dichloroethane	0.0500	0.0476		mg/Kg		95	70 - 130	5	30
1,1-Dichloroethene	0.0500	0.0537		mg/Kg		107	70 - 120	1	30
1,2-Dichloropropane	0.0500	0.0574		mg/Kg		115	70 - 125	2	30
Ethylbenzene	0.0500	0.0504		mg/Kg		101	61 - 136	8	30
2-Hexanone	0.0500	0.0519		mg/Kg		104	48 - 146	6	30
Methylene Chloride	0.0500	0.0500		mg/Kg		100	70 - 126	0	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0491		mg/Kg		98	50 - 148	9	30
Methyl tert-butyl ether	0.0500	0.0451		mg/Kg		90	50 - 140	1	30
Styrene	0.0500	0.0495		mg/Kg		99	70 - 125	5	30
1,1,2,2-Tetrachloroethane	0.0500	0.0449		mg/Kg		90	70 - 122	4	30
Tetrachloroethene	0.0500	0.0481		mg/Kg		96	70 - 124	6	30
Toluene	0.0500	0.0496		mg/Kg		99	70 - 125	8	30
trans-1,2-Dichloroethene	0.0500	0.0546		mg/Kg		109	70 - 125	2	30
trans-1,3-Dichloropropene	0.0500	0.0452		mg/Kg		90	70 - 125	4	30
1,1,1-Trichloroethane	0.0500	0.0526		mg/Kg		105	70 - 128	1	30
1,1,2-Trichloroethane	0.0500	0.0440		mg/Kg		88	70 - 125	10	30
Trichloroethene	0.0500	0.0519		mg/Kg		104	70 - 125	3	30
Vinyl acetate	0.0500	0.0541		mg/Kg		108	40 - 153	12	30
Vinyl chloride	0.0500	0.0555		mg/Kg		111	70 - 125	3	30
Xylenes, Total	0.100	0.0992		mg/Kg		99	53 - 147	6	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	102		75 - 131
Dibromofluoromethane	87		75 - 126
1,2-Dichloroethane-d4 (Surr)	82		70 - 134
Toluene-d8 (Surr)	91		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185876-1

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

Lab Sample ID: MB 500-556799/1-A

Matrix: Solid

Analysis Batch: 556958

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 556799

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0060		0.033	0.0060	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Acenaphthylene	<0.0044		0.033	0.0044	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Anthracene	<0.0056		0.033	0.0056	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Benzo[a]anthracene	<0.0045		0.033	0.0045	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Benzo[a]pyrene	<0.0064		0.033	0.0064	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Benzo[b]fluoranthene	<0.0072		0.033	0.0072	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Benzo[g,h,i]perylene	<0.011		0.033	0.011	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Benzo[k]fluoranthene	<0.0098		0.033	0.0098	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Bis(2-chloroethoxy)methane	<0.034		0.17	0.034	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Bis(2-chloroethyl)ether	<0.050		0.17	0.050	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Bis(2-ethylhexyl) phthalate	<0.061		0.17	0.061	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
4-Bromophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Butyl benzyl phthalate	<0.063		0.17	0.063	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Carbazole	<0.083		0.17	0.083	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
4-Chloroaniline	<0.16		0.67	0.16	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
4-Chloro-3-methylphenol	<0.11		0.33	0.11	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
2-Chloronaphthalene	<0.037		0.17	0.037	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
2-Chlorophenol	<0.057		0.17	0.057	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
4-Chlorophenyl phenyl ether	<0.039		0.17	0.039	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Chrysene	<0.0091		0.033	0.0091	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Dibenz(a,h)anthracene	<0.0064		0.033	0.0064	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Dibenzofuran	<0.039		0.17	0.039	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
1,2-Dichlorobenzene	<0.040		0.17	0.040	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
1,3-Dichlorobenzene	<0.037		0.17	0.037	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
1,4-Dichlorobenzene	<0.043		0.17	0.043	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
3,3'-Dichlorobenzidine	<0.047		0.17	0.047	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
2,4-Dichlorophenol	<0.079		0.33	0.079	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Diethyl phthalate	<0.056		0.17	0.056	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
2,4-Dimethylphenol	<0.13		0.33	0.13	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Dimethyl phthalate	<0.043		0.17	0.043	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Di-n-butyl phthalate	<0.051		0.17	0.051	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
4,6-Dinitro-2-methylphenol	<0.27		0.67	0.27	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
2,4-Dinitrophenol	<0.59		0.67	0.59	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
2,4-Dinitrotoluene	<0.053		0.17	0.053	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
2,6-Dinitrotoluene	<0.065		0.17	0.065	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Di-n-octyl phthalate	<0.054		0.17	0.054	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Fluoranthene	<0.0062		0.033	0.0062	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Fluorene	<0.0047		0.033	0.0047	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Hexachlorobenzene	<0.0077		0.067	0.0077	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Hexachlorobutadiene	<0.052		0.17	0.052	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Hexachlorocyclopentadiene	<0.19		0.67	0.19	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Hexachloroethane	<0.051		0.17	0.051	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Indeno[1,2,3-cd]pyrene	<0.0086		0.033	0.0086	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Isophorone	<0.037		0.17	0.037	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
2-Methylnaphthalene	<0.0061		0.067	0.0061	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
2-Methylphenol	<0.053		0.17	0.053	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
3 & 4 Methylphenol	<0.055		0.17	0.055	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Naphthalene	<0.0051		0.033	0.0051	mg/Kg		08/14/20 06:11	08/14/20 23:06	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185876-1

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

Lab Sample ID: MB 500-556799/1-A
Matrix: Solid
Analysis Batch: 556958

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 556799

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2-Nitroaniline	<0.045		0.17	0.045	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
3-Nitroaniline	<0.10		0.33	0.10	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
4-Nitroaniline	<0.14		0.33	0.14	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Nitrobenzene	<0.0083		0.033	0.0083	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
2-Nitrophenol	<0.079		0.33	0.079	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
4-Nitrophenol	<0.32		0.67	0.32	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
N-Nitrosodi-n-propylamine	<0.041		0.067	0.041	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
N-Nitrosodiphenylamine	<0.039		0.17	0.039	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
2,2'-oxybis[1-chloropropane]	<0.039		0.17	0.039	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Pentachlorophenol	<0.53		0.67	0.53	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Phenanthrene	<0.0046		0.033	0.0046	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Phenol	<0.074		0.17	0.074	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
Pyrene	<0.0066		0.033	0.0066	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
1,2,4-Trichlorobenzene	<0.036		0.17	0.036	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
2,4,5-Trichlorophenol	<0.076		0.33	0.076	mg/Kg		08/14/20 06:11	08/14/20 23:06	1
2,4,6-Trichlorophenol	<0.11		0.33	0.11	mg/Kg		08/14/20 06:11	08/14/20 23:06	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorobiphenyl	83		43 - 145	08/14/20 06:11	08/14/20 23:06	1
2-Fluorophenol	90		31 - 166	08/14/20 06:11	08/14/20 23:06	1
Nitrobenzene-d5	86		37 - 147	08/14/20 06:11	08/14/20 23:06	1
Phenol-d5	75		30 - 153	08/14/20 06:11	08/14/20 23:06	1
Terphenyl-d14	100		42 - 157	08/14/20 06:11	08/14/20 23:06	1
2,4,6-Tribromophenol	62		31 - 143	08/14/20 06:11	08/14/20 23:06	1

Lab Sample ID: LCS 500-556799/2-A
Matrix: Solid
Analysis Batch: 556958

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556799

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthylene	1.33	1.32		mg/Kg		99	68 - 120
Anthracene	1.33	1.14		mg/Kg		86	70 - 114
Benzo[a]anthracene	1.33	1.30		mg/Kg		98	67 - 122
Benzo[a]pyrene	1.33	1.32		mg/Kg		99	65 - 133
Benzo[b]fluoranthene	1.33	1.27		mg/Kg		95	69 - 129
Benzo[g,h,i]perylene	1.33	1.28		mg/Kg		96	72 - 131
Benzo[k]fluoranthene	1.33	1.35		mg/Kg		101	68 - 127
Bis(2-chloroethoxy)methane	1.33	1.20		mg/Kg		90	60 - 112
Bis(2-chloroethyl)ether	1.33	1.08		mg/Kg		81	55 - 111
Bis(2-ethylhexyl) phthalate	1.33	1.17		mg/Kg		88	72 - 131
4-Bromophenyl phenyl ether	1.33	1.30		mg/Kg		97	68 - 118
Butyl benzyl phthalate	1.33	1.30		mg/Kg		97	71 - 129
Carbazole	1.33	1.39		mg/Kg		104	65 - 142
4-Chloroaniline	1.33	0.701		mg/Kg		53	30 - 150
4-Chloro-3-methylphenol	1.33	1.14		mg/Kg		85	65 - 122
2-Chloronaphthalene	1.33	1.32		mg/Kg		99	69 - 114
2-Chlorophenol	1.33	0.979		mg/Kg		73	64 - 110

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185876-1

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

Lab Sample ID: LCS 500-556799/2-A

Matrix: Solid

Analysis Batch: 556958

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 556799

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorophenyl phenyl ether	1.33	1.28		mg/Kg		96	62 - 119
Chrysene	1.33	1.34		mg/Kg		100	63 - 120
Dibenz(a,h)anthracene	1.33	1.31		mg/Kg		98	64 - 131
Dibenzofuran	1.33	1.30		mg/Kg		97	66 - 115
1,2-Dichlorobenzene	1.33	1.17		mg/Kg		88	62 - 110
1,3-Dichlorobenzene	1.33	1.19		mg/Kg		89	65 - 124
1,4-Dichlorobenzene	1.33	1.15		mg/Kg		87	61 - 110
3,3'-Dichlorobenzidine	1.33	0.641		mg/Kg		48	35 - 128
2,4-Dichlorophenol	1.33	1.11		mg/Kg		84	58 - 120
Diethyl phthalate	1.33	1.26		mg/Kg		95	58 - 120
2,4-Dimethylphenol	1.33	1.16		mg/Kg		87	60 - 110
Dimethyl phthalate	1.33	1.37		mg/Kg		103	69 - 116
Di-n-butyl phthalate	1.33	1.32		mg/Kg		99	65 - 120
4,6-Dinitro-2-methylphenol	2.67	2.29		mg/Kg		86	10 - 110
2,4-Dinitrophenol	2.67	2.35		mg/Kg		88	10 - 100
2,4-Dinitrotoluene	1.33	1.16		mg/Kg		87	69 - 124
2,6-Dinitrotoluene	1.33	1.37		mg/Kg		103	70 - 123
Di-n-octyl phthalate	1.33	1.29		mg/Kg		97	68 - 134
Fluoranthene	1.33	1.23		mg/Kg		92	62 - 120
Fluorene	1.33	1.34		mg/Kg		100	62 - 120
Hexachlorobenzene	1.33	1.29		mg/Kg		97	63 - 124
Hexachlorobutadiene	1.33	1.29		mg/Kg		97	56 - 120
Hexachlorocyclopentadiene	1.33	0.789		mg/Kg		59	10 - 133
Hexachloroethane	1.33	1.08		mg/Kg		81	60 - 114
Indeno[1,2,3-cd]pyrene	1.33	1.29		mg/Kg		97	68 - 130
Isophorone	1.33	1.42		mg/Kg		107	55 - 110
2-Methylnaphthalene	1.33	1.24		mg/Kg		93	69 - 112
2-Methylphenol	1.33	1.20		mg/Kg		90	60 - 120
3 & 4 Methylphenol	1.33	1.24		mg/Kg		93	57 - 120
Naphthalene	1.33	1.21		mg/Kg		91	63 - 110
2-Nitroaniline	1.33	1.23		mg/Kg		92	57 - 124
3-Nitroaniline	1.33	0.640		mg/Kg		48	40 - 122
4-Nitroaniline	1.33	1.07		mg/Kg		80	60 - 160
Nitrobenzene	1.33	1.25		mg/Kg		94	60 - 116
2-Nitrophenol	1.33	1.29		mg/Kg		96	60 - 120
4-Nitrophenol	2.67	2.29		mg/Kg		86	30 - 122
N-Nitrosodi-n-propylamine	1.33	1.13		mg/Kg		85	56 - 118
N-Nitrosodiphenylamine	1.33	1.32		mg/Kg		99	65 - 112
2,2'-oxybis[1-chloropropane]	1.33	0.971		mg/Kg		73	40 - 124
Pentachlorophenol	2.67	2.21		mg/Kg		83	13 - 112
Phenanthrene	1.33	1.14		mg/Kg		85	62 - 120
Phenol	1.33	1.14		mg/Kg		85	56 - 122
Pyrene	1.33	1.39		mg/Kg		104	61 - 128
1,2,4-Trichlorobenzene	1.33	1.21		mg/Kg		90	66 - 117
2,4,5-Trichlorophenol	1.33	1.30		mg/Kg		98	50 - 120
2,4,6-Trichlorophenol	1.33	1.28		mg/Kg		96	57 - 120

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185876-1

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

Lab Sample ID: LCS 500-556799/2-A
Matrix: Solid
Analysis Batch: 556958

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556799

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	96		43 - 145
2-Fluorophenol	99		31 - 166
Nitrobenzene-d5	100		37 - 147
Phenol-d5	89		30 - 153
Terphenyl-d14	110		42 - 157
2,4,6-Tribromophenol	114		31 - 143

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-556177/1-A
Matrix: Solid
Analysis Batch: 556360

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 556177

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.39		2.0	0.39	mg/Kg		08/11/20 06:38	08/11/20 22:29	1
Arsenic	<0.34		1.0	0.34	mg/Kg		08/11/20 06:38	08/11/20 22:29	1
Barium	<0.11		1.0	0.11	mg/Kg		08/11/20 06:38	08/11/20 22:29	1
Beryllium	<0.093		0.40	0.093	mg/Kg		08/11/20 06:38	08/11/20 22:29	1
Cadmium	0.0717	J	0.20	0.036	mg/Kg		08/11/20 06:38	08/11/20 22:29	1
Chromium	<0.50		1.0	0.50	mg/Kg		08/11/20 06:38	08/11/20 22:29	1
Cobalt	<0.13		0.50	0.13	mg/Kg		08/11/20 06:38	08/11/20 22:29	1
Copper	<0.28		1.0	0.28	mg/Kg		08/11/20 06:38	08/11/20 22:29	1
Iron	<10		20	10	mg/Kg		08/11/20 06:38	08/11/20 22:29	1
Lead	<0.23		0.50	0.23	mg/Kg		08/11/20 06:38	08/11/20 22:29	1
Magnesium	<5.0		10	5.0	mg/Kg		08/11/20 06:38	08/11/20 22:29	1
Calcium	<3.4		20	3.4	mg/Kg		08/11/20 06:38	08/11/20 22:29	1
Manganese	<0.15		1.0	0.15	mg/Kg		08/11/20 06:38	08/11/20 22:29	1
Nickel	<0.29		1.0	0.29	mg/Kg		08/11/20 06:38	08/11/20 22:29	1
Selenium	<0.59		1.0	0.59	mg/Kg		08/11/20 06:38	08/11/20 22:29	1
Silver	<0.13		0.50	0.13	mg/Kg		08/11/20 06:38	08/11/20 22:29	1
Thallium	<0.50		1.0	0.50	mg/Kg		08/11/20 06:38	08/11/20 22:29	1
Vanadium	<0.12		0.50	0.12	mg/Kg		08/11/20 06:38	08/11/20 22:29	1
Zinc	<0.88		2.0	0.88	mg/Kg		08/11/20 06:38	08/11/20 22:29	1
Potassium	<18		50	18	mg/Kg		08/11/20 06:38	08/11/20 22:29	1
Sodium	<15		100	15	mg/Kg		08/11/20 06:38	08/11/20 22:29	1

Lab Sample ID: LCS 500-556177/2-A
Matrix: Solid
Analysis Batch: 556360

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556177

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Antimony	50.0	44.3		mg/Kg		89	80 - 120
Arsenic	10.0	9.50		mg/Kg		95	80 - 120
Barium	200	193		mg/Kg		96	80 - 120
Beryllium	5.00	4.81		mg/Kg		96	80 - 120
Cadmium	5.00	4.80		mg/Kg		96	80 - 120
Chromium	20.0	19.6		mg/Kg		98	80 - 120
Cobalt	50.0	49.7		mg/Kg		99	80 - 120
Copper	25.0	24.4		mg/Kg		98	80 - 120

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185876-1

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

Lab Sample ID: LCS 500-556177/2-A
Matrix: Solid
Analysis Batch: 556360

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556177

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	100	109		mg/Kg		109	80 - 120
Lead	10.0	9.83		mg/Kg		98	80 - 120
Magnesium	1000	938		mg/Kg		94	80 - 120
Calcium	1000	964		mg/Kg		96	80 - 120
Manganese	50.0	47.5		mg/Kg		95	80 - 120
Nickel	50.0	49.3		mg/Kg		99	80 - 120
Selenium	10.0	8.74		mg/Kg		87	80 - 120
Silver	5.00	4.62		mg/Kg		92	80 - 120
Thallium	10.0	9.95		mg/Kg		100	80 - 120
Vanadium	50.0	49.7		mg/Kg		99	80 - 120
Zinc	50.0	47.7		mg/Kg		95	80 - 120
Potassium	1000	972		mg/Kg		97	80 - 120
Sodium	1000	984		mg/Kg		98	80 - 120

Lab Sample ID: LCS 500-556725/2-A
Matrix: Solid
Analysis Batch: 556800

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556725

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.112		mg/L		112	80 - 120
Barium	0.500	0.509		mg/L		102	80 - 120
Beryllium	0.0500	0.0494		mg/L		99	80 - 120
Cadmium	0.0500	0.0521		mg/L		104	80 - 120
Chromium	0.200	0.205		mg/L		103	80 - 120
Cobalt	0.500	0.540		mg/L		108	80 - 120
Copper	0.250	0.269		mg/L		107	80 - 120
Iron	1.00	1.05		mg/L		105	80 - 120
Lead	0.100	0.0988		mg/L		99	80 - 120
Magnesium	10.0	9.44		mg/L		94	80 - 120
Calcium	10.0	9.98		mg/L		100	80 - 120
Manganese	0.500	0.489		mg/L		98	80 - 120
Nickel	0.500	0.533		mg/L		107	80 - 120
Selenium	0.100	0.112		mg/L		112	80 - 120
Silver	0.0500	0.0530		mg/L		106	80 - 120
Vanadium	0.500	0.520		mg/L		104	80 - 120
Zinc	0.500	0.593		mg/L		119	80 - 120
Potassium	10.0	10.4		mg/L		104	80 - 120

Lab Sample ID: LCS 500-556797/2-A
Matrix: Solid
Analysis Batch: 557084

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556797

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	0.500	0.505		mg/L		101	80 - 120

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185876-1

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

Lab Sample ID: LB 500-556481/2-B
Matrix: Solid
Analysis Batch: 556800

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 556725

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/13/20 17:10	08/14/20 03:22	1
Barium	<0.050		0.50	0.050	mg/L		08/13/20 17:10	08/14/20 03:22	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/13/20 17:10	08/14/20 03:22	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/13/20 17:10	08/14/20 03:22	1
Chromium	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 03:22	1
Cobalt	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 03:22	1
Copper	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 03:22	1
Iron	<0.20		0.40	0.20	mg/L		08/13/20 17:10	08/14/20 03:22	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/13/20 17:10	08/14/20 03:22	1
Magnesium	<0.50		2.5	0.50	mg/L		08/13/20 17:10	08/14/20 03:22	1
Calcium	<0.50		5.0	0.50	mg/L		08/13/20 17:10	08/14/20 03:22	1
Manganese	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 03:22	1
Nickel	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 03:22	1
Selenium	<0.020		0.050	0.020	mg/L		08/13/20 17:10	08/14/20 03:22	1
Silver	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 03:22	1
Vanadium	<0.010		0.025	0.010	mg/L		08/13/20 17:10	08/14/20 03:22	1
Zinc	<0.020		0.50	0.020	mg/L		08/13/20 17:10	08/14/20 03:22	1
Potassium	<0.50		2.5	0.50	mg/L		08/13/20 17:10	08/14/20 03:22	1

Lab Sample ID: LB 500-556480/1-B
Matrix: Solid
Analysis Batch: 557084

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 556797

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.010		0.025	0.010	mg/L		08/14/20 05:58	08/16/20 22:15	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-556725/2-A
Matrix: Solid
Analysis Batch: 556891

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556725

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.478		mg/L		96	80 - 120
Thallium	0.100	0.109		mg/L		109	80 - 120

Lab Sample ID: LB 500-556488/1-B
Matrix: Solid
Analysis Batch: 556891

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L			08/14/20 09:02	1
Thallium	<0.0020		0.0020	0.0020	mg/L			08/14/20 09:02	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185876-1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-556707/12-A
Matrix: Solid
Analysis Batch: 556904

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 556707

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/13/20 14:20	08/14/20 10:52	1

Lab Sample ID: LCS 500-556707/14-A
Matrix: Solid
Analysis Batch: 556904

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556707
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00215		mg/L		107	80 - 120

Lab Sample ID: LB 500-556481/1-B
Matrix: Solid
Analysis Batch: 556904

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 556707

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/13/20 14:20	08/14/20 10:54	1

Lab Sample ID: 500-185876-2 MS
Matrix: Solid
Analysis Batch: 556904

Client Sample ID: 2412V2-19-B01 (5-7.5)
Prep Type: TCLP
Prep Batch: 556707
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00020		0.00100	0.00104		mg/L		104	75 - 125

Lab Sample ID: 500-185876-2 DU
Matrix: Solid
Analysis Batch: 556904

Client Sample ID: 2412V2-19-B01 (5-7.5)
Prep Type: TCLP
Prep Batch: 556707

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	<0.00020		<0.00020		mg/L		NC	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-556263/12-A
Matrix: Solid
Analysis Batch: 556451

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 556263

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		08/11/20 14:25	08/12/20 07:11	1

Lab Sample ID: LCS 500-556263/13-A
Matrix: Solid
Analysis Batch: 556451

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556263
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.170		mg/Kg		102	80 - 120

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185876-1

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 500-556845/1-A
Matrix: Solid
Analysis Batch: 557233

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 556845

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.12		0.24	0.12	mg/Kg		08/14/20 13:10	08/17/20 09:49	1

Lab Sample ID: HLCS 500-556845/2-A
Matrix: Solid
Analysis Batch: 557233

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556845

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	12.0	11.9		mg/Kg		99	90 - 110

Lab Sample ID: LCS 500-556845/3-A
Matrix: Solid
Analysis Batch: 557233

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556845

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	2.40	2.49		mg/Kg		104	85 - 115

Lab Sample ID: LLCS 500-556845/4-A
Matrix: Solid
Analysis Batch: 557233

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556845

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	1.20	1.18		mg/Kg		98	75 - 125

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185876-1

Client Sample ID: 2412V2-19-B01 (0-5)

Lab Sample ID: 500-185876-1

Date Collected: 08/03/20 12:45

Matrix: Solid

Date Received: 08/03/20 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			556480	08/12/20 12:07	JLC	TAL CHI
SPLP East	Prep	3010A			556797	08/14/20 05:58	LMN	TAL CHI
SPLP East	Analysis	6010B		1	557084	08/16/20 23:36	EEN	TAL CHI
TCLP	Leach	1311			556481	08/12/20 12:07	JLC	TAL CHI
TCLP	Prep	3010A			556725	08/13/20 17:10	BDE	TAL CHI
TCLP	Analysis	6010B		1	556800	08/14/20 04:16	JEF	TAL CHI
TCLP	Leach	1311			556481	08/12/20 12:07	JLC	TAL CHI
TCLP	Prep	3010A			556725	08/13/20 17:10	BDE	TAL CHI
TCLP	Analysis	6020A		1	556891	08/14/20 09:14	FXG	TAL CHI
TCLP	Leach	1311			556481	08/12/20 12:07	JLC	TAL CHI
TCLP	Prep	7470A			556707	08/13/20 14:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	556904	08/14/20 11:25	MJG	TAL CHI
Total/NA	Analysis	9045D		1	555814	08/06/20 19:13	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	555660	08/06/20 10:44	LWN	TAL CHI

Client Sample ID: 2412V2-19-B01 (0-5)

Lab Sample ID: 500-185876-1

Date Collected: 08/03/20 12:45

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 80.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			556139	08/04/20 17:04	PMF	TAL CHI
Total/NA	Analysis	8260B		1	556207	08/11/20 14:24	EMA	TAL CHI
Total/NA	Prep	3541			556799	08/14/20 06:11	DAK	TAL CHI
Total/NA	Analysis	8270D		1	556846	08/14/20 17:32	AJD	TAL CHI
Total/NA	Prep	3050B			556177	08/11/20 06:38	LMN	TAL CHI
Total/NA	Analysis	6010B		1	556360	08/11/20 23:45	JEF	TAL CHI
Total/NA	Prep	7471B			556263	08/11/20 14:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	556451	08/12/20 07:14	MJG	TAL CHI
Total/NA	Prep	9010C			556845	08/14/20 13:10	MS	TAL CHI
Total/NA	Analysis	9012B		1	557233	08/17/20 10:15	MS	TAL CHI

Client Sample ID: 2412V2-19-B01 (5-7.5)

Lab Sample ID: 500-185876-2

Date Collected: 08/03/20 12:50

Matrix: Solid

Date Received: 08/03/20 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			556480	08/12/20 12:07	JLC	TAL CHI
SPLP East	Prep	3010A			556797	08/14/20 05:58	LMN	TAL CHI
SPLP East	Analysis	6010B		1	557084	08/16/20 23:40	EEN	TAL CHI
TCLP	Leach	1311			556481	08/12/20 12:07	JLC	TAL CHI
TCLP	Prep	3010A			556725	08/13/20 17:10	BDE	TAL CHI
TCLP	Analysis	6010B		1	556902	08/14/20 08:18	JEF	TAL CHI
TCLP	Leach	1311			556481	08/12/20 12:07	JLC	TAL CHI
TCLP	Prep	3010A			556725	08/13/20 17:10	BDE	TAL CHI
TCLP	Analysis	6010B		5	556902	08/14/20 08:22	JEF	TAL CHI

Eurofins TestAmerica, Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185876-1

Client Sample ID: 2412V2-19-B01 (5-7.5)

Lab Sample ID: 500-185876-2

Date Collected: 08/03/20 12:50

Matrix: Solid

Date Received: 08/03/20 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			556481	08/12/20 12:07	JLC	TAL CHI
TCLP	Prep	3010A			556725	08/13/20 17:10	BDE	TAL CHI
TCLP	Analysis	6010B		1	556800	08/14/20 04:20	JEF	TAL CHI
TCLP	Leach	1311			556481	08/12/20 12:07	JLC	TAL CHI
TCLP	Prep	3010A			556725	08/13/20 17:10	BDE	TAL CHI
TCLP	Analysis	6020A		1	556891	08/14/20 09:16	FXG	TAL CHI
TCLP	Leach	1311			556481	08/12/20 12:07	JLC	TAL CHI
TCLP	Prep	7470A			556707	08/13/20 14:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	556904	08/14/20 11:27	MJG	TAL CHI
Total/NA	Analysis	9045D		1	555814	08/06/20 19:16	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	555660	08/06/20 10:44	LWN	TAL CHI

Client Sample ID: 2412V2-19-B01 (5-7.5)

Lab Sample ID: 500-185876-2

Date Collected: 08/03/20 12:50

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 89.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			556139	08/04/20 17:04	PMF	TAL CHI
Total/NA	Analysis	8260B		1	556207	08/11/20 14:49	EMA	TAL CHI
Total/NA	Prep	3541			556799	08/14/20 06:11	DAK	TAL CHI
Total/NA	Analysis	8270D		1	556846	08/14/20 17:59	AJD	TAL CHI
Total/NA	Prep	3050B			556177	08/11/20 06:38	LMN	TAL CHI
Total/NA	Analysis	6010B		1	556360	08/11/20 23:49	JEF	TAL CHI
Total/NA	Prep	3050B			556177	08/11/20 06:38	LMN	TAL CHI
Total/NA	Analysis	6010B		10	556484	08/12/20 12:26	JEF	TAL CHI
Total/NA	Prep	7471B			556263	08/11/20 14:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	556451	08/12/20 07:17	MJG	TAL CHI
Total/NA	Prep	9010C			556845	08/14/20 13:10	MS	TAL CHI
Total/NA	Analysis	9012B		1	557233	08/17/20 10:16	MS	TAL CHI

Client Sample ID: 2412V2-19-B02 (0-5)

Lab Sample ID: 500-185876-3

Date Collected: 08/03/20 13:15

Matrix: Solid

Date Received: 08/03/20 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			556481	08/12/20 12:07	JLC	TAL CHI
TCLP	Prep	3010A			556725	08/13/20 17:10	BDE	TAL CHI
TCLP	Analysis	6010B		1	556800	08/14/20 04:24	JEF	TAL CHI
TCLP	Leach	1311			556481	08/12/20 12:07	JLC	TAL CHI
TCLP	Prep	3010A			556725	08/13/20 17:10	BDE	TAL CHI
TCLP	Analysis	6020A		1	556891	08/14/20 09:18	FXG	TAL CHI
TCLP	Leach	1311			556481	08/12/20 12:07	JLC	TAL CHI
TCLP	Prep	7470A			556707	08/13/20 14:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	556904	08/14/20 11:34	MJG	TAL CHI
Total/NA	Analysis	9045D		1	555814	08/06/20 19:18	SMO	TAL CHI

Eurofins TestAmerica, Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185876-1

Client Sample ID: 2412V2-19-B02 (0-5)

Lab Sample ID: 500-185876-3

Date Collected: 08/03/20 13:15

Matrix: Solid

Date Received: 08/03/20 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	555660	08/06/20 10:44	LWN	TAL CHI

Client Sample ID: 2412V2-19-B02 (0-5)

Lab Sample ID: 500-185876-3

Date Collected: 08/03/20 13:15

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 81.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			556139	08/04/20 17:04	PMF	TAL CHI
Total/NA	Analysis	8260B		1	556207	08/11/20 15:15	EMA	TAL CHI
Total/NA	Prep	3541			556799	08/14/20 06:11	DAK	TAL CHI
Total/NA	Analysis	8270D		1	556846	08/14/20 18:26	AJD	TAL CHI
Total/NA	Prep	3050B			556177	08/11/20 06:38	LMN	TAL CHI
Total/NA	Analysis	6010B		1	556360	08/11/20 23:53	JEF	TAL CHI
Total/NA	Prep	7471B			556263	08/11/20 14:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	556451	08/12/20 07:19	MJG	TAL CHI
Total/NA	Prep	9010C			556845	08/14/20 13:10	MS	TAL CHI
Total/NA	Analysis	9012B		1	557233	08/17/20 10:18	MS	TAL CHI

Client Sample ID: 2412V2-19-B02 (0-5) Dup

Lab Sample ID: 500-185876-4

Date Collected: 08/03/20 13:20

Matrix: Solid

Date Received: 08/03/20 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			556480	08/12/20 12:07	JLC	TAL CHI
SPLP East	Prep	3010A			556797	08/14/20 05:58	LMN	TAL CHI
SPLP East	Analysis	6010B		1	557084	08/16/20 23:48	EEN	TAL CHI
TCLP	Leach	1311			556481	08/12/20 12:07	JLC	TAL CHI
TCLP	Prep	3010A			556725	08/13/20 17:10	BDE	TAL CHI
TCLP	Analysis	6010B		1	556800	08/14/20 04:29	JEF	TAL CHI
TCLP	Leach	1311			556481	08/12/20 12:07	JLC	TAL CHI
TCLP	Prep	3010A			556725	08/13/20 17:10	BDE	TAL CHI
TCLP	Analysis	6020A		1	556891	08/14/20 09:20	FXG	TAL CHI
TCLP	Leach	1311			556481	08/12/20 12:07	JLC	TAL CHI
TCLP	Prep	7470A			556707	08/13/20 14:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	556904	08/14/20 11:36	MJG	TAL CHI
Total/NA	Analysis	9045D		1	555814	08/06/20 19:21	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	555660	08/06/20 10:44	LWN	TAL CHI

Client Sample ID: 2412V2-19-B02 (0-5) Dup

Lab Sample ID: 500-185876-4

Date Collected: 08/03/20 13:20

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 81.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			556139	08/04/20 17:04	PMF	TAL CHI
Total/NA	Analysis	8260B		1	556207	08/11/20 15:40	EMA	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185876-1

Client Sample ID: 2412V2-19-B02 (0-5) Dup

Lab Sample ID: 500-185876-4

Date Collected: 08/03/20 13:20

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 81.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			556799	08/14/20 06:11	DAK	TAL CHI
Total/NA	Analysis	8270D		1	556846	08/14/20 18:53	AJD	TAL CHI
Total/NA	Prep	3050B			556177	08/11/20 06:38	LMN	TAL CHI
Total/NA	Analysis	6010B		1	556360	08/12/20 00:05	JEF	TAL CHI
Total/NA	Prep	7471B			556263	08/11/20 14:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	556451	08/12/20 07:20	MJG	TAL CHI
Total/NA	Prep	9010C			556845	08/14/20 13:10	MS	TAL CHI
Total/NA	Analysis	9012B		1	557233	08/17/20 10:20	MS	TAL CHI

Client Sample ID: 2412V2-19-B02 (5-7.5)

Lab Sample ID: 500-185876-5

Date Collected: 08/03/20 13:30

Matrix: Solid

Date Received: 08/03/20 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			556480	08/12/20 12:07	JLC	TAL CHI
SPLP East	Prep	3010A			556797	08/14/20 05:58	LMN	TAL CHI
SPLP East	Analysis	6010B		1	557084	08/16/20 23:52	EEN	TAL CHI
TCLP	Leach	1311			556481	08/12/20 12:07	JLC	TAL CHI
TCLP	Prep	3010A			556725	08/13/20 17:10	BDE	TAL CHI
TCLP	Analysis	6010B		1	556800	08/14/20 04:33	JEF	TAL CHI
TCLP	Leach	1311			556481	08/12/20 12:07	JLC	TAL CHI
TCLP	Prep	3010A			556725	08/13/20 17:10	BDE	TAL CHI
TCLP	Analysis	6020A		1	556891	08/14/20 09:26	FXG	TAL CHI
TCLP	Leach	1311			556481	08/12/20 12:07	JLC	TAL CHI
TCLP	Prep	7470A			556707	08/13/20 14:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	556904	08/14/20 11:42	MJG	TAL CHI
Total/NA	Analysis	9045D		1	555814	08/06/20 19:23	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	555660	08/06/20 10:44	LWN	TAL CHI

Client Sample ID: 2412V2-19-B02 (5-7.5)

Lab Sample ID: 500-185876-5

Date Collected: 08/03/20 13:30

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 89.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			556139	08/04/20 17:04	PMF	TAL CHI
Total/NA	Analysis	8260B		1	556207	08/11/20 16:06	EMA	TAL CHI
Total/NA	Prep	3541			556799	08/14/20 06:11	DAK	TAL CHI
Total/NA	Analysis	8270D		1	556846	08/14/20 19:20	AJD	TAL CHI
Total/NA	Prep	3050B			556177	08/11/20 06:38	LMN	TAL CHI
Total/NA	Analysis	6010B		1	556360	08/12/20 00:09	JEF	TAL CHI
Total/NA	Prep	3050B			556177	08/11/20 06:38	LMN	TAL CHI
Total/NA	Analysis	6010B		10	556484	08/12/20 12:30	JEF	TAL CHI
Total/NA	Prep	7471B			556263	08/11/20 14:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	556451	08/12/20 07:22	MJG	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185876-1

Client Sample ID: 2412V2-19-B02 (5-7.5)

Lab Sample ID: 500-185876-5

Date Collected: 08/03/20 13:30

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 89.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	9010C			556845	08/14/20 13:10	MS	TAL CHI
Total/NA	Analysis	9012B		1	557233	08/17/20 10:22	MS	TAL CHI

Client Sample ID: 2412V2-19-B03 (0-5)

Lab Sample ID: 500-185876-6

Date Collected: 08/03/20 13:50

Matrix: Solid

Date Received: 08/03/20 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			556480	08/12/20 12:07	JLC	TAL CHI
SPLP East	Prep	3010A			556797	08/14/20 05:58	LMN	TAL CHI
SPLP East	Analysis	6010B		1	557084	08/16/20 23:56	EEN	TAL CHI
TCLP	Leach	1311			556481	08/12/20 12:07	JLC	TAL CHI
TCLP	Prep	3010A			556725	08/13/20 17:10	BDE	TAL CHI
TCLP	Analysis	6010B		1	556800	08/14/20 04:37	JEF	TAL CHI
TCLP	Leach	1311			556481	08/12/20 12:07	JLC	TAL CHI
TCLP	Prep	3010A			556725	08/13/20 17:10	BDE	TAL CHI
TCLP	Analysis	6020A		1	556891	08/14/20 09:29	FXG	TAL CHI
TCLP	Leach	1311			556481	08/12/20 12:07	JLC	TAL CHI
TCLP	Prep	7470A			556707	08/13/20 14:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	556904	08/14/20 11:45	MJG	TAL CHI
Total/NA	Analysis	9045D		1	555814	08/06/20 19:26	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	555660	08/06/20 10:44	LWN	TAL CHI

Client Sample ID: 2412V2-19-B03 (0-5)

Lab Sample ID: 500-185876-6

Date Collected: 08/03/20 13:50

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 84.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			556139	08/04/20 17:04	PMF	TAL CHI
Total/NA	Analysis	8260B		1	556207	08/11/20 16:31	EMA	TAL CHI
Total/NA	Prep	3541			556799	08/14/20 06:11	DAK	TAL CHI
Total/NA	Analysis	8270D		1	556846	08/14/20 19:48	AJD	TAL CHI
Total/NA	Prep	3050B			556177	08/11/20 06:38	LMN	TAL CHI
Total/NA	Analysis	6010B		1	556360	08/12/20 00:13	JEF	TAL CHI
Total/NA	Prep	7471B			556263	08/11/20 14:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	556451	08/12/20 07:24	MJG	TAL CHI
Total/NA	Prep	9010C			556845	08/14/20 13:10	MS	TAL CHI
Total/NA	Analysis	9012B		1	557233	08/17/20 10:24	MS	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185876-1

Client Sample ID: 2412V2-19-B03 (5-7.5)

Lab Sample ID: 500-185876-7

Date Collected: 08/03/20 13:55

Matrix: Solid

Date Received: 08/03/20 18:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			556480	08/12/20 12:07	JLC	TAL CHI
SPLP East	Prep	3010A			556797	08/14/20 05:58	LMN	TAL CHI
SPLP East	Analysis	6010B		1	557084	08/17/20 00:00	EEN	TAL CHI
TCLP	Leach	1311			556481	08/12/20 12:07	JLC	TAL CHI
TCLP	Prep	3010A			556725	08/13/20 17:10	BDE	TAL CHI
TCLP	Analysis	6010B		1	556800	08/14/20 04:41	JEF	TAL CHI
TCLP	Leach	1311			556481	08/12/20 12:07	JLC	TAL CHI
TCLP	Prep	3010A			556725	08/13/20 17:10	BDE	TAL CHI
TCLP	Analysis	6020A		1	556891	08/14/20 09:31	FXG	TAL CHI
TCLP	Leach	1311			556481	08/12/20 12:07	JLC	TAL CHI
TCLP	Prep	7470A			556707	08/13/20 14:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	556904	08/14/20 11:47	MJG	TAL CHI
Total/NA	Analysis	9045D		1	555814	08/06/20 19:28	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	555660	08/06/20 10:44	LWN	TAL CHI

Client Sample ID: 2412V2-19-B03 (5-7.5)

Lab Sample ID: 500-185876-7

Date Collected: 08/03/20 13:55

Matrix: Solid

Date Received: 08/03/20 18:25

Percent Solids: 80.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			556139	08/04/20 17:04	PMF	TAL CHI
Total/NA	Analysis	8260B		1	556207	08/11/20 16:57	EMA	TAL CHI
Total/NA	Prep	3541			556799	08/14/20 06:11	DAK	TAL CHI
Total/NA	Analysis	8270D		1	556846	08/14/20 20:14	AJD	TAL CHI
Total/NA	Prep	3050B			556177	08/11/20 06:38	LMN	TAL CHI
Total/NA	Analysis	6010B		1	556360	08/12/20 00:17	JEF	TAL CHI
Total/NA	Prep	7471B			556263	08/11/20 14:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	556451	08/12/20 07:26	MJG	TAL CHI
Total/NA	Prep	9010C			556845	08/14/20 13:10	MS	TAL CHI
Total/NA	Analysis	9012B		1	557233	08/17/20 10:25	MS	TAL CHI

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185876-1

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-21

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
9012B	9010C	Solid	Cyanide, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 604
Phone: 708.534.5200 Fax: 708.534.



500-185876 COC

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 #: 500-185876

Chain of Custody Number: _____

Page 1 of 1

Temperature °C of Cooler: 5.9, 5.7, 5.4

Client		Client Project #		Preservative		Parameter										Preservative Key		
<u>Terracon</u>		<u>111207011P</u>														1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other		
Project Name		Lab Project #		Sampling		# of Containers		Matrix								Comments		
<u>111207011P</u>				Date Time		Matrix												
Project Location/State		Lab PM																
<u>Hempshire, IL</u>																		
Sampler																		
<u>D. G. FT</u>																		
1	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix												
1		<u>241202-19-B01 (0.5)</u>	<u>8/3/20</u>	<u>1245</u>	<u>6</u>	<u>SO</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
2		<u>241202-19-B01 (5-7.5)</u>	<u>8/3/20</u>	<u>1250</u>	<u>6</u>	<u>SO</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
3		<u>241202-19-B02 (0-5)</u>	<u>8/3/20</u>	<u>1315</u>	<u>6</u>	<u>SO</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
4		<u>241202-19-B02 (0-5) Dup</u>	<u>8/3/20</u>	<u>1320</u>	<u>6</u>	<u>SO</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
5		<u>241202-19-B02 (5-7.5)</u>	<u>8/3/20</u>	<u>1330</u>	<u>6</u>	<u>SO</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
6		<u>241202-19-B03 (0-5)</u>	<u>8/3/20</u>	<u>1350</u>	<u>6</u>	<u>SO</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
7		<u>241202-19-B03 (5-7.5)</u>	<u>8/3/20</u>	<u>1355</u>	<u>6</u>	<u>SO</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	

Turnaround Time Required (Business Days)

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

Sample Disposal

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

Requested Due Date _____

Relinquished By <u>[Signature]</u> Company <u>Terracon</u>	Date <u>8/3/2020</u>	Time <u>1630</u>	Received By <u>[Signature]</u> Company <u>TA</u>	Date <u>8/3/20</u>	Time <u>1630</u>
Relinquished By <u>[Signature]</u> Company <u>TA</u>	Date <u>8/3/20</u>	Time <u>1825</u>	Received By <u>[Signature]</u> Company <u>TA-CHE</u>	Date <u>8/4/20</u>	Time <u>0800</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:
* STANDARD TURN
* NO ALUMINUM
* Hold SPEC 23 Inorganics per Terracon Instruction

Lab Comments:

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-185876-1

Login Number: 185876

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.9,5.7,5.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 557-IL Route 72 at State Street/Getzelman Rd Office Phone Number, if available: _____

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

IL Route 72 (Westbound) IDOT STA 502+40 to 503+40 (ISGS 2412V2-20)

City: Hampshire State: IL Zip Code: 60140

County: Kane Township: Hampshire

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

Latitude: 42.08832 Longitude: - 88.53013

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

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

Estimated Volume of debris (cu. Yd.): 35

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

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

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

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

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

Soil from boring B02 was sampled adjacent to ISGS Site No 2412V2-20.

See Exhibit 2 and Table 25 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 J185944-1.

Also see Preliminary Site Investigation Report prepared by Terracon. CCDD/USFO facility in MSA County.

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

I, Matt Weiss (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51 a] 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

Printed Name: _____

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Date:

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

Comparison of Detected Constituents to MACs-PTB 174-009;Work Order:074A
Preliminary Site Investigation
FAP 557-IL Route 72 at State St./Getzelman Road (PESA #2412V2-20)
Hampshire, Kane Co, IL
Terracon Project No. 11207011P
Page 1 of 2

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2412V2-20-B02 (0-1.1)
				CCDD	Sample Depth (feet)	(0-1.1)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	8/4/2020
Volatile Organic Analytical Parameters						
Acetone	mg/kg	---	---	25		0.017
Semivolatile Organic Analytical Parameters						
Acenaphthene	mg/kg	0.09	0.13	570		0.016
Anthracene	mg/kg	0.25	0.4	12000		0.057
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.42
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.47
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.8
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.19
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.31
Chrysene	mg/kg	1.2	2.7	88		0.46
Fluoranthene	mg/kg	2.7	4.1	3100		1.2
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.16
Phenanthrene	mg/kg	1.3	2.5	210		0.41
Pyrene	mg/kg	1.9	3.0	2300		1.1
2-Methylnaphthalene	mg/kg	---	0.14	---		0.0078
Inorganic Analytical Parameters						
Arsenic	mg/kg	---	13	11.3		5.6
Barium	mg/kg	---	110	1500		110
Cadmium	mg/kg	---	0.6	5.2		0.3
Chromium, total	mg/kg	---	16.2	21		16
Lead	mg/kg	---	36	107		99
Mercury	mg/kg	---	0.06	0.89		0.029
Selenium	mg/kg	---	0.48	1.3		<0.38
Silver	mg/kg	---	0.55	4.4		<0.082
Antimony	mg/kg	---	4.0	5		0.44
Beryllium	mg/kg	---	0.59	22		0.65
Calcium	mg/kg	---	9,300	---		17000
Cobalt	mg/kg	---	8.9	20		8.3
Copper	mg/kg	---	19.6	2900		16
Cyanide	mg/kg	---	0.51	---		0.23
Iron	mg/kg	---	15,900	15000		16000
Magnesium	mg/kg	---	4,820	325000		11000
Manganese	mg/kg	---	636	630		540
Nickel	mg/kg	---	18	100		19
Potassium	mg/kg	---	1,268	---		1600
Sodium	mg/kg	---	130	---		1200
Thallium	mg/kg	---	0.32	2.6		<0.32
Vanadium	mg/kg	---	25.2	550		26
Zinc	mg/kg	---	95	5100		110
pH			6.25	9		8.4

Preliminary Site Investigation

FAP 557-IL Route 72 at State St./Getzelman Road (PESA #2412V2-20)

Hampshire, Kane Co, IL

Terracon Project No. 11207011P

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2412V2-20-B02 (0-1.1)
				CCDD	Sample Depth (feet)	(0-1.1)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	8/4/2020
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	---	---	---		0.54
Magnesium,SPLP	mg/L	---	---	---		--
Manganese,SPLP	mg/L	---	---	---		2.1
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
Barium,TCLP	mg/L	---	---	---		1.1
Cadmium,TCLP	mg/L	---	---	---		0.003
Chromium,TCLP	mg/L	---	---	---		<0.010
Lead,TCLP	mg/L	---	---	---		0.028
Mercury,TCLP	mg/L	---	---	---		<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.020
Silver,TCLP	mg/L	---	---	---		<0.010
Antimony,TCLP	mg/L	---	---	---		<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040
Calcium,TCLP	mg/L	---	---	---		220
Cobalt,TCLP	mg/L	---	---	---		0.042
Copper,TCLP	mg/L	---	---	---		<0.010
Cyanide,TCLP	mg/L	---	---	---		--
Iron,TCLP	mg/L	---	---	---		<0.20
Magnesium,TCLP	mg/L	---	---	---		100
Manganese,TCLP	mg/L	---	---	---		10
Nickel,TCLP	mg/L	---	---	---		0.037
Potassium,TCLP	mg/L	---	---	---		4.8
Sodium,TCLP	mg/L	---	---	---		--
Thallium,TCLP	mg/L	---	---	---		<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.010
Zinc,TCLP	mg/L	---	---	---		0.36

ANALYTICAL REPORT

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

Laboratory Job ID: 500-185944-1
Client Project/Site: IDOT - Hampshire - WO 074

For:

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

Attn: Mr. Matthew Weiss



Authorized for release by:
8/19/2020 4:20:14 PM

Richard Wright, Senior Project Manager
(708)746-0045
Richard.Wright@Eurofinset.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 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 - Hampshire - WO 074

Job ID: 500-185944-1

Job ID: 500-185944-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-185944-1

Receipt

The samples were received on 8/4/2020 5:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 4.3° C, 4.4° C, 5.8° C and 5.9° C.

GC/MS VOA

Method 8260B: The laboratory control sample (LCS) for 556601 recovered outside control limits for Chloroethane. This poor purging analyte was biased low in the LCS and was not detected in the associated samples; therefore, the data have been reported. 2412V2-20-B01 (0-1.1) (500-185944-1) and 2412V2-20-B02 (0-1.1) (500-185944-2)

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

GC/MS Semi VOA

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-557246 was outside the method criteria for the following analyte(s): Dibenz(a,h)anthracene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

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

Metals

Method 6020A: The continuing calibration verification (CCV) associated with batch 500-557398 recovered above the upper control limit for Antimony and Thallium. The samples associated with this CCV were non-detects for the affected analytes; 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.

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 - Hampshire - WO 074

Job ID: 500-185944-1

Client Sample ID: 2412V2-20-B01 (0-1.1)

Lab Sample ID: 500-185944-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.014	J	0.019	0.0082	mg/Kg	1	☼	8260B	Total/NA
2-Butanone (MEK)	0.0034	J	0.0047	0.0021	mg/Kg	1	☼	8260B	Total/NA
Acenaphthene	0.045		0.044	0.0080	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.0098	J	0.044	0.0059	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.12		0.044	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.67		0.044	0.0060	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.86		0.044	0.0086	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	1.6		0.044	0.0096	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.44		0.044	0.014	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.51		0.044	0.013	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.12	J	0.22	0.081	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.80		0.044	0.012	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.077		0.044	0.0086	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	2.1		0.044	0.0082	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.046		0.044	0.0062	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.36		0.044	0.012	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.76		0.044	0.0062	mg/Kg	1	☼	8270D	Total/NA
Pyrene	1.4		0.044	0.0088	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.99	J F1	1.3	0.26	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.1		0.67	0.23	mg/Kg	1	☼	6010B	Total/NA
Barium	87		0.67	0.076	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.52		0.27	0.062	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.38	B	0.13	0.024	mg/Kg	1	☼	6010B	Total/NA
Chromium	28	F1	0.67	0.33	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.7		0.33	0.088	mg/Kg	1	☼	6010B	Total/NA
Copper	22	F1	0.67	0.19	mg/Kg	1	☼	6010B	Total/NA
Iron	12000		13	7.0	mg/Kg	1	☼	6010B	Total/NA
Lead	150	F2	0.33	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	26000	F2	6.7	3.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	56000	F2	130	23	mg/Kg	10	☼	6010B	Total/NA
Manganese	520		0.67	0.097	mg/Kg	1	☼	6010B	Total/NA
Nickel	16		0.67	0.19	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.41	J F1	0.67	0.39	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.46	J	0.67	0.33	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.33	0.079	mg/Kg	1	☼	6010B	Total/NA
Zinc	130		1.3	0.59	mg/Kg	1	☼	6010B	Total/NA
Potassium	1200	F1	33	12	mg/Kg	1	☼	6010B	Total/NA
Sodium	1300	B	67	9.9	mg/Kg	1	☼	6010B	Total/NA
Barium	0.60		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	290		5.0	0.50	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	0.14		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.0	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.19	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.28		0.0075	0.0075	mg/L	1		6010B	SPLP East
Mercury	0.025		0.022	0.0075	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.40		0.38	0.19	mg/Kg	1	☼	9012B	Total/NA
pH	8.3		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185944-1

Client Sample ID: 2412V2-20-B02 (0-1.1)

Lab Sample ID: 500-185944-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.017	J	0.018	0.0078	mg/Kg	1	☼	8260B	Total/NA
2-Butanone (MEK)	0.0028	J	0.0045	0.0020	mg/Kg	1	☼	8260B	Total/NA
Acenaphthene	0.016	J	0.041	0.0073	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.057		0.041	0.0068	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.42		0.041	0.0055	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.47		0.041	0.0079	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.80		0.041	0.0088	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.19		0.041	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.31		0.041	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.46		0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	1.2		0.041	0.0076	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.16		0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.0078	J	0.082	0.0075	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.41		0.041	0.0057	mg/Kg	1	☼	8270D	Total/NA
Pyrene	1.1		0.041	0.0081	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.44	J	1.3	0.25	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.6		0.64	0.22	mg/Kg	1	☼	6010B	Total/NA
Barium	110		0.64	0.073	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.65		0.26	0.060	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.30	B	0.13	0.023	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.64	0.32	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.3		0.32	0.084	mg/Kg	1	☼	6010B	Total/NA
Copper	16		0.64	0.18	mg/Kg	1	☼	6010B	Total/NA
Iron	16000		13	6.6	mg/Kg	1	☼	6010B	Total/NA
Lead	99		0.32	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	11000		6.4	3.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	17000	B	13	2.2	mg/Kg	1	☼	6010B	Total/NA
Manganese	540		0.64	0.093	mg/Kg	1	☼	6010B	Total/NA
Nickel	19		0.64	0.19	mg/Kg	1	☼	6010B	Total/NA
Vanadium	26		0.32	0.075	mg/Kg	1	☼	6010B	Total/NA
Zinc	110		1.3	0.56	mg/Kg	1	☼	6010B	Total/NA
Potassium	1600		32	11	mg/Kg	1	☼	6010B	Total/NA
Sodium	1200	B	64	9.5	mg/Kg	1	☼	6010B	Total/NA
Barium	1.1		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0030	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	220		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.042		0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.028		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	100		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	10		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.037		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	4.8		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.36	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.54		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	2.1		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.029		0.019	0.0065	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.23	J	0.26	0.13	mg/Kg	1	☼	9012B	Total/NA
pH	8.4		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185944-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-185944-1	2412V2-20-B01 (0-1.1)	Solid	08/04/20 15:30	08/04/20 17:40	
500-185944-2	2412V2-20-B02 (0-1.1)	Solid	08/04/20 15:10	08/04/20 17:40	

- 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 - Hampshire - WO 074

Job ID: 500-185944-1

Client Sample ID: 2412V2-20-B01 (0-1.1)

Lab Sample ID: 500-185944-1

Date Collected: 08/04/20 15:30

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 72.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.014	J	0.019	0.0082	mg/Kg	☼	08/05/20 08:30	08/13/20 15:04	1
Benzene	<0.00048		0.0019	0.00048	mg/Kg	☼	08/05/20 08:30	08/13/20 15:04	1
Bromodichloromethane	<0.00038		0.0019	0.00038	mg/Kg	☼	08/05/20 08:30	08/13/20 15:04	1
Bromoform	<0.00055		0.0019	0.00055	mg/Kg	☼	08/05/20 08:30	08/13/20 15:04	1
Bromomethane	<0.0018		0.0047	0.0018	mg/Kg	☼	08/05/20 08:30	08/13/20 15:04	1
2-Butanone (MEK)	0.0034	J	0.0047	0.0021	mg/Kg	☼	08/05/20 08:30	08/13/20 15:04	1
Carbon disulfide	<0.00098		0.0047	0.00098	mg/Kg	☼	08/05/20 08:30	08/13/20 15:04	1
Carbon tetrachloride	<0.00055		0.0019	0.00055	mg/Kg	☼	08/05/20 08:30	08/13/20 15:04	1
Chlorobenzene	<0.00069		0.0019	0.00069	mg/Kg	☼	08/05/20 08:30	08/13/20 15:04	1
Chloroethane	<0.0014	*	0.0047	0.0014	mg/Kg	☼	08/05/20 08:30	08/13/20 15:04	1
Chloroform	<0.00065		0.0019	0.00065	mg/Kg	☼	08/05/20 08:30	08/13/20 15:04	1
Chloromethane	<0.0019		0.0047	0.0019	mg/Kg	☼	08/05/20 08:30	08/13/20 15:04	1
cis-1,2-Dichloroethene	<0.00053		0.0019	0.00053	mg/Kg	☼	08/05/20 08:30	08/13/20 15:04	1
cis-1,3-Dichloropropene	<0.00057		0.0019	0.00057	mg/Kg	☼	08/05/20 08:30	08/13/20 15:04	1
Dibromochloromethane	<0.00062		0.0019	0.00062	mg/Kg	☼	08/05/20 08:30	08/13/20 15:04	1
1,1-Dichloroethane	<0.00064		0.0019	0.00064	mg/Kg	☼	08/05/20 08:30	08/13/20 15:04	1
1,2-Dichloroethane	<0.0015		0.0047	0.0015	mg/Kg	☼	08/05/20 08:30	08/13/20 15:04	1
1,1-Dichloroethene	<0.00065		0.0019	0.00065	mg/Kg	☼	08/05/20 08:30	08/13/20 15:04	1
1,2-Dichloropropane	<0.00049		0.0019	0.00049	mg/Kg	☼	08/05/20 08:30	08/13/20 15:04	1
1,3-Dichloropropane, Total	<0.00066		0.0019	0.00066	mg/Kg	☼	08/05/20 08:30	08/13/20 15:04	1
Ethylbenzene	<0.00090		0.0019	0.00090	mg/Kg	☼	08/05/20 08:30	08/13/20 15:04	1
2-Hexanone	<0.0015		0.0047	0.0015	mg/Kg	☼	08/05/20 08:30	08/13/20 15:04	1
Methylene Chloride	<0.0019		0.0047	0.0019	mg/Kg	☼	08/05/20 08:30	08/13/20 15:04	1
4-Methyl-2-pentanone (MIBK)	<0.0014		0.0047	0.0014	mg/Kg	☼	08/05/20 08:30	08/13/20 15:04	1
Methyl tert-butyl ether	<0.00055		0.0019	0.00055	mg/Kg	☼	08/05/20 08:30	08/13/20 15:04	1
Styrene	<0.00057		0.0019	0.00057	mg/Kg	☼	08/05/20 08:30	08/13/20 15:04	1
1,1,2,2-Tetrachloroethane	<0.00060		0.0019	0.00060	mg/Kg	☼	08/05/20 08:30	08/13/20 15:04	1
Tetrachloroethene	<0.00064		0.0019	0.00064	mg/Kg	☼	08/05/20 08:30	08/13/20 15:04	1
Toluene	<0.00048		0.0019	0.00048	mg/Kg	☼	08/05/20 08:30	08/13/20 15:04	1
trans-1,2-Dichloroethene	<0.00083		0.0019	0.00083	mg/Kg	☼	08/05/20 08:30	08/13/20 15:04	1
trans-1,3-Dichloropropene	<0.00066		0.0019	0.00066	mg/Kg	☼	08/05/20 08:30	08/13/20 15:04	1
1,1,1-Trichloroethane	<0.00063		0.0019	0.00063	mg/Kg	☼	08/05/20 08:30	08/13/20 15:04	1
1,1,2-Trichloroethane	<0.00081		0.0019	0.00081	mg/Kg	☼	08/05/20 08:30	08/13/20 15:04	1
Trichloroethene	<0.00064		0.0019	0.00064	mg/Kg	☼	08/05/20 08:30	08/13/20 15:04	1
Vinyl acetate	<0.0016		0.0047	0.0016	mg/Kg	☼	08/05/20 08:30	08/13/20 15:04	1
Vinyl chloride	<0.00083		0.0019	0.00083	mg/Kg	☼	08/05/20 08:30	08/13/20 15:04	1
Xylenes, Total	<0.00060		0.0038	0.00060	mg/Kg	☼	08/05/20 08:30	08/13/20 15:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		75 - 131	08/05/20 08:30	08/13/20 15:04	1
Dibromofluoromethane	102		75 - 126	08/05/20 08:30	08/13/20 15:04	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134	08/05/20 08:30	08/13/20 15:04	1
Toluene-d8 (Surr)	93		75 - 124	08/05/20 08:30	08/13/20 15:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.045		0.044	0.0080	mg/Kg	☼	08/17/20 06:17	08/18/20 12:40	1
Acenaphthylene	0.0098	J	0.044	0.0059	mg/Kg	☼	08/17/20 06:17	08/18/20 12:40	1
Anthracene	0.12		0.044	0.0074	mg/Kg	☼	08/17/20 06:17	08/18/20 12:40	1
Benzo[a]anthracene	0.67		0.044	0.0060	mg/Kg	☼	08/17/20 06:17	08/18/20 12:40	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185944-1

Client Sample ID: 2412V2-20-B01 (0-1.1)

Lab Sample ID: 500-185944-1

Date Collected: 08/04/20 15:30

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 72.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.86		0.044	0.0086	mg/Kg	☼	08/17/20 06:17	08/18/20 12:40	1
Benzo[b]fluoranthene	1.6		0.044	0.0096	mg/Kg	☼	08/17/20 06:17	08/18/20 12:40	1
Benzo[g,h,i]perylene	0.44		0.044	0.014	mg/Kg	☼	08/17/20 06:17	08/18/20 12:40	1
Benzo[k]fluoranthene	0.51		0.044	0.013	mg/Kg	☼	08/17/20 06:17	08/18/20 12:40	1
Bis(2-chloroethoxy)methane	<0.045		0.22	0.045	mg/Kg	☼	08/17/20 06:17	08/18/20 12:40	1
Bis(2-chloroethyl)ether	<0.067		0.22	0.067	mg/Kg	☼	08/17/20 06:17	08/18/20 12:40	1
Bis(2-ethylhexyl) phthalate	0.12	J	0.22	0.081	mg/Kg	☼	08/17/20 06:17	08/18/20 12:40	1
4-Bromophenyl phenyl ether	<0.059		0.22	0.059	mg/Kg	☼	08/17/20 06:17	08/18/20 12:40	1
Butyl benzyl phthalate	<0.084		0.22	0.084	mg/Kg	☼	08/17/20 06:17	08/18/20 12:40	1
Carbazole	<0.11		0.22	0.11	mg/Kg	☼	08/17/20 06:17	08/18/20 12:40	1
4-Chloroaniline	<0.21		0.90	0.21	mg/Kg	☼	08/17/20 06:17	08/18/20 12:40	1
4-Chloro-3-methylphenol	<0.15		0.44	0.15	mg/Kg	☼	08/17/20 06:17	08/18/20 12:40	1
2-Chloronaphthalene	<0.049		0.22	0.049	mg/Kg	☼	08/17/20 06:17	08/18/20 12:40	1
2-Chlorophenol	<0.076		0.22	0.076	mg/Kg	☼	08/17/20 06:17	08/18/20 12:40	1
4-Chlorophenyl phenyl ether	<0.052		0.22	0.052	mg/Kg	☼	08/17/20 06:17	08/18/20 12:40	1
Chrysene	0.80		0.044	0.012	mg/Kg	☼	08/17/20 06:17	08/18/20 12:40	1
Dibenz(a,h)anthracene	0.077		0.044	0.0086	mg/Kg	☼	08/17/20 06:17	08/18/20 12:40	1
Dibenzofuran	<0.052		0.22	0.052	mg/Kg	☼	08/17/20 06:17	08/18/20 12:40	1
1,2-Dichlorobenzene	<0.053		0.22	0.053	mg/Kg	☼	08/17/20 06:17	08/18/20 12:40	1
1,3-Dichlorobenzene	<0.050		0.22	0.050	mg/Kg	☼	08/17/20 06:17	08/18/20 12:40	1
1,4-Dichlorobenzene	<0.057		0.22	0.057	mg/Kg	☼	08/17/20 06:17	08/18/20 12:40	1
3,3'-Dichlorobenzidine	<0.062		0.22	0.062	mg/Kg	☼	08/17/20 06:17	08/18/20 12:40	1
2,4-Dichlorophenol	<0.11		0.44	0.11	mg/Kg	☼	08/17/20 06:17	08/18/20 12:40	1
Diethyl phthalate	<0.075		0.22	0.075	mg/Kg	☼	08/17/20 06:17	08/18/20 12:40	1
2,4-Dimethylphenol	<0.17		0.44	0.17	mg/Kg	☼	08/17/20 06:17	08/18/20 12:40	1
Dimethyl phthalate	<0.058		0.22	0.058	mg/Kg	☼	08/17/20 06:17	08/18/20 12:40	1
Di-n-butyl phthalate	<0.068		0.22	0.068	mg/Kg	☼	08/17/20 06:17	08/18/20 12:40	1
4,6-Dinitro-2-methylphenol	<0.36		0.90	0.36	mg/Kg	☼	08/17/20 06:17	08/18/20 12:40	1
2,4-Dinitrophenol	<0.78		0.90	0.78	mg/Kg	☼	08/17/20 06:17	08/18/20 12:40	1
2,4-Dinitrotoluene	<0.071		0.22	0.071	mg/Kg	☼	08/17/20 06:17	08/18/20 12:40	1
2,6-Dinitrotoluene	<0.087		0.22	0.087	mg/Kg	☼	08/17/20 06:17	08/18/20 12:40	1
Di-n-octyl phthalate	<0.072		0.22	0.072	mg/Kg	☼	08/17/20 06:17	08/18/20 12:40	1
Fluoranthene	2.1		0.044	0.0082	mg/Kg	☼	08/17/20 06:17	08/18/20 12:40	1
Fluorene	0.046		0.044	0.0062	mg/Kg	☼	08/17/20 06:17	08/18/20 12:40	1
Hexachlorobenzene	<0.010		0.090	0.010	mg/Kg	☼	08/17/20 06:17	08/18/20 12:40	1
Hexachlorobutadiene	<0.070		0.22	0.070	mg/Kg	☼	08/17/20 06:17	08/18/20 12:40	1
Hexachlorocyclopentadiene	<0.26		0.90	0.26	mg/Kg	☼	08/17/20 06:17	08/18/20 12:40	1
Hexachloroethane	<0.068		0.22	0.068	mg/Kg	☼	08/17/20 06:17	08/18/20 12:40	1
Indeno[1,2,3-cd]pyrene	0.36		0.044	0.012	mg/Kg	☼	08/17/20 06:17	08/18/20 12:40	1
Isophorone	<0.050		0.22	0.050	mg/Kg	☼	08/17/20 06:17	08/18/20 12:40	1
2-Methylnaphthalene	<0.0082		0.090	0.0082	mg/Kg	☼	08/17/20 06:17	08/18/20 12:40	1
2-Methylphenol	<0.071		0.22	0.071	mg/Kg	☼	08/17/20 06:17	08/18/20 12:40	1
3 & 4 Methylphenol	<0.074		0.22	0.074	mg/Kg	☼	08/17/20 06:17	08/18/20 12:40	1
Naphthalene	<0.0068		0.044	0.0068	mg/Kg	☼	08/17/20 06:17	08/18/20 12:40	1
2-Nitroaniline	<0.060		0.22	0.060	mg/Kg	☼	08/17/20 06:17	08/18/20 12:40	1
3-Nitroaniline	<0.14		0.44	0.14	mg/Kg	☼	08/17/20 06:17	08/18/20 12:40	1
4-Nitroaniline	<0.19		0.44	0.19	mg/Kg	☼	08/17/20 06:17	08/18/20 12:40	1
Nitrobenzene	<0.011		0.044	0.011	mg/Kg	☼	08/17/20 06:17	08/18/20 12:40	1
2-Nitrophenol	<0.10		0.44	0.10	mg/Kg	☼	08/17/20 06:17	08/18/20 12:40	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185944-1

Client Sample ID: 2412V2-20-B01 (0-1.1)

Lab Sample ID: 500-185944-1

Date Collected: 08/04/20 15:30

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 72.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.42		0.90	0.42	mg/Kg	☼	08/17/20 06:17	08/18/20 12:40	1
N-Nitrosodi-n-propylamine	<0.054		0.090	0.054	mg/Kg	☼	08/17/20 06:17	08/18/20 12:40	1
N-Nitrosodiphenylamine	<0.052		0.22	0.052	mg/Kg	☼	08/17/20 06:17	08/18/20 12:40	1
2,2'-oxybis[1-chloropropane]	<0.051		0.22	0.051	mg/Kg	☼	08/17/20 06:17	08/18/20 12:40	1
Pentachlorophenol	<0.71		0.90	0.71	mg/Kg	☼	08/17/20 06:17	08/18/20 12:40	1
Phenanthrene	0.76		0.044	0.0062	mg/Kg	☼	08/17/20 06:17	08/18/20 12:40	1
Phenol	<0.099		0.22	0.099	mg/Kg	☼	08/17/20 06:17	08/18/20 12:40	1
Pyrene	1.4		0.044	0.0088	mg/Kg	☼	08/17/20 06:17	08/18/20 12:40	1
1,2,4-Trichlorobenzene	<0.048		0.22	0.048	mg/Kg	☼	08/17/20 06:17	08/18/20 12:40	1
2,4,5-Trichlorophenol	<0.10		0.44	0.10	mg/Kg	☼	08/17/20 06:17	08/18/20 12:40	1
2,4,6-Trichlorophenol	<0.15		0.44	0.15	mg/Kg	☼	08/17/20 06:17	08/18/20 12:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	52		43 - 145	08/17/20 06:17	08/18/20 12:40	1
2-Fluorophenol	48		31 - 166	08/17/20 06:17	08/18/20 12:40	1
Nitrobenzene-d5	41		37 - 147	08/17/20 06:17	08/18/20 12:40	1
Phenol-d5	41		30 - 153	08/17/20 06:17	08/18/20 12:40	1
Terphenyl-d14	53		42 - 157	08/17/20 06:17	08/18/20 12:40	1
2,4,6-Tribromophenol	72		31 - 143	08/17/20 06:17	08/18/20 12:40	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.99	J F1	1.3	0.26	mg/Kg	☼	08/11/20 17:37	08/12/20 19:30	1
Arsenic	4.1		0.67	0.23	mg/Kg	☼	08/11/20 17:37	08/12/20 19:30	1
Barium	87		0.67	0.076	mg/Kg	☼	08/11/20 17:37	08/12/20 19:30	1
Beryllium	0.52		0.27	0.062	mg/Kg	☼	08/11/20 17:37	08/12/20 19:30	1
Cadmium	0.38	B	0.13	0.024	mg/Kg	☼	08/11/20 17:37	08/12/20 19:30	1
Chromium	28	F1	0.67	0.33	mg/Kg	☼	08/11/20 17:37	08/12/20 19:30	1
Cobalt	7.7		0.33	0.088	mg/Kg	☼	08/11/20 17:37	08/12/20 19:30	1
Copper	22	F1	0.67	0.19	mg/Kg	☼	08/11/20 17:37	08/12/20 19:30	1
Iron	12000		13	7.0	mg/Kg	☼	08/11/20 17:37	08/12/20 19:30	1
Lead	150	F2	0.33	0.15	mg/Kg	☼	08/11/20 17:37	08/12/20 19:30	1
Magnesium	26000	F2	6.7	3.3	mg/Kg	☼	08/11/20 17:37	08/12/20 19:30	1
Calcium	56000	F2	130	23	mg/Kg	☼	08/11/20 17:37	08/12/20 23:49	10
Manganese	520		0.67	0.097	mg/Kg	☼	08/11/20 17:37	08/12/20 19:30	1
Nickel	16		0.67	0.19	mg/Kg	☼	08/11/20 17:37	08/12/20 19:30	1
Selenium	0.41	J F1	0.67	0.39	mg/Kg	☼	08/11/20 17:37	08/12/20 19:30	1
Silver	<0.086		0.33	0.086	mg/Kg	☼	08/11/20 17:37	08/12/20 19:30	1
Thallium	0.46	J	0.67	0.33	mg/Kg	☼	08/11/20 17:37	08/12/20 19:30	1
Vanadium	21		0.33	0.079	mg/Kg	☼	08/11/20 17:37	08/12/20 19:30	1
Zinc	130		1.3	0.59	mg/Kg	☼	08/11/20 17:37	08/12/20 19:30	1
Potassium	1200	F1	33	12	mg/Kg	☼	08/11/20 17:37	08/12/20 19:30	1
Sodium	1300	B	67	9.9	mg/Kg	☼	08/11/20 17:37	08/12/20 19:30	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/17/20 17:21	08/18/20 02:38	1
Barium	0.60		0.50	0.050	mg/L		08/17/20 17:21	08/18/20 02:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/17/20 17:21	08/18/20 02:38	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/17/20 17:21	08/18/20 02:38	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185944-1

Client Sample ID: 2412V2-20-B01 (0-1.1)

Lab Sample ID: 500-185944-1

Date Collected: 08/04/20 15:30

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 72.9

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		08/17/20 17:21	08/18/20 02:38	1
Chromium	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:38	1
Cobalt	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:38	1
Copper	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:38	1
Iron	<0.20		0.40	0.20	mg/L		08/17/20 17:21	08/18/20 02:38	1
Lead	0.010		0.0075	0.0075	mg/L		08/17/20 17:21	08/18/20 02:38	1
Magnesium	160		2.5	0.50	mg/L		08/17/20 17:21	08/18/20 02:38	1
Manganese	0.14		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:38	1
Nickel	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:38	1
Potassium	2.0 J		2.5	0.50	mg/L		08/17/20 17:21	08/18/20 02:38	1
Selenium	<0.020		0.050	0.020	mg/L		08/17/20 17:21	08/18/20 02:38	1
Silver	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:38	1
Vanadium	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:38	1
Zinc	0.19 J		0.50	0.020	mg/L		08/17/20 17:21	08/18/20 02:38	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.28		0.0075	0.0075	mg/L		08/17/20 17:17	08/18/20 04:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		08/17/20 17:21	08/18/20 10:01	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		08/17/20 17:21	08/18/20 10:01	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/18/20 09:55	08/19/20 09:55	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.022	0.0075	mg/Kg	☼	08/11/20 14:25	08/12/20 07:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.40		0.38	0.19	mg/Kg	☼	08/14/20 12:10	08/14/20 16:16	1
pH	8.3		0.2	0.2	SU			08/06/20 21:08	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185944-1

Client Sample ID: 2412V2-20-B02 (0-1.1)

Lab Sample ID: 500-185944-2

Date Collected: 08/04/20 15:10

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 77.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.017	J	0.018	0.0078	mg/Kg	☼	08/05/20 08:30	08/13/20 15:29	1
Benzene	<0.00046		0.0018	0.00046	mg/Kg	☼	08/05/20 08:30	08/13/20 15:29	1
Bromodichloromethane	<0.00037		0.0018	0.00037	mg/Kg	☼	08/05/20 08:30	08/13/20 15:29	1
Bromoform	<0.00053		0.0018	0.00053	mg/Kg	☼	08/05/20 08:30	08/13/20 15:29	1
Bromomethane	<0.0017		0.0045	0.0017	mg/Kg	☼	08/05/20 08:30	08/13/20 15:29	1
2-Butanone (MEK)	0.0028	J	0.0045	0.0020	mg/Kg	☼	08/05/20 08:30	08/13/20 15:29	1
Carbon disulfide	<0.00094		0.0045	0.00094	mg/Kg	☼	08/05/20 08:30	08/13/20 15:29	1
Carbon tetrachloride	<0.00052		0.0018	0.00052	mg/Kg	☼	08/05/20 08:30	08/13/20 15:29	1
Chlorobenzene	<0.00066		0.0018	0.00066	mg/Kg	☼	08/05/20 08:30	08/13/20 15:29	1
Chloroethane	<0.0013	*	0.0045	0.0013	mg/Kg	☼	08/05/20 08:30	08/13/20 15:29	1
Chloroform	<0.00063		0.0018	0.00063	mg/Kg	☼	08/05/20 08:30	08/13/20 15:29	1
Chloromethane	<0.0018		0.0045	0.0018	mg/Kg	☼	08/05/20 08:30	08/13/20 15:29	1
cis-1,2-Dichloroethene	<0.00050		0.0018	0.00050	mg/Kg	☼	08/05/20 08:30	08/13/20 15:29	1
cis-1,3-Dichloropropene	<0.00054		0.0018	0.00054	mg/Kg	☼	08/05/20 08:30	08/13/20 15:29	1
Dibromochloromethane	<0.00059		0.0018	0.00059	mg/Kg	☼	08/05/20 08:30	08/13/20 15:29	1
1,1-Dichloroethane	<0.00062		0.0018	0.00062	mg/Kg	☼	08/05/20 08:30	08/13/20 15:29	1
1,2-Dichloroethane	<0.0014		0.0045	0.0014	mg/Kg	☼	08/05/20 08:30	08/13/20 15:29	1
1,1-Dichloroethene	<0.00062		0.0018	0.00062	mg/Kg	☼	08/05/20 08:30	08/13/20 15:29	1
1,2-Dichloropropane	<0.00047		0.0018	0.00047	mg/Kg	☼	08/05/20 08:30	08/13/20 15:29	1
1,3-Dichloropropane, Total	<0.00063		0.0018	0.00063	mg/Kg	☼	08/05/20 08:30	08/13/20 15:29	1
Ethylbenzene	<0.00086		0.0018	0.00086	mg/Kg	☼	08/05/20 08:30	08/13/20 15:29	1
2-Hexanone	<0.0014		0.0045	0.0014	mg/Kg	☼	08/05/20 08:30	08/13/20 15:29	1
Methylene Chloride	<0.0018		0.0045	0.0018	mg/Kg	☼	08/05/20 08:30	08/13/20 15:29	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0045	0.0013	mg/Kg	☼	08/05/20 08:30	08/13/20 15:29	1
Methyl tert-butyl ether	<0.00053		0.0018	0.00053	mg/Kg	☼	08/05/20 08:30	08/13/20 15:29	1
Styrene	<0.00054		0.0018	0.00054	mg/Kg	☼	08/05/20 08:30	08/13/20 15:29	1
1,1,2,2-Tetrachloroethane	<0.00058		0.0018	0.00058	mg/Kg	☼	08/05/20 08:30	08/13/20 15:29	1
Tetrachloroethene	<0.00061		0.0018	0.00061	mg/Kg	☼	08/05/20 08:30	08/13/20 15:29	1
Toluene	<0.00046		0.0018	0.00046	mg/Kg	☼	08/05/20 08:30	08/13/20 15:29	1
trans-1,2-Dichloroethene	<0.00080		0.0018	0.00080	mg/Kg	☼	08/05/20 08:30	08/13/20 15:29	1
trans-1,3-Dichloropropene	<0.00063		0.0018	0.00063	mg/Kg	☼	08/05/20 08:30	08/13/20 15:29	1
1,1,1-Trichloroethane	<0.00060		0.0018	0.00060	mg/Kg	☼	08/05/20 08:30	08/13/20 15:29	1
1,1,2-Trichloroethane	<0.00077		0.0018	0.00077	mg/Kg	☼	08/05/20 08:30	08/13/20 15:29	1
Trichloroethene	<0.00061		0.0018	0.00061	mg/Kg	☼	08/05/20 08:30	08/13/20 15:29	1
Vinyl acetate	<0.0016		0.0045	0.0016	mg/Kg	☼	08/05/20 08:30	08/13/20 15:29	1
Vinyl chloride	<0.00080		0.0018	0.00080	mg/Kg	☼	08/05/20 08:30	08/13/20 15:29	1
Xylenes, Total	<0.00058		0.0036	0.00058	mg/Kg	☼	08/05/20 08:30	08/13/20 15:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		75 - 131	08/05/20 08:30	08/13/20 15:29	1
Dibromofluoromethane	101		75 - 126	08/05/20 08:30	08/13/20 15:29	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	08/05/20 08:30	08/13/20 15:29	1
Toluene-d8 (Surr)	93		75 - 124	08/05/20 08:30	08/13/20 15:29	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	0.0073	mg/Kg	☼	08/17/20 06:17	08/18/20 14:01	1
Acenaphthylene	<0.0054		0.041	0.0054	mg/Kg	☼	08/17/20 06:17	08/18/20 14:01	1
Anthracene	0.057		0.041	0.0068	mg/Kg	☼	08/17/20 06:17	08/18/20 14:01	1
Benzo[a]anthracene	0.42		0.041	0.0055	mg/Kg	☼	08/17/20 06:17	08/18/20 14:01	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185944-1

Client Sample ID: 2412V2-20-B02 (0-1.1)

Lab Sample ID: 500-185944-2

Date Collected: 08/04/20 15:10

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 77.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.47		0.041	0.0079	mg/Kg	☼	08/17/20 06:17	08/18/20 14:01	1
Benzo[b]fluoranthene	0.80		0.041	0.0088	mg/Kg	☼	08/17/20 06:17	08/18/20 14:01	1
Benzo[g,h,i]perylene	0.19		0.041	0.013	mg/Kg	☼	08/17/20 06:17	08/18/20 14:01	1
Benzo[k]fluoranthene	0.31		0.041	0.012	mg/Kg	☼	08/17/20 06:17	08/18/20 14:01	1
Bis(2-chloroethoxy)methane	<0.042		0.21	0.042	mg/Kg	☼	08/17/20 06:17	08/18/20 14:01	1
Bis(2-chloroethyl)ether	<0.061		0.21	0.061	mg/Kg	☼	08/17/20 06:17	08/18/20 14:01	1
Bis(2-ethylhexyl) phthalate	<0.075		0.21	0.075	mg/Kg	☼	08/17/20 06:17	08/18/20 14:01	1
4-Bromophenyl phenyl ether	<0.054		0.21	0.054	mg/Kg	☼	08/17/20 06:17	08/18/20 14:01	1
Butyl benzyl phthalate	<0.078		0.21	0.078	mg/Kg	☼	08/17/20 06:17	08/18/20 14:01	1
Carbazole	<0.10		0.21	0.10	mg/Kg	☼	08/17/20 06:17	08/18/20 14:01	1
4-Chloroaniline	<0.19		0.82	0.19	mg/Kg	☼	08/17/20 06:17	08/18/20 14:01	1
4-Chloro-3-methylphenol	<0.14		0.41	0.14	mg/Kg	☼	08/17/20 06:17	08/18/20 14:01	1
2-Chloronaphthalene	<0.045		0.21	0.045	mg/Kg	☼	08/17/20 06:17	08/18/20 14:01	1
2-Chlorophenol	<0.070		0.21	0.070	mg/Kg	☼	08/17/20 06:17	08/18/20 14:01	1
4-Chlorophenyl phenyl ether	<0.048		0.21	0.048	mg/Kg	☼	08/17/20 06:17	08/18/20 14:01	1
Chrysene	0.46		0.041	0.011	mg/Kg	☼	08/17/20 06:17	08/18/20 14:01	1
Dibenz(a,h)anthracene	<0.0079		0.041	0.0079	mg/Kg	☼	08/17/20 06:17	08/18/20 14:01	1
Dibenzofuran	<0.048		0.21	0.048	mg/Kg	☼	08/17/20 06:17	08/18/20 14:01	1
1,2-Dichlorobenzene	<0.049		0.21	0.049	mg/Kg	☼	08/17/20 06:17	08/18/20 14:01	1
1,3-Dichlorobenzene	<0.046		0.21	0.046	mg/Kg	☼	08/17/20 06:17	08/18/20 14:01	1
1,4-Dichlorobenzene	<0.052		0.21	0.052	mg/Kg	☼	08/17/20 06:17	08/18/20 14:01	1
3,3'-Dichlorobenzidine	<0.057		0.21	0.057	mg/Kg	☼	08/17/20 06:17	08/18/20 14:01	1
2,4-Dichlorophenol	<0.097		0.41	0.097	mg/Kg	☼	08/17/20 06:17	08/18/20 14:01	1
Diethyl phthalate	<0.069		0.21	0.069	mg/Kg	☼	08/17/20 06:17	08/18/20 14:01	1
2,4-Dimethylphenol	<0.15		0.41	0.15	mg/Kg	☼	08/17/20 06:17	08/18/20 14:01	1
Dimethyl phthalate	<0.053		0.21	0.053	mg/Kg	☼	08/17/20 06:17	08/18/20 14:01	1
Di-n-butyl phthalate	<0.062		0.21	0.062	mg/Kg	☼	08/17/20 06:17	08/18/20 14:01	1
4,6-Dinitro-2-methylphenol	<0.33		0.82	0.33	mg/Kg	☼	08/17/20 06:17	08/18/20 14:01	1
2,4-Dinitrophenol	<0.72		0.82	0.72	mg/Kg	☼	08/17/20 06:17	08/18/20 14:01	1
2,4-Dinitrotoluene	<0.065		0.21	0.065	mg/Kg	☼	08/17/20 06:17	08/18/20 14:01	1
2,6-Dinitrotoluene	<0.080		0.21	0.080	mg/Kg	☼	08/17/20 06:17	08/18/20 14:01	1
Di-n-octyl phthalate	<0.067		0.21	0.067	mg/Kg	☼	08/17/20 06:17	08/18/20 14:01	1
Fluoranthene	1.2		0.041	0.0076	mg/Kg	☼	08/17/20 06:17	08/18/20 14:01	1
Fluorene	<0.0057		0.041	0.0057	mg/Kg	☼	08/17/20 06:17	08/18/20 14:01	1
Hexachlorobenzene	<0.0095		0.082	0.0095	mg/Kg	☼	08/17/20 06:17	08/18/20 14:01	1
Hexachlorobutadiene	<0.064		0.21	0.064	mg/Kg	☼	08/17/20 06:17	08/18/20 14:01	1
Hexachlorocyclopentadiene	<0.23		0.82	0.23	mg/Kg	☼	08/17/20 06:17	08/18/20 14:01	1
Hexachloroethane	<0.062		0.21	0.062	mg/Kg	☼	08/17/20 06:17	08/18/20 14:01	1
Indeno[1,2,3-cd]pyrene	0.16		0.041	0.011	mg/Kg	☼	08/17/20 06:17	08/18/20 14:01	1
Isophorone	<0.046		0.21	0.046	mg/Kg	☼	08/17/20 06:17	08/18/20 14:01	1
2-Methylnaphthalene	0.0078 J		0.082	0.0075	mg/Kg	☼	08/17/20 06:17	08/18/20 14:01	1
2-Methylphenol	<0.066		0.21	0.066	mg/Kg	☼	08/17/20 06:17	08/18/20 14:01	1
3 & 4 Methylphenol	<0.068		0.21	0.068	mg/Kg	☼	08/17/20 06:17	08/18/20 14:01	1
Naphthalene	<0.0063		0.041	0.0063	mg/Kg	☼	08/17/20 06:17	08/18/20 14:01	1
2-Nitroaniline	<0.055		0.21	0.055	mg/Kg	☼	08/17/20 06:17	08/18/20 14:01	1
3-Nitroaniline	<0.13		0.41	0.13	mg/Kg	☼	08/17/20 06:17	08/18/20 14:01	1
4-Nitroaniline	<0.17		0.41	0.17	mg/Kg	☼	08/17/20 06:17	08/18/20 14:01	1
Nitrobenzene	<0.010		0.041	0.010	mg/Kg	☼	08/17/20 06:17	08/18/20 14:01	1
2-Nitrophenol	<0.096		0.41	0.096	mg/Kg	☼	08/17/20 06:17	08/18/20 14:01	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185944-1

Client Sample ID: 2412V2-20-B02 (0-1.1)

Lab Sample ID: 500-185944-2

Date Collected: 08/04/20 15:10

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 77.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.39		0.82	0.39	mg/Kg	☼	08/17/20 06:17	08/18/20 14:01	1
N-Nitrosodi-n-propylamine	<0.050		0.082	0.050	mg/Kg	☼	08/17/20 06:17	08/18/20 14:01	1
N-Nitrosodiphenylamine	<0.048		0.21	0.048	mg/Kg	☼	08/17/20 06:17	08/18/20 14:01	1
2,2'-oxybis[1-chloropropane]	<0.047		0.21	0.047	mg/Kg	☼	08/17/20 06:17	08/18/20 14:01	1
Pentachlorophenol	<0.66		0.82	0.66	mg/Kg	☼	08/17/20 06:17	08/18/20 14:01	1
Phenanthrene	0.41		0.041	0.0057	mg/Kg	☼	08/17/20 06:17	08/18/20 14:01	1
Phenol	<0.091		0.21	0.091	mg/Kg	☼	08/17/20 06:17	08/18/20 14:01	1
Pyrene	1.1		0.041	0.0081	mg/Kg	☼	08/17/20 06:17	08/18/20 14:01	1
1,2,4-Trichlorobenzene	<0.044		0.21	0.044	mg/Kg	☼	08/17/20 06:17	08/18/20 14:01	1
2,4,5-Trichlorophenol	<0.093		0.41	0.093	mg/Kg	☼	08/17/20 06:17	08/18/20 14:01	1
2,4,6-Trichlorophenol	<0.14		0.41	0.14	mg/Kg	☼	08/17/20 06:17	08/18/20 14:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	88		43 - 145	08/17/20 06:17	08/18/20 14:01	1
2-Fluorophenol	94		31 - 166	08/17/20 06:17	08/18/20 14:01	1
Nitrobenzene-d5	70		37 - 147	08/17/20 06:17	08/18/20 14:01	1
Phenol-d5	77		30 - 153	08/17/20 06:17	08/18/20 14:01	1
Terphenyl-d14	133		42 - 157	08/17/20 06:17	08/18/20 14:01	1
2,4,6-Tribromophenol	110		31 - 143	08/17/20 06:17	08/18/20 14:01	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.44	J	1.3	0.25	mg/Kg	☼	08/11/20 17:37	08/12/20 19:50	1
Arsenic	5.6		0.64	0.22	mg/Kg	☼	08/11/20 17:37	08/12/20 19:50	1
Barium	110		0.64	0.073	mg/Kg	☼	08/11/20 17:37	08/12/20 19:50	1
Beryllium	0.65		0.26	0.060	mg/Kg	☼	08/11/20 17:37	08/12/20 19:50	1
Cadmium	0.30	B	0.13	0.023	mg/Kg	☼	08/11/20 17:37	08/12/20 19:50	1
Chromium	16		0.64	0.32	mg/Kg	☼	08/11/20 17:37	08/12/20 19:50	1
Cobalt	8.3		0.32	0.084	mg/Kg	☼	08/11/20 17:37	08/12/20 19:50	1
Copper	16		0.64	0.18	mg/Kg	☼	08/11/20 17:37	08/12/20 19:50	1
Iron	16000		13	6.6	mg/Kg	☼	08/11/20 17:37	08/12/20 19:50	1
Lead	99		0.32	0.15	mg/Kg	☼	08/11/20 17:37	08/12/20 19:50	1
Magnesium	11000		6.4	3.2	mg/Kg	☼	08/11/20 17:37	08/12/20 19:50	1
Calcium	17000	B	13	2.2	mg/Kg	☼	08/11/20 17:37	08/12/20 19:50	1
Manganese	540		0.64	0.093	mg/Kg	☼	08/11/20 17:37	08/12/20 19:50	1
Nickel	19		0.64	0.19	mg/Kg	☼	08/11/20 17:37	08/12/20 19:50	1
Selenium	<0.38		0.64	0.38	mg/Kg	☼	08/11/20 17:37	08/12/20 19:50	1
Silver	<0.082		0.32	0.082	mg/Kg	☼	08/11/20 17:37	08/12/20 19:50	1
Thallium	<0.32		0.64	0.32	mg/Kg	☼	08/11/20 17:37	08/12/20 19:50	1
Vanadium	26		0.32	0.075	mg/Kg	☼	08/11/20 17:37	08/12/20 19:50	1
Zinc	110		1.3	0.56	mg/Kg	☼	08/11/20 17:37	08/12/20 19:50	1
Potassium	1600		32	11	mg/Kg	☼	08/11/20 17:37	08/12/20 19:50	1
Sodium	1200	B	64	9.5	mg/Kg	☼	08/11/20 17:37	08/12/20 19:50	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/17/20 17:21	08/18/20 02:42	1
Barium	1.1		0.50	0.050	mg/L		08/17/20 17:21	08/18/20 02:42	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/17/20 17:21	08/18/20 02:42	1
Cadmium	0.0030	J	0.0050	0.0020	mg/L		08/17/20 17:21	08/18/20 02:42	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185944-1

Client Sample ID: 2412V2-20-B02 (0-1.1)

Lab Sample ID: 500-185944-2

Date Collected: 08/04/20 15:10

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 77.6

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		08/17/20 17:21	08/18/20 02:42	1
Chromium	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:42	1
Cobalt	0.042		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:42	1
Copper	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:42	1
Iron	<0.20		0.40	0.20	mg/L		08/17/20 17:21	08/18/20 02:42	1
Lead	0.028		0.0075	0.0075	mg/L		08/17/20 17:21	08/18/20 02:42	1
Magnesium	100		2.5	0.50	mg/L		08/17/20 17:21	08/18/20 02:42	1
Manganese	10		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:42	1
Nickel	0.037		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:42	1
Potassium	4.8		2.5	0.50	mg/L		08/17/20 17:21	08/18/20 02:42	1
Selenium	<0.020		0.050	0.020	mg/L		08/17/20 17:21	08/18/20 02:42	1
Silver	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:42	1
Vanadium	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 02:42	1
Zinc	0.36	J	0.50	0.020	mg/L		08/17/20 17:21	08/18/20 02:42	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.54		0.0075	0.0075	mg/L		08/17/20 17:17	08/18/20 04:54	1
Manganese	2.1		0.025	0.010	mg/L		08/17/20 17:17	08/18/20 04:54	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		08/17/20 17:21	08/18/20 10:07	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		08/17/20 17:21	08/18/20 10:07	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		08/18/20 09:55	08/19/20 09:57	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.019	0.0065	mg/Kg	☼	08/11/20 14:25	08/12/20 08:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.23	J	0.26	0.13	mg/Kg	☼	08/14/20 12:10	08/14/20 16:18	1
pH	8.4		0.2	0.2	SU			08/06/20 21:10	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185944-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC 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.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control 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.
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
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
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185944-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185944-1

GC/MS VOA

Analysis Batch: 556601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185944-1	2412V2-20-B01 (0-1.1)	Total/NA	Solid	8260B	556637
500-185944-2	2412V2-20-B02 (0-1.1)	Total/NA	Solid	8260B	556637
MB 500-556601/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-556601/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-556601/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

Prep Batch: 556637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185944-1	2412V2-20-B01 (0-1.1)	Total/NA	Solid	5035	
500-185944-2	2412V2-20-B02 (0-1.1)	Total/NA	Solid	5035	

GC/MS Semi VOA

Prep Batch: 557088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185944-1	2412V2-20-B01 (0-1.1)	Total/NA	Solid	3541	
500-185944-2	2412V2-20-B02 (0-1.1)	Total/NA	Solid	3541	
MB 500-557088/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-557088/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 557246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-557088/1-A	Method Blank	Total/NA	Solid	8270D	557088
LCS 500-557088/2-A	Lab Control Sample	Total/NA	Solid	8270D	557088

Analysis Batch: 557370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185944-1	2412V2-20-B01 (0-1.1)	Total/NA	Solid	8270D	557088
500-185944-2	2412V2-20-B02 (0-1.1)	Total/NA	Solid	8270D	557088

Metals

Prep Batch: 556263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185944-1	2412V2-20-B01 (0-1.1)	Total/NA	Solid	7471B	
500-185944-2	2412V2-20-B02 (0-1.1)	Total/NA	Solid	7471B	
MB 500-556263/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-556263/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Prep Batch: 556318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185944-1	2412V2-20-B01 (0-1.1)	Total/NA	Solid	3050B	
500-185944-2	2412V2-20-B02 (0-1.1)	Total/NA	Solid	3050B	
MB 500-556318/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-556318/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-185944-1 MS	2412V2-20-B01 (0-1.1)	Total/NA	Solid	3050B	
500-185944-1 MSD	2412V2-20-B01 (0-1.1)	Total/NA	Solid	3050B	
500-185944-1 DU	2412V2-20-B01 (0-1.1)	Total/NA	Solid	3050B	

Analysis Batch: 556451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185944-1	2412V2-20-B01 (0-1.1)	Total/NA	Solid	7471B	556263

Eurofins TestAmerica, Chicago

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185944-1

Metals (Continued)

Analysis Batch: 556451 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185944-2	2412V2-20-B02 (0-1.1)	Total/NA	Solid	7471B	556263
MB 500-556263/12-A	Method Blank	Total/NA	Solid	7471B	556263
LCS 500-556263/13-A	Lab Control Sample	Total/NA	Solid	7471B	556263

Analysis Batch: 556556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185944-1	2412V2-20-B01 (0-1.1)	Total/NA	Solid	6010B	556318
500-185944-2	2412V2-20-B02 (0-1.1)	Total/NA	Solid	6010B	556318
MB 500-556318/1-A	Method Blank	Total/NA	Solid	6010B	556318
LCS 500-556318/2-A	Lab Control Sample	Total/NA	Solid	6010B	556318
500-185944-1 MS	2412V2-20-B01 (0-1.1)	Total/NA	Solid	6010B	556318
500-185944-1 MSD	2412V2-20-B01 (0-1.1)	Total/NA	Solid	6010B	556318
500-185944-1 DU	2412V2-20-B01 (0-1.1)	Total/NA	Solid	6010B	556318

Analysis Batch: 556571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185944-1	2412V2-20-B01 (0-1.1)	Total/NA	Solid	6010B	556318
MB 500-556318/1-A	Method Blank	Total/NA	Solid	6010B	556318
LCS 500-556318/2-A	Lab Control Sample	Total/NA	Solid	6010B	556318
500-185944-1 MS	2412V2-20-B01 (0-1.1)	Total/NA	Solid	6010B	556318
500-185944-1 MSD	2412V2-20-B01 (0-1.1)	Total/NA	Solid	6010B	556318
500-185944-1 DU	2412V2-20-B01 (0-1.1)	Total/NA	Solid	6010B	556318

Leach Batch: 556907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185944-1	2412V2-20-B01 (0-1.1)	SPLP East	Solid	1312	
500-185944-2	2412V2-20-B02 (0-1.1)	SPLP East	Solid	1312	
LB 500-556907/1-B	Method Blank	SPLP East	Solid	1312	
500-185944-2 MS	2412V2-20-B02 (0-1.1)	SPLP East	Solid	1312	
500-185944-2 DU	2412V2-20-B02 (0-1.1)	SPLP East	Solid	1312	

Leach Batch: 556919

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185944-1	2412V2-20-B01 (0-1.1)	TCLP	Solid	1311	
500-185944-2	2412V2-20-B02 (0-1.1)	TCLP	Solid	1311	
LB 500-556919/1-B	Method Blank	TCLP	Solid	1311	
LB 500-556919/1-C	Method Blank	TCLP	Solid	1311	
500-185944-2 MS	2412V2-20-B02 (0-1.1)	TCLP	Solid	1311	
500-185944-2 DU	2412V2-20-B02 (0-1.1)	TCLP	Solid	1311	

Prep Batch: 557242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185944-1	2412V2-20-B01 (0-1.1)	SPLP East	Solid	3010A	556907
500-185944-2	2412V2-20-B02 (0-1.1)	SPLP East	Solid	3010A	556907
LB 500-556907/1-B	Method Blank	SPLP East	Solid	3010A	556907
LCS 500-557242/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-185944-2 MS	2412V2-20-B02 (0-1.1)	SPLP East	Solid	3010A	556907
500-185944-2 DU	2412V2-20-B02 (0-1.1)	SPLP East	Solid	3010A	556907

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185944-1

Metals

Prep Batch: 557245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185944-1	2412V2-20-B01 (0-1.1)	TCLP	Solid	3010A	556919
500-185944-2	2412V2-20-B02 (0-1.1)	TCLP	Solid	3010A	556919
LB 500-556919/1-B	Method Blank	TCLP	Solid	3010A	556919
LCS 500-557245/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-185944-2 MS	2412V2-20-B02 (0-1.1)	TCLP	Solid	3010A	556919
500-185944-2 DU	2412V2-20-B02 (0-1.1)	TCLP	Solid	3010A	556919

Analysis Batch: 557308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185944-1	2412V2-20-B01 (0-1.1)	SPLP East	Solid	6010B	557242
500-185944-2	2412V2-20-B02 (0-1.1)	SPLP East	Solid	6010B	557242
LB 500-556907/1-B	Method Blank	SPLP East	Solid	6010B	557242
LCS 500-557242/2-A	Lab Control Sample	Total/NA	Solid	6010B	557242
500-185944-2 MS	2412V2-20-B02 (0-1.1)	SPLP East	Solid	6010B	557242
500-185944-2 DU	2412V2-20-B02 (0-1.1)	SPLP East	Solid	6010B	557242

Analysis Batch: 557360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185944-1	2412V2-20-B01 (0-1.1)	TCLP	Solid	6010B	557245
500-185944-2	2412V2-20-B02 (0-1.1)	TCLP	Solid	6010B	557245
LB 500-556919/1-B	Method Blank	TCLP	Solid	6010B	557245
LCS 500-557245/2-A	Lab Control Sample	Total/NA	Solid	6010B	557245
500-185944-2 MS	2412V2-20-B02 (0-1.1)	TCLP	Solid	6010B	557245
500-185944-2 DU	2412V2-20-B02 (0-1.1)	TCLP	Solid	6010B	557245

Prep Batch: 557385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185944-1	2412V2-20-B01 (0-1.1)	TCLP	Solid	7470A	556919
500-185944-2	2412V2-20-B02 (0-1.1)	TCLP	Solid	7470A	556919
LB 500-556919/1-C	Method Blank	TCLP	Solid	7470A	556919
MB 500-557385/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-557385/14-A	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 557398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185944-1	2412V2-20-B01 (0-1.1)	TCLP	Solid	6020A	557245
500-185944-2	2412V2-20-B02 (0-1.1)	TCLP	Solid	6020A	557245
LB 500-556919/1-B	Method Blank	TCLP	Solid	6020A	557245
LCS 500-557245/2-A	Lab Control Sample	Total/NA	Solid	6020A	557245
500-185944-2 MS	2412V2-20-B02 (0-1.1)	TCLP	Solid	6020A	557245
500-185944-2 DU	2412V2-20-B02 (0-1.1)	TCLP	Solid	6020A	557245

Analysis Batch: 557609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185944-1	2412V2-20-B01 (0-1.1)	TCLP	Solid	7470A	557385
500-185944-2	2412V2-20-B02 (0-1.1)	TCLP	Solid	7470A	557385
LB 500-556919/1-C	Method Blank	TCLP	Solid	7470A	557385
MB 500-557385/12-A	Method Blank	Total/NA	Solid	7470A	557385
LCS 500-557385/14-A	Lab Control Sample	Total/NA	Solid	7470A	557385

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185944-1

General Chemistry

Analysis Batch: 555791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185944-1	2412V2-20-B01 (0-1.1)	Total/NA	Solid	Moisture	
500-185944-2	2412V2-20-B02 (0-1.1)	Total/NA	Solid	Moisture	

Analysis Batch: 555814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185944-1	2412V2-20-B01 (0-1.1)	Total/NA	Solid	9045D	
500-185944-2	2412V2-20-B02 (0-1.1)	Total/NA	Solid	9045D	
LCS 500-555814/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-555814/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Analysis Batch: 556437

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-556437/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-556437/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Prep Batch: 556842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185944-1	2412V2-20-B01 (0-1.1)	Total/NA	Solid	9010C	
500-185944-2	2412V2-20-B02 (0-1.1)	Total/NA	Solid	9010C	
MB 500-556842/1-A	Method Blank	Total/NA	Solid	9010C	
HLCS 500-556842/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 500-556842/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 500-556842/4-A	Lab Control Sample	Total/NA	Solid	9010C	

Analysis Batch: 557133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185944-1	2412V2-20-B01 (0-1.1)	Total/NA	Solid	9012B	556842
500-185944-2	2412V2-20-B02 (0-1.1)	Total/NA	Solid	9012B	556842
MB 500-556842/1-A	Method Blank	Total/NA	Solid	9012B	556842
HLCS 500-556842/2-A	Lab Control Sample	Total/NA	Solid	9012B	556842
LCS 500-556842/3-A	Lab Control Sample	Total/NA	Solid	9012B	556842
LLCS 500-556842/4-A	Lab Control Sample	Total/NA	Solid	9012B	556842

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185944-1

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 (75-131)	DBFM (75-126)	DCA (70-134)	TOL (75-124)
500-185944-1	2412V2-20-B01 (0-1.1)	100	102	104	93
500-185944-2	2412V2-20-B02 (0-1.1)	99	101	102	93
LCS 500-556601/4	Lab Control Sample	88	96	91	95
LCS 500-556601/5	Lab Control Sample Dup	89	95	93	96
MB 500-556601/7	Method Blank	95	97	97	93

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 (43-145)	2FP (31-166)	NBZ (37-147)	PHL (30-153)	TPHL (42-157)	TBP (31-143)
500-185944-1	2412V2-20-B01 (0-1.1)	52	48	41	41	53	72
500-185944-2	2412V2-20-B02 (0-1.1)	88	94	70	77	133	110
LCS 500-557088/2-A	Lab Control Sample	98	105	107	92	114	103
MB 500-557088/1-A	Method Blank	91	102	102	88	117	94

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 - Hampshire - WO 074

Job ID: 500-185944-1

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

Lab Sample ID: MB 500-556601/7
Matrix: Solid
Analysis Batch: 556601

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.0087		0.020	0.0087	mg/Kg			08/13/20 10:22	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg			08/13/20 10:22	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg			08/13/20 10:22	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg			08/13/20 10:22	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg			08/13/20 10:22	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			08/13/20 10:22	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg			08/13/20 10:22	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg			08/13/20 10:22	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg			08/13/20 10:22	1
Chloroethane	<0.0015		0.0050	0.0015	mg/Kg			08/13/20 10:22	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg			08/13/20 10:22	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg			08/13/20 10:22	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg			08/13/20 10:22	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg			08/13/20 10:22	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg			08/13/20 10:22	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg			08/13/20 10:22	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg			08/13/20 10:22	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg			08/13/20 10:22	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			08/13/20 10:22	1
1,3-Dichloropropene, Total	<0.00070		0.0020	0.00070	mg/Kg			08/13/20 10:22	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg			08/13/20 10:22	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg			08/13/20 10:22	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg			08/13/20 10:22	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg			08/13/20 10:22	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg			08/13/20 10:22	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg			08/13/20 10:22	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg			08/13/20 10:22	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg			08/13/20 10:22	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg			08/13/20 10:22	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg			08/13/20 10:22	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg			08/13/20 10:22	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg			08/13/20 10:22	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg			08/13/20 10:22	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg			08/13/20 10:22	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg			08/13/20 10:22	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg			08/13/20 10:22	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg			08/13/20 10:22	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	95		75 - 131		08/13/20 10:22	1
Dibromofluoromethane	97		75 - 126		08/13/20 10:22	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134		08/13/20 10:22	1
Toluene-d8 (Surr)	93		75 - 124		08/13/20 10:22	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185944-1

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

Lab Sample ID: LCS 500-556601/4

Matrix: Solid

Analysis Batch: 556601

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	0.0390		mg/Kg		78	40 - 150
Benzene	0.0500	0.0457		mg/Kg		91	70 - 125
Bromodichloromethane	0.0500	0.0474		mg/Kg		95	67 - 129
Bromoform	0.0500	0.0485		mg/Kg		97	68 - 136
Bromomethane	0.0500	0.0498		mg/Kg		100	70 - 130
2-Butanone (MEK)	0.0500	0.0326		mg/Kg		65	47 - 138
Carbon disulfide	0.0500	0.0458		mg/Kg		92	70 - 129
Carbon tetrachloride	0.0500	0.0519		mg/Kg		104	75 - 125
Chlorobenzene	0.0500	0.0480		mg/Kg		96	50 - 150
Chloroethane	0.0500	0.0363	*	mg/Kg		73	75 - 125
Chloroform	0.0500	0.0475		mg/Kg		95	57 - 135
Chloromethane	0.0500	0.0362		mg/Kg		72	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0475		mg/Kg		95	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0460		mg/Kg		92	70 - 125
Dibromochloromethane	0.0500	0.0498		mg/Kg		100	69 - 125
1,1-Dichloroethane	0.0500	0.0434		mg/Kg		87	70 - 125
1,2-Dichloroethane	0.0500	0.0449		mg/Kg		90	70 - 130
1,1-Dichloroethene	0.0500	0.0481		mg/Kg		96	70 - 120
1,2-Dichloropropane	0.0500	0.0412		mg/Kg		82	70 - 125
Ethylbenzene	0.0500	0.0493		mg/Kg		99	61 - 136
2-Hexanone	0.0500	0.0333		mg/Kg		67	48 - 146
Methylene Chloride	0.0500	0.0456		mg/Kg		91	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0338		mg/Kg		68	50 - 148
Methyl tert-butyl ether	0.0500	0.0473		mg/Kg		95	50 - 140
Styrene	0.0500	0.0495		mg/Kg		99	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0412		mg/Kg		82	70 - 122
Tetrachloroethene	0.0500	0.0520		mg/Kg		104	70 - 124
Toluene	0.0500	0.0464		mg/Kg		93	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0499		mg/Kg		100	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0465		mg/Kg		93	70 - 125
1,1,1-Trichloroethane	0.0500	0.0515		mg/Kg		103	70 - 128
1,1,2-Trichloroethane	0.0500	0.0455		mg/Kg		91	70 - 125
Trichloroethene	0.0500	0.0509		mg/Kg		102	70 - 125
Vinyl acetate	0.0500	0.0396		mg/Kg		79	40 - 153
Vinyl chloride	0.0500	0.0424		mg/Kg		85	70 - 125
Xylenes, Total	0.100	0.0981		mg/Kg		98	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	88		75 - 131
Dibromofluoromethane	96		75 - 126
1,2-Dichloroethane-d4 (Surr)	91		70 - 134
Toluene-d8 (Surr)	95		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185944-1

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

Lab Sample ID: LCSD 500-556601/5
Matrix: Solid
Analysis Batch: 556601

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	0.0399		mg/Kg		80	40 - 150	2	30
Benzene	0.0500	0.0439		mg/Kg		88	70 - 125	4	30
Bromodichloromethane	0.0500	0.0461		mg/Kg		92	67 - 129	3	30
Bromoform	0.0500	0.0475		mg/Kg		95	68 - 136	2	30
Bromomethane	0.0500	0.0489		mg/Kg		98	70 - 130	2	30
2-Butanone (MEK)	0.0500	0.0361		mg/Kg		72	47 - 138	10	30
Carbon disulfide	0.0500	0.0432		mg/Kg		86	70 - 129	6	30
Carbon tetrachloride	0.0500	0.0485		mg/Kg		97	75 - 125	7	30
Chlorobenzene	0.0500	0.0460		mg/Kg		92	50 - 150	4	30
Chloroethane	0.0500	0.0419		mg/Kg		84	75 - 125	14	30
Chloroform	0.0500	0.0453		mg/Kg		91	57 - 135	5	30
Chloromethane	0.0500	0.0361		mg/Kg		72	70 - 125	0	30
cis-1,2-Dichloroethene	0.0500	0.0447		mg/Kg		89	70 - 125	6	30
cis-1,3-Dichloropropene	0.0500	0.0458		mg/Kg		92	70 - 125	0	30
Dibromochloromethane	0.0500	0.0493		mg/Kg		99	69 - 125	1	30
1,1-Dichloroethane	0.0500	0.0408		mg/Kg		82	70 - 125	6	30
1,2-Dichloroethane	0.0500	0.0438		mg/Kg		88	70 - 130	2	30
1,1-Dichloroethene	0.0500	0.0446		mg/Kg		89	70 - 120	8	30
1,2-Dichloropropane	0.0500	0.0402		mg/Kg		80	70 - 125	3	30
Ethylbenzene	0.0500	0.0473		mg/Kg		95	61 - 136	4	30
2-Hexanone	0.0500	0.0351		mg/Kg		70	48 - 146	5	30
Methylene Chloride	0.0500	0.0421		mg/Kg		84	70 - 126	8	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0358		mg/Kg		72	50 - 148	6	30
Methyl tert-butyl ether	0.0500	0.0450		mg/Kg		90	50 - 140	5	30
Styrene	0.0500	0.0473		mg/Kg		95	70 - 125	4	30
1,1,1,2-Tetrachloroethane	0.0500	0.0416		mg/Kg		83	70 - 122	1	30
Tetrachloroethene	0.0500	0.0505		mg/Kg		101	70 - 124	3	30
Toluene	0.0500	0.0450		mg/Kg		90	70 - 125	3	30
trans-1,2-Dichloroethene	0.0500	0.0454		mg/Kg		91	70 - 125	10	30
trans-1,3-Dichloropropene	0.0500	0.0462		mg/Kg		92	70 - 125	1	30
1,1,1-Trichloroethane	0.0500	0.0475		mg/Kg		95	70 - 128	8	30
1,1,2-Trichloroethane	0.0500	0.0449		mg/Kg		90	70 - 125	1	30
Trichloroethene	0.0500	0.0493		mg/Kg		99	70 - 125	3	30
Vinyl acetate	0.0500	0.0414		mg/Kg		83	40 - 153	4	30
Vinyl chloride	0.0500	0.0424		mg/Kg		85	70 - 125	0	30
Xylenes, Total	0.100	0.0934		mg/Kg		93	53 - 147	5	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	89		75 - 131
Dibromofluoromethane	95		75 - 126
1,2-Dichloroethane-d4 (Surr)	93		70 - 134
Toluene-d8 (Surr)	96		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185944-1

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

Lab Sample ID: MB 500-557088/1-A

Matrix: Solid

Analysis Batch: 557246

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 557088

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0060		0.033	0.0060	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
Acenaphthylene	<0.0044		0.033	0.0044	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
Anthracene	<0.0056		0.033	0.0056	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
Benzo[a]anthracene	<0.0045		0.033	0.0045	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
Benzo[a]pyrene	<0.0064		0.033	0.0064	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
Benzo[b]fluoranthene	<0.0072		0.033	0.0072	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
Benzo[g,h,i]perylene	<0.011		0.033	0.011	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
Benzo[k]fluoranthene	<0.0098		0.033	0.0098	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
Bis(2-chloroethoxy)methane	<0.034		0.17	0.034	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
Bis(2-chloroethyl)ether	<0.050		0.17	0.050	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
Bis(2-ethylhexyl) phthalate	<0.061		0.17	0.061	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
4-Bromophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
Butyl benzyl phthalate	<0.063		0.17	0.063	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
Carbazole	<0.083		0.17	0.083	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
4-Chloroaniline	<0.16		0.67	0.16	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
4-Chloro-3-methylphenol	<0.11		0.33	0.11	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
2-Chloronaphthalene	<0.037		0.17	0.037	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
2-Chlorophenol	<0.057		0.17	0.057	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
4-Chlorophenyl phenyl ether	<0.039		0.17	0.039	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
Chrysene	<0.0091		0.033	0.0091	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
Dibenz(a,h)anthracene	<0.0064		0.033	0.0064	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
Dibenzofuran	<0.039		0.17	0.039	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
1,2-Dichlorobenzene	<0.040		0.17	0.040	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
1,3-Dichlorobenzene	<0.037		0.17	0.037	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
1,4-Dichlorobenzene	<0.043		0.17	0.043	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
3,3'-Dichlorobenzidine	<0.047		0.17	0.047	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
2,4-Dichlorophenol	<0.079		0.33	0.079	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
Diethyl phthalate	<0.056		0.17	0.056	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
2,4-Dimethylphenol	<0.13		0.33	0.13	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
Dimethyl phthalate	<0.043		0.17	0.043	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
Di-n-butyl phthalate	<0.051		0.17	0.051	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
4,6-Dinitro-2-methylphenol	<0.27		0.67	0.27	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
2,4-Dinitrophenol	<0.59		0.67	0.59	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
2,4-Dinitrotoluene	<0.053		0.17	0.053	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
2,6-Dinitrotoluene	<0.065		0.17	0.065	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
Di-n-octyl phthalate	<0.054		0.17	0.054	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
Fluoranthene	<0.0062		0.033	0.0062	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
Fluorene	<0.0047		0.033	0.0047	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
Hexachlorobenzene	<0.0077		0.067	0.0077	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
Hexachlorobutadiene	<0.052		0.17	0.052	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
Hexachlorocyclopentadiene	<0.19		0.67	0.19	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
Hexachloroethane	<0.051		0.17	0.051	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
Indeno[1,2,3-cd]pyrene	<0.0086		0.033	0.0086	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
Isophorone	<0.037		0.17	0.037	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
2-Methylnaphthalene	<0.0061		0.067	0.0061	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
2-Methylphenol	<0.053		0.17	0.053	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
3 & 4 Methylphenol	<0.055		0.17	0.055	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
Naphthalene	<0.0051		0.033	0.0051	mg/Kg		08/17/20 06:17	08/17/20 20:54	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185944-1

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

Lab Sample ID: MB 500-557088/1-A
Matrix: Solid
Analysis Batch: 557246

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 557088

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2-Nitroaniline	<0.045		0.17	0.045	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
3-Nitroaniline	<0.10		0.33	0.10	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
4-Nitroaniline	<0.14		0.33	0.14	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
Nitrobenzene	<0.0083		0.033	0.0083	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
2-Nitrophenol	<0.079		0.33	0.079	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
4-Nitrophenol	<0.32		0.67	0.32	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
N-Nitrosodi-n-propylamine	<0.041		0.067	0.041	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
N-Nitrosodiphenylamine	<0.039		0.17	0.039	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
2,2'-oxybis[1-chloropropane]	<0.039		0.17	0.039	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
Pentachlorophenol	<0.53		0.67	0.53	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
Phenanthrene	<0.0046		0.033	0.0046	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
Phenol	<0.074		0.17	0.074	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
Pyrene	<0.0066		0.033	0.0066	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
1,2,4-Trichlorobenzene	<0.036		0.17	0.036	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
2,4,5-Trichlorophenol	<0.076		0.33	0.076	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
2,4,6-Trichlorophenol	<0.11		0.33	0.11	mg/Kg		08/17/20 06:17	08/17/20 20:54	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorobiphenyl	91		43 - 145	08/17/20 06:17	08/17/20 20:54	1
2-Fluorophenol	102		31 - 166	08/17/20 06:17	08/17/20 20:54	1
Nitrobenzene-d5	102		37 - 147	08/17/20 06:17	08/17/20 20:54	1
Phenol-d5	88		30 - 153	08/17/20 06:17	08/17/20 20:54	1
Terphenyl-d14	117		42 - 157	08/17/20 06:17	08/17/20 20:54	1
2,4,6-Tribromophenol	94		31 - 143	08/17/20 06:17	08/17/20 20:54	1

Lab Sample ID: LCS 500-557088/2-A
Matrix: Solid
Analysis Batch: 557246

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 557088

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthylene	1.33	1.35		mg/Kg		101	68 - 120
Anthracene	1.33	1.13		mg/Kg		84	70 - 114
Benzo[a]anthracene	1.33	1.31		mg/Kg		98	67 - 122
Benzo[a]pyrene	1.33	1.30		mg/Kg		98	65 - 133
Benzo[b]fluoranthene	1.33	1.20		mg/Kg		90	69 - 129
Benzo[g,h,i]perylene	1.33	1.30		mg/Kg		98	72 - 131
Benzo[k]fluoranthene	1.33	1.33		mg/Kg		100	68 - 127
Bis(2-chloroethoxy)methane	1.33	1.24		mg/Kg		93	60 - 112
Bis(2-chloroethyl)ether	1.33	1.11		mg/Kg		83	55 - 111
Bis(2-ethylhexyl) phthalate	1.33	1.15		mg/Kg		86	72 - 131
4-Bromophenyl phenyl ether	1.33	1.32		mg/Kg		99	68 - 118
Butyl benzyl phthalate	1.33	1.25		mg/Kg		94	71 - 129
Carbazole	1.33	1.38		mg/Kg		103	65 - 142
4-Chloroaniline	1.33	1.10		mg/Kg		83	30 - 150
4-Chloro-3-methylphenol	1.33	1.17		mg/Kg		88	65 - 122
2-Chloronaphthalene	1.33	1.33		mg/Kg		100	69 - 114
2-Chlorophenol	1.33	1.03		mg/Kg		77	64 - 110

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185944-1

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

Lab Sample ID: LCS 500-557088/2-A

Matrix: Solid

Analysis Batch: 557246

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 557088

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorophenyl phenyl ether	1.33	1.30		mg/Kg		98	62 - 119
Chrysene	1.33	1.31		mg/Kg		98	63 - 120
Dibenz(a,h)anthracene	1.33	1.36		mg/Kg		102	64 - 131
Dibenzofuran	1.33	1.32		mg/Kg		99	66 - 115
1,2-Dichlorobenzene	1.33	1.24		mg/Kg		93	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	0.719		mg/Kg		54	35 - 128
2,4-Dichlorophenol	1.33	1.10		mg/Kg		82	58 - 120
Diethyl phthalate	1.33	1.23		mg/Kg		92	58 - 120
2,4-Dimethylphenol	1.33	1.23		mg/Kg		92	60 - 110
Dimethyl phthalate	1.33	1.35		mg/Kg		101	69 - 116
Di-n-butyl phthalate	1.33	1.27		mg/Kg		95	65 - 120
4,6-Dinitro-2-methylphenol	2.67	1.98		mg/Kg		74	10 - 110
2,4-Dinitrophenol	2.67	1.44		mg/Kg		54	10 - 100
2,4-Dinitrotoluene	1.33	1.14		mg/Kg		85	69 - 124
2,6-Dinitrotoluene	1.33	1.35		mg/Kg		101	70 - 123
Di-n-octyl phthalate	1.33	1.16		mg/Kg		87	68 - 134
Fluoranthene	1.33	1.15		mg/Kg		86	62 - 120
Fluorene	1.33	1.35		mg/Kg		101	62 - 120
Hexachlorobenzene	1.33	1.31		mg/Kg		98	63 - 124
Hexachlorobutadiene	1.33	1.30		mg/Kg		97	56 - 120
Hexachlorocyclopentadiene	1.33	0.623	J	mg/Kg		47	10 - 133
Hexachloroethane	1.33	1.16		mg/Kg		87	60 - 114
Indeno[1,2,3-cd]pyrene	1.33	1.30		mg/Kg		98	68 - 130
Isophorone	1.33	1.44		mg/Kg		108	55 - 110
2-Methylnaphthalene	1.33	1.25		mg/Kg		94	69 - 112
2-Methylphenol	1.33	1.33		mg/Kg		100	60 - 120
3 & 4 Methylphenol	1.33	1.28		mg/Kg		96	57 - 120
Naphthalene	1.33	1.23		mg/Kg		93	63 - 110
2-Nitroaniline	1.33	1.25		mg/Kg		94	57 - 124
3-Nitroaniline	1.33	0.929		mg/Kg		70	40 - 122
4-Nitroaniline	1.33	1.04		mg/Kg		78	60 - 160
Nitrobenzene	1.33	1.28		mg/Kg		96	60 - 116
2-Nitrophenol	1.33	1.27		mg/Kg		96	60 - 120
4-Nitrophenol	2.67	2.17		mg/Kg		81	30 - 122
N-Nitrosodi-n-propylamine	1.33	1.23		mg/Kg		92	56 - 118
N-Nitrosodiphenylamine	1.33	1.34		mg/Kg		100	65 - 112
2,2'-oxybis[1-chloropropane]	1.33	1.09		mg/Kg		82	40 - 124
Pentachlorophenol	2.67	1.70		mg/Kg		64	13 - 112
Phenanthrene	1.33	1.16		mg/Kg		87	62 - 120
Phenol	1.33	1.17		mg/Kg		88	56 - 122
Pyrene	1.33	1.40		mg/Kg		105	61 - 128
1,2,4-Trichlorobenzene	1.33	1.25		mg/Kg		93	66 - 117
2,4,5-Trichlorophenol	1.33	1.30		mg/Kg		97	50 - 120
2,4,6-Trichlorophenol	1.33	1.30		mg/Kg		98	57 - 120

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185944-1

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

Lab Sample ID: LCS 500-557088/2-A
Matrix: Solid
Analysis Batch: 557246

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 557088

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	98		43 - 145
2-Fluorophenol	105		31 - 166
Nitrobenzene-d5	107		37 - 147
Phenol-d5	92		30 - 153
Terphenyl-d14	114		42 - 157
2,4,6-Tribromophenol	103		31 - 143

Method: 6010B - SPLP Metals

Lab Sample ID: LCS 500-557242/2-A
Matrix: Solid
Analysis Batch: 557308

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 557242

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	
Lead	0.100	0.0959		mg/L		96	80 - 120	
Manganese	0.500	0.447		mg/L		89	80 - 120	

Lab Sample ID: LB 500-556907/1-B
Matrix: Solid
Analysis Batch: 557308

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 557242

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	<0.0075		0.0075	0.0075	mg/L		08/17/20 17:17	08/18/20 03:14	1
Manganese	<0.010		0.025	0.010	mg/L		08/17/20 17:17	08/18/20 03:14	1

Lab Sample ID: 500-185944-2 MS
Matrix: Solid
Analysis Batch: 557308

Client Sample ID: 2412V2-20-B02 (0-1.1)
Prep Type: SPLP East
Prep Batch: 557242

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec.	
				Result	Qualifier				Limits	
Lead	0.54		0.100	0.777	4	mg/L		241	75 - 125	
Manganese	2.1		0.500	3.08	4	mg/L		194	75 - 125	

Lab Sample ID: 500-185944-2 DU
Matrix: Solid
Analysis Batch: 557308

Client Sample ID: 2412V2-20-B02 (0-1.1)
Prep Type: SPLP East
Prep Batch: 557242

Analyte	Sample Result	Sample Qualifier	DU DU		Unit	D	RPD	RPD	
			Result	Qualifier				RPD	Limit
Lead	0.54		0.622		mg/L		15	20	
Manganese	2.1		2.44		mg/L		14	20	

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-556318/1-A
Matrix: Solid
Analysis Batch: 556556

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 556318

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.39		2.0	0.39	mg/Kg		08/11/20 17:37	08/12/20 19:22	1
Arsenic	<0.34		1.0	0.34	mg/Kg		08/11/20 17:37	08/12/20 19:22	1

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185944-1

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

Lab Sample ID: MB 500-556318/1-A
Matrix: Solid
Analysis Batch: 556556

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 556318

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Barium	<0.11		1.0	0.11	mg/Kg		08/11/20 17:37	08/12/20 19:22	1
Beryllium	<0.093		0.40	0.093	mg/Kg		08/11/20 17:37	08/12/20 19:22	1
Cadmium	0.0389	J	0.20	0.036	mg/Kg		08/11/20 17:37	08/12/20 19:22	1
Chromium	<0.50		1.0	0.50	mg/Kg		08/11/20 17:37	08/12/20 19:22	1
Cobalt	<0.13		0.50	0.13	mg/Kg		08/11/20 17:37	08/12/20 19:22	1
Copper	<0.28		1.0	0.28	mg/Kg		08/11/20 17:37	08/12/20 19:22	1
Lead	<0.23		0.50	0.23	mg/Kg		08/11/20 17:37	08/12/20 19:22	1
Magnesium	<5.0		10	5.0	mg/Kg		08/11/20 17:37	08/12/20 19:22	1
Calcium	5.53	J	20	3.4	mg/Kg		08/11/20 17:37	08/12/20 19:22	1
Manganese	<0.15		1.0	0.15	mg/Kg		08/11/20 17:37	08/12/20 19:22	1
Nickel	<0.29		1.0	0.29	mg/Kg		08/11/20 17:37	08/12/20 19:22	1
Selenium	<0.59		1.0	0.59	mg/Kg		08/11/20 17:37	08/12/20 19:22	1
Silver	<0.13		0.50	0.13	mg/Kg		08/11/20 17:37	08/12/20 19:22	1
Thallium	<0.50		1.0	0.50	mg/Kg		08/11/20 17:37	08/12/20 19:22	1
Vanadium	<0.12		0.50	0.12	mg/Kg		08/11/20 17:37	08/12/20 19:22	1
Zinc	<0.88		2.0	0.88	mg/Kg		08/11/20 17:37	08/12/20 19:22	1
Potassium	<18		50	18	mg/Kg		08/11/20 17:37	08/12/20 19:22	1
Sodium	<15		100	15	mg/Kg		08/11/20 17:37	08/12/20 19:22	1

Lab Sample ID: MB 500-556318/1-A
Matrix: Solid
Analysis Batch: 556571

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 556318

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Iron	<10		20	10	mg/Kg		08/11/20 17:37	08/12/20 23:25	1

Lab Sample ID: LCS 500-556318/2-A
Matrix: Solid
Analysis Batch: 556556

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556318

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	10.0	9.12		mg/Kg		91	80 - 120
Barium	200	197		mg/Kg		98	80 - 120
Beryllium	5.00	4.65		mg/Kg		93	80 - 120
Cadmium	5.00	4.55		mg/Kg		91	80 - 120
Chromium	20.0	19.4		mg/Kg		97	80 - 120
Cobalt	50.0	48.4		mg/Kg		97	80 - 120
Copper	25.0	23.8		mg/Kg		95	80 - 120
Lead	10.0	9.78		mg/Kg		98	80 - 120
Magnesium	1000	891		mg/Kg		89	80 - 120
Calcium	1000	924		mg/Kg		92	80 - 120
Manganese	50.0	46.6		mg/Kg		93	80 - 120
Nickel	50.0	49.1		mg/Kg		98	80 - 120
Selenium	10.0	8.01		mg/Kg		80	80 - 120
Silver	5.00	4.62		mg/Kg		92	80 - 120
Thallium	10.0	9.69		mg/Kg		97	80 - 120
Vanadium	50.0	48.2		mg/Kg		96	80 - 120
Zinc	50.0	46.8		mg/Kg		94	80 - 120

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185944-1

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

Lab Sample ID: LCS 500-556318/2-A
Matrix: Solid
Analysis Batch: 556556

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556318

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Potassium	1000	988		mg/Kg		99	80 - 120
Sodium	1000	999		mg/Kg		100	80 - 120

Lab Sample ID: LCS 500-556318/2-A
Matrix: Solid
Analysis Batch: 556571

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556318

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	100	111		mg/Kg		111	80 - 120

Lab Sample ID: 500-185944-1 MS
Matrix: Solid
Analysis Batch: 556556

Client Sample ID: 2412V2-20-B01 (0-1.1)
Prep Type: Total/NA
Prep Batch: 556318

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.99	J F1	32.7	9.04	F1	mg/Kg	☼	25	75 - 125
Arsenic	4.1		6.53	9.83		mg/Kg	☼	88	75 - 125
Barium	87		131	206		mg/Kg	☼	91	75 - 125
Beryllium	0.52		3.27	3.22		mg/Kg	☼	83	75 - 125
Cadmium	0.38	B	3.27	3.01		mg/Kg	☼	81	75 - 125
Chromium	28	F1	13.1	36.8	F1	mg/Kg	☼	66	75 - 125
Cobalt	7.7		32.7	40.7		mg/Kg	☼	101	75 - 125
Copper	22	F1	16.3	36.1		mg/Kg	☼	84	75 - 125
Iron	12000		65.3	13500	4	mg/Kg	☼	1998	75 - 125
Lead	150	F2	6.53	210	4	mg/Kg	☼	893	75 - 125
Magnesium	26000	F2	653	24100	4	mg/Kg	☼	-269	75 - 125
Manganese	520		32.7	525	4	mg/Kg	☼	15	75 - 125
Nickel	16		32.7	49.9		mg/Kg	☼	103	75 - 125
Selenium	0.41	J F1	6.53	4.93	F1	mg/Kg	☼	69	75 - 125
Silver	<0.086		3.27	2.56		mg/Kg	☼	78	75 - 125
Thallium	0.46	J	6.53	6.65		mg/Kg	☼	95	75 - 125
Vanadium	21		32.7	52.4		mg/Kg	☼	97	75 - 125
Zinc	130		32.7	167	4	mg/Kg	☼	104	75 - 125
Potassium	1200	F1	653	2380	F1	mg/Kg	☼	186	75 - 125
Sodium	1300	B	653	1920		mg/Kg	☼	91	75 - 125

Lab Sample ID: 500-185944-1 MS
Matrix: Solid
Analysis Batch: 556571

Client Sample ID: 2412V2-20-B01 (0-1.1)
Prep Type: Total/NA
Prep Batch: 556318

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	56000	F2	653	47600	4	mg/Kg	☼	-1235	75 - 125

Lab Sample ID: 500-185944-1 MSD
Matrix: Solid
Analysis Batch: 556556

Client Sample ID: 2412V2-20-B01 (0-1.1)
Prep Type: Total/NA
Prep Batch: 556318

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Antimony	0.99	J F1	33.2	9.15	F1	mg/Kg	☼	25	75 - 125	1	20
Arsenic	4.1		6.63	9.84		mg/Kg	☼	87	75 - 125	0	20

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185944-1

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

Lab Sample ID: 500-185944-1 MSD

Matrix: Solid

Analysis Batch: 556556

Client Sample ID: 2412V2-20-B01 (0-1.1)

Prep Type: Total/NA

Prep Batch: 556318

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Barium	87		133	210		mg/Kg	☼	93	75 - 125	2	20
Beryllium	0.52		3.32	3.43		mg/Kg	☼	88	75 - 125	6	20
Cadmium	0.38	B	3.32	3.12		mg/Kg	☼	83	75 - 125	3	20
Chromium	28	F1	13.3	41.4		mg/Kg	☼	100	75 - 125	12	20
Cobalt	7.7		33.2	42.0		mg/Kg	☼	103	75 - 125	3	20
Copper	22	F1	16.6	34.0	F1	mg/Kg	☼	70	75 - 125	6	20
Iron	12000		66.3	13100	4	mg/Kg	☼	1219	75 - 125	4	20
Lead	150	F2	6.63	142	4 F2	mg/Kg	☼	-141	75 - 125	38	20
Magnesium	26000	F2	663	30400	4 F2	mg/Kg	☼	679	75 - 125	23	20
Manganese	520		33.2	603	4	mg/Kg	☼	252	75 - 125	14	20
Nickel	16		33.2	50.1		mg/Kg	☼	102	75 - 125	0	20
Selenium	0.41	J F1	6.63	5.43		mg/Kg	☼	76	75 - 125	10	20
Silver	<0.086		3.32	2.67		mg/Kg	☼	81	75 - 125	4	20
Thallium	0.46	J	6.63	6.71		mg/Kg	☼	94	75 - 125	1	20
Vanadium	21		33.2	52.8		mg/Kg	☼	96	75 - 125	1	20
Zinc	130		33.2	150	4	mg/Kg	☼	50	75 - 125	11	20
Potassium	1200	F1	663	2470	F1	mg/Kg	☼	197	75 - 125	4	20
Sodium	1300	B	663	1910		mg/Kg	☼	88	75 - 125	0	20

Lab Sample ID: 500-185944-1 MSD

Matrix: Solid

Analysis Batch: 556571

Client Sample ID: 2412V2-20-B01 (0-1.1)

Prep Type: Total/NA

Prep Batch: 556318

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Calcium	56000	F2	663	62800	4 F2	mg/Kg	☼	1079	75 - 125	28	20

Lab Sample ID: 500-185944-1 DU

Matrix: Solid

Analysis Batch: 556556

Client Sample ID: 2412V2-20-B01 (0-1.1)

Prep Type: Total/NA

Prep Batch: 556318

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier		Result				
Antimony	0.99	J F1	0.701	J F5	mg/Kg	☼	35	20
Arsenic	4.1		4.23		mg/Kg	☼	4	20
Barium	87		83.8		mg/Kg	☼	4	20
Beryllium	0.52		0.487		mg/Kg	☼	7	20
Cadmium	0.38	B	0.403		mg/Kg	☼	6	20
Chromium	28	F1	23.7		mg/Kg	☼	17	20
Cobalt	7.7		7.39		mg/Kg	☼	4	20
Copper	22	F1	21.4		mg/Kg	☼	4	20
Iron	12000		12800		mg/Kg	☼	5	20
Lead	150	F2	150		mg/Kg	☼	1	20
Magnesium	26000	F2	23800		mg/Kg	☼	9	20
Manganese	520		452		mg/Kg	☼	14	20
Nickel	16		16.1		mg/Kg	☼	1	20
Selenium	0.41	J F1	0.390	J	mg/Kg	☼	5	20
Silver	<0.086		<0.086		mg/Kg	☼	NC	20
Thallium	0.46	J	<0.33		mg/Kg	☼	NC	20
Vanadium	21		21.7		mg/Kg	☼	4	20
Zinc	130		131		mg/Kg	☼	2	20

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185944-1

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

Lab Sample ID: 500-185944-1 DU
Matrix: Solid
Analysis Batch: 556556

Client Sample ID: 2412V2-20-B01 (0-1.1)
Prep Type: Total/NA
Prep Batch: 556318

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Potassium	1200	F1	1140		mg/Kg	☒	3	20
Sodium	1300	B	1270		mg/Kg	☒	4	20

Lab Sample ID: 500-185944-1 DU
Matrix: Solid
Analysis Batch: 556571

Client Sample ID: 2412V2-20-B01 (0-1.1)
Prep Type: Total/NA
Prep Batch: 556318

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Calcium	56000	F2	52100		mg/Kg	☒	6	20

Lab Sample ID: LCS 500-557245/2-A
Matrix: Solid
Analysis Batch: 557360

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 557245

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Arsenic	0.100	0.109		mg/L		109	80 - 120	
Barium	0.500	0.496	J	mg/L		99	80 - 120	
Beryllium	0.0500	0.0498		mg/L		100	80 - 120	
Cadmium	0.0500	0.0511		mg/L		102	80 - 120	
Chromium	0.200	0.198		mg/L		99	80 - 120	
Cobalt	0.500	0.522		mg/L		104	80 - 120	
Copper	0.250	0.259		mg/L		103	80 - 120	
Iron	1.00	1.02		mg/L		102	80 - 120	
Lead	0.100	0.0961		mg/L		96	80 - 120	
Magnesium	10.0	9.26		mg/L		93	80 - 120	
Calcium	10.0	9.87		mg/L		99	80 - 120	
Manganese	0.500	0.482		mg/L		96	80 - 120	
Nickel	0.500	0.517		mg/L		103	80 - 120	
Selenium	0.100	0.106		mg/L		106	80 - 120	
Silver	0.0500	0.0512		mg/L		102	80 - 120	
Vanadium	0.500	0.516		mg/L		103	80 - 120	
Zinc	0.500	0.568		mg/L		114	80 - 120	
Potassium	10.0	10.4		mg/L		104	80 - 120	

Lab Sample ID: LB 500-556919/1-B
Matrix: Solid
Analysis Batch: 557360

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 557245

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.010		0.050	0.010	mg/L		08/17/20 17:21	08/18/20 01:05	1
Barium	<0.050		0.50	0.050	mg/L		08/17/20 17:21	08/18/20 01:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/17/20 17:21	08/18/20 01:05	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/17/20 17:21	08/18/20 01:05	1
Chromium	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:05	1
Cobalt	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:05	1
Copper	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:05	1
Iron	<0.20		0.40	0.20	mg/L		08/17/20 17:21	08/18/20 01:05	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/17/20 17:21	08/18/20 01:05	1
Magnesium	<0.50		2.5	0.50	mg/L		08/17/20 17:21	08/18/20 01:05	1

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185944-1

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

Lab Sample ID: LB 500-556919/1-B
Matrix: Solid
Analysis Batch: 557360

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 557245

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.50		5.0	0.50	mg/L		08/17/20 17:21	08/18/20 01:05	1
Manganese	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:05	1
Nickel	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:05	1
Selenium	<0.020		0.050	0.020	mg/L		08/17/20 17:21	08/18/20 01:05	1
Silver	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:05	1
Vanadium	<0.010		0.025	0.010	mg/L		08/17/20 17:21	08/18/20 01:05	1
Zinc	<0.020		0.50	0.020	mg/L		08/17/20 17:21	08/18/20 01:05	1
Potassium	<0.50		2.5	0.50	mg/L		08/17/20 17:21	08/18/20 01:05	1

Lab Sample ID: 500-185944-2 MS
Matrix: Solid
Analysis Batch: 557360

Client Sample ID: 2412V2-20-B02 (0-1.1)
Prep Type: TCLP
Prep Batch: 557245

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	MS %Rec. Limits
Arsenic	<0.010		0.100	0.108		mg/L		108	75 - 125
Barium	1.1		0.500	1.55		mg/L		98	75 - 125
Beryllium	<0.0040		0.0500	0.0498		mg/L		100	75 - 125
Cadmium	0.0030	J	0.0500	0.0535		mg/L		101	75 - 125
Chromium	<0.010		0.200	0.192		mg/L		96	75 - 125
Cobalt	0.042		0.500	0.556		mg/L		103	75 - 125
Copper	<0.010		0.250	0.263		mg/L		105	75 - 125
Iron	<0.20		1.00	0.999		mg/L		100	75 - 125
Lead	0.028		0.100	0.124		mg/L		97	75 - 125
Magnesium	100		10.0	110	4	mg/L		98	75 - 125
Calcium	220		10.0	225	4	mg/L		83	75 - 125
Manganese	10		0.500	10.6	4	mg/L		95	75 - 125
Nickel	0.037		0.500	0.543		mg/L		101	75 - 125
Selenium	<0.020		0.100	0.106		mg/L		106	75 - 125
Silver	<0.010		0.0500	0.0499		mg/L		100	75 - 125
Vanadium	<0.010		0.500	0.511		mg/L		102	75 - 125
Zinc	0.36	J	0.500	0.898		mg/L		108	75 - 125
Potassium	4.8		10.0	15.1		mg/L		104	75 - 125

Lab Sample ID: 500-185944-2 DU
Matrix: Solid
Analysis Batch: 557360

Client Sample ID: 2412V2-20-B02 (0-1.1)
Prep Type: TCLP
Prep Batch: 557245

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	<0.010		<0.010		mg/L		NC	20
Barium	1.1		1.06		mg/L		0.4	20
Beryllium	<0.0040		<0.0040		mg/L		NC	20
Cadmium	0.0030	J	0.00306	J	mg/L		0.4	20
Chromium	<0.010		<0.010		mg/L		NC	20
Cobalt	0.042		0.0425		mg/L		0.7	20
Copper	<0.010		<0.010		mg/L		NC	20
Iron	<0.20		<0.20		mg/L		NC	20
Lead	0.028		0.0260		mg/L		7	20
Magnesium	100		101		mg/L		0.8	20
Calcium	220		217		mg/L		0.2	20

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185944-1

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

Lab Sample ID: 500-185944-2 DU
 Matrix: Solid
 Analysis Batch: 557360

Client Sample ID: 2412V2-20-B02 (0-1.1)
 Prep Type: TCLP
 Prep Batch: 557245

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Manganese	10		10.2		mg/L		0.7	20
Nickel	0.037		0.0389		mg/L		4	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	0.36	J	0.360	J	mg/L		0.6	20
Potassium	4.8		4.81		mg/L		0.4	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-557245/2-A
 Matrix: Solid
 Analysis Batch: 557398

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 557245

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Antimony	0.500	0.573	^	mg/L		115	80 - 120
Thallium	0.100	0.120	^	mg/L		120	80 - 120

Lab Sample ID: LB 500-556919/1-B
 Matrix: Solid
 Analysis Batch: 557398

Client Sample ID: Method Blank
 Prep Type: TCLP
 Prep Batch: 557245

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0060	^	0.0060	0.0060	mg/L		08/17/20 17:21	08/18/20 09:20	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		08/17/20 17:21	08/18/20 09:20	1

Lab Sample ID: 500-185944-2 MS
 Matrix: Solid
 Analysis Batch: 557398

Client Sample ID: 2412V2-20-B02 (0-1.1)
 Prep Type: TCLP
 Prep Batch: 557245

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier		Result	Qualifier				
Antimony	<0.0060	^	0.500	0.560	^	mg/L		112	75 - 125
Thallium	<0.0020	^	0.100	0.122	^	mg/L		122	75 - 125

Lab Sample ID: 500-185944-2 DU
 Matrix: Solid
 Analysis Batch: 557398

Client Sample ID: 2412V2-20-B02 (0-1.1)
 Prep Type: TCLP
 Prep Batch: 557245

Analyte	Sample	Sample	DU	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 500-557385/12-A
 Matrix: Solid
 Analysis Batch: 557609

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 557385

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020		0.00020	0.00020	mg/L		08/18/20 09:55	08/19/20 09:02	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185944-1

Method: 7470A - TCLP Mercury (Continued)

Lab Sample ID: LCS 500-557385/14-A
Matrix: Solid
Analysis Batch: 557609

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 557385
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00198		mg/L		99	80 - 120

Lab Sample ID: LB 500-556919/1-C
Matrix: Solid
Analysis Batch: 557609

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 557385

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/18/20 09:55	08/19/20 09:04	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-556263/12-A
Matrix: Solid
Analysis Batch: 556451

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 556263

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		08/11/20 14:25	08/12/20 07:11	1

Lab Sample ID: LCS 500-556263/13-A
Matrix: Solid
Analysis Batch: 556451

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556263
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.170		mg/Kg		102	80 - 120

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 500-556842/1-A
Matrix: Solid
Analysis Batch: 557133

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 556842

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.12		0.24	0.12	mg/Kg		08/14/20 12:10	08/14/20 15:17	1

Lab Sample ID: HLCS 500-556842/2-A
Matrix: Solid
Analysis Batch: 557133

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556842
%Rec.

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	12.0	12.3		mg/Kg		103	90 - 110

Lab Sample ID: LCS 500-556842/3-A
Matrix: Solid
Analysis Batch: 557133

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556842
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	2.40	2.33		mg/Kg		97	85 - 115

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185944-1

Method: 9012B - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: LLCS 500-556842/4-A
Matrix: Solid
Analysis Batch: 557133

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556842
%Rec.

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	1.20	0.943		mg/Kg		79	75 - 125

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Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185944-1

Client Sample ID: 2412V2-20-B01 (0-1.1)

Lab Sample ID: 500-185944-1

Date Collected: 08/04/20 15:30

Matrix: Solid

Date Received: 08/04/20 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			556907	08/14/20 12:25	JLC	TAL CHI
SPLP East	Prep	3010A			557242	08/17/20 17:17	BDE	TAL CHI
SPLP East	Analysis	6010B		1	557308	08/18/20 04:38	JEF	TAL CHI
TCLP	Leach	1311			556919	08/14/20 14:05	JLC	TAL CHI
TCLP	Prep	3010A			557245	08/17/20 17:21	BDE	TAL CHI
TCLP	Analysis	6010B		1	557360	08/18/20 02:38	JEF	TAL CHI
TCLP	Leach	1311			556919	08/14/20 14:05	JLC	TAL CHI
TCLP	Prep	3010A			557245	08/17/20 17:21	BDE	TAL CHI
TCLP	Analysis	6020A		1	557398	08/18/20 10:01	FXG	TAL CHI
TCLP	Leach	1311			556919	08/14/20 14:05	JLC	TAL CHI
TCLP	Prep	7470A			557385	08/18/20 09:55	MJG	TAL CHI
TCLP	Analysis	7470A		1	557609	08/19/20 09:55	MJG	TAL CHI
Total/NA	Analysis	9045D		1	555814	08/06/20 21:08	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	555791	08/07/20 08:12	LWN	TAL CHI

Client Sample ID: 2412V2-20-B01 (0-1.1)

Lab Sample ID: 500-185944-1

Date Collected: 08/04/20 15:30

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 72.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			556637	08/05/20 08:30	PMF	TAL CHI
Total/NA	Analysis	8260B		1	556601	08/13/20 15:04	PMF	TAL CHI
Total/NA	Prep	3541			557088	08/17/20 06:17	DAK	TAL CHI
Total/NA	Analysis	8270D		1	557370	08/18/20 12:40	AJD	TAL CHI
Total/NA	Prep	3050B			556318	08/11/20 17:37	BDE	TAL CHI
Total/NA	Analysis	6010B		1	556556	08/12/20 19:30	EEN	TAL CHI
Total/NA	Prep	3050B			556318	08/11/20 17:37	BDE	TAL CHI
Total/NA	Analysis	6010B		10	556571	08/12/20 23:49	EEN	TAL CHI
Total/NA	Prep	7471B			556263	08/11/20 14:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	556451	08/12/20 07:58	MJG	TAL CHI
Total/NA	Prep	9010C			556842	08/14/20 12:10	MS	TAL CHI
Total/NA	Analysis	9012B		1	557133	08/14/20 16:16	MS	TAL CHI

Client Sample ID: 2412V2-20-B02 (0-1.1)

Lab Sample ID: 500-185944-2

Date Collected: 08/04/20 15:10

Matrix: Solid

Date Received: 08/04/20 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			556907	08/14/20 12:25	JLC	TAL CHI
SPLP East	Prep	3010A			557242	08/17/20 17:17	BDE	TAL CHI
SPLP East	Analysis	6010B		1	557308	08/18/20 04:54	JEF	TAL CHI
TCLP	Leach	1311			556919	08/14/20 14:05	JLC	TAL CHI
TCLP	Prep	3010A			557245	08/17/20 17:21	BDE	TAL CHI
TCLP	Analysis	6010B		1	557360	08/18/20 02:42	JEF	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185944-1

Client Sample ID: 2412V2-20-B02 (0-1.1)

Lab Sample ID: 500-185944-2

Date Collected: 08/04/20 15:10

Matrix: Solid

Date Received: 08/04/20 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			556919	08/14/20 14:05	JLC	TAL CHI
TCLP	Prep	3010A			557245	08/17/20 17:21	BDE	TAL CHI
TCLP	Analysis	6020A		1	557398	08/18/20 10:07	FXG	TAL CHI
TCLP	Leach	1311			556919	08/14/20 14:05	JLC	TAL CHI
TCLP	Prep	7470A			557385	08/18/20 09:55	MJG	TAL CHI
TCLP	Analysis	7470A		1	557609	08/19/20 09:57	MJG	TAL CHI
Total/NA	Analysis	9045D		1	555814	08/06/20 21:10	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	555791	08/07/20 08:12	LWN	TAL CHI

Client Sample ID: 2412V2-20-B02 (0-1.1)

Lab Sample ID: 500-185944-2

Date Collected: 08/04/20 15:10

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 77.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			556637	08/05/20 08:30	PMF	TAL CHI
Total/NA	Analysis	8260B		1	556601	08/13/20 15:29	PMF	TAL CHI
Total/NA	Prep	3541			557088	08/17/20 06:17	DAK	TAL CHI
Total/NA	Analysis	8270D		1	557370	08/18/20 14:01	AJD	TAL CHI
Total/NA	Prep	3050B			556318	08/11/20 17:37	BDE	TAL CHI
Total/NA	Analysis	6010B		1	556556	08/12/20 19:50	EEN	TAL CHI
Total/NA	Prep	7471B			556263	08/11/20 14:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	556451	08/12/20 08:00	MJG	TAL CHI
Total/NA	Prep	9010C			556842	08/14/20 12:10	MS	TAL CHI
Total/NA	Analysis	9012B		1	557133	08/14/20 16:18	MS	TAL CHI

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185944-1

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-21

- 1
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TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 604
Phone: 708.534.5200 Fax: 708.534.1



500-185944 COC

Report To (optional)
Contact: Matt Weiss
Company: TERRACON
Address: 192 Exchange Blvd
Address: 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 #: 500-185944

Chain of Custody Number: _____

Page 1 of 1

Temperature °C of Cooler: 5, 8, 43, 59, 44

Client		Client Project #		Preservative		Parameter		Date		Time		# of Containers		Matrix		Comments	
Terracon		1120701P															
Project Name		Lab Project #		Date		Time		# of Containers		Matrix							
Project Location/State		Lab PM		Date		Time		# of Containers		Matrix							
Sampler		Lab PM		Date		Time		# of Containers		Matrix							
Lab ID	M/S/MSD	Sample ID	Date	Time	# of Containers	Matrix											
1		2412V2-20-B01(0-1.1)	8/04/20	1530	6	So	X	X	X	X	X	X	X	X	X	X	
2		2412V2-20-B02(0-1.1)	8/04/20	1510	6	So	X	X	X	X	X	X	X	X	X	X	

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

Turnaround Time Required (Business Days)

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

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>Shun Lee</u> Company: <u>TERRACON</u> Date: <u>8/04/2020</u> Time: <u>1600</u>	Received By: <u>R. Neely</u> Company: <u>TA</u> Date: <u>8/4/20</u> Time: <u>1600</u>
Relinquished By: <u>R. Neely</u> Company: <u>TA</u> Date: <u>8/4/20</u> Time: <u>1740</u>	Received By: <u>Shun Lee</u> Company: <u>TA</u> Date: <u>8/5/20</u> Time: <u>0730</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: STANDARD TURN
* NO ALUMINUM
* HOLD SPL 23 Inorganics Per Terracon Instructions

Lab Comments:

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-185944-1

Login Number: 185944

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.8,4.3,5.9,4.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 557-IL Route 72 at State Street/Getzelman Rd Office Phone Number, if available: _____

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

IL Route 72 (Westbound) IDOT STA 504+10 to 504+80 (ISGS 2412V2-21)

City: Hampshire State: IL Zip Code: 60140

County: Kane Township: Hampshire

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

Latitude: 42.08832 Longitude: - 88.53013

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

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

Estimated Volume of debris (cu. Yd.): 15

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

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

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

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

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

Soil from boring B01 was sampled adjacent to ISGS Site No 2412V2-21.

See Exhibit 2 and Table 27 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 J185945-1.

Also see Preliminary Site Investigation Report prepared by Terracon. CCDD/USFO facility in MSA County.

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

I, Matt Weiss (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51 a] 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

Printed Name: _____

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Date:

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

Comparison of Detected Constituents to MACs-PTB 174-009;Work Order:074A
Preliminary Site Investigation
FAP 557-IL Route 72 at State St./Getzelman Road (PESA #2412V2-21)
Hampshire, Kane Co, IL
Terracon Project No. 11207011P
Page 1 of 2

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2412V2-21-B01 (0-1.1)
				CCDD	Sample Depth (feet)	(0-1.1)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	8/4/2020
Volatile Organic Analytical Parameters						
Acetone	mg/kg	---	---	25		0.02
2-Butanone	mg/kg	---	---	17		0.0041
Semivolatile Organic Analytical Parameters						
Anthracene	mg/kg	0.25	0.4	12000		0.016
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.11
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.12
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.2
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.052
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.083
Chrysene	mg/kg	1.2	2.7	88		0.12
Fluoranthene	mg/kg	2.7	4.1	3100		0.23
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.043
Phenanthrene	mg/kg	1.3	2.5	210		0.073
Pyrene	mg/kg	1.9	3.0	2300		0.23
Inorganic Analytical Parameters						
Arsenic	mg/kg	---	13	11.3		4.6
Barium	mg/kg	---	110	1500		86
Cadmium	mg/kg	---	0.6	5.2		0.32
Chromium, total	mg/kg	---	16.2	21		20
Lead	mg/kg	---	36	107		100
Mercury	mg/kg	---	0.06	0.89		0.03
Selenium	mg/kg	---	0.48	1.3		<0.35
Silver	mg/kg	---	0.55	4.4		<0.076
Antimony	mg/kg	---	4.0	5		0.38
Beryllium	mg/kg	---	0.59	22		0.61
Calcium	mg/kg	---	9,300	---		23000
Cobalt	mg/kg	---	8.9	20		7.6
Copper	mg/kg	---	19.6	2900		15
Cyanide	mg/kg	---	0.51	---		0.27
Iron	mg/kg	---	15,900	15000		14000
Magnesium	mg/kg	---	4,820	325000		15000
Manganese	mg/kg	---	636	630		450
Nickel	mg/kg	---	18	100		17
Potassium	mg/kg	---	1,268	---		1400
Sodium	mg/kg	---	130	---		1200
Thallium	mg/kg	---	0.32	2.6		0.32
Vanadium	mg/kg	---	25.2	550		28
Zinc	mg/kg	---	95	5100		110
pH			6.25	9		7.8

Preliminary Site Investigation

FAP 557-IL Route 72 at State St./Getzelman Road (PESA #2412V2-21)

Hampshire, Kane Co, IL

Terracon Project No. 11207011P

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2412V2-21-B01 (0-1.1)
				CCDD	Sample Depth (feet)	(0-1.1)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	8/4/2020
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	---	---	---		0.11
Magnesium,SPLP	mg/L	---	---	---		--
Manganese,SPLP	mg/L	---	---	---		0.83
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
Barium,TCLP	mg/L	---	---	---		0.8
Cadmium,TCLP	mg/L	---	---	---		0.0027
Chromium,TCLP	mg/L	---	---	---		<0.010
Lead,TCLP	mg/L	---	---	---		0.019
Mercury,TCLP	mg/L	---	---	---		<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.020
Silver,TCLP	mg/L	---	---	---		<0.010
Antimony,TCLP	mg/L	---	---	---		<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040
Calcium,TCLP	mg/L	---	---	---		230
Cobalt,TCLP	mg/L	---	---	---		0.032
Copper,TCLP	mg/L	---	---	---		<0.010
Cyanide,TCLP	mg/L	---	---	---		--
Iron,TCLP	mg/L	---	---	---		<0.20
Magnesium,TCLP	mg/L	---	---	---		120
Manganese,TCLP	mg/L	---	---	---		8.5
Nickel,TCLP	mg/L	---	---	---		0.038
Potassium,TCLP	mg/L	---	---	---		2.7
Sodium,TCLP	mg/L	---	---	---		--
Thallium,TCLP	mg/L	---	---	---		<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.010
Zinc,TCLP	mg/L	---	---	---		0.42

ANALYTICAL REPORT

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

Laboratory Job ID: 500-185945-1
Client Project/Site: IDOT - Hampshire - WO 074

For:

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

Attn: Mr. Matthew Weiss



Authorized for release by:
8/19/2020 4:22:50 PM

Richard Wright, Senior Project Manager
(708)746-0045
Richard.Wright@Eurofinset.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 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 - Hampshire - WO 074

Job ID: 500-185945-1

Job ID: 500-185945-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-185945-1

Receipt

The samples were received on 8/4/2020 5:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 4.3° C, 4.4° C, 5.8° C and 5.9° C.

GC/MS VOA

Method 8260B: The laboratory control sample (LCS) for 556601 recovered outside control limits for Chloroethane. This poor purging analyte was biased low in the LCS and was not detected in the associated samples; therefore, the data have been reported. 2412V2-21-B01 (0-1.1) (500-185945-1)

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 6010B: The laboratory control sample (LCS) for preparation batch 500-556917 and 500-557243 and analytical batch 500-557361 recovered outside control limits for the following analytes: zinc. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 6020A: The laboratory control sample (LCS) associated with batch 500-557398 recovered above the upper control limit for Thallium. The samples associated with this LCS were non-detects for the affected analyte; 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.

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 - Hampshire - WO 074

Job ID: 500-185945-1

Client Sample ID: 2412V2-21-B01 (0-1.1)

Lab Sample ID: 500-185945-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.020		0.017	0.0076	mg/Kg	1	☼	8260B	Total/NA
2-Butanone (MEK)	0.0041	J	0.0044	0.0019	mg/Kg	1	☼	8260B	Total/NA
Anthracene	0.016	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
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
Benzo[g,h,i]perylene	0.052		0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.083		0.040	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.12		0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.23		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	0.073		0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.23		0.040	0.0080	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.38	J F1 B	1.2	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.6		0.59	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	86		0.59	0.067	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.61		0.24	0.055	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.32	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	7.6		0.59	0.15	mg/Kg	2	☼	6010B	Total/NA
Copper	15		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	14000		12	6.1	mg/Kg	1	☼	6010B	Total/NA
Lead	100		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	15000		5.9	2.9	mg/Kg	1	☼	6010B	Total/NA
Calcium	23000	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	450		0.59	0.085	mg/Kg	1	☼	6010B	Total/NA
Nickel	17		0.59	0.17	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.32	J	0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	28		0.29	0.069	mg/Kg	1	☼	6010B	Total/NA
Zinc	110	F1	1.2	0.52	mg/Kg	1	☼	6010B	Total/NA
Potassium	1400	F1	29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	1200		59	8.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.80		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0027	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	230		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.032		0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.019		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	120		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	8.5		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.038		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.7		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.42	J B *	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.11	F1	0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.83	F1	0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.030		0.020	0.0067	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.27		0.27	0.14	mg/Kg	1	☼	9012B	Total/NA
pH	7.8		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185945-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-185945-1	2412V2-21-B01 (0-1.1)	Solid	08/04/20 14:50	08/04/20 17:40	

- 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 - Hampshire - WO 074

Job ID: 500-185945-1

Client Sample ID: 2412V2-21-B01 (0-1.1)

Lab Sample ID: 500-185945-1

Date Collected: 08/04/20 14:50

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 78.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.020		0.017	0.0076	mg/Kg	☼	08/05/20 08:30	08/13/20 15:55	1
Benzene	<0.00044		0.0017	0.00044	mg/Kg	☼	08/05/20 08:30	08/13/20 15:55	1
Bromodichloromethane	<0.00035		0.0017	0.00035	mg/Kg	☼	08/05/20 08:30	08/13/20 15:55	1
Bromoform	<0.00051		0.0017	0.00051	mg/Kg	☼	08/05/20 08:30	08/13/20 15:55	1
Bromomethane	<0.0016		0.0044	0.0016	mg/Kg	☼	08/05/20 08:30	08/13/20 15:55	1
2-Butanone (MEK)	0.0041	J	0.0044	0.0019	mg/Kg	☼	08/05/20 08:30	08/13/20 15:55	1
Carbon disulfide	<0.00091		0.0044	0.00091	mg/Kg	☼	08/05/20 08:30	08/13/20 15:55	1
Carbon tetrachloride	<0.00051		0.0017	0.00051	mg/Kg	☼	08/05/20 08:30	08/13/20 15:55	1
Chlorobenzene	<0.00064		0.0017	0.00064	mg/Kg	☼	08/05/20 08:30	08/13/20 15:55	1
Chloroethane	<0.0013	*	0.0044	0.0013	mg/Kg	☼	08/05/20 08:30	08/13/20 15:55	1
Chloroform	<0.00060		0.0017	0.00060	mg/Kg	☼	08/05/20 08:30	08/13/20 15:55	1
Chloromethane	<0.0018		0.0044	0.0018	mg/Kg	☼	08/05/20 08:30	08/13/20 15:55	1
cis-1,2-Dichloroethene	<0.00049		0.0017	0.00049	mg/Kg	☼	08/05/20 08:30	08/13/20 15:55	1
cis-1,3-Dichloropropene	<0.00053		0.0017	0.00053	mg/Kg	☼	08/05/20 08:30	08/13/20 15:55	1
Dibromochloromethane	<0.00057		0.0017	0.00057	mg/Kg	☼	08/05/20 08:30	08/13/20 15:55	1
1,1-Dichloroethane	<0.00060		0.0017	0.00060	mg/Kg	☼	08/05/20 08:30	08/13/20 15:55	1
1,2-Dichloroethane	<0.0014		0.0044	0.0014	mg/Kg	☼	08/05/20 08:30	08/13/20 15:55	1
1,1-Dichloroethene	<0.00060		0.0017	0.00060	mg/Kg	☼	08/05/20 08:30	08/13/20 15:55	1
1,2-Dichloropropane	<0.00045		0.0017	0.00045	mg/Kg	☼	08/05/20 08:30	08/13/20 15:55	1
1,3-Dichloropropane, Total	<0.00061		0.0017	0.00061	mg/Kg	☼	08/05/20 08:30	08/13/20 15:55	1
Ethylbenzene	<0.00083		0.0017	0.00083	mg/Kg	☼	08/05/20 08:30	08/13/20 15:55	1
2-Hexanone	<0.0014		0.0044	0.0014	mg/Kg	☼	08/05/20 08:30	08/13/20 15:55	1
Methylene Chloride	<0.0017		0.0044	0.0017	mg/Kg	☼	08/05/20 08:30	08/13/20 15:55	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0044	0.0013	mg/Kg	☼	08/05/20 08:30	08/13/20 15:55	1
Methyl tert-butyl ether	<0.00051		0.0017	0.00051	mg/Kg	☼	08/05/20 08:30	08/13/20 15:55	1
Styrene	<0.00053		0.0017	0.00053	mg/Kg	☼	08/05/20 08:30	08/13/20 15:55	1
1,1,2,2-Tetrachloroethane	<0.00056		0.0017	0.00056	mg/Kg	☼	08/05/20 08:30	08/13/20 15:55	1
Tetrachloroethene	<0.00059		0.0017	0.00059	mg/Kg	☼	08/05/20 08:30	08/13/20 15:55	1
Toluene	<0.00044		0.0017	0.00044	mg/Kg	☼	08/05/20 08:30	08/13/20 15:55	1
trans-1,2-Dichloroethene	<0.00077		0.0017	0.00077	mg/Kg	☼	08/05/20 08:30	08/13/20 15:55	1
trans-1,3-Dichloropropene	<0.00061		0.0017	0.00061	mg/Kg	☼	08/05/20 08:30	08/13/20 15:55	1
1,1,1-Trichloroethane	<0.00058		0.0017	0.00058	mg/Kg	☼	08/05/20 08:30	08/13/20 15:55	1
1,1,2-Trichloroethane	<0.00075		0.0017	0.00075	mg/Kg	☼	08/05/20 08:30	08/13/20 15:55	1
Trichloroethene	<0.00059		0.0017	0.00059	mg/Kg	☼	08/05/20 08:30	08/13/20 15:55	1
Vinyl acetate	<0.0015		0.0044	0.0015	mg/Kg	☼	08/05/20 08:30	08/13/20 15:55	1
Vinyl chloride	<0.00077		0.0017	0.00077	mg/Kg	☼	08/05/20 08:30	08/13/20 15:55	1
Xylenes, Total	<0.00056		0.0035	0.00056	mg/Kg	☼	08/05/20 08:30	08/13/20 15:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		75 - 131	08/05/20 08:30	08/13/20 15:55	1
Dibromofluoromethane	99		75 - 126	08/05/20 08:30	08/13/20 15:55	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	08/05/20 08:30	08/13/20 15:55	1
Toluene-d8 (Surr)	94		75 - 124	08/05/20 08:30	08/13/20 15:55	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	☼	08/17/20 06:17	08/18/20 13:34	1
Acenaphthylene	<0.0053		0.040	0.0053	mg/Kg	☼	08/17/20 06:17	08/18/20 13:34	1
Anthracene	0.016	J	0.040	0.0067	mg/Kg	☼	08/17/20 06:17	08/18/20 13:34	1
Benzo[a]anthracene	0.11		0.040	0.0054	mg/Kg	☼	08/17/20 06:17	08/18/20 13:34	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185945-1

Client Sample ID: 2412V2-21-B01 (0-1.1)

Lab Sample ID: 500-185945-1

Date Collected: 08/04/20 14:50

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 78.5

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	☼	08/17/20 06:17	08/18/20 13:34	1
Benzo[b]fluoranthene	0.20		0.040	0.0087	mg/Kg	☼	08/17/20 06:17	08/18/20 13:34	1
Benzo[g,h,i]perylene	0.052		0.040	0.013	mg/Kg	☼	08/17/20 06:17	08/18/20 13:34	1
Benzo[k]fluoranthene	0.083		0.040	0.012	mg/Kg	☼	08/17/20 06:17	08/18/20 13:34	1
Bis(2-chloroethoxy)methane	<0.041		0.20	0.041	mg/Kg	☼	08/17/20 06:17	08/18/20 13:34	1
Bis(2-chloroethyl)ether	<0.060		0.20	0.060	mg/Kg	☼	08/17/20 06:17	08/18/20 13:34	1
Bis(2-ethylhexyl) phthalate	<0.074		0.20	0.074	mg/Kg	☼	08/17/20 06:17	08/18/20 13:34	1
4-Bromophenyl phenyl ether	<0.053		0.20	0.053	mg/Kg	☼	08/17/20 06:17	08/18/20 13:34	1
Butyl benzyl phthalate	<0.077		0.20	0.077	mg/Kg	☼	08/17/20 06:17	08/18/20 13:34	1
Carbazole	<0.10		0.20	0.10	mg/Kg	☼	08/17/20 06:17	08/18/20 13:34	1
4-Chloroaniline	<0.19		0.81	0.19	mg/Kg	☼	08/17/20 06:17	08/18/20 13:34	1
4-Chloro-3-methylphenol	<0.14		0.40	0.14	mg/Kg	☼	08/17/20 06:17	08/18/20 13:34	1
2-Chloronaphthalene	<0.045		0.20	0.045	mg/Kg	☼	08/17/20 06:17	08/18/20 13:34	1
2-Chlorophenol	<0.069		0.20	0.069	mg/Kg	☼	08/17/20 06:17	08/18/20 13:34	1
4-Chlorophenyl phenyl ether	<0.047		0.20	0.047	mg/Kg	☼	08/17/20 06:17	08/18/20 13:34	1
Chrysene	0.12		0.040	0.011	mg/Kg	☼	08/17/20 06:17	08/18/20 13:34	1
Dibenz(a,h)anthracene	<0.0078		0.040	0.0078	mg/Kg	☼	08/17/20 06:17	08/18/20 13:34	1
Dibenzofuran	<0.047		0.20	0.047	mg/Kg	☼	08/17/20 06:17	08/18/20 13:34	1
1,2-Dichlorobenzene	<0.048		0.20	0.048	mg/Kg	☼	08/17/20 06:17	08/18/20 13:34	1
1,3-Dichlorobenzene	<0.045		0.20	0.045	mg/Kg	☼	08/17/20 06:17	08/18/20 13:34	1
1,4-Dichlorobenzene	<0.052		0.20	0.052	mg/Kg	☼	08/17/20 06:17	08/18/20 13:34	1
3,3'-Dichlorobenzidine	<0.056		0.20	0.056	mg/Kg	☼	08/17/20 06:17	08/18/20 13:34	1
2,4-Dichlorophenol	<0.096		0.40	0.096	mg/Kg	☼	08/17/20 06:17	08/18/20 13:34	1
Diethyl phthalate	<0.068		0.20	0.068	mg/Kg	☼	08/17/20 06:17	08/18/20 13:34	1
2,4-Dimethylphenol	<0.15		0.40	0.15	mg/Kg	☼	08/17/20 06:17	08/18/20 13:34	1
Dimethyl phthalate	<0.053		0.20	0.053	mg/Kg	☼	08/17/20 06:17	08/18/20 13:34	1
Di-n-butyl phthalate	<0.061		0.20	0.061	mg/Kg	☼	08/17/20 06:17	08/18/20 13:34	1
4,6-Dinitro-2-methylphenol	<0.32		0.81	0.32	mg/Kg	☼	08/17/20 06:17	08/18/20 13:34	1
2,4-Dinitrophenol	<0.71		0.81	0.71	mg/Kg	☼	08/17/20 06:17	08/18/20 13:34	1
2,4-Dinitrotoluene	<0.064		0.20	0.064	mg/Kg	☼	08/17/20 06:17	08/18/20 13:34	1
2,6-Dinitrotoluene	<0.079		0.20	0.079	mg/Kg	☼	08/17/20 06:17	08/18/20 13:34	1
Di-n-octyl phthalate	<0.066		0.20	0.066	mg/Kg	☼	08/17/20 06:17	08/18/20 13:34	1
Fluoranthene	0.23		0.040	0.0075	mg/Kg	☼	08/17/20 06:17	08/18/20 13:34	1
Fluorene	<0.0057		0.040	0.0057	mg/Kg	☼	08/17/20 06:17	08/18/20 13:34	1
Hexachlorobenzene	<0.0093		0.081	0.0093	mg/Kg	☼	08/17/20 06:17	08/18/20 13:34	1
Hexachlorobutadiene	<0.063		0.20	0.063	mg/Kg	☼	08/17/20 06:17	08/18/20 13:34	1
Hexachlorocyclopentadiene	<0.23		0.81	0.23	mg/Kg	☼	08/17/20 06:17	08/18/20 13:34	1
Hexachloroethane	<0.061		0.20	0.061	mg/Kg	☼	08/17/20 06:17	08/18/20 13:34	1
Indeno[1,2,3-cd]pyrene	0.043		0.040	0.010	mg/Kg	☼	08/17/20 06:17	08/18/20 13:34	1
Isophorone	<0.045		0.20	0.045	mg/Kg	☼	08/17/20 06:17	08/18/20 13:34	1
2-Methylnaphthalene	<0.0074		0.081	0.0074	mg/Kg	☼	08/17/20 06:17	08/18/20 13:34	1
2-Methylphenol	<0.065		0.20	0.065	mg/Kg	☼	08/17/20 06:17	08/18/20 13:34	1
3 & 4 Methylphenol	<0.067		0.20	0.067	mg/Kg	☼	08/17/20 06:17	08/18/20 13:34	1
Naphthalene	<0.0062		0.040	0.0062	mg/Kg	☼	08/17/20 06:17	08/18/20 13:34	1
2-Nitroaniline	<0.054		0.20	0.054	mg/Kg	☼	08/17/20 06:17	08/18/20 13:34	1
3-Nitroaniline	<0.12		0.40	0.12	mg/Kg	☼	08/17/20 06:17	08/18/20 13:34	1
4-Nitroaniline	<0.17		0.40	0.17	mg/Kg	☼	08/17/20 06:17	08/18/20 13:34	1
Nitrobenzene	<0.010		0.040	0.010	mg/Kg	☼	08/17/20 06:17	08/18/20 13:34	1
2-Nitrophenol	<0.095		0.40	0.095	mg/Kg	☼	08/17/20 06:17	08/18/20 13:34	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185945-1

Client Sample ID: 2412V2-21-B01 (0-1.1)

Lab Sample ID: 500-185945-1

Date Collected: 08/04/20 14:50

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 78.5

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	☼	08/17/20 06:17	08/18/20 13:34	1
N-Nitrosodi-n-propylamine	<0.049		0.081	0.049	mg/Kg	☼	08/17/20 06:17	08/18/20 13:34	1
N-Nitrosodiphenylamine	<0.048		0.20	0.048	mg/Kg	☼	08/17/20 06:17	08/18/20 13:34	1
2,2'-oxybis[1-chloropropane]	<0.047		0.20	0.047	mg/Kg	☼	08/17/20 06:17	08/18/20 13:34	1
Pentachlorophenol	<0.65		0.81	0.65	mg/Kg	☼	08/17/20 06:17	08/18/20 13:34	1
Phenanthrene	0.073		0.040	0.0056	mg/Kg	☼	08/17/20 06:17	08/18/20 13:34	1
Phenol	<0.090		0.20	0.090	mg/Kg	☼	08/17/20 06:17	08/18/20 13:34	1
Pyrene	0.23		0.040	0.0080	mg/Kg	☼	08/17/20 06:17	08/18/20 13:34	1
1,2,4-Trichlorobenzene	<0.043		0.20	0.043	mg/Kg	☼	08/17/20 06:17	08/18/20 13:34	1
2,4,5-Trichlorophenol	<0.092		0.40	0.092	mg/Kg	☼	08/17/20 06:17	08/18/20 13:34	1
2,4,6-Trichlorophenol	<0.14		0.40	0.14	mg/Kg	☼	08/17/20 06:17	08/18/20 13:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	79		43 - 145	08/17/20 06:17	08/18/20 13:34	1
2-Fluorophenol	79		31 - 166	08/17/20 06:17	08/18/20 13:34	1
Nitrobenzene-d5	64		37 - 147	08/17/20 06:17	08/18/20 13:34	1
Phenol-d5	64		30 - 153	08/17/20 06:17	08/18/20 13:34	1
Terphenyl-d14	119		42 - 157	08/17/20 06:17	08/18/20 13:34	1
2,4,6-Tribromophenol	105		31 - 143	08/17/20 06:17	08/18/20 13:34	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.38	J F1 B	1.2	0.23	mg/Kg	☼	08/11/20 17:27	08/12/20 17:37	1
Arsenic	4.6		0.59	0.20	mg/Kg	☼	08/11/20 17:27	08/12/20 17:37	1
Barium	86		0.59	0.067	mg/Kg	☼	08/11/20 17:27	08/12/20 17:37	1
Beryllium	0.61		0.24	0.055	mg/Kg	☼	08/11/20 17:27	08/12/20 17:37	1
Cadmium	0.32	B	0.12	0.021	mg/Kg	☼	08/11/20 17:27	08/12/20 17:37	1
Chromium	20	B	0.59	0.29	mg/Kg	☼	08/11/20 17:27	08/12/20 17:37	1
Cobalt	7.6		0.59	0.15	mg/Kg	☼	08/11/20 17:27	08/13/20 00:06	2
Copper	15		0.59	0.16	mg/Kg	☼	08/11/20 17:27	08/12/20 17:37	1
Iron	14000		12	6.1	mg/Kg	☼	08/11/20 17:27	08/12/20 17:37	1
Lead	100		0.29	0.14	mg/Kg	☼	08/11/20 17:27	08/12/20 17:37	1
Magnesium	15000		5.9	2.9	mg/Kg	☼	08/11/20 17:27	08/12/20 17:37	1
Calcium	23000	B	12	2.0	mg/Kg	☼	08/11/20 17:27	08/12/20 17:37	1
Manganese	450		0.59	0.085	mg/Kg	☼	08/11/20 17:27	08/12/20 17:37	1
Nickel	17		0.59	0.17	mg/Kg	☼	08/11/20 17:27	08/12/20 17:37	1
Selenium	<0.35	F1	0.59	0.35	mg/Kg	☼	08/11/20 17:27	08/12/20 17:37	1
Silver	<0.076	F1	0.29	0.076	mg/Kg	☼	08/11/20 17:27	08/12/20 17:37	1
Thallium	0.32	J	0.59	0.29	mg/Kg	☼	08/11/20 17:27	08/12/20 17:37	1
Vanadium	28		0.29	0.069	mg/Kg	☼	08/11/20 17:27	08/12/20 17:37	1
Zinc	110	F1	1.2	0.52	mg/Kg	☼	08/11/20 17:27	08/12/20 17:37	1
Potassium	1400	F1	29	10	mg/Kg	☼	08/11/20 17:27	08/12/20 17:37	1
Sodium	1200		59	8.7	mg/Kg	☼	08/11/20 17:27	08/12/20 17:37	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/17/20 17:19	08/18/20 06:06	1
Barium	0.80		0.50	0.050	mg/L		08/17/20 17:19	08/18/20 06:06	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/17/20 17:19	08/18/20 06:06	1
Cadmium	0.0027	J	0.0050	0.0020	mg/L		08/17/20 17:19	08/18/20 06:06	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185945-1

Client Sample ID: 2412V2-21-B01 (0-1.1)

Lab Sample ID: 500-185945-1

Date Collected: 08/04/20 14:50

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 78.5

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		08/17/20 17:19	08/18/20 06:06	1
Chromium	<0.010		0.025	0.010	mg/L		08/17/20 17:19	08/18/20 06:06	1
Cobalt	0.032		0.025	0.010	mg/L		08/17/20 17:19	08/18/20 06:06	1
Copper	<0.010		0.025	0.010	mg/L		08/17/20 17:19	08/18/20 06:06	1
Iron	<0.20		0.40	0.20	mg/L		08/17/20 17:19	08/18/20 06:06	1
Lead	0.019		0.0075	0.0075	mg/L		08/17/20 17:19	08/18/20 06:06	1
Magnesium	120		2.5	0.50	mg/L		08/17/20 17:19	08/18/20 06:06	1
Manganese	8.5		0.025	0.010	mg/L		08/17/20 17:19	08/18/20 06:06	1
Nickel	0.038		0.025	0.010	mg/L		08/17/20 17:19	08/18/20 06:06	1
Potassium	2.7		2.5	0.50	mg/L		08/17/20 17:19	08/18/20 06:06	1
Selenium	<0.020		0.050	0.020	mg/L		08/17/20 17:19	08/18/20 06:06	1
Silver	<0.010		0.025	0.010	mg/L		08/17/20 17:19	08/18/20 06:06	1
Vanadium	<0.010		0.025	0.010	mg/L		08/17/20 17:19	08/18/20 06:06	1
Zinc	0.42	J B *	0.50	0.020	mg/L		08/17/20 17:19	08/18/20 06:06	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.11	F1	0.0075	0.0075	mg/L		08/17/20 17:16	08/18/20 10:59	1
Manganese	0.83	F1	0.025	0.010	mg/L		08/17/20 17:16	08/18/20 10:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/17/20 17:19	08/18/20 10:47	1
Thallium	<0.0020	*	0.0020	0.0020	mg/L		08/17/20 17:19	08/18/20 10:47	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/18/20 09:55	08/19/20 08:30	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.020	0.0067	mg/Kg	☼	08/11/20 14:25	08/12/20 08:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.27		0.27	0.14	mg/Kg	☼	08/14/20 13:10	08/17/20 10:27	1
pH	7.8		0.2	0.2	SU			08/06/20 21:05	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185945-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
*	LCS or LCSD 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.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185945-1

GC/MS VOA

Analysis Batch: 556601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185945-1	2412V2-21-B01 (0-1.1)	Total/NA	Solid	8260B	556637
MB 500-556601/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-556601/4	Lab Control Sample	Total/NA	Solid	8260B	
LCS 500-556601/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

Prep Batch: 556637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185945-1	2412V2-21-B01 (0-1.1)	Total/NA	Solid	5035	

GC/MS Semi VOA

Prep Batch: 557088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185945-1	2412V2-21-B01 (0-1.1)	Total/NA	Solid	3541	
MB 500-557088/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-557088/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 557246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-557088/1-A	Method Blank	Total/NA	Solid	8270D	557088
LCS 500-557088/2-A	Lab Control Sample	Total/NA	Solid	8270D	557088

Analysis Batch: 557370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185945-1	2412V2-21-B01 (0-1.1)	Total/NA	Solid	8270D	557088

Metals

Prep Batch: 556263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185945-1	2412V2-21-B01 (0-1.1)	Total/NA	Solid	7471B	
MB 500-556263/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-556263/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Prep Batch: 556317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185945-1	2412V2-21-B01 (0-1.1)	Total/NA	Solid	3050B	
MB 500-556317/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-556317/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-185945-1 MS	2412V2-21-B01 (0-1.1)	Total/NA	Solid	3050B	
500-185945-1 MSD	2412V2-21-B01 (0-1.1)	Total/NA	Solid	3050B	
500-185945-1 DU	2412V2-21-B01 (0-1.1)	Total/NA	Solid	3050B	

Analysis Batch: 556451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185945-1	2412V2-21-B01 (0-1.1)	Total/NA	Solid	7471B	556263
MB 500-556263/12-A	Method Blank	Total/NA	Solid	7471B	556263
LCS 500-556263/13-A	Lab Control Sample	Total/NA	Solid	7471B	556263

Analysis Batch: 556556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185945-1	2412V2-21-B01 (0-1.1)	Total/NA	Solid	6010B	556317

Eurofins TestAmerica, Chicago

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185945-1

Metals (Continued)

Analysis Batch: 556556 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-556317/1-A	Method Blank	Total/NA	Solid	6010B	556317
LCS 500-556317/2-A	Lab Control Sample	Total/NA	Solid	6010B	556317
500-185945-1 MS	2412V2-21-B01 (0-1.1)	Total/NA	Solid	6010B	556317
500-185945-1 MSD	2412V2-21-B01 (0-1.1)	Total/NA	Solid	6010B	556317
500-185945-1 DU	2412V2-21-B01 (0-1.1)	Total/NA	Solid	6010B	556317

Analysis Batch: 556572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185945-1	2412V2-21-B01 (0-1.1)	Total/NA	Solid	6010B	556317
500-185945-1 MS	2412V2-21-B01 (0-1.1)	Total/NA	Solid	6010B	556317
500-185945-1 MSD	2412V2-21-B01 (0-1.1)	Total/NA	Solid	6010B	556317
500-185945-1 DU	2412V2-21-B01 (0-1.1)	Total/NA	Solid	6010B	556317

Leach Batch: 556906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185945-1	2412V2-21-B01 (0-1.1)	SPLP East	Solid	1312	
LB 500-556906/1-B	Method Blank	SPLP East	Solid	1312	
500-185945-1 MS	2412V2-21-B01 (0-1.1)	SPLP East	Solid	1312	
500-185945-1 DU	2412V2-21-B01 (0-1.1)	SPLP East	Solid	1312	

Leach Batch: 556917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185945-1	2412V2-21-B01 (0-1.1)	TCLP	Solid	1311	
LB 500-556917/1-B	Method Blank	TCLP	Solid	1311	
LB 500-556917/2-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 557241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185945-1	2412V2-21-B01 (0-1.1)	SPLP East	Solid	3010A	556906
LB 500-556906/1-B	Method Blank	SPLP East	Solid	3010A	556906
LCS 500-557241/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-185945-1 MS	2412V2-21-B01 (0-1.1)	SPLP East	Solid	3010A	556906
500-185945-1 DU	2412V2-21-B01 (0-1.1)	SPLP East	Solid	3010A	556906

Prep Batch: 557243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185945-1	2412V2-21-B01 (0-1.1)	TCLP	Solid	3010A	556917
LB 500-556917/1-B	Method Blank	TCLP	Solid	3010A	556917
LCS 500-557243/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 557361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185945-1	2412V2-21-B01 (0-1.1)	TCLP	Solid	6010B	557243
LB 500-556917/1-B	Method Blank	TCLP	Solid	6010B	557243
LCS 500-557243/2-A	Lab Control Sample	Total/NA	Solid	6010B	557243

Prep Batch: 557383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185945-1	2412V2-21-B01 (0-1.1)	TCLP	Solid	7470A	556917
LB 500-556917/2-B	Method Blank	TCLP	Solid	7470A	556917
MB 500-557383/12-A	Method Blank	Total/NA	Solid	7470A	

Eurofins TestAmerica, Chicago

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185945-1

Metals (Continued)

Prep Batch: 557383 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-557383/14-A	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 557398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185945-1	2412V2-21-B01 (0-1.1)	TCLP	Solid	6020A	557243
LB 500-556917/1-B	Method Blank	TCLP	Solid	6020A	557243
LCS 500-557243/2-A	Lab Control Sample	Total/NA	Solid	6020A	557243

Analysis Batch: 557412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185945-1	2412V2-21-B01 (0-1.1)	SPLP East	Solid	6010B	557241
LB 500-556906/1-B	Method Blank	SPLP East	Solid	6010B	557241
LCS 500-557241/2-A	Lab Control Sample	Total/NA	Solid	6010B	557241
500-185945-1 MS	2412V2-21-B01 (0-1.1)	SPLP East	Solid	6010B	557241
500-185945-1 DU	2412V2-21-B01 (0-1.1)	SPLP East	Solid	6010B	557241

Analysis Batch: 557609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185945-1	2412V2-21-B01 (0-1.1)	TCLP	Solid	7470A	557383
LB 500-556917/2-B	Method Blank	TCLP	Solid	7470A	557383
MB 500-557383/12-A	Method Blank	Total/NA	Solid	7470A	557383
LCS 500-557383/14-A	Lab Control Sample	Total/NA	Solid	7470A	557383

General Chemistry

Analysis Batch: 555682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185945-1	2412V2-21-B01 (0-1.1)	Total/NA	Solid	Moisture	

Analysis Batch: 555814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185945-1	2412V2-21-B01 (0-1.1)	Total/NA	Solid	9045D	
LCS 500-555814/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-555814/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Prep Batch: 556845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185945-1	2412V2-21-B01 (0-1.1)	Total/NA	Solid	9010C	
MB 500-556845/1-A	Method Blank	Total/NA	Solid	9010C	
HLCS 500-556845/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 500-556845/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 500-556845/4-A	Lab Control Sample	Total/NA	Solid	9010C	

Analysis Batch: 557233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185945-1	2412V2-21-B01 (0-1.1)	Total/NA	Solid	9012B	556845
MB 500-556845/1-A	Method Blank	Total/NA	Solid	9012B	556845
HLCS 500-556845/2-A	Lab Control Sample	Total/NA	Solid	9012B	556845
LCS 500-556845/3-A	Lab Control Sample	Total/NA	Solid	9012B	556845
LLCS 500-556845/4-A	Lab Control Sample	Total/NA	Solid	9012B	556845

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185945-1

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 (75-131)	DBFM (75-126)	DCA (70-134)	TOL (75-124)
500-185945-1	2412V2-21-B01 (0-1.1)	100	99	102	94
LCS 500-556601/4	Lab Control Sample	88	96	91	95
LCSD 500-556601/5	Lab Control Sample Dup	89	95	93	96
MB 500-556601/7	Method Blank	95	97	97	93

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 (43-145)	2FP (31-166)	NBZ (37-147)	PHL (30-153)	TPHL (42-157)	TBP (31-143)
500-185945-1	2412V2-21-B01 (0-1.1)	79	79	64	64	119	105
LCS 500-557088/2-A	Lab Control Sample	98	105	107	92	114	103
MB 500-557088/1-A	Method Blank	91	102	102	88	117	94

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 - Hampshire - WO 074

Job ID: 500-185945-1

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

Lab Sample ID: MB 500-556601/7
Matrix: Solid
Analysis Batch: 556601

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.0087		0.020	0.0087	mg/Kg			08/13/20 10:22	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg			08/13/20 10:22	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg			08/13/20 10:22	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg			08/13/20 10:22	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg			08/13/20 10:22	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			08/13/20 10:22	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg			08/13/20 10:22	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg			08/13/20 10:22	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg			08/13/20 10:22	1
Chloroethane	<0.0015		0.0050	0.0015	mg/Kg			08/13/20 10:22	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg			08/13/20 10:22	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg			08/13/20 10:22	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg			08/13/20 10:22	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg			08/13/20 10:22	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg			08/13/20 10:22	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg			08/13/20 10:22	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg			08/13/20 10:22	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg			08/13/20 10:22	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			08/13/20 10:22	1
1,3-Dichloropropene, Total	<0.00070		0.0020	0.00070	mg/Kg			08/13/20 10:22	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg			08/13/20 10:22	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg			08/13/20 10:22	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg			08/13/20 10:22	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg			08/13/20 10:22	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg			08/13/20 10:22	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg			08/13/20 10:22	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg			08/13/20 10:22	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg			08/13/20 10:22	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg			08/13/20 10:22	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg			08/13/20 10:22	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg			08/13/20 10:22	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg			08/13/20 10:22	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg			08/13/20 10:22	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg			08/13/20 10:22	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg			08/13/20 10:22	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg			08/13/20 10:22	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg			08/13/20 10:22	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	95		75 - 131		08/13/20 10:22	1
Dibromofluoromethane	97		75 - 126		08/13/20 10:22	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134		08/13/20 10:22	1
Toluene-d8 (Surr)	93		75 - 124		08/13/20 10:22	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185945-1

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

Lab Sample ID: LCS 500-556601/4

Matrix: Solid

Analysis Batch: 556601

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	0.0390		mg/Kg		78	40 - 150
Benzene	0.0500	0.0457		mg/Kg		91	70 - 125
Bromodichloromethane	0.0500	0.0474		mg/Kg		95	67 - 129
Bromoform	0.0500	0.0485		mg/Kg		97	68 - 136
Bromomethane	0.0500	0.0498		mg/Kg		100	70 - 130
2-Butanone (MEK)	0.0500	0.0326		mg/Kg		65	47 - 138
Carbon disulfide	0.0500	0.0458		mg/Kg		92	70 - 129
Carbon tetrachloride	0.0500	0.0519		mg/Kg		104	75 - 125
Chlorobenzene	0.0500	0.0480		mg/Kg		96	50 - 150
Chloroethane	0.0500	0.0363	*	mg/Kg		73	75 - 125
Chloroform	0.0500	0.0475		mg/Kg		95	57 - 135
Chloromethane	0.0500	0.0362		mg/Kg		72	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0475		mg/Kg		95	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0460		mg/Kg		92	70 - 125
Dibromochloromethane	0.0500	0.0498		mg/Kg		100	69 - 125
1,1-Dichloroethane	0.0500	0.0434		mg/Kg		87	70 - 125
1,2-Dichloroethane	0.0500	0.0449		mg/Kg		90	70 - 130
1,1-Dichloroethene	0.0500	0.0481		mg/Kg		96	70 - 120
1,2-Dichloropropane	0.0500	0.0412		mg/Kg		82	70 - 125
Ethylbenzene	0.0500	0.0493		mg/Kg		99	61 - 136
2-Hexanone	0.0500	0.0333		mg/Kg		67	48 - 146
Methylene Chloride	0.0500	0.0456		mg/Kg		91	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0338		mg/Kg		68	50 - 148
Methyl tert-butyl ether	0.0500	0.0473		mg/Kg		95	50 - 140
Styrene	0.0500	0.0495		mg/Kg		99	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0412		mg/Kg		82	70 - 122
Tetrachloroethene	0.0500	0.0520		mg/Kg		104	70 - 124
Toluene	0.0500	0.0464		mg/Kg		93	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0499		mg/Kg		100	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0465		mg/Kg		93	70 - 125
1,1,1-Trichloroethane	0.0500	0.0515		mg/Kg		103	70 - 128
1,1,2-Trichloroethane	0.0500	0.0455		mg/Kg		91	70 - 125
Trichloroethene	0.0500	0.0509		mg/Kg		102	70 - 125
Vinyl acetate	0.0500	0.0396		mg/Kg		79	40 - 153
Vinyl chloride	0.0500	0.0424		mg/Kg		85	70 - 125
Xylenes, Total	0.100	0.0981		mg/Kg		98	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	88		75 - 131
Dibromofluoromethane	96		75 - 126
1,2-Dichloroethane-d4 (Surr)	91		70 - 134
Toluene-d8 (Surr)	95		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185945-1

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

Lab Sample ID: LCSD 500-556601/5

Matrix: Solid

Analysis Batch: 556601

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	0.0399		mg/Kg		80	40 - 150	2	30
Benzene	0.0500	0.0439		mg/Kg		88	70 - 125	4	30
Bromodichloromethane	0.0500	0.0461		mg/Kg		92	67 - 129	3	30
Bromoform	0.0500	0.0475		mg/Kg		95	68 - 136	2	30
Bromomethane	0.0500	0.0489		mg/Kg		98	70 - 130	2	30
2-Butanone (MEK)	0.0500	0.0361		mg/Kg		72	47 - 138	10	30
Carbon disulfide	0.0500	0.0432		mg/Kg		86	70 - 129	6	30
Carbon tetrachloride	0.0500	0.0485		mg/Kg		97	75 - 125	7	30
Chlorobenzene	0.0500	0.0460		mg/Kg		92	50 - 150	4	30
Chloroethane	0.0500	0.0419		mg/Kg		84	75 - 125	14	30
Chloroform	0.0500	0.0453		mg/Kg		91	57 - 135	5	30
Chloromethane	0.0500	0.0361		mg/Kg		72	70 - 125	0	30
cis-1,2-Dichloroethene	0.0500	0.0447		mg/Kg		89	70 - 125	6	30
cis-1,3-Dichloropropene	0.0500	0.0458		mg/Kg		92	70 - 125	0	30
Dibromochloromethane	0.0500	0.0493		mg/Kg		99	69 - 125	1	30
1,1-Dichloroethane	0.0500	0.0408		mg/Kg		82	70 - 125	6	30
1,2-Dichloroethane	0.0500	0.0438		mg/Kg		88	70 - 130	2	30
1,1-Dichloroethene	0.0500	0.0446		mg/Kg		89	70 - 120	8	30
1,2-Dichloropropane	0.0500	0.0402		mg/Kg		80	70 - 125	3	30
Ethylbenzene	0.0500	0.0473		mg/Kg		95	61 - 136	4	30
2-Hexanone	0.0500	0.0351		mg/Kg		70	48 - 146	5	30
Methylene Chloride	0.0500	0.0421		mg/Kg		84	70 - 126	8	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0358		mg/Kg		72	50 - 148	6	30
Methyl tert-butyl ether	0.0500	0.0450		mg/Kg		90	50 - 140	5	30
Styrene	0.0500	0.0473		mg/Kg		95	70 - 125	4	30
1,1,1,2-Tetrachloroethane	0.0500	0.0416		mg/Kg		83	70 - 122	1	30
Tetrachloroethene	0.0500	0.0505		mg/Kg		101	70 - 124	3	30
Toluene	0.0500	0.0450		mg/Kg		90	70 - 125	3	30
trans-1,2-Dichloroethene	0.0500	0.0454		mg/Kg		91	70 - 125	10	30
trans-1,3-Dichloropropene	0.0500	0.0462		mg/Kg		92	70 - 125	1	30
1,1,1-Trichloroethane	0.0500	0.0475		mg/Kg		95	70 - 128	8	30
1,1,2-Trichloroethane	0.0500	0.0449		mg/Kg		90	70 - 125	1	30
Trichloroethene	0.0500	0.0493		mg/Kg		99	70 - 125	3	30
Vinyl acetate	0.0500	0.0414		mg/Kg		83	40 - 153	4	30
Vinyl chloride	0.0500	0.0424		mg/Kg		85	70 - 125	0	30
Xylenes, Total	0.100	0.0934		mg/Kg		93	53 - 147	5	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	89		75 - 131
Dibromofluoromethane	95		75 - 126
1,2-Dichloroethane-d4 (Surr)	93		70 - 134
Toluene-d8 (Surr)	96		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185945-1

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

Lab Sample ID: MB 500-557088/1-A
Matrix: Solid
Analysis Batch: 557246

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 557088

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0060		0.033	0.0060	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
Acenaphthylene	<0.0044		0.033	0.0044	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
Anthracene	<0.0056		0.033	0.0056	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
Benzo[a]anthracene	<0.0045		0.033	0.0045	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
Benzo[a]pyrene	<0.0064		0.033	0.0064	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
Benzo[b]fluoranthene	<0.0072		0.033	0.0072	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
Benzo[g,h,i]perylene	<0.011		0.033	0.011	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
Benzo[k]fluoranthene	<0.0098		0.033	0.0098	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
Bis(2-chloroethoxy)methane	<0.034		0.17	0.034	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
Bis(2-chloroethyl)ether	<0.050		0.17	0.050	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
Bis(2-ethylhexyl) phthalate	<0.061		0.17	0.061	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
4-Bromophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
Butyl benzyl phthalate	<0.063		0.17	0.063	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
Carbazole	<0.083		0.17	0.083	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
4-Chloroaniline	<0.16		0.67	0.16	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
4-Chloro-3-methylphenol	<0.11		0.33	0.11	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
2-Chloronaphthalene	<0.037		0.17	0.037	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
2-Chlorophenol	<0.057		0.17	0.057	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
4-Chlorophenyl phenyl ether	<0.039		0.17	0.039	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
Chrysene	<0.0091		0.033	0.0091	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
Dibenz(a,h)anthracene	<0.0064		0.033	0.0064	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
Dibenzofuran	<0.039		0.17	0.039	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
1,2-Dichlorobenzene	<0.040		0.17	0.040	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
1,3-Dichlorobenzene	<0.037		0.17	0.037	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
1,4-Dichlorobenzene	<0.043		0.17	0.043	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
3,3'-Dichlorobenzidine	<0.047		0.17	0.047	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
2,4-Dichlorophenol	<0.079		0.33	0.079	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
Diethyl phthalate	<0.056		0.17	0.056	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
2,4-Dimethylphenol	<0.13		0.33	0.13	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
Dimethyl phthalate	<0.043		0.17	0.043	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
Di-n-butyl phthalate	<0.051		0.17	0.051	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
4,6-Dinitro-2-methylphenol	<0.27		0.67	0.27	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
2,4-Dinitrophenol	<0.59		0.67	0.59	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
2,4-Dinitrotoluene	<0.053		0.17	0.053	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
2,6-Dinitrotoluene	<0.065		0.17	0.065	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
Di-n-octyl phthalate	<0.054		0.17	0.054	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
Fluoranthene	<0.0062		0.033	0.0062	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
Fluorene	<0.0047		0.033	0.0047	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
Hexachlorobenzene	<0.0077		0.067	0.0077	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
Hexachlorobutadiene	<0.052		0.17	0.052	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
Hexachlorocyclopentadiene	<0.19		0.67	0.19	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
Hexachloroethane	<0.051		0.17	0.051	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
Indeno[1,2,3-cd]pyrene	<0.0086		0.033	0.0086	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
Isophorone	<0.037		0.17	0.037	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
2-Methylnaphthalene	<0.0061		0.067	0.0061	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
2-Methylphenol	<0.053		0.17	0.053	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
3 & 4 Methylphenol	<0.055		0.17	0.055	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
Naphthalene	<0.0051		0.033	0.0051	mg/Kg		08/17/20 06:17	08/17/20 20:54	1

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185945-1

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

Lab Sample ID: MB 500-557088/1-A

Matrix: Solid

Analysis Batch: 557246

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 557088

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2-Nitroaniline	<0.045		0.17	0.045	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
3-Nitroaniline	<0.10		0.33	0.10	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
4-Nitroaniline	<0.14		0.33	0.14	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
Nitrobenzene	<0.0083		0.033	0.0083	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
2-Nitrophenol	<0.079		0.33	0.079	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
4-Nitrophenol	<0.32		0.67	0.32	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
N-Nitrosodi-n-propylamine	<0.041		0.067	0.041	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
N-Nitrosodiphenylamine	<0.039		0.17	0.039	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
2,2'-oxybis[1-chloropropane]	<0.039		0.17	0.039	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
Pentachlorophenol	<0.53		0.67	0.53	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
Phenanthrene	<0.0046		0.033	0.0046	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
Phenol	<0.074		0.17	0.074	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
Pyrene	<0.0066		0.033	0.0066	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
1,2,4-Trichlorobenzene	<0.036		0.17	0.036	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
2,4,5-Trichlorophenol	<0.076		0.33	0.076	mg/Kg		08/17/20 06:17	08/17/20 20:54	1
2,4,6-Trichlorophenol	<0.11		0.33	0.11	mg/Kg		08/17/20 06:17	08/17/20 20:54	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorobiphenyl	91		43 - 145	08/17/20 06:17	08/17/20 20:54	1
2-Fluorophenol	102		31 - 166	08/17/20 06:17	08/17/20 20:54	1
Nitrobenzene-d5	102		37 - 147	08/17/20 06:17	08/17/20 20:54	1
Phenol-d5	88		30 - 153	08/17/20 06:17	08/17/20 20:54	1
Terphenyl-d14	117		42 - 157	08/17/20 06:17	08/17/20 20:54	1
2,4,6-Tribromophenol	94		31 - 143	08/17/20 06:17	08/17/20 20:54	1

Lab Sample ID: LCS 500-557088/2-A

Matrix: Solid

Analysis Batch: 557246

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 557088

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthylene	1.33	1.35		mg/Kg		101	68 - 120
Anthracene	1.33	1.13		mg/Kg		84	70 - 114
Benzo[a]anthracene	1.33	1.31		mg/Kg		98	67 - 122
Benzo[a]pyrene	1.33	1.30		mg/Kg		98	65 - 133
Benzo[b]fluoranthene	1.33	1.20		mg/Kg		90	69 - 129
Benzo[g,h,i]perylene	1.33	1.30		mg/Kg		98	72 - 131
Benzo[k]fluoranthene	1.33	1.33		mg/Kg		100	68 - 127
Bis(2-chloroethoxy)methane	1.33	1.24		mg/Kg		93	60 - 112
Bis(2-chloroethyl)ether	1.33	1.11		mg/Kg		83	55 - 111
Bis(2-ethylhexyl) phthalate	1.33	1.15		mg/Kg		86	72 - 131
4-Bromophenyl phenyl ether	1.33	1.32		mg/Kg		99	68 - 118
Butyl benzyl phthalate	1.33	1.25		mg/Kg		94	71 - 129
Carbazole	1.33	1.38		mg/Kg		103	65 - 142
4-Chloroaniline	1.33	1.10		mg/Kg		83	30 - 150
4-Chloro-3-methylphenol	1.33	1.17		mg/Kg		88	65 - 122
2-Chloronaphthalene	1.33	1.33		mg/Kg		100	69 - 114
2-Chlorophenol	1.33	1.03		mg/Kg		77	64 - 110

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185945-1

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

Lab Sample ID: LCS 500-557088/2-A

Matrix: Solid

Analysis Batch: 557246

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 557088

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorophenyl phenyl ether	1.33	1.30		mg/Kg		98	62 - 119
Chrysene	1.33	1.31		mg/Kg		98	63 - 120
Dibenz(a,h)anthracene	1.33	1.36		mg/Kg		102	64 - 131
Dibenzofuran	1.33	1.32		mg/Kg		99	66 - 115
1,2-Dichlorobenzene	1.33	1.24		mg/Kg		93	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	0.719		mg/Kg		54	35 - 128
2,4-Dichlorophenol	1.33	1.10		mg/Kg		82	58 - 120
Diethyl phthalate	1.33	1.23		mg/Kg		92	58 - 120
2,4-Dimethylphenol	1.33	1.23		mg/Kg		92	60 - 110
Dimethyl phthalate	1.33	1.35		mg/Kg		101	69 - 116
Di-n-butyl phthalate	1.33	1.27		mg/Kg		95	65 - 120
4,6-Dinitro-2-methylphenol	2.67	1.98		mg/Kg		74	10 - 110
2,4-Dinitrophenol	2.67	1.44		mg/Kg		54	10 - 100
2,4-Dinitrotoluene	1.33	1.14		mg/Kg		85	69 - 124
2,6-Dinitrotoluene	1.33	1.35		mg/Kg		101	70 - 123
Di-n-octyl phthalate	1.33	1.16		mg/Kg		87	68 - 134
Fluoranthene	1.33	1.15		mg/Kg		86	62 - 120
Fluorene	1.33	1.35		mg/Kg		101	62 - 120
Hexachlorobenzene	1.33	1.31		mg/Kg		98	63 - 124
Hexachlorobutadiene	1.33	1.30		mg/Kg		97	56 - 120
Hexachlorocyclopentadiene	1.33	0.623	J	mg/Kg		47	10 - 133
Hexachloroethane	1.33	1.16		mg/Kg		87	60 - 114
Indeno[1,2,3-cd]pyrene	1.33	1.30		mg/Kg		98	68 - 130
Isophorone	1.33	1.44		mg/Kg		108	55 - 110
2-Methylnaphthalene	1.33	1.25		mg/Kg		94	69 - 112
2-Methylphenol	1.33	1.33		mg/Kg		100	60 - 120
3 & 4 Methylphenol	1.33	1.28		mg/Kg		96	57 - 120
Naphthalene	1.33	1.23		mg/Kg		93	63 - 110
2-Nitroaniline	1.33	1.25		mg/Kg		94	57 - 124
3-Nitroaniline	1.33	0.929		mg/Kg		70	40 - 122
4-Nitroaniline	1.33	1.04		mg/Kg		78	60 - 160
Nitrobenzene	1.33	1.28		mg/Kg		96	60 - 116
2-Nitrophenol	1.33	1.27		mg/Kg		96	60 - 120
4-Nitrophenol	2.67	2.17		mg/Kg		81	30 - 122
N-Nitrosodi-n-propylamine	1.33	1.23		mg/Kg		92	56 - 118
N-Nitrosodiphenylamine	1.33	1.34		mg/Kg		100	65 - 112
2,2'-oxybis[1-chloropropane]	1.33	1.09		mg/Kg		82	40 - 124
Pentachlorophenol	2.67	1.70		mg/Kg		64	13 - 112
Phenanthrene	1.33	1.16		mg/Kg		87	62 - 120
Phenol	1.33	1.17		mg/Kg		88	56 - 122
Pyrene	1.33	1.40		mg/Kg		105	61 - 128
1,2,4-Trichlorobenzene	1.33	1.25		mg/Kg		93	66 - 117
2,4,5-Trichlorophenol	1.33	1.30		mg/Kg		97	50 - 120
2,4,6-Trichlorophenol	1.33	1.30		mg/Kg		98	57 - 120

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185945-1

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

Lab Sample ID: LCS 500-557088/2-A
Matrix: Solid
Analysis Batch: 557246

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 557088

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	98		43 - 145
2-Fluorophenol	105		31 - 166
Nitrobenzene-d5	107		37 - 147
Phenol-d5	92		30 - 153
Terphenyl-d14	114		42 - 157
2,4,6-Tribromophenol	103		31 - 143

Method: 6010B - SPLP Metals

Lab Sample ID: LCS 500-557241/2-A
Matrix: Solid
Analysis Batch: 557412

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 557241

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	
Lead	0.100	0.0988		mg/L		99	80 - 120	
Manganese	0.500	0.495		mg/L		99	80 - 120	

Lab Sample ID: LB 500-556906/1-B
Matrix: Solid
Analysis Batch: 557412

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 557241

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	<0.0075		0.0075	0.0075	mg/L		08/17/20 17:16	08/18/20 10:11	1
Manganese	<0.010		0.025	0.010	mg/L		08/17/20 17:16	08/18/20 10:11	1

Lab Sample ID: 500-185945-1 MS
Matrix: Solid
Analysis Batch: 557412

Client Sample ID: 2412V2-21-B01 (0-1.1)
Prep Type: SPLP East
Prep Batch: 557241

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec.	
				Result	Qualifier				Limits	
Lead	0.11	F1	0.100	0.684	F1	mg/L		576	75 - 125	
Manganese	0.83	F1	0.500	2.10	F1	mg/L		253	75 - 125	

Lab Sample ID: 500-185945-1 DU
Matrix: Solid
Analysis Batch: 557412

Client Sample ID: 2412V2-21-B01 (0-1.1)
Prep Type: SPLP East
Prep Batch: 557241

Analyte	Sample Result	Sample Qualifier	DU DU		Unit	D	RPD	RPD	
			Result	Qualifier				RPD	Limit
Lead	0.11	F1	0.543	F3	mg/L		134	20	
Manganese	0.83	F1	1.57	F3	mg/L		61	20	

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-556317/1-A
Matrix: Solid
Analysis Batch: 556556

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 556317

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	0.463	J	2.0	0.39	mg/Kg		08/11/20 17:27	08/12/20 17:21	1
Arsenic	<0.34		1.0	0.34	mg/Kg		08/11/20 17:27	08/12/20 17:21	1

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185945-1

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

Lab Sample ID: MB 500-556317/1-A
Matrix: Solid
Analysis Batch: 556556

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 556317

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Barium	<0.11		1.0	0.11	mg/Kg		08/11/20 17:27	08/12/20 17:21	1
Beryllium	<0.093		0.40	0.093	mg/Kg		08/11/20 17:27	08/12/20 17:21	1
Cadmium	0.0475	J	0.20	0.036	mg/Kg		08/11/20 17:27	08/12/20 17:21	1
Chromium	0.592	J	1.0	0.50	mg/Kg		08/11/20 17:27	08/12/20 17:21	1
Cobalt	<0.13		0.50	0.13	mg/Kg		08/11/20 17:27	08/12/20 17:21	1
Copper	<0.28		1.0	0.28	mg/Kg		08/11/20 17:27	08/12/20 17:21	1
Iron	<10		20	10	mg/Kg		08/11/20 17:27	08/12/20 17:21	1
Lead	<0.23		0.50	0.23	mg/Kg		08/11/20 17:27	08/12/20 17:21	1
Magnesium	<5.0		10	5.0	mg/Kg		08/11/20 17:27	08/12/20 17:21	1
Calcium	7.58	J	20	3.4	mg/Kg		08/11/20 17:27	08/12/20 17:21	1
Manganese	<0.15		1.0	0.15	mg/Kg		08/11/20 17:27	08/12/20 17:21	1
Nickel	<0.29		1.0	0.29	mg/Kg		08/11/20 17:27	08/12/20 17:21	1
Selenium	<0.59		1.0	0.59	mg/Kg		08/11/20 17:27	08/12/20 17:21	1
Silver	<0.13		0.50	0.13	mg/Kg		08/11/20 17:27	08/12/20 17:21	1
Thallium	<0.50		1.0	0.50	mg/Kg		08/11/20 17:27	08/12/20 17:21	1
Vanadium	<0.12		0.50	0.12	mg/Kg		08/11/20 17:27	08/12/20 17:21	1
Zinc	<0.88		2.0	0.88	mg/Kg		08/11/20 17:27	08/12/20 17:21	1
Potassium	<18		50	18	mg/Kg		08/11/20 17:27	08/12/20 17:21	1
Sodium	<15		100	15	mg/Kg		08/11/20 17:27	08/12/20 17:21	1

Lab Sample ID: LCS 500-556317/2-A
Matrix: Solid
Analysis Batch: 556556

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556317

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	Limits
Arsenic	10.0	9.01		mg/Kg		90	80 - 120	
Barium	200	188		mg/Kg		94	80 - 120	
Beryllium	5.00	4.65		mg/Kg		93	80 - 120	
Cadmium	5.00	4.45		mg/Kg		89	80 - 120	
Chromium	20.0	19.4		mg/Kg		97	80 - 120	
Cobalt	50.0	47.5		mg/Kg		95	80 - 120	
Copper	25.0	23.2		mg/Kg		93	80 - 120	
Iron	100	88.1		mg/Kg		88	80 - 120	
Lead	10.0	9.30		mg/Kg		93	80 - 120	
Magnesium	1000	899		mg/Kg		90	80 - 120	
Calcium	1000	926		mg/Kg		93	80 - 120	
Manganese	50.0	46.1		mg/Kg		92	80 - 120	
Nickel	50.0	48.3		mg/Kg		97	80 - 120	
Selenium	10.0	8.01		mg/Kg		80	80 - 120	
Silver	5.00	4.49		mg/Kg		90	80 - 120	
Thallium	10.0	9.43		mg/Kg		94	80 - 120	
Vanadium	50.0	47.3		mg/Kg		95	80 - 120	
Zinc	50.0	46.3		mg/Kg		93	80 - 120	
Potassium	1000	947		mg/Kg		95	80 - 120	
Sodium	1000	956		mg/Kg		96	80 - 120	

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185945-1

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

Lab Sample ID: 500-185945-1 MS

Matrix: Solid

Analysis Batch: 556556

Client Sample ID: 2412V2-21-B01 (0-1.1)

Prep Type: Total/NA

Prep Batch: 556317

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
Antimony	0.38	J F1 B	30.5	7.26	F1	mg/Kg	☼	23	75 - 125
Arsenic	4.6		6.11	9.69		mg/Kg	☼	84	75 - 125
Barium	86		122	202		mg/Kg	☼	95	75 - 125
Beryllium	0.61		3.05	3.07		mg/Kg	☼	81	75 - 125
Cadmium	0.32	B	3.05	2.61		mg/Kg	☼	75	75 - 125
Chromium	20	B	12.2	29.6		mg/Kg	☼	79	75 - 125
Copper	15		15.3	27.7		mg/Kg	☼	80	75 - 125
Iron	14000		61.1	15100	4	mg/Kg	☼	1842	75 - 125
Lead	100		6.11	111	4	mg/Kg	☼	116	75 - 125
Magnesium	15000		611	12800	4	mg/Kg	☼	-389	75 - 125
Calcium	23000	B	611	18500	4	mg/Kg	☼	-739	75 - 125
Manganese	450		30.5	514	4	mg/Kg	☼	197	75 - 125
Nickel	17		30.5	49.2		mg/Kg	☼	105	75 - 125
Selenium	<0.35	F1	6.11	4.45	F1	mg/Kg	☼	73	75 - 125
Silver	<0.076	F1	3.05	2.22	F1	mg/Kg	☼	73	75 - 125
Thallium	0.32	J	6.11	6.24		mg/Kg	☼	97	75 - 125
Vanadium	28		30.5	54.2		mg/Kg	☼	86	75 - 125
Zinc	110	F1	30.5	148		mg/Kg	☼	119	75 - 125
Potassium	1400	F1	611	2620	F1	mg/Kg	☼	192	75 - 125
Sodium	1200		611	1800		mg/Kg	☼	92	75 - 125

Lab Sample ID: 500-185945-1 MS

Matrix: Solid

Analysis Batch: 556572

Client Sample ID: 2412V2-21-B01 (0-1.1)

Prep Type: Total/NA

Prep Batch: 556317

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
Cobalt	7.6		30.5	39.1		mg/Kg	☼	103	75 - 125

Lab Sample ID: 500-185945-1 MSD

Matrix: Solid

Analysis Batch: 556556

Client Sample ID: 2412V2-21-B01 (0-1.1)

Prep Type: Total/NA

Prep Batch: 556317

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Antimony	0.38	J F1 B	30.0	6.30	F1	mg/Kg	☼	20	75 - 125	14	20
Arsenic	4.6		6.00	9.31		mg/Kg	☼	79	75 - 125	4	20
Barium	86		120	186		mg/Kg	☼	84	75 - 125	8	20
Beryllium	0.61		3.00	2.97		mg/Kg	☼	79	75 - 125	4	20
Cadmium	0.32	B	3.00	2.60		mg/Kg	☼	76	75 - 125	0	20
Chromium	20	B	12.0	32.7		mg/Kg	☼	106	75 - 125	10	20
Copper	15		15.0	28.8		mg/Kg	☼	89	75 - 125	4	20
Iron	14000		60.0	14900	4	mg/Kg	☼	1504	75 - 125	1	20
Lead	100		6.00	97.8	4	mg/Kg	☼	-95	75 - 125	12	20
Magnesium	15000		600	12600	4	mg/Kg	☼	-439	75 - 125	2	20
Calcium	23000	B	600	18000	4	mg/Kg	☼	-835	75 - 125	3	20
Manganese	450		30.0	489	4	mg/Kg	☼	115	75 - 125	5	20
Nickel	17		30.0	48.8		mg/Kg	☼	105	75 - 125	1	20
Selenium	<0.35	F1	6.00	4.44	F1	mg/Kg	☼	74	75 - 125	0	20
Silver	<0.076	F1	3.00	2.22	F1	mg/Kg	☼	74	75 - 125	0	20
Thallium	0.32	J	6.00	6.02		mg/Kg	☼	95	75 - 125	4	20

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185945-1

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

Lab Sample ID: 500-185945-1 MSD

Matrix: Solid

Analysis Batch: 556556

Client Sample ID: 2412V2-21-B01 (0-1.1)

Prep Type: Total/NA

Prep Batch: 556317

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier		Result	Qualifier				Limits		Limit
Vanadium	28		30.0	56.2		mg/Kg	☼	94	75 - 125	4	20
Zinc	110	F1	30.0	154	F1	mg/Kg	☼	140	75 - 125	4	20
Potassium	1400	F1	600	2540	F1	mg/Kg	☼	182	75 - 125	3	20
Sodium	1200		600	1790		mg/Kg	☼	91	75 - 125	1	20

Lab Sample ID: 500-185945-1 MSD

Matrix: Solid

Analysis Batch: 556572

Client Sample ID: 2412V2-21-B01 (0-1.1)

Prep Type: Total/NA

Prep Batch: 556317

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier		Result	Qualifier				Limits		Limit
Cobalt	7.6		30.0	38.2		mg/Kg	☼	102	75 - 125	2	20

Lab Sample ID: 500-185945-1 DU

Matrix: Solid

Analysis Batch: 556556

Client Sample ID: 2412V2-21-B01 (0-1.1)

Prep Type: Total/NA

Prep Batch: 556317

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD
	Result	Qualifier		Result				Qualifier
Antimony	0.38	J F1 B	0.347	J	mg/Kg	☼	8	20
Arsenic	4.6		4.41		mg/Kg	☼	3	20
Barium	86		102		mg/Kg	☼	17	20
Beryllium	0.61		0.582		mg/Kg	☼	4	20
Cadmium	0.32	B	0.305		mg/Kg	☼	5	20
Chromium	20	B	15.9	F3	mg/Kg	☼	23	20
Copper	15		14.0		mg/Kg	☼	10	20
Iron	14000		13200		mg/Kg	☼	6	20
Lead	100		94.3		mg/Kg	☼	9	20
Magnesium	15000		16900		mg/Kg	☼	10	20
Calcium	23000	B	25900		mg/Kg	☼	12	20
Manganese	450		712	F3	mg/Kg	☼	44	20
Nickel	17		16.5		mg/Kg	☼	4	20
Selenium	<0.35	F1	0.504	J	mg/Kg	☼	NC	20
Silver	<0.076	F1	<0.078		mg/Kg	☼	NC	20
Thallium	0.32	J	0.539	J F5	mg/Kg	☼	50	20
Vanadium	28		22.9		mg/Kg	☼	20	20
Zinc	110	F1	120		mg/Kg	☼	7	20
Potassium	1400	F1	1400		mg/Kg	☼	3	20
Sodium	1200		1210		mg/Kg	☼	2	20

Lab Sample ID: 500-185945-1 DU

Matrix: Solid

Analysis Batch: 556572

Client Sample ID: 2412V2-21-B01 (0-1.1)

Prep Type: Total/NA

Prep Batch: 556317

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD
	Result	Qualifier		Result				Qualifier
Cobalt	7.6		8.21		mg/Kg	☼	7	20

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185945-1

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

Lab Sample ID: LCS 500-557243/2-A
Matrix: Solid
Analysis Batch: 557361

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 557243
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.100	0.110		mg/L		110	80 - 120
Barium	0.500	0.494	J	mg/L		99	80 - 120
Beryllium	0.0500	0.0487		mg/L		97	80 - 120
Cadmium	0.0500	0.0516		mg/L		103	80 - 120
Chromium	0.200	0.197		mg/L		99	80 - 120
Cobalt	0.500	0.534		mg/L		107	80 - 120
Copper	0.250	0.260		mg/L		104	80 - 120
Iron	1.00	1.04		mg/L		104	80 - 120
Lead	0.100	0.100		mg/L		100	80 - 120
Magnesium	10.0	9.52		mg/L		95	80 - 120
Calcium	10.0	10.2		mg/L		102	80 - 120
Manganese	0.500	0.483		mg/L		97	80 - 120
Nickel	0.500	0.528		mg/L		106	80 - 120
Selenium	0.100	0.113		mg/L		113	80 - 120
Silver	0.0500	0.0506		mg/L		101	80 - 120
Vanadium	0.500	0.492		mg/L		98	80 - 120
Zinc	0.500	0.603	*	mg/L		121	80 - 120
Potassium	10.0	10.3		mg/L		103	80 - 120

Lab Sample ID: LB 500-556917/1-B
Matrix: Solid
Analysis Batch: 557361

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 557243

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/17/20 17:19	08/18/20 05:03	1
Barium	<0.050		0.50	0.050	mg/L		08/17/20 17:19	08/18/20 05:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/17/20 17:19	08/18/20 05:03	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/17/20 17:19	08/18/20 05:03	1
Chromium	<0.010		0.025	0.010	mg/L		08/17/20 17:19	08/18/20 05:03	1
Cobalt	<0.010		0.025	0.010	mg/L		08/17/20 17:19	08/18/20 05:03	1
Copper	0.0137	J	0.025	0.010	mg/L		08/17/20 17:19	08/18/20 05:03	1
Iron	<0.20		0.40	0.20	mg/L		08/17/20 17:19	08/18/20 05:03	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/17/20 17:19	08/18/20 05:03	1
Magnesium	<0.50		2.5	0.50	mg/L		08/17/20 17:19	08/18/20 05:03	1
Calcium	<0.50		5.0	0.50	mg/L		08/17/20 17:19	08/18/20 05:03	1
Manganese	<0.010		0.025	0.010	mg/L		08/17/20 17:19	08/18/20 05:03	1
Nickel	<0.010		0.025	0.010	mg/L		08/17/20 17:19	08/18/20 05:03	1
Selenium	<0.020		0.050	0.020	mg/L		08/17/20 17:19	08/18/20 05:03	1
Silver	<0.010		0.025	0.010	mg/L		08/17/20 17:19	08/18/20 05:03	1
Vanadium	<0.010		0.025	0.010	mg/L		08/17/20 17:19	08/18/20 05:03	1
Zinc	0.0223	J	0.50	0.020	mg/L		08/17/20 17:19	08/18/20 05:03	1
Potassium	<0.50		2.5	0.50	mg/L		08/17/20 17:19	08/18/20 05:03	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185945-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-557243/2-A
 Matrix: Solid
 Analysis Batch: 557398

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 557243
 %Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.567		mg/L		113	80 - 120
Thallium	0.100	0.125	*	mg/L		125	80 - 120

Lab Sample ID: LB 500-556917/1-B
 Matrix: Solid
 Analysis Batch: 557398

Client Sample ID: Method Blank
 Prep Type: TCLP
 Prep Batch: 557243

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/17/20 17:19	08/18/20 10:29	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/17/20 17:19	08/18/20 10:29	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-557383/12-A
 Matrix: Solid
 Analysis Batch: 557609

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 557383

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/18/20 09:55	08/19/20 07:56	1

Lab Sample ID: LCS 500-557383/14-A
 Matrix: Solid
 Analysis Batch: 557609

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 557383
 %Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00184		mg/L		92	80 - 120

Lab Sample ID: LB 500-556917/2-B
 Matrix: Solid
 Analysis Batch: 557609

Client Sample ID: Method Blank
 Prep Type: TCLP
 Prep Batch: 557383

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/18/20 09:55	08/19/20 07:58	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-556263/12-A
 Matrix: Solid
 Analysis Batch: 556451

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 556263

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		08/11/20 14:25	08/12/20 07:11	1

Lab Sample ID: LCS 500-556263/13-A
 Matrix: Solid
 Analysis Batch: 556451

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 556263
 %Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.170		mg/Kg		102	80 - 120

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185945-1

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 500-556845/1-A
 Matrix: Solid
 Analysis Batch: 557233

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 556845

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.12		0.24	0.12	mg/Kg		08/14/20 13:10	08/17/20 09:49	1

Lab Sample ID: HLCS 500-556845/2-A
 Matrix: Solid
 Analysis Batch: 557233

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 556845

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	12.0	11.9		mg/Kg		99	90 - 110

Lab Sample ID: LCS 500-556845/3-A
 Matrix: Solid
 Analysis Batch: 557233

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 556845

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	2.40	2.49		mg/Kg		104	85 - 115

Lab Sample ID: LLCS 500-556845/4-A
 Matrix: Solid
 Analysis Batch: 557233

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 556845

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	1.20	1.18		mg/Kg		98	75 - 125

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185945-1

Client Sample ID: 2412V2-21-B01 (0-1.1)

Lab Sample ID: 500-185945-1

Date Collected: 08/04/20 14:50

Matrix: Solid

Date Received: 08/04/20 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			556906	08/14/20 12:25	JLC	TAL CHI
SPLP East	Prep	3010A			557241	08/17/20 17:16	BDE	TAL CHI
SPLP East	Analysis	6010B		1	557412	08/18/20 10:59	JEF	TAL CHI
TCLP	Leach	1311			556917	08/14/20 12:25	JLC	TAL CHI
TCLP	Prep	3010A			557243	08/17/20 17:19	BDE	TAL CHI
TCLP	Analysis	6010B		1	557361	08/18/20 06:06	JEF	TAL CHI
TCLP	Leach	1311			556917	08/14/20 12:25	JLC	TAL CHI
TCLP	Prep	3010A			557243	08/17/20 17:19	BDE	TAL CHI
TCLP	Analysis	6020A		1	557398	08/18/20 10:47	FXG	TAL CHI
TCLP	Leach	1311			556917	08/14/20 12:25	JLC	TAL CHI
TCLP	Prep	7470A			557383	08/18/20 09:55	MJG	TAL CHI
TCLP	Analysis	7470A		1	557609	08/19/20 08:30	MJG	TAL CHI
Total/NA	Analysis	9045D		1	555814	08/06/20 21:05	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	555682	08/06/20 12:25	LWN	TAL CHI

Client Sample ID: 2412V2-21-B01 (0-1.1)

Lab Sample ID: 500-185945-1

Date Collected: 08/04/20 14:50

Matrix: Solid

Date Received: 08/04/20 17:40

Percent Solids: 78.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			556637	08/05/20 08:30	PMF	TAL CHI
Total/NA	Analysis	8260B		1	556601	08/13/20 15:55	PMF	TAL CHI
Total/NA	Prep	3541			557088	08/17/20 06:17	DAK	TAL CHI
Total/NA	Analysis	8270D		1	557370	08/18/20 13:34	AJD	TAL CHI
Total/NA	Prep	3050B			556317	08/11/20 17:27	BDE	TAL CHI
Total/NA	Analysis	6010B		1	556556	08/12/20 17:37	EEN	TAL CHI
Total/NA	Prep	3050B			556317	08/11/20 17:27	BDE	TAL CHI
Total/NA	Analysis	6010B		2	556572	08/13/20 00:06	EEN	TAL CHI
Total/NA	Prep	7471B			556263	08/11/20 14:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	556451	08/12/20 08:02	MJG	TAL CHI
Total/NA	Prep	9010C			556845	08/14/20 13:10	MS	TAL CHI
Total/NA	Analysis	9012B		1	557233	08/17/20 10:27	MS	TAL CHI

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Hampshire - WO 074

Job ID: 500-185945-1

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-21

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

TestAmerica

THE LEADER IN ENVIRONMENTAL

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



500-185945 COC

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

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

Chain of Custody Record

Lab Job #: 500-185945

Chain of Custody Number: _____

Page 1 of 1

Temperature °C of Cooler: 58, 43, 59, 44

Client		Client Project #		Preservative													
<u>Terrecon</u>		<u>11207011P</u>															
Project Name				Parameter													
<u>11207011P</u>																	
Project Location/State				Lab Project #													
<u>Hempshire, IL</u>																	
Sampler				Lab PM													
<u>D.G. FH</u>																	
Lab ID	MS/MSD	Sample ID		Sampling		# of Containers	Matrix	VOC's	SVOC's	Total 23 Inorganics	pH	TCLP 23 Inorganics	SPLP 23 Inorganics	Preservative Key			
		Date	Time	1	2									3	4	5	6
<u>1</u>		<u>241202-21-Bol(0-1.1)</u>		<u>8/04/20</u>	<u>1450</u>	<u>650</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
 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>Va L 24</u> Company <u>Terrecon</u> Date <u>8/04/2020</u> Time <u>1600</u>	Received By <u>P. Neal</u> Company <u>TA</u> Date <u>8/4/20</u> Time <u>1600</u>
Relinquished By <u>P. Neal</u> Company <u>TA</u> Date <u>8/4/20</u> Time <u>1740</u>	Received By <u>Shirley Smith</u> Company <u>TA-DHE</u> Date <u>8/5/20</u> Time <u>0730</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
* STANDARD TURN
* NO ALUMINUM
* HOLD SPLP 23 INORGANICS PER TERRECON INSTRUCTIONS

Lab Comments:

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-185945-1

Login Number: 185945

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.8,4.3,5.9,4.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	