



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 346-US Rte 41, N/o Rt 173 to S/o Rockland Rd Office Phone Number, if available: _____

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

US Rte 41 (Southbound) IDOT STA 51+00 to 55+40 (ISGS Site 3138V-2)

City: Wadsworth State: IL Zip Code: 60083

County: Lake Township: Newport

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

Latitude: 42.47314 Longitude: - 87.94689

(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.): 112

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 B02 and B03 were sampled adjacent to ISGS Site No 3138V-2.
See Exhibit 2 and Table 3 of the Preliminary Site Investigation Report prepared by Terracon.

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

Eurofins TestAmerica, Chicago - Lab Report No J191731-1.
Also see Preliminary Site Investigation Report prepared by Terracon. CCDD/USFO facility in MSA County

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

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

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

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

Matt Weiss
Printed Name:

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

2/26/21
Date:



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

Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3138V-1-B01 (0-1.3)	3138V-1-B03 (0-1.3)
		Chicago	MSAs		Sample Depth (feet)	(0-1.3)	(0-1.3)
					Date Collected	11/30/2020	11/30/2020
Semivolatile Organic Analytical Parameters							
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.035	<0.0053
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.040	<0.0076
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.054	<0.0085
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.030	<0.013
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.017	<0.012
Chrysene	mg/kg	1.2	2.7	88		0.042	<0.011
Fluoranthene	mg/kg	2.7	4.1	3100		0.062	<0.0073
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.026	<0.010
Phenanthrene	mg/kg	1.3	2.5	210		0.02	<0.0055
Pyrene	mg/kg	1.9	3.0	2300		0.063	<0.0078
Inorganic Analytical Parameters							
Arsenic	mg/kg	---	13	11.3		5.2	10
Barium	mg/kg	---	110	1500		42	48
Cadmium	mg/kg	---	0.6	5.2		0.3	0.37
Chromium, total	mg/kg	---	16.2	21		15	16
Lead	mg/kg	---	36	107		31	14
Mercury	mg/kg	---	0.06	0.89		0.023	0.016
Selenium	mg/kg	---	0.48	1.3		<0.31	<0.34
Silver	mg/kg	---	0.55	4.4		0.15	0.18
Antimony	mg/kg	---	4.0	5		0.61	0.72
Beryllium	mg/kg	---	0.59	22		0.65	0.73
Calcium	mg/kg	---	9,300	---		63000	32000
Cobalt	mg/kg	---	8.9	20		9.5	9.5
Copper	mg/kg	---	19.6	2900		19	21
Cyanide	mg/kg	---	0.51	---		<0.14	<0.15
Iron	mg/kg	---	15,900	15000		15000	22000
Magnesium	mg/kg	---	4,820	325000		26000	18000
Manganese	mg/kg	---	636	630		410	350
Nickel	mg/kg	---	18	100		23	27
Potassium	mg/kg	---	1,268	---		2100	2000
Sodium	mg/kg	---	130	---		1500	1300
Thallium	mg/kg	---	0.32	2.6		<0.27	<0.29
Vanadium	mg/kg	---	25.2	550		21	28
Zinc	mg/kg	---	95	5100		51	51
pH			6.25	9		9.0	8.6

Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3138V-1-B01 (0-1.3)	3138V-1-B03 (0-1.3)
		Chicago	MSAs		Sample Depth (feet)	(0-1.3)	(0-1.3)
					Date Collected	11/30/2020	11/30/2020
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	---	---	---		--	1.6
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	---	---	---		0.36	0.37
Cadmium,TCLP	mg/L	---	---	---		0.0022	0.002
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	---	---	---		480	500
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	---	---	---		37	33
Manganese,TCLP	mg/L	---	---	---		0.11	0.18
Nickel,TCLP	mg/L	---	---	---		<0.010	0.011
Potassium,TCLP	mg/L	---	---	---		0.93	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

ANALYTICAL REPORT

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

Laboratory Job ID: 500-191730-1
Client Project/Site: IDOT - Lake County - WO 073

For:

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

Attn: Mr. Matthew Weiss



Authorized for release by:
12/9/2020 2:56:42 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 - Lake County - WO 073

Job ID: 500-191730-1

Job ID: 500-191730-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-191730-1

Receipt

The samples were received on 11/30/2020 5:15 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.0° C and 1.7° C.

GC/MS VOA

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

GC/MS Semi VOA

Method 8270D: The method blank for preparation batch 500-574879 and analytical batch 500-575022 contained Anthracene, Benzo[a]anthracene, Benzo[b]fluoranthene, Chrysene, Phenanthrene and Pyrene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8270D: The method blank for preparation batch 500-574879 contained Fluoranthene above the reporting limit (RL). None of the samples associated with this method blank contained the target compound above the reporting limit; therefore, re-extraction and/or re-analysis of samples were not performed.

Method 8270D: Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 3 analytes to recover outside criteria for this method when utilizing this list of analytes. The LCS associated with preparation batch 500-574879 and analytical batch 500-575022 had 1 analyte outside control limits: 4-Nitroaniline. These results have been reported and qualified.

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

Metals

Method 6010B: The laboratory control sample (LCS) for preparation batch 500-574996 and 500-575241 and analytical batch 500-575563 recovered outside control limits for the following analytes: Iron and Potassium. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 6010B: The laboratory control sample (LCS) for preparation batch 500-574996 and 500-575241 and analytical batch 500-575563 recovered outside control limits for the following analytes: Iron. These analytes were biased high in the LCS 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.

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 - Lake County - WO 073

Job ID: 500-191730-1

Client Sample ID: 3138V-1-B01 (0-1.3)

Lab Sample ID: 500-191730-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.035	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.040		0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.054		0.038	0.0082	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.030	J	0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.017	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.042		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.062		0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.026	J	0.038	0.0099	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.020	J	0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.063		0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.61	J	1.1	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.2		0.54	0.18	mg/Kg	1	☼	6010B	Total/NA
Barium	42		0.54	0.061	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.65		0.21	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.30	B	0.11	0.019	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.5		0.27	0.070	mg/Kg	1	☼	6010B	Total/NA
Copper	19		0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	15000		11	5.6	mg/Kg	1	☼	6010B	Total/NA
Lead	31		0.27	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	26000	B	5.4	2.7	mg/Kg	1	☼	6010B	Total/NA
Calcium	63000	B	110	18	mg/Kg	10	☼	6010B	Total/NA
Manganese	410		0.54	0.078	mg/Kg	1	☼	6010B	Total/NA
Nickel	23		0.54	0.16	mg/Kg	1	☼	6010B	Total/NA
Silver	0.15	J	0.27	0.069	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.27	0.063	mg/Kg	1	☼	6010B	Total/NA
Zinc	51		1.1	0.47	mg/Kg	1	☼	6010B	Total/NA
Potassium	2100		27	9.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	1500		54	7.9	mg/Kg	1	☼	6010B	Total/NA
Barium	0.36	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0022	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	480		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	37		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.11		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.93	J B *	2.5	0.50	mg/L	1		6010B	TCLP
Mercury	0.023		0.019	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	9.0		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3138V-1-B02 (0-6)

Lab Sample ID: 500-191730-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0072	J B	0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.0093	J	0.040	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.013	J B	0.040	0.0087	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.011	J B	0.040	0.0075	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0061	J B	0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.013	J B	0.040	0.0080	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.71	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.5		0.57	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	39		0.57	0.065	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.59		0.23	0.053	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 - Lake County - WO 073

Job ID: 500-191730-1

Client Sample ID: 3138V-1-B02 (0-6) (Continued)

Lab Sample ID: 500-191730-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.41	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	14		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.1		0.28	0.074	mg/Kg	1	☼	6010B	Total/NA
Copper	19		0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	14000		11	5.9	mg/Kg	1	☼	6010B	Total/NA
Lead	71		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	23000	B	5.7	2.8	mg/Kg	1	☼	6010B	Total/NA
Calcium	54000	B	110	19	mg/Kg	10	☼	6010B	Total/NA
Manganese	410		0.57	0.082	mg/Kg	1	☼	6010B	Total/NA
Nickel	19		0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Silver	0.14	J	0.28	0.073	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.28	0.067	mg/Kg	1	☼	6010B	Total/NA
Zinc	63		1.1	0.50	mg/Kg	1	☼	6010B	Total/NA
Potassium	1700		28	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	1200		57	8.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.49	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0027	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	430		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.035		0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	49		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	7.2		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.026		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.7		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.023	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	0.025		0.020	0.0066	mg/Kg	1	☼	7471B	Total/NA
pH	8.4		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3138V-1-B02 (0-6) Dup

Lab Sample ID: 500-191730-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.032	J	0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.040		0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.055		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	0.015	J	0.039	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.043		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.066		0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.020	J	0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.030	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.066		0.039	0.0079	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.77	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.7		0.61	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	59		0.61	0.070	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.93		0.24	0.057	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.33	B	0.12	0.022	mg/Kg	1	☼	6010B	Total/NA
Chromium	20		0.61	0.30	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.31	0.080	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.61	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	19000		12	6.3	mg/Kg	1	☼	6010B	Total/NA
Lead	160		0.31	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 - Lake County - WO 073

Job ID: 500-191730-1

Client Sample ID: 3138V-1-B02 (0-6) Dup (Continued)

Lab Sample ID: 500-191730-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	24000	B	6.1	3.0	mg/Kg	1	☼	6010B	Total/NA
Calcium	74000	B	120	21	mg/Kg	10	☼	6010B	Total/NA
Manganese	350		0.61	0.089	mg/Kg	1	☼	6010B	Total/NA
Nickel	30		0.61	0.18	mg/Kg	1	☼	6010B	Total/NA
Silver	0.13	J	0.31	0.079	mg/Kg	1	☼	6010B	Total/NA
Vanadium	27		0.31	0.072	mg/Kg	1	☼	6010B	Total/NA
Zinc	63		1.2	0.54	mg/Kg	1	☼	6010B	Total/NA
Potassium	3200		31	11	mg/Kg	1	☼	6010B	Total/NA
Sodium	1700		61	9.0	mg/Kg	1	☼	6010B	Total/NA
Barium	0.49	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0028	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	480		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.035		0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.010		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	43		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	5.6		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.031		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.7		2.5	0.50	mg/L	1		6010B	TCLP
Lead	0.25		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	1.3		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.022		0.019	0.0064	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.18	J	0.25	0.13	mg/Kg	1	☼	9012B	Total/NA
pH	8.8		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3138V-1-B02 (6-12.5)

Lab Sample ID: 500-191730-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.75	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.8		0.57	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	66		0.57	0.065	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.74		0.23	0.053	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.34	B	0.11	0.021	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	10		0.29	0.075	mg/Kg	1	☼	6010B	Total/NA
Copper	17		0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	21000		11	5.9	mg/Kg	1	☼	6010B	Total/NA
Lead	25		0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	6600	B	5.7	2.8	mg/Kg	1	☼	6010B	Total/NA
Calcium	8500	B	11	1.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	660		0.57	0.083	mg/Kg	1	☼	6010B	Total/NA
Nickel	20		0.57	0.17	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.45	J	0.57	0.34	mg/Kg	1	☼	6010B	Total/NA
Silver	0.18	J	0.29	0.074	mg/Kg	1	☼	6010B	Total/NA
Vanadium	27		0.29	0.067	mg/Kg	1	☼	6010B	Total/NA
Zinc	54		1.1	0.50	mg/Kg	1	☼	6010B	Total/NA
Potassium	1600		29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	1000		57	8.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.37	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0020	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	330		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	92		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 - Lake County - WO 073

Job ID: 500-191730-1

Client Sample ID: 3138V-1-B02 (6-12.5) (Continued)

Lab Sample ID: 500-191730-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.45		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.4	J B *	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.73		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.038		0.019	0.0063	mg/Kg	1	⊛	7471B	Total/NA
Cyanide, Total	0.14	J	0.28	0.14	mg/Kg	1	⊛	9012B	Total/NA
pH	8.2		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3138V-1-B03 (0-1.3)

Lab Sample ID: 500-191730-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.72	J	1.2	0.23	mg/Kg	1	⊛	6010B	Total/NA
Arsenic	10		0.58	0.20	mg/Kg	1	⊛	6010B	Total/NA
Barium	48		0.58	0.067	mg/Kg	1	⊛	6010B	Total/NA
Beryllium	0.73		0.23	0.055	mg/Kg	1	⊛	6010B	Total/NA
Cadmium	0.37	B	0.12	0.021	mg/Kg	1	⊛	6010B	Total/NA
Chromium	16		0.58	0.29	mg/Kg	1	⊛	6010B	Total/NA
Cobalt	9.5		0.29	0.076	mg/Kg	1	⊛	6010B	Total/NA
Copper	21		0.58	0.16	mg/Kg	1	⊛	6010B	Total/NA
Iron	22000		12	6.1	mg/Kg	1	⊛	6010B	Total/NA
Lead	14		0.29	0.13	mg/Kg	1	⊛	6010B	Total/NA
Magnesium	18000	B	5.8	2.9	mg/Kg	1	⊛	6010B	Total/NA
Calcium	32000	B	12	2.0	mg/Kg	1	⊛	6010B	Total/NA
Manganese	350		0.58	0.085	mg/Kg	1	⊛	6010B	Total/NA
Nickel	27		0.58	0.17	mg/Kg	1	⊛	6010B	Total/NA
Silver	0.18	J	0.29	0.075	mg/Kg	1	⊛	6010B	Total/NA
Vanadium	28		0.29	0.069	mg/Kg	1	⊛	6010B	Total/NA
Zinc	51		1.2	0.51	mg/Kg	1	⊛	6010B	Total/NA
Potassium	2000		29	10	mg/Kg	1	⊛	6010B	Total/NA
Sodium	1300		58	8.6	mg/Kg	1	⊛	6010B	Total/NA
Barium	0.37	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0020	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	500		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	33		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.18		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.5	J F1 B *	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.6		0.025	0.010	mg/L	1		6010B	SPLP East
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

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191730-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6010B	SPLP Metals	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9012B	Cyanide, Total and/or Amenable	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
1311	TCLP Extraction	SW846	TAL CHI
1312	SPLP Extraction	SW846	TAL CHI
3010A	Preparation, Total Metals	SW846	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL CHI
7471B	Preparation, Mercury	SW846	TAL CHI
9010C	Cyanide, Distillation	SW846	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191730-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-191730-1	3138V-1-B01 (0-1.3)	Solid	11/30/20 10:45	11/30/20 17:15	
500-191730-2	3138V-1-B02 (0-6)	Solid	11/30/20 11:15	11/30/20 17:15	
500-191730-3	3138V-1-B02 (0-6) Dup	Solid	11/30/20 11:20	11/30/20 17:15	
500-191730-4	3138V-1-B02 (6-12.5)	Solid	11/30/20 11:30	11/30/20 17:15	
500-191730-5	3138V-1-B03 (0-1.3)	Solid	11/30/20 11:55	11/30/20 17:15	

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191730-1

Client Sample ID: 3138V-1-B01 (0-1.3)

Lab Sample ID: 500-191730-1

Date Collected: 11/30/20 10:45

Matrix: Solid

Date Received: 11/30/20 17:15

Percent Solids: 85.7

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	✳	12/01/20 17:52	12/04/20 17:54	1
Benzene	<0.00038		0.0015	0.00038	mg/Kg	✳	12/01/20 17:52	12/04/20 17:54	1
Bromodichloromethane	<0.00030		0.0015	0.00030	mg/Kg	✳	12/01/20 17:52	12/04/20 17:54	1
Bromoform	<0.00043		0.0015	0.00043	mg/Kg	✳	12/01/20 17:52	12/04/20 17:54	1
Bromomethane	<0.0014		0.0037	0.0014	mg/Kg	✳	12/01/20 17:52	12/04/20 17:54	1
2-Butanone (MEK)	<0.0017		0.0037	0.0017	mg/Kg	✳	12/01/20 17:52	12/04/20 17:54	1
Carbon disulfide	<0.00077		0.0037	0.00077	mg/Kg	✳	12/01/20 17:52	12/04/20 17:54	1
Carbon tetrachloride	<0.00043		0.0015	0.00043	mg/Kg	✳	12/01/20 17:52	12/04/20 17:54	1
Chlorobenzene	<0.00055		0.0015	0.00055	mg/Kg	✳	12/01/20 17:52	12/04/20 17:54	1
Chloroethane	<0.0011		0.0037	0.0011	mg/Kg	✳	12/01/20 17:52	12/04/20 17:54	1
Chloroform	<0.00052		0.0015	0.00052	mg/Kg	✳	12/01/20 17:52	12/04/20 17:54	1
Chloromethane	<0.0015		0.0037	0.0015	mg/Kg	✳	12/01/20 17:52	12/04/20 17:54	1
cis-1,2-Dichloroethene	<0.00042		0.0015	0.00042	mg/Kg	✳	12/01/20 17:52	12/04/20 17:54	1
cis-1,3-Dichloropropene	<0.00045		0.0015	0.00045	mg/Kg	✳	12/01/20 17:52	12/04/20 17:54	1
Dibromochloromethane	<0.00049		0.0015	0.00049	mg/Kg	✳	12/01/20 17:52	12/04/20 17:54	1
1,1-Dichloroethane	<0.00051		0.0015	0.00051	mg/Kg	✳	12/01/20 17:52	12/04/20 17:54	1
1,2-Dichloroethane	<0.0012		0.0037	0.0012	mg/Kg	✳	12/01/20 17:52	12/04/20 17:54	1
1,1-Dichloroethene	<0.00051		0.0015	0.00051	mg/Kg	✳	12/01/20 17:52	12/04/20 17:54	1
1,2-Dichloropropene	<0.00038		0.0015	0.00038	mg/Kg	✳	12/01/20 17:52	12/04/20 17:54	1
1,3-Dichloropropene, Total	<0.00052		0.0015	0.00052	mg/Kg	✳	12/01/20 17:52	12/04/20 17:54	1
Ethylbenzene	<0.00071		0.0015	0.00071	mg/Kg	✳	12/01/20 17:52	12/04/20 17:54	1
2-Hexanone	<0.0012		0.0037	0.0012	mg/Kg	✳	12/01/20 17:52	12/04/20 17:54	1
Methylene Chloride	<0.0015		0.0037	0.0015	mg/Kg	✳	12/01/20 17:52	12/04/20 17:54	1
4-Methyl-2-pentanone (MIBK)	<0.0011		0.0037	0.0011	mg/Kg	✳	12/01/20 17:52	12/04/20 17:54	1
Methyl tert-butyl ether	<0.00044		0.0015	0.00044	mg/Kg	✳	12/01/20 17:52	12/04/20 17:54	1
Styrene	<0.00045		0.0015	0.00045	mg/Kg	✳	12/01/20 17:52	12/04/20 17:54	1
1,1,2,2-Tetrachloroethane	<0.00048		0.0015	0.00048	mg/Kg	✳	12/01/20 17:52	12/04/20 17:54	1
Tetrachloroethene	<0.00051		0.0015	0.00051	mg/Kg	✳	12/01/20 17:52	12/04/20 17:54	1
Toluene	<0.00038		0.0015	0.00038	mg/Kg	✳	12/01/20 17:52	12/04/20 17:54	1
trans-1,2-Dichloroethene	<0.00066		0.0015	0.00066	mg/Kg	✳	12/01/20 17:52	12/04/20 17:54	1
trans-1,3-Dichloropropene	<0.00052		0.0015	0.00052	mg/Kg	✳	12/01/20 17:52	12/04/20 17:54	1
1,1,1-Trichloroethane	<0.00050		0.0015	0.00050	mg/Kg	✳	12/01/20 17:52	12/04/20 17:54	1
1,1,2-Trichloroethane	<0.00064		0.0015	0.00064	mg/Kg	✳	12/01/20 17:52	12/04/20 17:54	1
Trichloroethene	<0.00050		0.0015	0.00050	mg/Kg	✳	12/01/20 17:52	12/04/20 17:54	1
Vinyl acetate	<0.0013		0.0037	0.0013	mg/Kg	✳	12/01/20 17:52	12/04/20 17:54	1
Vinyl chloride	<0.00066		0.0015	0.00066	mg/Kg	✳	12/01/20 17:52	12/04/20 17:54	1
Xylenes, Total	<0.00048		0.0030	0.00048	mg/Kg	✳	12/01/20 17:52	12/04/20 17:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		75 - 131	12/01/20 17:52	12/04/20 17:54	1
Dibromofluoromethane	99		75 - 126	12/01/20 17:52	12/04/20 17:54	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	12/01/20 17:52	12/04/20 17:54	1
Toluene-d8 (Surr)	90		75 - 124	12/01/20 17:52	12/04/20 17:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0068		0.038	0.0068	mg/Kg	✳	12/04/20 08:51	12/05/20 16:13	1
Acenaphthylene	<0.0050		0.038	0.0050	mg/Kg	✳	12/04/20 08:51	12/05/20 16:13	1
Anthracene	<0.0064		0.038	0.0064	mg/Kg	✳	12/04/20 08:51	12/05/20 16:13	1
Benzo[a]anthracene	0.035	J	0.038	0.0051	mg/Kg	✳	12/04/20 08:51	12/05/20 16:13	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191730-1

Client Sample ID: 3138V-1-B01 (0-1.3)

Lab Sample ID: 500-191730-1

Date Collected: 11/30/20 10:45

Matrix: Solid

Date Received: 11/30/20 17:15

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	0.040		0.038	0.0074	mg/Kg	☼	12/04/20 08:51	12/05/20 16:13	1
Benzo[b]fluoranthene	0.054		0.038	0.0082	mg/Kg	☼	12/04/20 08:51	12/05/20 16:13	1
Benzo[g,h,i]perylene	0.030	J	0.038	0.012	mg/Kg	☼	12/04/20 08:51	12/05/20 16:13	1
Benzo[k]fluoranthene	0.017	J	0.038	0.011	mg/Kg	☼	12/04/20 08:51	12/05/20 16:13	1
Bis(2-chloroethoxy)methane	<0.039		0.19	0.039	mg/Kg	☼	12/04/20 08:51	12/05/20 16:13	1
Bis(2-chloroethyl)ether	<0.057		0.19	0.057	mg/Kg	☼	12/04/20 08:51	12/05/20 16:13	1
Bis(2-ethylhexyl) phthalate	<0.070		0.19	0.070	mg/Kg	☼	12/04/20 08:51	12/05/20 16:13	1
4-Bromophenyl phenyl ether	<0.050		0.19	0.050	mg/Kg	☼	12/04/20 08:51	12/05/20 16:13	1
Butyl benzyl phthalate	<0.072		0.19	0.072	mg/Kg	☼	12/04/20 08:51	12/05/20 16:13	1
Carbazole	<0.095		0.19	0.095	mg/Kg	☼	12/04/20 08:51	12/05/20 16:13	1
4-Chloroaniline	<0.18		0.77	0.18	mg/Kg	☼	12/04/20 08:51	12/05/20 16:13	1
4-Chloro-3-methylphenol	<0.13		0.38	0.13	mg/Kg	☼	12/04/20 08:51	12/05/20 16:13	1
2-Chloronaphthalene	<0.042		0.19	0.042	mg/Kg	☼	12/04/20 08:51	12/05/20 16:13	1
2-Chlorophenol	<0.065		0.19	0.065	mg/Kg	☼	12/04/20 08:51	12/05/20 16:13	1
4-Chlorophenyl phenyl ether	<0.045		0.19	0.045	mg/Kg	☼	12/04/20 08:51	12/05/20 16:13	1
Chrysene	0.042		0.038	0.010	mg/Kg	☼	12/04/20 08:51	12/05/20 16:13	1
Dibenz(a,h)anthracene	<0.0074		0.038	0.0074	mg/Kg	☼	12/04/20 08:51	12/05/20 16:13	1
Dibenzofuran	<0.045		0.19	0.045	mg/Kg	☼	12/04/20 08:51	12/05/20 16:13	1
1,2-Dichlorobenzene	<0.046		0.19	0.046	mg/Kg	☼	12/04/20 08:51	12/05/20 16:13	1
1,3-Dichlorobenzene	<0.043		0.19	0.043	mg/Kg	☼	12/04/20 08:51	12/05/20 16:13	1
1,4-Dichlorobenzene	<0.049		0.19	0.049	mg/Kg	☼	12/04/20 08:51	12/05/20 16:13	1
3,3'-Dichlorobenzidine	<0.053		0.19	0.053	mg/Kg	☼	12/04/20 08:51	12/05/20 16:13	1
2,4-Dichlorophenol	<0.091		0.38	0.091	mg/Kg	☼	12/04/20 08:51	12/05/20 16:13	1
Diethyl phthalate	<0.065		0.19	0.065	mg/Kg	☼	12/04/20 08:51	12/05/20 16:13	1
2,4-Dimethylphenol	<0.14		0.38	0.14	mg/Kg	☼	12/04/20 08:51	12/05/20 16:13	1
Dimethyl phthalate	<0.050		0.19	0.050	mg/Kg	☼	12/04/20 08:51	12/05/20 16:13	1
Di-n-butyl phthalate	<0.058		0.19	0.058	mg/Kg	☼	12/04/20 08:51	12/05/20 16:13	1
4,6-Dinitro-2-methylphenol	<0.31		0.77	0.31	mg/Kg	☼	12/04/20 08:51	12/05/20 16:13	1
2,4-Dinitrophenol	<0.67		0.77	0.67	mg/Kg	☼	12/04/20 08:51	12/05/20 16:13	1
2,4-Dinitrotoluene	<0.061		0.19	0.061	mg/Kg	☼	12/04/20 08:51	12/05/20 16:13	1
2,6-Dinitrotoluene	<0.075		0.19	0.075	mg/Kg	☼	12/04/20 08:51	12/05/20 16:13	1
Di-n-octyl phthalate	<0.062		0.19	0.062	mg/Kg	☼	12/04/20 08:51	12/05/20 16:13	1
Fluoranthene	0.062		0.038	0.0071	mg/Kg	☼	12/04/20 08:51	12/05/20 16:13	1
Fluorene	<0.0054		0.038	0.0054	mg/Kg	☼	12/04/20 08:51	12/05/20 16:13	1
Hexachlorobenzene	<0.0088		0.077	0.0088	mg/Kg	☼	12/04/20 08:51	12/05/20 16:13	1
Hexachlorobutadiene	<0.060		0.19	0.060	mg/Kg	☼	12/04/20 08:51	12/05/20 16:13	1
Hexachlorocyclopentadiene	<0.22		0.77	0.22	mg/Kg	☼	12/04/20 08:51	12/05/20 16:13	1
Hexachloroethane	<0.058	F1	0.19	0.058	mg/Kg	☼	12/04/20 08:51	12/05/20 16:13	1
Indeno[1,2,3-cd]pyrene	0.026	J	0.038	0.0099	mg/Kg	☼	12/04/20 08:51	12/05/20 16:13	1
Isophorone	<0.043		0.19	0.043	mg/Kg	☼	12/04/20 08:51	12/05/20 16:13	1
2-Methylnaphthalene	<0.0070		0.077	0.0070	mg/Kg	☼	12/04/20 08:51	12/05/20 16:13	1
2-Methylphenol	<0.061		0.19	0.061	mg/Kg	☼	12/04/20 08:51	12/05/20 16:13	1
3 & 4 Methylphenol	<0.064		0.19	0.064	mg/Kg	☼	12/04/20 08:51	12/05/20 16:13	1
Naphthalene	<0.0059		0.038	0.0059	mg/Kg	☼	12/04/20 08:51	12/05/20 16:13	1
2-Nitroaniline	<0.051		0.19	0.051	mg/Kg	☼	12/04/20 08:51	12/05/20 16:13	1
3-Nitroaniline	<0.12		0.38	0.12	mg/Kg	☼	12/04/20 08:51	12/05/20 16:13	1
4-Nitroaniline	<0.16		0.38	0.16	mg/Kg	☼	12/04/20 08:51	12/05/20 16:13	1
Nitrobenzene	<0.0095		0.038	0.0095	mg/Kg	☼	12/04/20 08:51	12/05/20 16:13	1
2-Nitrophenol	<0.090		0.38	0.090	mg/Kg	☼	12/04/20 08:51	12/05/20 16:13	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191730-1

Client Sample ID: 3138V-1-B01 (0-1.3)

Lab Sample ID: 500-191730-1

Date Collected: 11/30/20 10:45

Matrix: Solid

Date Received: 11/30/20 17:15

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		0.77	0.36	mg/Kg	☼	12/04/20 08:51	12/05/20 16:13	1
N-Nitrosodi-n-propylamine	<0.047		0.077	0.047	mg/Kg	☼	12/04/20 08:51	12/05/20 16:13	1
N-Nitrosodiphenylamine	<0.045		0.19	0.045	mg/Kg	☼	12/04/20 08:51	12/05/20 16:13	1
2,2'-oxybis[1-chloropropane]	<0.044		0.19	0.044	mg/Kg	☼	12/04/20 08:51	12/05/20 16:13	1
Pentachlorophenol	<0.61		0.77	0.61	mg/Kg	☼	12/04/20 08:51	12/05/20 16:13	1
Phenanthrene	0.020	J	0.038	0.0053	mg/Kg	☼	12/04/20 08:51	12/05/20 16:13	1
Phenol	<0.085		0.19	0.085	mg/Kg	☼	12/04/20 08:51	12/05/20 16:13	1
Pyrene	0.063		0.038	0.0076	mg/Kg	☼	12/04/20 08:51	12/05/20 16:13	1
1,2,4-Trichlorobenzene	<0.041		0.19	0.041	mg/Kg	☼	12/04/20 08:51	12/05/20 16:13	1
2,4,5-Trichlorophenol	<0.087		0.38	0.087	mg/Kg	☼	12/04/20 08:51	12/05/20 16:13	1
2,4,6-Trichlorophenol	<0.13		0.38	0.13	mg/Kg	☼	12/04/20 08:51	12/05/20 16:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	69		43 - 145				12/04/20 08:51	12/05/20 16:13	1
2-Fluorophenol	78		31 - 166				12/04/20 08:51	12/05/20 16:13	1
Nitrobenzene-d5	71		37 - 147				12/04/20 08:51	12/05/20 16:13	1
Phenol-d5	73		30 - 153				12/04/20 08:51	12/05/20 16:13	1
Terphenyl-d14	93		42 - 157				12/04/20 08:51	12/05/20 16:13	1
2,4,6-Tribromophenol	55		31 - 143				12/04/20 08:51	12/05/20 16:13	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.61	J	1.1	0.21	mg/Kg	☼	12/03/20 17:51	12/04/20 19:09	1
Arsenic	5.2		0.54	0.18	mg/Kg	☼	12/03/20 17:51	12/04/20 19:09	1
Barium	42		0.54	0.061	mg/Kg	☼	12/03/20 17:51	12/04/20 19:09	1
Beryllium	0.65		0.21	0.050	mg/Kg	☼	12/03/20 17:51	12/04/20 19:09	1
Cadmium	0.30	B	0.11	0.019	mg/Kg	☼	12/03/20 17:51	12/04/20 19:09	1
Chromium	15		0.54	0.27	mg/Kg	☼	12/03/20 17:51	12/04/20 19:09	1
Cobalt	9.5		0.27	0.070	mg/Kg	☼	12/03/20 17:51	12/04/20 19:09	1
Copper	19		0.54	0.15	mg/Kg	☼	12/03/20 17:51	12/04/20 19:09	1
Iron	15000		11	5.6	mg/Kg	☼	12/03/20 17:51	12/04/20 19:09	1
Lead	31		0.27	0.12	mg/Kg	☼	12/03/20 17:51	12/04/20 19:09	1
Magnesium	26000	B	5.4	2.7	mg/Kg	☼	12/03/20 17:51	12/04/20 19:09	1
Calcium	63000	B	110	18	mg/Kg	☼	12/03/20 17:51	12/07/20 14:39	10
Manganese	410		0.54	0.078	mg/Kg	☼	12/03/20 17:51	12/04/20 19:09	1
Nickel	23		0.54	0.16	mg/Kg	☼	12/03/20 17:51	12/04/20 19:09	1
Selenium	<0.31		0.54	0.31	mg/Kg	☼	12/03/20 17:51	12/04/20 19:09	1
Silver	0.15	J	0.27	0.069	mg/Kg	☼	12/03/20 17:51	12/04/20 19:09	1
Thallium	<0.27		0.54	0.27	mg/Kg	☼	12/03/20 17:51	12/04/20 19:09	1
Vanadium	21		0.27	0.063	mg/Kg	☼	12/03/20 17:51	12/04/20 19:09	1
Zinc	51		1.1	0.47	mg/Kg	☼	12/03/20 17:51	12/04/20 19:09	1
Potassium	2100		27	9.5	mg/Kg	☼	12/03/20 17:51	12/04/20 19:09	1
Sodium	1500		54	7.9	mg/Kg	☼	12/03/20 17:51	12/04/20 19:09	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		12/03/20 16:40	12/04/20 13:13	1
Barium	0.36	J	0.50	0.050	mg/L		12/03/20 16:40	12/04/20 13:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/03/20 16:40	12/04/20 13:13	1
Cadmium	0.0022	J	0.0050	0.0020	mg/L		12/03/20 16:40	12/04/20 13:13	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191730-1

Client Sample ID: 3138V-1-B01 (0-1.3)

Lab Sample ID: 500-191730-1

Date Collected: 11/30/20 10:45

Matrix: Solid

Date Received: 11/30/20 17:15

Percent Solids: 85.7

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		12/03/20 16:40	12/04/20 13:13	1
Chromium	<0.010		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 13:13	1
Cobalt	<0.010		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 13:13	1
Copper	<0.010		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 13:13	1
Iron	<0.20	*	0.40	0.20	mg/L		12/03/20 16:40	12/04/20 13:13	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/03/20 16:40	12/04/20 13:13	1
Magnesium	37		2.5	0.50	mg/L		12/03/20 16:40	12/04/20 13:13	1
Manganese	0.11		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 13:13	1
Nickel	<0.010		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 13:13	1
Potassium	0.93	J B *	2.5	0.50	mg/L		12/03/20 16:40	12/04/20 13:13	1
Selenium	<0.020		0.050	0.020	mg/L		12/03/20 16:40	12/04/20 13:13	1
Silver	<0.010		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 13:13	1
Vanadium	<0.010		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 13:13	1
Zinc	<0.020		0.50	0.020	mg/L		12/03/20 16:40	12/04/20 13:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/03/20 16:40	12/04/20 17:11	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/03/20 16:40	12/04/20 17:11	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		12/04/20 08:15	12/07/20 08:01	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	⊛	12/02/20 13:05	12/03/20 12:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.14		0.28	0.14	mg/Kg	⊛	12/04/20 14:54	12/04/20 17:19	1
pH	9.0		0.2	0.2	SU			12/03/20 17:42	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191730-1

Client Sample ID: 3138V-1-B02 (0-6)

Lab Sample ID: 500-191730-2

Date Collected: 11/30/20 11:15

Matrix: Solid

Date Received: 11/30/20 17:15

Percent Solids: 81.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0071		0.016	0.0071	mg/Kg	✳	12/01/20 17:52	12/04/20 18:19	1
Benzene	<0.00041		0.0016	0.00041	mg/Kg	✳	12/01/20 17:52	12/04/20 18:19	1
Bromodichloromethane	<0.00033		0.0016	0.00033	mg/Kg	✳	12/01/20 17:52	12/04/20 18:19	1
Bromoform	<0.00047		0.0016	0.00047	mg/Kg	✳	12/01/20 17:52	12/04/20 18:19	1
Bromomethane	<0.0015		0.0041	0.0015	mg/Kg	✳	12/01/20 17:52	12/04/20 18:19	1
2-Butanone (MEK)	<0.0018		0.0041	0.0018	mg/Kg	✳	12/01/20 17:52	12/04/20 18:19	1
Carbon disulfide	<0.00084		0.0041	0.00084	mg/Kg	✳	12/01/20 17:52	12/04/20 18:19	1
Carbon tetrachloride	<0.00047		0.0016	0.00047	mg/Kg	✳	12/01/20 17:52	12/04/20 18:19	1
Chlorobenzene	<0.00060		0.0016	0.00060	mg/Kg	✳	12/01/20 17:52	12/04/20 18:19	1
Chloroethane	<0.0012		0.0041	0.0012	mg/Kg	✳	12/01/20 17:52	12/04/20 18:19	1
Chloroform	<0.00056		0.0016	0.00056	mg/Kg	✳	12/01/20 17:52	12/04/20 18:19	1
Chloromethane	<0.0016		0.0041	0.0016	mg/Kg	✳	12/01/20 17:52	12/04/20 18:19	1
cis-1,2-Dichloroethene	<0.00045		0.0016	0.00045	mg/Kg	✳	12/01/20 17:52	12/04/20 18:19	1
cis-1,3-Dichloropropene	<0.00049		0.0016	0.00049	mg/Kg	✳	12/01/20 17:52	12/04/20 18:19	1
Dibromochloromethane	<0.00053		0.0016	0.00053	mg/Kg	✳	12/01/20 17:52	12/04/20 18:19	1
1,1-Dichloroethane	<0.00056		0.0016	0.00056	mg/Kg	✳	12/01/20 17:52	12/04/20 18:19	1
1,2-Dichloroethane	<0.0013		0.0041	0.0013	mg/Kg	✳	12/01/20 17:52	12/04/20 18:19	1
1,1-Dichloroethene	<0.00056		0.0016	0.00056	mg/Kg	✳	12/01/20 17:52	12/04/20 18:19	1
1,2-Dichloropropene	<0.00042		0.0016	0.00042	mg/Kg	✳	12/01/20 17:52	12/04/20 18:19	1
1,3-Dichloropropene, Total	<0.00057		0.0016	0.00057	mg/Kg	✳	12/01/20 17:52	12/04/20 18:19	1
Ethylbenzene	<0.00078		0.0016	0.00078	mg/Kg	✳	12/01/20 17:52	12/04/20 18:19	1
2-Hexanone	<0.0013		0.0041	0.0013	mg/Kg	✳	12/01/20 17:52	12/04/20 18:19	1
Methylene Chloride	<0.0016		0.0041	0.0016	mg/Kg	✳	12/01/20 17:52	12/04/20 18:19	1
4-Methyl-2-pentanone (MIBK)	<0.0012		0.0041	0.0012	mg/Kg	✳	12/01/20 17:52	12/04/20 18:19	1
Methyl tert-butyl ether	<0.00048		0.0016	0.00048	mg/Kg	✳	12/01/20 17:52	12/04/20 18:19	1
Styrene	<0.00049		0.0016	0.00049	mg/Kg	✳	12/01/20 17:52	12/04/20 18:19	1
1,1,2,2-Tetrachloroethane	<0.00052		0.0016	0.00052	mg/Kg	✳	12/01/20 17:52	12/04/20 18:19	1
Tetrachloroethene	<0.00055		0.0016	0.00055	mg/Kg	✳	12/01/20 17:52	12/04/20 18:19	1
Toluene	<0.00041		0.0016	0.00041	mg/Kg	✳	12/01/20 17:52	12/04/20 18:19	1
trans-1,2-Dichloroethene	<0.00072		0.0016	0.00072	mg/Kg	✳	12/01/20 17:52	12/04/20 18:19	1
trans-1,3-Dichloropropene	<0.00057		0.0016	0.00057	mg/Kg	✳	12/01/20 17:52	12/04/20 18:19	1
1,1,1-Trichloroethane	<0.00054		0.0016	0.00054	mg/Kg	✳	12/01/20 17:52	12/04/20 18:19	1
1,1,2-Trichloroethane	<0.00070		0.0016	0.00070	mg/Kg	✳	12/01/20 17:52	12/04/20 18:19	1
Trichloroethene	<0.00055		0.0016	0.00055	mg/Kg	✳	12/01/20 17:52	12/04/20 18:19	1
Vinyl acetate	<0.0014		0.0041	0.0014	mg/Kg	✳	12/01/20 17:52	12/04/20 18:19	1
Vinyl chloride	<0.00072		0.0016	0.00072	mg/Kg	✳	12/01/20 17:52	12/04/20 18:19	1
Xylenes, Total	<0.00052		0.0032	0.00052	mg/Kg	✳	12/01/20 17:52	12/04/20 18:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		75 - 131	12/01/20 17:52	12/04/20 18:19	1
Dibromofluoromethane	101		75 - 126	12/01/20 17:52	12/04/20 18:19	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	12/01/20 17:52	12/04/20 18:19	1
Toluene-d8 (Surr)	87		75 - 124	12/01/20 17:52	12/04/20 18:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0073		0.040	0.0073	mg/Kg	✳	12/02/20 07:48	12/03/20 05:45	1
Acenaphthylene	<0.0053		0.040	0.0053	mg/Kg	✳	12/02/20 07:48	12/03/20 05:45	1
Anthracene	<0.0068		0.040	0.0068	mg/Kg	✳	12/02/20 07:48	12/03/20 05:45	1
Benzo[a]anthracene	0.0072	J B	0.040	0.0054	mg/Kg	✳	12/02/20 07:48	12/03/20 05:45	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191730-1

Client Sample ID: 3138V-1-B02 (0-6)

Lab Sample ID: 500-191730-2

Date Collected: 11/30/20 11:15

Matrix: Solid

Date Received: 11/30/20 17:15

Percent Solids: 81.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.0093	J	0.040	0.0078	mg/Kg	☼	12/02/20 07:48	12/03/20 05:45	1
Benzo[b]fluoranthene	0.013	J B	0.040	0.0087	mg/Kg	☼	12/02/20 07:48	12/03/20 05:45	1
Benzo[g,h,i]perylene	<0.013		0.040	0.013	mg/Kg	☼	12/02/20 07:48	12/03/20 05:45	1
Benzo[k]fluoranthene	<0.012		0.040	0.012	mg/Kg	☼	12/02/20 07:48	12/03/20 05:45	1
Bis(2-chloroethoxy)methane	<0.041		0.20	0.041	mg/Kg	☼	12/02/20 07:48	12/03/20 05:45	1
Bis(2-chloroethyl)ether	<0.061		0.20	0.061	mg/Kg	☼	12/02/20 07:48	12/03/20 05:45	1
Bis(2-ethylhexyl) phthalate	<0.074		0.20	0.074	mg/Kg	☼	12/02/20 07:48	12/03/20 05:45	1
4-Bromophenyl phenyl ether	<0.053		0.20	0.053	mg/Kg	☼	12/02/20 07:48	12/03/20 05:45	1
Butyl benzyl phthalate	<0.077		0.20	0.077	mg/Kg	☼	12/02/20 07:48	12/03/20 05:45	1
Carbazole	<0.10		0.20	0.10	mg/Kg	☼	12/02/20 07:48	12/03/20 05:45	1
4-Chloroaniline	<0.19		0.82	0.19	mg/Kg	☼	12/02/20 07:48	12/03/20 05:45	1
4-Chloro-3-methylphenol	<0.14		0.40	0.14	mg/Kg	☼	12/02/20 07:48	12/03/20 05:45	1
2-Chloronaphthalene	<0.045		0.20	0.045	mg/Kg	☼	12/02/20 07:48	12/03/20 05:45	1
2-Chlorophenol	<0.069		0.20	0.069	mg/Kg	☼	12/02/20 07:48	12/03/20 05:45	1
4-Chlorophenyl phenyl ether	<0.047		0.20	0.047	mg/Kg	☼	12/02/20 07:48	12/03/20 05:45	1
Chrysene	<0.011		0.040	0.011	mg/Kg	☼	12/02/20 07:48	12/03/20 05:45	1
Dibenz(a,h)anthracene	<0.0078		0.040	0.0078	mg/Kg	☼	12/02/20 07:48	12/03/20 05:45	1
Dibenzofuran	<0.047		0.20	0.047	mg/Kg	☼	12/02/20 07:48	12/03/20 05:45	1
1,2-Dichlorobenzene	<0.048		0.20	0.048	mg/Kg	☼	12/02/20 07:48	12/03/20 05:45	1
1,3-Dichlorobenzene	<0.046		0.20	0.046	mg/Kg	☼	12/02/20 07:48	12/03/20 05:45	1
1,4-Dichlorobenzene	<0.052		0.20	0.052	mg/Kg	☼	12/02/20 07:48	12/03/20 05:45	1
3,3'-Dichlorobenzidine	<0.057		0.20	0.057	mg/Kg	☼	12/02/20 07:48	12/03/20 05:45	1
2,4-Dichlorophenol	<0.096		0.40	0.096	mg/Kg	☼	12/02/20 07:48	12/03/20 05:45	1
Diethyl phthalate	<0.069		0.20	0.069	mg/Kg	☼	12/02/20 07:48	12/03/20 05:45	1
2,4-Dimethylphenol	<0.15		0.40	0.15	mg/Kg	☼	12/02/20 07:48	12/03/20 05:45	1
Dimethyl phthalate	<0.053		0.20	0.053	mg/Kg	☼	12/02/20 07:48	12/03/20 05:45	1
Di-n-butyl phthalate	<0.062		0.20	0.062	mg/Kg	☼	12/02/20 07:48	12/03/20 05:45	1
4,6-Dinitro-2-methylphenol	<0.33		0.82	0.33	mg/Kg	☼	12/02/20 07:48	12/03/20 05:45	1
2,4-Dinitrophenol	<0.71		0.82	0.71	mg/Kg	☼	12/02/20 07:48	12/03/20 05:45	1
2,4-Dinitrotoluene	<0.064		0.20	0.064	mg/Kg	☼	12/02/20 07:48	12/03/20 05:45	1
2,6-Dinitrotoluene	<0.080		0.20	0.080	mg/Kg	☼	12/02/20 07:48	12/03/20 05:45	1
Di-n-octyl phthalate	<0.066		0.20	0.066	mg/Kg	☼	12/02/20 07:48	12/03/20 05:45	1
Fluoranthene	0.011	J B	0.040	0.0075	mg/Kg	☼	12/02/20 07:48	12/03/20 05:45	1
Fluorene	<0.0057		0.040	0.0057	mg/Kg	☼	12/02/20 07:48	12/03/20 05:45	1
Hexachlorobenzene	<0.0094		0.082	0.0094	mg/Kg	☼	12/02/20 07:48	12/03/20 05:45	1
Hexachlorobutadiene	<0.064		0.20	0.064	mg/Kg	☼	12/02/20 07:48	12/03/20 05:45	1
Hexachlorocyclopentadiene	<0.23		0.82	0.23	mg/Kg	☼	12/02/20 07:48	12/03/20 05:45	1
Hexachloroethane	<0.062		0.20	0.062	mg/Kg	☼	12/02/20 07:48	12/03/20 05:45	1
Indeno[1,2,3-cd]pyrene	<0.010		0.040	0.010	mg/Kg	☼	12/02/20 07:48	12/03/20 05:45	1
Isophorone	<0.045		0.20	0.045	mg/Kg	☼	12/02/20 07:48	12/03/20 05:45	1
2-Methylnaphthalene	<0.0074		0.082	0.0074	mg/Kg	☼	12/02/20 07:48	12/03/20 05:45	1
2-Methylphenol	<0.065		0.20	0.065	mg/Kg	☼	12/02/20 07:48	12/03/20 05:45	1
3 & 4 Methylphenol	<0.068		0.20	0.068	mg/Kg	☼	12/02/20 07:48	12/03/20 05:45	1
Naphthalene	<0.0062		0.040	0.0062	mg/Kg	☼	12/02/20 07:48	12/03/20 05:45	1
2-Nitroaniline	<0.054		0.20	0.054	mg/Kg	☼	12/02/20 07:48	12/03/20 05:45	1
3-Nitroaniline	<0.13		0.40	0.13	mg/Kg	☼	12/02/20 07:48	12/03/20 05:45	1
4-Nitroaniline	<0.17 *		0.40	0.17	mg/Kg	☼	12/02/20 07:48	12/03/20 05:45	1
Nitrobenzene	<0.010		0.040	0.010	mg/Kg	☼	12/02/20 07:48	12/03/20 05:45	1
2-Nitrophenol	<0.096		0.40	0.096	mg/Kg	☼	12/02/20 07:48	12/03/20 05:45	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191730-1

Client Sample ID: 3138V-1-B02 (0-6)

Lab Sample ID: 500-191730-2

Date Collected: 11/30/20 11:15

Matrix: Solid

Date Received: 11/30/20 17:15

Percent Solids: 81.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.39		0.82	0.39	mg/Kg	☼	12/02/20 07:48	12/03/20 05:45	1
N-Nitrosodi-n-propylamine	<0.049		0.082	0.049	mg/Kg	☼	12/02/20 07:48	12/03/20 05:45	1
N-Nitrosodiphenylamine	<0.048		0.20	0.048	mg/Kg	☼	12/02/20 07:48	12/03/20 05:45	1
2,2'-oxybis[1-chloropropane]	<0.047		0.20	0.047	mg/Kg	☼	12/02/20 07:48	12/03/20 05:45	1
Pentachlorophenol	<0.65		0.82	0.65	mg/Kg	☼	12/02/20 07:48	12/03/20 05:45	1
Phenanthrene	0.0061	J B	0.040	0.0056	mg/Kg	☼	12/02/20 07:48	12/03/20 05:45	1
Phenol	<0.090		0.20	0.090	mg/Kg	☼	12/02/20 07:48	12/03/20 05:45	1
Pyrene	0.013	J B	0.040	0.0080	mg/Kg	☼	12/02/20 07:48	12/03/20 05:45	1
1,2,4-Trichlorobenzene	<0.044		0.20	0.044	mg/Kg	☼	12/02/20 07:48	12/03/20 05:45	1
2,4,5-Trichlorophenol	<0.092		0.40	0.092	mg/Kg	☼	12/02/20 07:48	12/03/20 05:45	1
2,4,6-Trichlorophenol	<0.14		0.40	0.14	mg/Kg	☼	12/02/20 07:48	12/03/20 05:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	60		43 - 145				12/02/20 07:48	12/03/20 05:45	1
2-Fluorophenol	75		31 - 166				12/02/20 07:48	12/03/20 05:45	1
Nitrobenzene-d5	64		37 - 147				12/02/20 07:48	12/03/20 05:45	1
Phenol-d5	80		30 - 153				12/02/20 07:48	12/03/20 05:45	1
Terphenyl-d14	93		42 - 157				12/02/20 07:48	12/03/20 05:45	1
2,4,6-Tribromophenol	43		31 - 143				12/02/20 07:48	12/03/20 05:45	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.71	J	1.1	0.22	mg/Kg	☼	12/03/20 17:51	12/04/20 19:12	1
Arsenic	4.5		0.57	0.19	mg/Kg	☼	12/03/20 17:51	12/04/20 19:12	1
Barium	39		0.57	0.065	mg/Kg	☼	12/03/20 17:51	12/04/20 19:12	1
Beryllium	0.59		0.23	0.053	mg/Kg	☼	12/03/20 17:51	12/04/20 19:12	1
Cadmium	0.41	B	0.11	0.020	mg/Kg	☼	12/03/20 17:51	12/04/20 19:12	1
Chromium	14		0.57	0.28	mg/Kg	☼	12/03/20 17:51	12/04/20 19:12	1
Cobalt	8.1		0.28	0.074	mg/Kg	☼	12/03/20 17:51	12/04/20 19:12	1
Copper	19		0.57	0.16	mg/Kg	☼	12/03/20 17:51	12/04/20 19:12	1
Iron	14000		11	5.9	mg/Kg	☼	12/03/20 17:51	12/04/20 19:12	1
Lead	71		0.28	0.13	mg/Kg	☼	12/03/20 17:51	12/04/20 19:12	1
Magnesium	23000	B	5.7	2.8	mg/Kg	☼	12/03/20 17:51	12/04/20 19:12	1
Calcium	54000	B	110	19	mg/Kg	☼	12/03/20 17:51	12/07/20 14:42	10
Manganese	410		0.57	0.082	mg/Kg	☼	12/03/20 17:51	12/04/20 19:12	1
Nickel	19		0.57	0.16	mg/Kg	☼	12/03/20 17:51	12/04/20 19:12	1
Selenium	<0.33		0.57	0.33	mg/Kg	☼	12/03/20 17:51	12/04/20 19:12	1
Silver	0.14	J	0.28	0.073	mg/Kg	☼	12/03/20 17:51	12/04/20 19:12	1
Thallium	<0.28		0.57	0.28	mg/Kg	☼	12/03/20 17:51	12/04/20 19:12	1
Vanadium	21		0.28	0.067	mg/Kg	☼	12/03/20 17:51	12/04/20 19:12	1
Zinc	63		1.1	0.50	mg/Kg	☼	12/03/20 17:51	12/04/20 19:12	1
Potassium	1700		28	10	mg/Kg	☼	12/03/20 17:51	12/04/20 19:12	1
Sodium	1200		57	8.4	mg/Kg	☼	12/03/20 17:51	12/04/20 19:12	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		12/03/20 16:40	12/04/20 13:16	1
Barium	0.49	J	0.50	0.050	mg/L		12/03/20 16:40	12/04/20 13:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/03/20 16:40	12/04/20 13:16	1
Cadmium	0.0027	J	0.0050	0.0020	mg/L		12/03/20 16:40	12/04/20 13:16	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191730-1

Client Sample ID: 3138V-1-B02 (0-6)

Lab Sample ID: 500-191730-2

Date Collected: 11/30/20 11:15

Matrix: Solid

Date Received: 11/30/20 17:15

Percent Solids: 81.9

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		12/03/20 16:40	12/04/20 13:16	1
Chromium	<0.010		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 13:16	1
Cobalt	0.035		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 13:16	1
Copper	<0.010		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 13:16	1
Iron	<0.20	*	0.40	0.20	mg/L		12/03/20 16:40	12/04/20 13:16	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/03/20 16:40	12/04/20 13:16	1
Magnesium	49		2.5	0.50	mg/L		12/03/20 16:40	12/04/20 13:16	1
Manganese	7.2		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 13:16	1
Nickel	0.026		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 13:16	1
Potassium	2.7		2.5	0.50	mg/L		12/07/20 17:01	12/08/20 11:42	1
Selenium	<0.020		0.050	0.020	mg/L		12/03/20 16:40	12/04/20 13:16	1
Silver	<0.010		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 13:16	1
Vanadium	<0.010		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 13:16	1
Zinc	0.023	J B	0.50	0.020	mg/L		12/03/20 16:40	12/04/20 13:16	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		12/03/20 16:43	12/04/20 14:31	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		12/03/20 16:40	12/04/20 17:13	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/03/20 16:40	12/04/20 17:13	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/04/20 08:15	12/07/20 08:03	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.020	0.0066	mg/Kg	⊛	12/02/20 13:05	12/03/20 12:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.15		0.29	0.15	mg/Kg	⊛	12/04/20 14:54	12/04/20 17:21	1
pH	8.4		0.2	0.2	SU			12/03/20 17:47	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191730-1

Client Sample ID: 3138V-1-B02 (0-6) Dup

Lab Sample ID: 500-191730-3

Date Collected: 11/30/20 11:20

Matrix: Solid

Date Received: 11/30/20 17:15

Percent Solids: 81.3

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	✱	12/01/20 17:52	12/04/20 18:45	1
Benzene	<0.00040		0.0016	0.00040	mg/Kg	✱	12/01/20 17:52	12/04/20 18:45	1
Bromodichloromethane	<0.00032		0.0016	0.00032	mg/Kg	✱	12/01/20 17:52	12/04/20 18:45	1
Bromoform	<0.00046		0.0016	0.00046	mg/Kg	✱	12/01/20 17:52	12/04/20 18:45	1
Bromomethane	<0.0015		0.0039	0.0015	mg/Kg	✱	12/01/20 17:52	12/04/20 18:45	1
2-Butanone (MEK)	<0.0017		0.0039	0.0017	mg/Kg	✱	12/01/20 17:52	12/04/20 18:45	1
Carbon disulfide	<0.00082		0.0039	0.00082	mg/Kg	✱	12/01/20 17:52	12/04/20 18:45	1
Carbon tetrachloride	<0.00046		0.0016	0.00046	mg/Kg	✱	12/01/20 17:52	12/04/20 18:45	1
Chlorobenzene	<0.00058		0.0016	0.00058	mg/Kg	✱	12/01/20 17:52	12/04/20 18:45	1
Chloroethane	<0.0012		0.0039	0.0012	mg/Kg	✱	12/01/20 17:52	12/04/20 18:45	1
Chloroform	<0.00055		0.0016	0.00055	mg/Kg	✱	12/01/20 17:52	12/04/20 18:45	1
Chloromethane	<0.0016		0.0039	0.0016	mg/Kg	✱	12/01/20 17:52	12/04/20 18:45	1
cis-1,2-Dichloroethene	<0.00044		0.0016	0.00044	mg/Kg	✱	12/01/20 17:52	12/04/20 18:45	1
cis-1,3-Dichloropropene	<0.00047		0.0016	0.00047	mg/Kg	✱	12/01/20 17:52	12/04/20 18:45	1
Dibromochloromethane	<0.00051		0.0016	0.00051	mg/Kg	✱	12/01/20 17:52	12/04/20 18:45	1
1,1-Dichloroethane	<0.00054		0.0016	0.00054	mg/Kg	✱	12/01/20 17:52	12/04/20 18:45	1
1,2-Dichloroethane	<0.0012		0.0039	0.0012	mg/Kg	✱	12/01/20 17:52	12/04/20 18:45	1
1,1-Dichloroethene	<0.00054		0.0016	0.00054	mg/Kg	✱	12/01/20 17:52	12/04/20 18:45	1
1,2-Dichloropropene	<0.00041		0.0016	0.00041	mg/Kg	✱	12/01/20 17:52	12/04/20 18:45	1
1,3-Dichloropropene, Total	<0.00055		0.0016	0.00055	mg/Kg	✱	12/01/20 17:52	12/04/20 18:45	1
Ethylbenzene	<0.00075		0.0016	0.00075	mg/Kg	✱	12/01/20 17:52	12/04/20 18:45	1
2-Hexanone	<0.0012		0.0039	0.0012	mg/Kg	✱	12/01/20 17:52	12/04/20 18:45	1
Methylene Chloride	<0.0016		0.0039	0.0016	mg/Kg	✱	12/01/20 17:52	12/04/20 18:45	1
4-Methyl-2-pentanone (MIBK)	<0.0012		0.0039	0.0012	mg/Kg	✱	12/01/20 17:52	12/04/20 18:45	1
Methyl tert-butyl ether	<0.00046		0.0016	0.00046	mg/Kg	✱	12/01/20 17:52	12/04/20 18:45	1
Styrene	<0.00048		0.0016	0.00048	mg/Kg	✱	12/01/20 17:52	12/04/20 18:45	1
1,1,2,2-Tetrachloroethane	<0.00050		0.0016	0.00050	mg/Kg	✱	12/01/20 17:52	12/04/20 18:45	1
Tetrachloroethene	<0.00054		0.0016	0.00054	mg/Kg	✱	12/01/20 17:52	12/04/20 18:45	1
Toluene	<0.00040		0.0016	0.00040	mg/Kg	✱	12/01/20 17:52	12/04/20 18:45	1
trans-1,2-Dichloroethene	<0.00070		0.0016	0.00070	mg/Kg	✱	12/01/20 17:52	12/04/20 18:45	1
trans-1,3-Dichloropropene	<0.00055		0.0016	0.00055	mg/Kg	✱	12/01/20 17:52	12/04/20 18:45	1
1,1,1-Trichloroethane	<0.00053		0.0016	0.00053	mg/Kg	✱	12/01/20 17:52	12/04/20 18:45	1
1,1,2-Trichloroethane	<0.00068		0.0016	0.00068	mg/Kg	✱	12/01/20 17:52	12/04/20 18:45	1
Trichloroethene	<0.00053		0.0016	0.00053	mg/Kg	✱	12/01/20 17:52	12/04/20 18:45	1
Vinyl acetate	<0.0014		0.0039	0.0014	mg/Kg	✱	12/01/20 17:52	12/04/20 18:45	1
Vinyl chloride	<0.00070		0.0016	0.00070	mg/Kg	✱	12/01/20 17:52	12/04/20 18:45	1
Xylenes, Total	<0.00050		0.0031	0.00050	mg/Kg	✱	12/01/20 17:52	12/04/20 18:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		75 - 131	12/01/20 17:52	12/04/20 18:45	1
Dibromofluoromethane	100		75 - 126	12/01/20 17:52	12/04/20 18:45	1
1,2-Dichloroethane-d4 (Surr)	88		70 - 134	12/01/20 17:52	12/04/20 18:45	1
Toluene-d8 (Surr)	88		75 - 124	12/01/20 17:52	12/04/20 18:45	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	✱	12/04/20 08:51	12/05/20 18:28	1
Acenaphthylene	<0.0052		0.039	0.0052	mg/Kg	✱	12/04/20 08:51	12/05/20 18:28	1
Anthracene	<0.0066		0.039	0.0066	mg/Kg	✱	12/04/20 08:51	12/05/20 18:28	1
Benzo[a]anthracene	0.032	J	0.039	0.0053	mg/Kg	✱	12/04/20 08:51	12/05/20 18:28	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191730-1

Client Sample ID: 3138V-1-B02 (0-6) Dup

Lab Sample ID: 500-191730-3

Date Collected: 11/30/20 11:20

Matrix: Solid

Date Received: 11/30/20 17:15

Percent Solids: 81.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.040		0.039	0.0077	mg/Kg	☼	12/04/20 08:51	12/05/20 18:28	1
Benzo[b]fluoranthene	0.055		0.039	0.0085	mg/Kg	☼	12/04/20 08:51	12/05/20 18:28	1
Benzo[g,h,i]perylene	0.027	J	0.039	0.013	mg/Kg	☼	12/04/20 08:51	12/05/20 18:28	1
Benzo[k]fluoranthene	0.015	J	0.039	0.012	mg/Kg	☼	12/04/20 08:51	12/05/20 18:28	1
Bis(2-chloroethoxy)methane	<0.040		0.20	0.040	mg/Kg	☼	12/04/20 08:51	12/05/20 18:28	1
Bis(2-chloroethyl)ether	<0.059		0.20	0.059	mg/Kg	☼	12/04/20 08:51	12/05/20 18:28	1
Bis(2-ethylhexyl) phthalate	<0.072		0.20	0.072	mg/Kg	☼	12/04/20 08:51	12/05/20 18:28	1
4-Bromophenyl phenyl ether	<0.052		0.20	0.052	mg/Kg	☼	12/04/20 08:51	12/05/20 18:28	1
Butyl benzyl phthalate	<0.075		0.20	0.075	mg/Kg	☼	12/04/20 08:51	12/05/20 18:28	1
Carbazole	<0.099		0.20	0.099	mg/Kg	☼	12/04/20 08:51	12/05/20 18:28	1
4-Chloroaniline	<0.19		0.80	0.19	mg/Kg	☼	12/04/20 08:51	12/05/20 18:28	1
4-Chloro-3-methylphenol	<0.13		0.39	0.13	mg/Kg	☼	12/04/20 08:51	12/05/20 18:28	1
2-Chloronaphthalene	<0.044		0.20	0.044	mg/Kg	☼	12/04/20 08:51	12/05/20 18:28	1
2-Chlorophenol	<0.068		0.20	0.068	mg/Kg	☼	12/04/20 08:51	12/05/20 18:28	1
4-Chlorophenyl phenyl ether	<0.046		0.20	0.046	mg/Kg	☼	12/04/20 08:51	12/05/20 18:28	1
Chrysene	0.043		0.039	0.011	mg/Kg	☼	12/04/20 08:51	12/05/20 18:28	1
Dibenz(a,h)anthracene	<0.0077		0.039	0.0077	mg/Kg	☼	12/04/20 08:51	12/05/20 18:28	1
Dibenzofuran	<0.046		0.20	0.046	mg/Kg	☼	12/04/20 08:51	12/05/20 18:28	1
1,2-Dichlorobenzene	<0.047		0.20	0.047	mg/Kg	☼	12/04/20 08:51	12/05/20 18:28	1
1,3-Dichlorobenzene	<0.045		0.20	0.045	mg/Kg	☼	12/04/20 08:51	12/05/20 18:28	1
1,4-Dichlorobenzene	<0.051		0.20	0.051	mg/Kg	☼	12/04/20 08:51	12/05/20 18:28	1
3,3'-Dichlorobenzidine	<0.055		0.20	0.055	mg/Kg	☼	12/04/20 08:51	12/05/20 18:28	1
2,4-Dichlorophenol	<0.094		0.39	0.094	mg/Kg	☼	12/04/20 08:51	12/05/20 18:28	1
Diethyl phthalate	<0.067		0.20	0.067	mg/Kg	☼	12/04/20 08:51	12/05/20 18:28	1
2,4-Dimethylphenol	<0.15		0.39	0.15	mg/Kg	☼	12/04/20 08:51	12/05/20 18:28	1
Dimethyl phthalate	<0.052		0.20	0.052	mg/Kg	☼	12/04/20 08:51	12/05/20 18:28	1
Di-n-butyl phthalate	<0.060		0.20	0.060	mg/Kg	☼	12/04/20 08:51	12/05/20 18:28	1
4,6-Dinitro-2-methylphenol	<0.32		0.80	0.32	mg/Kg	☼	12/04/20 08:51	12/05/20 18:28	1
2,4-Dinitrophenol	<0.70		0.80	0.70	mg/Kg	☼	12/04/20 08:51	12/05/20 18:28	1
2,4-Dinitrotoluene	<0.063		0.20	0.063	mg/Kg	☼	12/04/20 08:51	12/05/20 18:28	1
2,6-Dinitrotoluene	<0.078		0.20	0.078	mg/Kg	☼	12/04/20 08:51	12/05/20 18:28	1
Di-n-octyl phthalate	<0.065		0.20	0.065	mg/Kg	☼	12/04/20 08:51	12/05/20 18:28	1
Fluoranthene	0.066		0.039	0.0073	mg/Kg	☼	12/04/20 08:51	12/05/20 18:28	1
Fluorene	<0.0056		0.039	0.0056	mg/Kg	☼	12/04/20 08:51	12/05/20 18:28	1
Hexachlorobenzene	<0.0092		0.080	0.0092	mg/Kg	☼	12/04/20 08:51	12/05/20 18:28	1
Hexachlorobutadiene	<0.062		0.20	0.062	mg/Kg	☼	12/04/20 08:51	12/05/20 18:28	1
Hexachlorocyclopentadiene	<0.23		0.80	0.23	mg/Kg	☼	12/04/20 08:51	12/05/20 18:28	1
Hexachloroethane	<0.060		0.20	0.060	mg/Kg	☼	12/04/20 08:51	12/05/20 18:28	1
Indeno[1,2,3-cd]pyrene	0.020	J	0.039	0.010	mg/Kg	☼	12/04/20 08:51	12/05/20 18:28	1
Isophorone	<0.044		0.20	0.044	mg/Kg	☼	12/04/20 08:51	12/05/20 18:28	1
2-Methylnaphthalene	<0.0073		0.080	0.0073	mg/Kg	☼	12/04/20 08:51	12/05/20 18:28	1
2-Methylphenol	<0.064		0.20	0.064	mg/Kg	☼	12/04/20 08:51	12/05/20 18:28	1
3 & 4 Methylphenol	<0.066		0.20	0.066	mg/Kg	☼	12/04/20 08:51	12/05/20 18:28	1
Naphthalene	<0.0061		0.039	0.0061	mg/Kg	☼	12/04/20 08:51	12/05/20 18:28	1
2-Nitroaniline	<0.053		0.20	0.053	mg/Kg	☼	12/04/20 08:51	12/05/20 18:28	1
3-Nitroaniline	<0.12		0.39	0.12	mg/Kg	☼	12/04/20 08:51	12/05/20 18:28	1
4-Nitroaniline	<0.17		0.39	0.17	mg/Kg	☼	12/04/20 08:51	12/05/20 18:28	1
Nitrobenzene	<0.0099		0.039	0.0099	mg/Kg	☼	12/04/20 08:51	12/05/20 18:28	1
2-Nitrophenol	<0.094		0.39	0.094	mg/Kg	☼	12/04/20 08:51	12/05/20 18:28	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191730-1

Client Sample ID: 3138V-1-B02 (0-6) Dup

Lab Sample ID: 500-191730-3

Date Collected: 11/30/20 11:20

Matrix: Solid

Date Received: 11/30/20 17:15

Percent Solids: 81.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.38		0.80	0.38	mg/Kg	☼	12/04/20 08:51	12/05/20 18:28	1
N-Nitrosodi-n-propylamine	<0.048		0.080	0.048	mg/Kg	☼	12/04/20 08:51	12/05/20 18:28	1
N-Nitrosodiphenylamine	<0.047		0.20	0.047	mg/Kg	☼	12/04/20 08:51	12/05/20 18:28	1
2,2'-oxybis[1-chloropropane]	<0.046		0.20	0.046	mg/Kg	☼	12/04/20 08:51	12/05/20 18:28	1
Pentachlorophenol	<0.64		0.80	0.64	mg/Kg	☼	12/04/20 08:51	12/05/20 18:28	1
Phenanthrene	0.030	J	0.039	0.0055	mg/Kg	☼	12/04/20 08:51	12/05/20 18:28	1
Phenol	<0.088		0.20	0.088	mg/Kg	☼	12/04/20 08:51	12/05/20 18:28	1
Pyrene	0.066		0.039	0.0079	mg/Kg	☼	12/04/20 08:51	12/05/20 18:28	1
1,2,4-Trichlorobenzene	<0.043		0.20	0.043	mg/Kg	☼	12/04/20 08:51	12/05/20 18:28	1
2,4,5-Trichlorophenol	<0.090		0.39	0.090	mg/Kg	☼	12/04/20 08:51	12/05/20 18:28	1
2,4,6-Trichlorophenol	<0.14		0.39	0.14	mg/Kg	☼	12/04/20 08:51	12/05/20 18:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	73		43 - 145				12/04/20 08:51	12/05/20 18:28	1
2-Fluorophenol	85		31 - 166				12/04/20 08:51	12/05/20 18:28	1
Nitrobenzene-d5	74		37 - 147				12/04/20 08:51	12/05/20 18:28	1
Phenol-d5	83		30 - 153				12/04/20 08:51	12/05/20 18:28	1
Terphenyl-d14	104		42 - 157				12/04/20 08:51	12/05/20 18:28	1
2,4,6-Tribromophenol	74		31 - 143				12/04/20 08:51	12/05/20 18:28	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.77	J	1.2	0.24	mg/Kg	☼	12/03/20 17:51	12/04/20 19:16	1
Arsenic	5.7		0.61	0.21	mg/Kg	☼	12/03/20 17:51	12/04/20 19:16	1
Barium	59		0.61	0.070	mg/Kg	☼	12/03/20 17:51	12/04/20 19:16	1
Beryllium	0.93		0.24	0.057	mg/Kg	☼	12/03/20 17:51	12/04/20 19:16	1
Cadmium	0.33	B	0.12	0.022	mg/Kg	☼	12/03/20 17:51	12/04/20 19:16	1
Chromium	20		0.61	0.30	mg/Kg	☼	12/03/20 17:51	12/04/20 19:16	1
Cobalt	12		0.31	0.080	mg/Kg	☼	12/03/20 17:51	12/04/20 19:16	1
Copper	23		0.61	0.17	mg/Kg	☼	12/03/20 17:51	12/04/20 19:16	1
Iron	19000		12	6.3	mg/Kg	☼	12/03/20 17:51	12/04/20 19:16	1
Lead	160		0.31	0.14	mg/Kg	☼	12/03/20 17:51	12/04/20 19:16	1
Magnesium	24000	B	6.1	3.0	mg/Kg	☼	12/03/20 17:51	12/04/20 19:16	1
Calcium	74000	B	120	21	mg/Kg	☼	12/03/20 17:51	12/07/20 14:45	10
Manganese	350		0.61	0.089	mg/Kg	☼	12/03/20 17:51	12/04/20 19:16	1
Nickel	30		0.61	0.18	mg/Kg	☼	12/03/20 17:51	12/04/20 19:16	1
Selenium	<0.36		0.61	0.36	mg/Kg	☼	12/03/20 17:51	12/04/20 19:16	1
Silver	0.13	J	0.31	0.079	mg/Kg	☼	12/03/20 17:51	12/04/20 19:16	1
Thallium	<0.30		0.61	0.30	mg/Kg	☼	12/03/20 17:51	12/04/20 19:16	1
Vanadium	27		0.31	0.072	mg/Kg	☼	12/03/20 17:51	12/04/20 19:16	1
Zinc	63		1.2	0.54	mg/Kg	☼	12/03/20 17:51	12/04/20 19:16	1
Potassium	3200		31	11	mg/Kg	☼	12/03/20 17:51	12/04/20 19:16	1
Sodium	1700		61	9.0	mg/Kg	☼	12/03/20 17:51	12/04/20 19:16	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		12/03/20 16:40	12/04/20 13:26	1
Barium	0.49	J	0.50	0.050	mg/L		12/03/20 16:40	12/04/20 13:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/03/20 16:40	12/04/20 13:26	1
Cadmium	0.0028	J	0.0050	0.0020	mg/L		12/03/20 16:40	12/04/20 13:26	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191730-1

Client Sample ID: 3138V-1-B02 (0-6) Dup

Lab Sample ID: 500-191730-3

Date Collected: 11/30/20 11:20

Matrix: Solid

Date Received: 11/30/20 17:15

Percent Solids: 81.3

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		12/03/20 16:40	12/04/20 13:26	1
Chromium	<0.010		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 13:26	1
Cobalt	0.035		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 13:26	1
Copper	<0.010		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 13:26	1
Iron	<0.20	*	0.40	0.20	mg/L		12/03/20 16:40	12/04/20 13:26	1
Lead	0.010		0.0075	0.0075	mg/L		12/03/20 16:40	12/04/20 13:26	1
Magnesium	43		2.5	0.50	mg/L		12/03/20 16:40	12/04/20 13:26	1
Manganese	5.6		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 13:26	1
Nickel	0.031		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 13:26	1
Potassium	2.7		2.5	0.50	mg/L		12/07/20 17:01	12/08/20 11:46	1
Selenium	<0.020		0.050	0.020	mg/L		12/03/20 16:40	12/04/20 13:26	1
Silver	<0.010		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 13:26	1
Vanadium	<0.010		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 13:26	1
Zinc	<0.020		0.50	0.020	mg/L		12/03/20 16:40	12/04/20 13:26	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.25		0.0075	0.0075	mg/L		12/03/20 16:43	12/04/20 14:35	1
Manganese	1.3		0.025	0.010	mg/L		12/03/20 16:43	12/04/20 14:35	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		12/03/20 16:40	12/04/20 17:15	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/03/20 16:40	12/04/20 17:15	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/04/20 08:15	12/07/20 08:05	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.019	0.0064	mg/Kg	✱	12/02/20 13:05	12/03/20 12:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.18	J	0.25	0.13	mg/Kg	✱	12/04/20 14:54	12/04/20 17:22	1
pH	8.8		0.2	0.2	SU			12/03/20 17:49	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191730-1

Client Sample ID: 3138V-1-B02 (6-12.5)

Lab Sample ID: 500-191730-4

Date Collected: 11/30/20 11:30

Matrix: Solid

Date Received: 11/30/20 17:15

Percent Solids: 80.9

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	✳	12/01/20 17:52	12/04/20 19:10	1
Benzene	<0.00040		0.0016	0.00040	mg/Kg	✳	12/01/20 17:52	12/04/20 19:10	1
Bromodichloromethane	<0.00032		0.0016	0.00032	mg/Kg	✳	12/01/20 17:52	12/04/20 19:10	1
Bromoform	<0.00046		0.0016	0.00046	mg/Kg	✳	12/01/20 17:52	12/04/20 19:10	1
Bromomethane	<0.0015		0.0039	0.0015	mg/Kg	✳	12/01/20 17:52	12/04/20 19:10	1
2-Butanone (MEK)	<0.0018		0.0039	0.0018	mg/Kg	✳	12/01/20 17:52	12/04/20 19:10	1
Carbon disulfide	<0.00082		0.0039	0.00082	mg/Kg	✳	12/01/20 17:52	12/04/20 19:10	1
Carbon tetrachloride	<0.00046		0.0016	0.00046	mg/Kg	✳	12/01/20 17:52	12/04/20 19:10	1
Chlorobenzene	<0.00058		0.0016	0.00058	mg/Kg	✳	12/01/20 17:52	12/04/20 19:10	1
Chloroethane	<0.0012		0.0039	0.0012	mg/Kg	✳	12/01/20 17:52	12/04/20 19:10	1
Chloroform	<0.00055		0.0016	0.00055	mg/Kg	✳	12/01/20 17:52	12/04/20 19:10	1
Chloromethane	<0.0016		0.0039	0.0016	mg/Kg	✳	12/01/20 17:52	12/04/20 19:10	1
cis-1,2-Dichloroethene	<0.00044		0.0016	0.00044	mg/Kg	✳	12/01/20 17:52	12/04/20 19:10	1
cis-1,3-Dichloropropene	<0.00048		0.0016	0.00048	mg/Kg	✳	12/01/20 17:52	12/04/20 19:10	1
Dibromochloromethane	<0.00052		0.0016	0.00052	mg/Kg	✳	12/01/20 17:52	12/04/20 19:10	1
1,1-Dichloroethane	<0.00054		0.0016	0.00054	mg/Kg	✳	12/01/20 17:52	12/04/20 19:10	1
1,2-Dichloroethane	<0.0012		0.0039	0.0012	mg/Kg	✳	12/01/20 17:52	12/04/20 19:10	1
1,1-Dichloroethene	<0.00054		0.0016	0.00054	mg/Kg	✳	12/01/20 17:52	12/04/20 19:10	1
1,2-Dichloropropene	<0.00041		0.0016	0.00041	mg/Kg	✳	12/01/20 17:52	12/04/20 19:10	1
1,3-Dichloropropene, Total	<0.00055		0.0016	0.00055	mg/Kg	✳	12/01/20 17:52	12/04/20 19:10	1
Ethylbenzene	<0.00075		0.0016	0.00075	mg/Kg	✳	12/01/20 17:52	12/04/20 19:10	1
2-Hexanone	<0.0012		0.0039	0.0012	mg/Kg	✳	12/01/20 17:52	12/04/20 19:10	1
Methylene Chloride	<0.0016		0.0039	0.0016	mg/Kg	✳	12/01/20 17:52	12/04/20 19:10	1
4-Methyl-2-pentanone (MIBK)	<0.0012		0.0039	0.0012	mg/Kg	✳	12/01/20 17:52	12/04/20 19:10	1
Methyl tert-butyl ether	<0.00046		0.0016	0.00046	mg/Kg	✳	12/01/20 17:52	12/04/20 19:10	1
Styrene	<0.00048		0.0016	0.00048	mg/Kg	✳	12/01/20 17:52	12/04/20 19:10	1
1,1,2,2-Tetrachloroethane	<0.00050		0.0016	0.00050	mg/Kg	✳	12/01/20 17:52	12/04/20 19:10	1
Tetrachloroethene	<0.00054		0.0016	0.00054	mg/Kg	✳	12/01/20 17:52	12/04/20 19:10	1
Toluene	<0.00040		0.0016	0.00040	mg/Kg	✳	12/01/20 17:52	12/04/20 19:10	1
trans-1,2-Dichloroethene	<0.00070		0.0016	0.00070	mg/Kg	✳	12/01/20 17:52	12/04/20 19:10	1
trans-1,3-Dichloropropene	<0.00055		0.0016	0.00055	mg/Kg	✳	12/01/20 17:52	12/04/20 19:10	1
1,1,1-Trichloroethane	<0.00053		0.0016	0.00053	mg/Kg	✳	12/01/20 17:52	12/04/20 19:10	1
1,1,2-Trichloroethane	<0.00068		0.0016	0.00068	mg/Kg	✳	12/01/20 17:52	12/04/20 19:10	1
Trichloroethene	<0.00053		0.0016	0.00053	mg/Kg	✳	12/01/20 17:52	12/04/20 19:10	1
Vinyl acetate	<0.0014		0.0039	0.0014	mg/Kg	✳	12/01/20 17:52	12/04/20 19:10	1
Vinyl chloride	<0.00070		0.0016	0.00070	mg/Kg	✳	12/01/20 17:52	12/04/20 19:10	1
Xylenes, Total	<0.00050		0.0032	0.00050	mg/Kg	✳	12/01/20 17:52	12/04/20 19:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		75 - 131	12/01/20 17:52	12/04/20 19:10	1
Dibromofluoromethane	102		75 - 126	12/01/20 17:52	12/04/20 19:10	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	12/01/20 17:52	12/04/20 19:10	1
Toluene-d8 (Surr)	88		75 - 124	12/01/20 17:52	12/04/20 19:10	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	✳	12/02/20 07:50	12/03/20 06:47	1
Acenaphthylene	<0.0053		0.040	0.0053	mg/Kg	✳	12/02/20 07:50	12/03/20 06:47	1
Anthracene	<0.0067		0.040	0.0067	mg/Kg	✳	12/02/20 07:50	12/03/20 06:47	1
Benzo[a]anthracene	<0.0054		0.040	0.0054	mg/Kg	✳	12/02/20 07:50	12/03/20 06:47	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191730-1

Client Sample ID: 3138V-1-B02 (6-12.5)

Lab Sample ID: 500-191730-4

Date Collected: 11/30/20 11:30

Matrix: Solid

Date Received: 11/30/20 17:15

Percent Solids: 80.9

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	☼	12/02/20 07:50	12/03/20 06:47	1
Benzo[b]fluoranthene	<0.0086		0.040	0.0086	mg/Kg	☼	12/02/20 07:50	12/03/20 06:47	1
Benzo[g,h,i]perylene	<0.013		0.040	0.013	mg/Kg	☼	12/02/20 07:50	12/03/20 06:47	1
Benzo[k]fluoranthene	<0.012		0.040	0.012	mg/Kg	☼	12/02/20 07:50	12/03/20 06:47	1
Bis(2-chloroethoxy)methane	<0.041		0.20	0.041	mg/Kg	☼	12/02/20 07:50	12/03/20 06:47	1
Bis(2-chloroethyl)ether	<0.060		0.20	0.060	mg/Kg	☼	12/02/20 07:50	12/03/20 06:47	1
Bis(2-ethylhexyl) phthalate	<0.073		0.20	0.073	mg/Kg	☼	12/02/20 07:50	12/03/20 06:47	1
4-Bromophenyl phenyl ether	<0.053		0.20	0.053	mg/Kg	☼	12/02/20 07:50	12/03/20 06:47	1
Butyl benzyl phthalate	<0.076		0.20	0.076	mg/Kg	☼	12/02/20 07:50	12/03/20 06:47	1
Carbazole	<0.10		0.20	0.10	mg/Kg	☼	12/02/20 07:50	12/03/20 06:47	1
4-Chloroaniline	<0.19		0.81	0.19	mg/Kg	☼	12/02/20 07:50	12/03/20 06:47	1
4-Chloro-3-methylphenol	<0.14		0.40	0.14	mg/Kg	☼	12/02/20 07:50	12/03/20 06:47	1
2-Chloronaphthalene	<0.044		0.20	0.044	mg/Kg	☼	12/02/20 07:50	12/03/20 06:47	1
2-Chlorophenol	<0.068		0.20	0.068	mg/Kg	☼	12/02/20 07:50	12/03/20 06:47	1
4-Chlorophenyl phenyl ether	<0.047		0.20	0.047	mg/Kg	☼	12/02/20 07:50	12/03/20 06:47	1
Chrysene	<0.011		0.040	0.011	mg/Kg	☼	12/02/20 07:50	12/03/20 06:47	1
Dibenz(a,h)anthracene	<0.0077		0.040	0.0077	mg/Kg	☼	12/02/20 07:50	12/03/20 06:47	1
Dibenzofuran	<0.047		0.20	0.047	mg/Kg	☼	12/02/20 07:50	12/03/20 06:47	1
1,2-Dichlorobenzene	<0.048		0.20	0.048	mg/Kg	☼	12/02/20 07:50	12/03/20 06:47	1
1,3-Dichlorobenzene	<0.045		0.20	0.045	mg/Kg	☼	12/02/20 07:50	12/03/20 06:47	1
1,4-Dichlorobenzene	<0.051		0.20	0.051	mg/Kg	☼	12/02/20 07:50	12/03/20 06:47	1
3,3'-Dichlorobenzidine	<0.056		0.20	0.056	mg/Kg	☼	12/02/20 07:50	12/03/20 06:47	1
2,4-Dichlorophenol	<0.095		0.40	0.095	mg/Kg	☼	12/02/20 07:50	12/03/20 06:47	1
Diethyl phthalate	<0.068		0.20	0.068	mg/Kg	☼	12/02/20 07:50	12/03/20 06:47	1
2,4-Dimethylphenol	<0.15		0.40	0.15	mg/Kg	☼	12/02/20 07:50	12/03/20 06:47	1
Dimethyl phthalate	<0.052		0.20	0.052	mg/Kg	☼	12/02/20 07:50	12/03/20 06:47	1
Di-n-butyl phthalate	<0.061		0.20	0.061	mg/Kg	☼	12/02/20 07:50	12/03/20 06:47	1
4,6-Dinitro-2-methylphenol	<0.32		0.81	0.32	mg/Kg	☼	12/02/20 07:50	12/03/20 06:47	1
2,4-Dinitrophenol	<0.71		0.81	0.71	mg/Kg	☼	12/02/20 07:50	12/03/20 06:47	1
2,4-Dinitrotoluene	<0.064		0.20	0.064	mg/Kg	☼	12/02/20 07:50	12/03/20 06:47	1
2,6-Dinitrotoluene	<0.079		0.20	0.079	mg/Kg	☼	12/02/20 07:50	12/03/20 06:47	1
Di-n-octyl phthalate	<0.065		0.20	0.065	mg/Kg	☼	12/02/20 07:50	12/03/20 06:47	1
Fluoranthene	<0.0074		0.040	0.0074	mg/Kg	☼	12/02/20 07:50	12/03/20 06:47	1
Fluorene	<0.0056		0.040	0.0056	mg/Kg	☼	12/02/20 07:50	12/03/20 06:47	1
Hexachlorobenzene	<0.0093		0.081	0.0093	mg/Kg	☼	12/02/20 07:50	12/03/20 06:47	1
Hexachlorobutadiene	<0.063		0.20	0.063	mg/Kg	☼	12/02/20 07:50	12/03/20 06:47	1
Hexachlorocyclopentadiene	<0.23		0.81	0.23	mg/Kg	☼	12/02/20 07:50	12/03/20 06:47	1
Hexachloroethane	<0.061		0.20	0.061	mg/Kg	☼	12/02/20 07:50	12/03/20 06:47	1
Indeno[1,2,3-cd]pyrene	<0.010		0.040	0.010	mg/Kg	☼	12/02/20 07:50	12/03/20 06:47	1
Isophorone	<0.045		0.20	0.045	mg/Kg	☼	12/02/20 07:50	12/03/20 06:47	1
2-Methylnaphthalene	<0.0074		0.081	0.0074	mg/Kg	☼	12/02/20 07:50	12/03/20 06:47	1
2-Methylphenol	<0.064		0.20	0.064	mg/Kg	☼	12/02/20 07:50	12/03/20 06:47	1
3 & 4 Methylphenol	<0.067		0.20	0.067	mg/Kg	☼	12/02/20 07:50	12/03/20 06:47	1
Naphthalene	<0.0062		0.040	0.0062	mg/Kg	☼	12/02/20 07:50	12/03/20 06:47	1
2-Nitroaniline	<0.054		0.20	0.054	mg/Kg	☼	12/02/20 07:50	12/03/20 06:47	1
3-Nitroaniline	<0.12		0.40	0.12	mg/Kg	☼	12/02/20 07:50	12/03/20 06:47	1
4-Nitroaniline	<0.17 *		0.40	0.17	mg/Kg	☼	12/02/20 07:50	12/03/20 06:47	1
Nitrobenzene	<0.010		0.040	0.010	mg/Kg	☼	12/02/20 07:50	12/03/20 06:47	1
2-Nitrophenol	<0.095		0.40	0.095	mg/Kg	☼	12/02/20 07:50	12/03/20 06:47	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191730-1

Client Sample ID: 3138V-1-B02 (6-12.5)

Lab Sample ID: 500-191730-4

Date Collected: 11/30/20 11:30

Matrix: Solid

Date Received: 11/30/20 17:15

Percent Solids: 80.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.38		0.81	0.38	mg/Kg	☼	12/02/20 07:50	12/03/20 06:47	1
N-Nitrosodi-n-propylamine	<0.049		0.081	0.049	mg/Kg	☼	12/02/20 07:50	12/03/20 06:47	1
N-Nitrosodiphenylamine	<0.047		0.20	0.047	mg/Kg	☼	12/02/20 07:50	12/03/20 06:47	1
2,2'-oxybis[1-chloropropane]	<0.046		0.20	0.046	mg/Kg	☼	12/02/20 07:50	12/03/20 06:47	1
Pentachlorophenol	<0.64		0.81	0.64	mg/Kg	☼	12/02/20 07:50	12/03/20 06:47	1
Phenanthrene	<0.0056		0.040	0.0056	mg/Kg	☼	12/02/20 07:50	12/03/20 06:47	1
Phenol	<0.089		0.20	0.089	mg/Kg	☼	12/02/20 07:50	12/03/20 06:47	1
Pyrene	<0.0080		0.040	0.0080	mg/Kg	☼	12/02/20 07:50	12/03/20 06:47	1
1,2,4-Trichlorobenzene	<0.043		0.20	0.043	mg/Kg	☼	12/02/20 07:50	12/03/20 06:47	1
2,4,5-Trichlorophenol	<0.091		0.40	0.091	mg/Kg	☼	12/02/20 07:50	12/03/20 06:47	1
2,4,6-Trichlorophenol	<0.14		0.40	0.14	mg/Kg	☼	12/02/20 07:50	12/03/20 06:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	50		43 - 145	12/02/20 07:50	12/03/20 06:47	1
2-Fluorophenol	69		31 - 166	12/02/20 07:50	12/03/20 06:47	1
Nitrobenzene-d5	59		37 - 147	12/02/20 07:50	12/03/20 06:47	1
Phenol-d5	76		30 - 153	12/02/20 07:50	12/03/20 06:47	1
Terphenyl-d14	93		42 - 157	12/02/20 07:50	12/03/20 06:47	1
2,4,6-Tribromophenol	48		31 - 143	12/02/20 07:50	12/03/20 06:47	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.75	J	1.1	0.22	mg/Kg	☼	12/03/20 17:51	12/04/20 19:19	1
Arsenic	8.8		0.57	0.20	mg/Kg	☼	12/03/20 17:51	12/04/20 19:19	1
Barium	66		0.57	0.065	mg/Kg	☼	12/03/20 17:51	12/04/20 19:19	1
Beryllium	0.74		0.23	0.053	mg/Kg	☼	12/03/20 17:51	12/04/20 19:19	1
Cadmium	0.34	B	0.11	0.021	mg/Kg	☼	12/03/20 17:51	12/04/20 19:19	1
Chromium	17		0.57	0.28	mg/Kg	☼	12/03/20 17:51	12/04/20 19:19	1
Cobalt	10		0.29	0.075	mg/Kg	☼	12/03/20 17:51	12/04/20 19:19	1
Copper	17		0.57	0.16	mg/Kg	☼	12/03/20 17:51	12/04/20 19:19	1
Iron	21000		11	5.9	mg/Kg	☼	12/03/20 17:51	12/04/20 19:19	1
Lead	25		0.29	0.13	mg/Kg	☼	12/03/20 17:51	12/04/20 19:19	1
Magnesium	6600	B	5.7	2.8	mg/Kg	☼	12/03/20 17:51	12/04/20 19:19	1
Calcium	8500	B	11	1.9	mg/Kg	☼	12/03/20 17:51	12/04/20 19:19	1
Manganese	660		0.57	0.083	mg/Kg	☼	12/03/20 17:51	12/04/20 19:19	1
Nickel	20		0.57	0.17	mg/Kg	☼	12/03/20 17:51	12/04/20 19:19	1
Selenium	0.45	J	0.57	0.34	mg/Kg	☼	12/03/20 17:51	12/04/20 19:19	1
Silver	0.18	J	0.29	0.074	mg/Kg	☼	12/03/20 17:51	12/04/20 19:19	1
Thallium	<0.29		0.57	0.29	mg/Kg	☼	12/03/20 17:51	12/04/20 19:19	1
Vanadium	27		0.29	0.067	mg/Kg	☼	12/03/20 17:51	12/04/20 19:19	1
Zinc	54		1.1	0.50	mg/Kg	☼	12/03/20 17:51	12/04/20 19:19	1
Potassium	1600		29	10	mg/Kg	☼	12/03/20 17:51	12/04/20 19:19	1
Sodium	1000		57	8.5	mg/Kg	☼	12/03/20 17:51	12/04/20 19:19	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		12/03/20 16:40	12/04/20 13:30	1
Barium	0.37	J	0.50	0.050	mg/L		12/03/20 16:40	12/04/20 13:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/03/20 16:40	12/04/20 13:30	1
Cadmium	0.0020	J	0.0050	0.0020	mg/L		12/03/20 16:40	12/04/20 13:30	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191730-1

Client Sample ID: 3138V-1-B02 (6-12.5)

Lab Sample ID: 500-191730-4

Date Collected: 11/30/20 11:30

Matrix: Solid

Date Received: 11/30/20 17:15

Percent Solids: 80.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	330		5.0	0.50	mg/L		12/03/20 16:40	12/04/20 13:30	1
Chromium	<0.010		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 13:30	1
Cobalt	<0.010		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 13:30	1
Copper	<0.010		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 13:30	1
Iron	<0.20	*	0.40	0.20	mg/L		12/03/20 16:40	12/04/20 13:30	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/03/20 16:40	12/04/20 13:30	1
Magnesium	92		2.5	0.50	mg/L		12/03/20 16:40	12/04/20 13:30	1
Manganese	0.45		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 13:30	1
Nickel	<0.010		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 13:30	1
Potassium	1.4	J B *	2.5	0.50	mg/L		12/03/20 16:40	12/04/20 13:30	1
Selenium	<0.020		0.050	0.020	mg/L		12/03/20 16:40	12/04/20 13:30	1
Silver	<0.010		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 13:30	1
Vanadium	<0.010		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 13:30	1
Zinc	<0.020		0.50	0.020	mg/L		12/03/20 16:40	12/04/20 13:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.73		0.025	0.010	mg/L		12/03/20 16:43	12/04/20 14:48	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		12/03/20 16:40	12/04/20 17:17	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/03/20 16:40	12/04/20 17:17	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		12/04/20 08:15	12/07/20 08:07	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038		0.019	0.0063	mg/Kg	☼	12/02/20 13:05	12/03/20 12:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.14	J	0.28	0.14	mg/Kg	☼	12/04/20 14:54	12/04/20 17:24	1
pH	8.2		0.2	0.2	SU			12/03/20 17:52	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191730-1

Client Sample ID: 3138V-1-B03 (0-1.3)

Lab Sample ID: 500-191730-5

Date Collected: 11/30/20 11:55

Matrix: Solid

Date Received: 11/30/20 17:15

Percent Solids: 84.1

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	☼	12/01/20 17:52	12/04/20 19:36	1
Benzene	<0.00038		0.0015	0.00038	mg/Kg	☼	12/01/20 17:52	12/04/20 19:36	1
Bromodichloromethane	<0.00030		0.0015	0.00030	mg/Kg	☼	12/01/20 17:52	12/04/20 19:36	1
Bromoform	<0.00044		0.0015	0.00044	mg/Kg	☼	12/01/20 17:52	12/04/20 19:36	1
Bromomethane	<0.0014		0.0037	0.0014	mg/Kg	☼	12/01/20 17:52	12/04/20 19:36	1
2-Butanone (MEK)	<0.0017		0.0037	0.0017	mg/Kg	☼	12/01/20 17:52	12/04/20 19:36	1
Carbon disulfide	<0.00078		0.0037	0.00078	mg/Kg	☼	12/01/20 17:52	12/04/20 19:36	1
Carbon tetrachloride	<0.00043		0.0015	0.00043	mg/Kg	☼	12/01/20 17:52	12/04/20 19:36	1
Chlorobenzene	<0.00055		0.0015	0.00055	mg/Kg	☼	12/01/20 17:52	12/04/20 19:36	1
Chloroethane	<0.0011		0.0037	0.0011	mg/Kg	☼	12/01/20 17:52	12/04/20 19:36	1
Chloroform	<0.00052		0.0015	0.00052	mg/Kg	☼	12/01/20 17:52	12/04/20 19:36	1
Chloromethane	<0.0015		0.0037	0.0015	mg/Kg	☼	12/01/20 17:52	12/04/20 19:36	1
cis-1,2-Dichloroethene	<0.00042		0.0015	0.00042	mg/Kg	☼	12/01/20 17:52	12/04/20 19:36	1
cis-1,3-Dichloropropene	<0.00045		0.0015	0.00045	mg/Kg	☼	12/01/20 17:52	12/04/20 19:36	1
Dibromochloromethane	<0.00049		0.0015	0.00049	mg/Kg	☼	12/01/20 17:52	12/04/20 19:36	1
1,1-Dichloroethane	<0.00051		0.0015	0.00051	mg/Kg	☼	12/01/20 17:52	12/04/20 19:36	1
1,2-Dichloroethane	<0.0012		0.0037	0.0012	mg/Kg	☼	12/01/20 17:52	12/04/20 19:36	1
1,1-Dichloroethene	<0.00051		0.0015	0.00051	mg/Kg	☼	12/01/20 17:52	12/04/20 19:36	1
1,2-Dichloropropene	<0.00039		0.0015	0.00039	mg/Kg	☼	12/01/20 17:52	12/04/20 19:36	1
1,3-Dichloropropene, Total	<0.00052		0.0015	0.00052	mg/Kg	☼	12/01/20 17:52	12/04/20 19:36	1
Ethylbenzene	<0.00071		0.0015	0.00071	mg/Kg	☼	12/01/20 17:52	12/04/20 19:36	1
2-Hexanone	<0.0012		0.0037	0.0012	mg/Kg	☼	12/01/20 17:52	12/04/20 19:36	1
Methylene Chloride	<0.0015		0.0037	0.0015	mg/Kg	☼	12/01/20 17:52	12/04/20 19:36	1
4-Methyl-2-pentanone (MIBK)	<0.0011		0.0037	0.0011	mg/Kg	☼	12/01/20 17:52	12/04/20 19:36	1
Methyl tert-butyl ether	<0.00044		0.0015	0.00044	mg/Kg	☼	12/01/20 17:52	12/04/20 19:36	1
Styrene	<0.00045		0.0015	0.00045	mg/Kg	☼	12/01/20 17:52	12/04/20 19:36	1
1,1,2,2-Tetrachloroethane	<0.00048		0.0015	0.00048	mg/Kg	☼	12/01/20 17:52	12/04/20 19:36	1
Tetrachloroethene	<0.00051		0.0015	0.00051	mg/Kg	☼	12/01/20 17:52	12/04/20 19:36	1
Toluene	<0.00038		0.0015	0.00038	mg/Kg	☼	12/01/20 17:52	12/04/20 19:36	1
trans-1,2-Dichloroethene	<0.00066		0.0015	0.00066	mg/Kg	☼	12/01/20 17:52	12/04/20 19:36	1
trans-1,3-Dichloropropene	<0.00052		0.0015	0.00052	mg/Kg	☼	12/01/20 17:52	12/04/20 19:36	1
1,1,1-Trichloroethane	<0.00050		0.0015	0.00050	mg/Kg	☼	12/01/20 17:52	12/04/20 19:36	1
1,1,2-Trichloroethane	<0.00064		0.0015	0.00064	mg/Kg	☼	12/01/20 17:52	12/04/20 19:36	1
Trichloroethene	<0.00050		0.0015	0.00050	mg/Kg	☼	12/01/20 17:52	12/04/20 19:36	1
Vinyl acetate	<0.0013		0.0037	0.0013	mg/Kg	☼	12/01/20 17:52	12/04/20 19:36	1
Vinyl chloride	<0.00066		0.0015	0.00066	mg/Kg	☼	12/01/20 17:52	12/04/20 19:36	1
Xylenes, Total	<0.00048		0.0030	0.00048	mg/Kg	☼	12/01/20 17:52	12/04/20 19:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		75 - 131	12/01/20 17:52	12/04/20 19:36	1
Dibromofluoromethane	105		75 - 126	12/01/20 17:52	12/04/20 19:36	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	12/01/20 17:52	12/04/20 19:36	1
Toluene-d8 (Surr)	87		75 - 124	12/01/20 17:52	12/04/20 19:36	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	☼	12/02/20 07:50	12/03/20 07:20	1
Acenaphthylene	<0.0052		0.039	0.0052	mg/Kg	☼	12/02/20 07:50	12/03/20 07:20	1
Anthracene	<0.0066		0.039	0.0066	mg/Kg	☼	12/02/20 07:50	12/03/20 07:20	1
Benzo[a]anthracene	<0.0053		0.039	0.0053	mg/Kg	☼	12/02/20 07:50	12/03/20 07:20	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191730-1

Client Sample ID: 3138V-1-B03 (0-1.3)

Lab Sample ID: 500-191730-5

Date Collected: 11/30/20 11:55

Matrix: Solid

Date Received: 11/30/20 17:15

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.0076		0.039	0.0076	mg/Kg	☼	12/02/20 07:50	12/03/20 07:20	1
Benzo[b]fluoranthene	<0.0085		0.039	0.0085	mg/Kg	☼	12/02/20 07:50	12/03/20 07:20	1
Benzo[g,h,i]perylene	<0.013		0.039	0.013	mg/Kg	☼	12/02/20 07:50	12/03/20 07:20	1
Benzo[k]fluoranthene	<0.012		0.039	0.012	mg/Kg	☼	12/02/20 07:50	12/03/20 07:20	1
Bis(2-chloroethoxy)methane	<0.040		0.20	0.040	mg/Kg	☼	12/02/20 07:50	12/03/20 07:20	1
Bis(2-chloroethyl)ether	<0.059		0.20	0.059	mg/Kg	☼	12/02/20 07:50	12/03/20 07:20	1
Bis(2-ethylhexyl) phthalate	<0.072		0.20	0.072	mg/Kg	☼	12/02/20 07:50	12/03/20 07:20	1
4-Bromophenyl phenyl ether	<0.052		0.20	0.052	mg/Kg	☼	12/02/20 07:50	12/03/20 07:20	1
Butyl benzyl phthalate	<0.075		0.20	0.075	mg/Kg	☼	12/02/20 07:50	12/03/20 07:20	1
Carbazole	<0.099		0.20	0.099	mg/Kg	☼	12/02/20 07:50	12/03/20 07:20	1
4-Chloroaniline	<0.19		0.80	0.19	mg/Kg	☼	12/02/20 07:50	12/03/20 07:20	1
4-Chloro-3-methylphenol	<0.13		0.39	0.13	mg/Kg	☼	12/02/20 07:50	12/03/20 07:20	1
2-Chloronaphthalene	<0.044		0.20	0.044	mg/Kg	☼	12/02/20 07:50	12/03/20 07:20	1
2-Chlorophenol	<0.067		0.20	0.067	mg/Kg	☼	12/02/20 07:50	12/03/20 07:20	1
4-Chlorophenyl phenyl ether	<0.046		0.20	0.046	mg/Kg	☼	12/02/20 07:50	12/03/20 07:20	1
Chrysene	<0.011		0.039	0.011	mg/Kg	☼	12/02/20 07:50	12/03/20 07:20	1
Dibenz(a,h)anthracene	<0.0076		0.039	0.0076	mg/Kg	☼	12/02/20 07:50	12/03/20 07:20	1
Dibenzofuran	<0.046		0.20	0.046	mg/Kg	☼	12/02/20 07:50	12/03/20 07:20	1
1,2-Dichlorobenzene	<0.047		0.20	0.047	mg/Kg	☼	12/02/20 07:50	12/03/20 07:20	1
1,3-Dichlorobenzene	<0.044		0.20	0.044	mg/Kg	☼	12/02/20 07:50	12/03/20 07:20	1
1,4-Dichlorobenzene	<0.051		0.20	0.051	mg/Kg	☼	12/02/20 07:50	12/03/20 07:20	1
3,3'-Dichlorobenzidine	<0.055		0.20	0.055	mg/Kg	☼	12/02/20 07:50	12/03/20 07:20	1
2,4-Dichlorophenol	<0.094		0.39	0.094	mg/Kg	☼	12/02/20 07:50	12/03/20 07:20	1
Diethyl phthalate	<0.067		0.20	0.067	mg/Kg	☼	12/02/20 07:50	12/03/20 07:20	1
2,4-Dimethylphenol	<0.15		0.39	0.15	mg/Kg	☼	12/02/20 07:50	12/03/20 07:20	1
Dimethyl phthalate	<0.052		0.20	0.052	mg/Kg	☼	12/02/20 07:50	12/03/20 07:20	1
Di-n-butyl phthalate	<0.060		0.20	0.060	mg/Kg	☼	12/02/20 07:50	12/03/20 07:20	1
4,6-Dinitro-2-methylphenol	<0.32		0.80	0.32	mg/Kg	☼	12/02/20 07:50	12/03/20 07:20	1
2,4-Dinitrophenol	<0.70		0.80	0.70	mg/Kg	☼	12/02/20 07:50	12/03/20 07:20	1
2,4-Dinitrotoluene	<0.063		0.20	0.063	mg/Kg	☼	12/02/20 07:50	12/03/20 07:20	1
2,6-Dinitrotoluene	<0.078		0.20	0.078	mg/Kg	☼	12/02/20 07:50	12/03/20 07:20	1
Di-n-octyl phthalate	<0.064		0.20	0.064	mg/Kg	☼	12/02/20 07:50	12/03/20 07:20	1
Fluoranthene	<0.0073		0.039	0.0073	mg/Kg	☼	12/02/20 07:50	12/03/20 07:20	1
Fluorene	<0.0056		0.039	0.0056	mg/Kg	☼	12/02/20 07:50	12/03/20 07:20	1
Hexachlorobenzene	<0.0092		0.080	0.0092	mg/Kg	☼	12/02/20 07:50	12/03/20 07:20	1
Hexachlorobutadiene	<0.062		0.20	0.062	mg/Kg	☼	12/02/20 07:50	12/03/20 07:20	1
Hexachlorocyclopentadiene	<0.23		0.80	0.23	mg/Kg	☼	12/02/20 07:50	12/03/20 07:20	1
Hexachloroethane	<0.060		0.20	0.060	mg/Kg	☼	12/02/20 07:50	12/03/20 07:20	1
Indeno[1,2,3-cd]pyrene	<0.010		0.039	0.010	mg/Kg	☼	12/02/20 07:50	12/03/20 07:20	1
Isophorone	<0.044		0.20	0.044	mg/Kg	☼	12/02/20 07:50	12/03/20 07:20	1
2-Methylnaphthalene	<0.0073		0.080	0.0073	mg/Kg	☼	12/02/20 07:50	12/03/20 07:20	1
2-Methylphenol	<0.063		0.20	0.063	mg/Kg	☼	12/02/20 07:50	12/03/20 07:20	1
3 & 4 Methylphenol	<0.066		0.20	0.066	mg/Kg	☼	12/02/20 07:50	12/03/20 07:20	1
Naphthalene	<0.0061		0.039	0.0061	mg/Kg	☼	12/02/20 07:50	12/03/20 07:20	1
2-Nitroaniline	<0.053		0.20	0.053	mg/Kg	☼	12/02/20 07:50	12/03/20 07:20	1
3-Nitroaniline	<0.12		0.39	0.12	mg/Kg	☼	12/02/20 07:50	12/03/20 07:20	1
4-Nitroaniline	<0.17 *		0.39	0.17	mg/Kg	☼	12/02/20 07:50	12/03/20 07:20	1
Nitrobenzene	<0.0099		0.039	0.0099	mg/Kg	☼	12/02/20 07:50	12/03/20 07:20	1
2-Nitrophenol	<0.093		0.39	0.093	mg/Kg	☼	12/02/20 07:50	12/03/20 07:20	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191730-1

Client Sample ID: 3138V-1-B03 (0-1.3)

Lab Sample ID: 500-191730-5

Date Collected: 11/30/20 11:55

Matrix: Solid

Date Received: 11/30/20 17:15

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.38		0.80	0.38	mg/Kg	☼	12/02/20 07:50	12/03/20 07:20	1
N-Nitrosodi-n-propylamine	<0.048		0.080	0.048	mg/Kg	☼	12/02/20 07:50	12/03/20 07:20	1
N-Nitrosodiphenylamine	<0.047		0.20	0.047	mg/Kg	☼	12/02/20 07:50	12/03/20 07:20	1
2,2'-oxybis[1-chloropropane]	<0.046		0.20	0.046	mg/Kg	☼	12/02/20 07:50	12/03/20 07:20	1
Pentachlorophenol	<0.63		0.80	0.63	mg/Kg	☼	12/02/20 07:50	12/03/20 07:20	1
Phenanthrene	<0.0055		0.039	0.0055	mg/Kg	☼	12/02/20 07:50	12/03/20 07:20	1
Phenol	<0.088		0.20	0.088	mg/Kg	☼	12/02/20 07:50	12/03/20 07:20	1
Pyrene	<0.0078		0.039	0.0078	mg/Kg	☼	12/02/20 07:50	12/03/20 07:20	1
1,2,4-Trichlorobenzene	<0.043		0.20	0.043	mg/Kg	☼	12/02/20 07:50	12/03/20 07:20	1
2,4,5-Trichlorophenol	<0.090		0.39	0.090	mg/Kg	☼	12/02/20 07:50	12/03/20 07:20	1
2,4,6-Trichlorophenol	<0.14		0.39	0.14	mg/Kg	☼	12/02/20 07:50	12/03/20 07:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	64		43 - 145				12/02/20 07:50	12/03/20 07:20	1
2-Fluorophenol	74		31 - 166				12/02/20 07:50	12/03/20 07:20	1
Nitrobenzene-d5	66		37 - 147				12/02/20 07:50	12/03/20 07:20	1
Phenol-d5	73		30 - 153				12/02/20 07:50	12/03/20 07:20	1
Terphenyl-d14	94		42 - 157				12/02/20 07:50	12/03/20 07:20	1
2,4,6-Tribromophenol	60		31 - 143				12/02/20 07:50	12/03/20 07:20	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.72	J	1.2	0.23	mg/Kg	☼	12/03/20 17:51	12/04/20 19:22	1
Arsenic	10		0.58	0.20	mg/Kg	☼	12/03/20 17:51	12/04/20 19:22	1
Barium	48		0.58	0.067	mg/Kg	☼	12/03/20 17:51	12/04/20 19:22	1
Beryllium	0.73		0.23	0.055	mg/Kg	☼	12/03/20 17:51	12/04/20 19:22	1
Cadmium	0.37	B	0.12	0.021	mg/Kg	☼	12/03/20 17:51	12/04/20 19:22	1
Chromium	16		0.58	0.29	mg/Kg	☼	12/03/20 17:51	12/04/20 19:22	1
Cobalt	9.5		0.29	0.076	mg/Kg	☼	12/03/20 17:51	12/04/20 19:22	1
Copper	21		0.58	0.16	mg/Kg	☼	12/03/20 17:51	12/04/20 19:22	1
Iron	22000		12	6.1	mg/Kg	☼	12/03/20 17:51	12/04/20 19:22	1
Lead	14		0.29	0.13	mg/Kg	☼	12/03/20 17:51	12/04/20 19:22	1
Magnesium	18000	B	5.8	2.9	mg/Kg	☼	12/03/20 17:51	12/04/20 19:22	1
Calcium	32000	B	12	2.0	mg/Kg	☼	12/03/20 17:51	12/04/20 19:22	1
Manganese	350		0.58	0.085	mg/Kg	☼	12/03/20 17:51	12/04/20 19:22	1
Nickel	27		0.58	0.17	mg/Kg	☼	12/03/20 17:51	12/04/20 19:22	1
Selenium	<0.34		0.58	0.34	mg/Kg	☼	12/03/20 17:51	12/04/20 19:22	1
Silver	0.18	J	0.29	0.075	mg/Kg	☼	12/03/20 17:51	12/04/20 19:22	1
Thallium	<0.29		0.58	0.29	mg/Kg	☼	12/03/20 17:51	12/04/20 19:22	1
Vanadium	28		0.29	0.069	mg/Kg	☼	12/03/20 17:51	12/04/20 19:22	1
Zinc	51		1.2	0.51	mg/Kg	☼	12/03/20 17:51	12/04/20 19:22	1
Potassium	2000		29	10	mg/Kg	☼	12/03/20 17:51	12/04/20 19:22	1
Sodium	1300		58	8.6	mg/Kg	☼	12/03/20 17:51	12/04/20 19:22	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		12/03/20 16:40	12/04/20 13:33	1
Barium	0.37	J	0.50	0.050	mg/L		12/03/20 16:40	12/04/20 13:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/03/20 16:40	12/04/20 13:33	1
Cadmium	0.0020	J	0.0050	0.0020	mg/L		12/03/20 16:40	12/04/20 13:33	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191730-1

Client Sample ID: 3138V-1-B03 (0-1.3)

Lab Sample ID: 500-191730-5

Date Collected: 11/30/20 11:55

Matrix: Solid

Date Received: 11/30/20 17:15

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	500		5.0	0.50	mg/L		12/03/20 16:40	12/04/20 13:33	1
Chromium	<0.010		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 13:33	1
Cobalt	<0.010		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 13:33	1
Copper	<0.010		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 13:33	1
Iron	<0.20	*	0.40	0.20	mg/L		12/03/20 16:40	12/04/20 13:33	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/03/20 16:40	12/04/20 13:33	1
Magnesium	33		2.5	0.50	mg/L		12/03/20 16:40	12/04/20 13:33	1
Manganese	0.18		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 13:33	1
Nickel	0.011	J	0.025	0.010	mg/L		12/03/20 16:40	12/04/20 13:33	1
Potassium	1.5	J F1 B *	2.5	0.50	mg/L		12/03/20 16:40	12/04/20 13:33	1
Selenium	<0.020		0.050	0.020	mg/L		12/03/20 16:40	12/04/20 13:33	1
Silver	<0.010		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 13:33	1
Vanadium	<0.010		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 13:33	1
Zinc	<0.020		0.50	0.020	mg/L		12/03/20 16:40	12/04/20 13:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.6		0.025	0.010	mg/L		12/03/20 16:43	12/04/20 14:51	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		12/03/20 16:40	12/04/20 17:19	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/03/20 16:40	12/04/20 17:19	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		12/04/20 08:15	12/07/20 08:09	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	☼	12/02/20 13:05	12/03/20 13:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.15		0.29	0.15	mg/Kg	☼	12/04/20 14:54	12/04/20 17:26	1
pH	8.6		0.2	0.2	SU			12/03/20 17:54	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191730-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery 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.
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.
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 - Lake County - WO 073

Job ID: 500-191730-1

GC/MS VOA

Prep Batch: 574850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191730-1	3138V-1-B01 (0-1.3)	Total/NA	Solid	5035	
500-191730-2	3138V-1-B02 (0-6)	Total/NA	Solid	5035	
500-191730-3	3138V-1-B02 (0-6) Dup	Total/NA	Solid	5035	
500-191730-4	3138V-1-B02 (6-12.5)	Total/NA	Solid	5035	
500-191730-5	3138V-1-B03 (0-1.3)	Total/NA	Solid	5035	

Analysis Batch: 575332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191730-1	3138V-1-B01 (0-1.3)	Total/NA	Solid	8260B	574850
500-191730-2	3138V-1-B02 (0-6)	Total/NA	Solid	8260B	574850
500-191730-3	3138V-1-B02 (0-6) Dup	Total/NA	Solid	8260B	574850
500-191730-4	3138V-1-B02 (6-12.5)	Total/NA	Solid	8260B	574850
500-191730-5	3138V-1-B03 (0-1.3)	Total/NA	Solid	8260B	574850
MB 500-575332/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-575332/4	Lab Control Sample	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 574879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191730-2	3138V-1-B02 (0-6)	Total/NA	Solid	3541	
500-191730-4	3138V-1-B02 (6-12.5)	Total/NA	Solid	3541	
500-191730-5	3138V-1-B03 (0-1.3)	Total/NA	Solid	3541	
MB 500-574879/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-574879/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 575022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-574879/1-A	Method Blank	Total/NA	Solid	8270D	574879
LCS 500-574879/2-A	Lab Control Sample	Total/NA	Solid	8270D	574879

Analysis Batch: 575045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191730-2	3138V-1-B02 (0-6)	Total/NA	Solid	8270D	574879
500-191730-4	3138V-1-B02 (6-12.5)	Total/NA	Solid	8270D	574879
500-191730-5	3138V-1-B03 (0-1.3)	Total/NA	Solid	8270D	574879

Prep Batch: 575359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191730-1	3138V-1-B01 (0-1.3)	Total/NA	Solid	3541	
500-191730-3	3138V-1-B02 (0-6) Dup	Total/NA	Solid	3541	
MB 500-575359/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-575359/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-191730-1 MS	3138V-1-B01 (0-1.3)	Total/NA	Solid	3541	
500-191730-1 MSD	3138V-1-B01 (0-1.3)	Total/NA	Solid	3541	

Analysis Batch: 575497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191730-1	3138V-1-B01 (0-1.3)	Total/NA	Solid	8270D	575359
500-191730-3	3138V-1-B02 (0-6) Dup	Total/NA	Solid	8270D	575359
MB 500-575359/1-A	Method Blank	Total/NA	Solid	8270D	575359

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191730-1

GC/MS Semi VOA (Continued)

Analysis Batch: 575497 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-575359/2-A	Lab Control Sample	Total/NA	Solid	8270D	575359
500-191730-1 MS	3138V-1-B01 (0-1.3)	Total/NA	Solid	8270D	575359
500-191730-1 MSD	3138V-1-B01 (0-1.3)	Total/NA	Solid	8270D	575359

Metals

Prep Batch: 574933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191730-1	3138V-1-B01 (0-1.3)	Total/NA	Solid	7471B	
500-191730-2	3138V-1-B02 (0-6)	Total/NA	Solid	7471B	
500-191730-3	3138V-1-B02 (0-6) Dup	Total/NA	Solid	7471B	
500-191730-4	3138V-1-B02 (6-12.5)	Total/NA	Solid	7471B	
500-191730-5	3138V-1-B03 (0-1.3)	Total/NA	Solid	7471B	
MB 500-574933/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-574933/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Leach Batch: 574996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191730-1	3138V-1-B01 (0-1.3)	TCLP	Solid	1311	
500-191730-2	3138V-1-B02 (0-6)	TCLP	Solid	1311	
500-191730-3	3138V-1-B02 (0-6) Dup	TCLP	Solid	1311	
500-191730-4	3138V-1-B02 (6-12.5)	TCLP	Solid	1311	
500-191730-5	3138V-1-B03 (0-1.3)	TCLP	Solid	1311	
LB 500-574996/1-B	Method Blank	TCLP	Solid	1311	
LB 500-574996/1-C	Method Blank	TCLP	Solid	1311	
LB 500-574996/2-B	Method Blank	TCLP	Solid	1311	
500-191730-5 MS	3138V-1-B03 (0-1.3)	TCLP	Solid	1311	
500-191730-5 DU	3138V-1-B03 (0-1.3)	TCLP	Solid	1311	

Leach Batch: 575000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191730-2	3138V-1-B02 (0-6)	SPLP East	Solid	1312	
500-191730-3	3138V-1-B02 (0-6) Dup	SPLP East	Solid	1312	
500-191730-4	3138V-1-B02 (6-12.5)	SPLP East	Solid	1312	
500-191730-5	3138V-1-B03 (0-1.3)	SPLP East	Solid	1312	
LB 500-575000/1-B	Method Blank	SPLP East	Solid	1312	
500-191730-5 MS	3138V-1-B03 (0-1.3)	SPLP East	Solid	1312	
500-191730-5 DU	3138V-1-B03 (0-1.3)	SPLP East	Solid	1312	

Analysis Batch: 575205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191730-1	3138V-1-B01 (0-1.3)	Total/NA	Solid	7471B	574933
500-191730-2	3138V-1-B02 (0-6)	Total/NA	Solid	7471B	574933
500-191730-3	3138V-1-B02 (0-6) Dup	Total/NA	Solid	7471B	574933
500-191730-4	3138V-1-B02 (6-12.5)	Total/NA	Solid	7471B	574933
500-191730-5	3138V-1-B03 (0-1.3)	Total/NA	Solid	7471B	574933
MB 500-574933/12-A	Method Blank	Total/NA	Solid	7471B	574933
LCS 500-574933/13-A	Lab Control Sample	Total/NA	Solid	7471B	574933

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191730-1

Metals

Prep Batch: 575241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191730-1	3138V-1-B01 (0-1.3)	TCLP	Solid	3010A	574996
500-191730-2	3138V-1-B02 (0-6)	TCLP	Solid	3010A	574996
500-191730-3	3138V-1-B02 (0-6) Dup	TCLP	Solid	3010A	574996
500-191730-4	3138V-1-B02 (6-12.5)	TCLP	Solid	3010A	574996
500-191730-5	3138V-1-B03 (0-1.3)	TCLP	Solid	3010A	574996
LB 500-574996/1-B	Method Blank	TCLP	Solid	3010A	574996
LCS 500-575241/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-191730-5 MS	3138V-1-B03 (0-1.3)	TCLP	Solid	3010A	574996
500-191730-5 DU	3138V-1-B03 (0-1.3)	TCLP	Solid	3010A	574996

Prep Batch: 575242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191730-2	3138V-1-B02 (0-6)	SPLP East	Solid	3010A	575000
500-191730-3	3138V-1-B02 (0-6) Dup	SPLP East	Solid	3010A	575000
500-191730-4	3138V-1-B02 (6-12.5)	SPLP East	Solid	3010A	575000
500-191730-5	3138V-1-B03 (0-1.3)	SPLP East	Solid	3010A	575000
LB 500-575000/1-B	Method Blank	SPLP East	Solid	3010A	575000
LCS 500-575242/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-191730-5 MS	3138V-1-B03 (0-1.3)	SPLP East	Solid	3010A	575000
500-191730-5 DU	3138V-1-B03 (0-1.3)	SPLP East	Solid	3010A	575000

Prep Batch: 575261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191730-1	3138V-1-B01 (0-1.3)	Total/NA	Solid	3050B	
500-191730-2	3138V-1-B02 (0-6)	Total/NA	Solid	3050B	
500-191730-3	3138V-1-B02 (0-6) Dup	Total/NA	Solid	3050B	
500-191730-4	3138V-1-B02 (6-12.5)	Total/NA	Solid	3050B	
500-191730-5	3138V-1-B03 (0-1.3)	Total/NA	Solid	3050B	
MB 500-575261/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-575261/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 575354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191730-1	3138V-1-B01 (0-1.3)	TCLP	Solid	7470A	574996
500-191730-2	3138V-1-B02 (0-6)	TCLP	Solid	7470A	574996
500-191730-3	3138V-1-B02 (0-6) Dup	TCLP	Solid	7470A	574996
500-191730-4	3138V-1-B02 (6-12.5)	TCLP	Solid	7470A	574996
500-191730-5	3138V-1-B03 (0-1.3)	TCLP	Solid	7470A	574996
LB 500-574996/1-C	Method Blank	TCLP	Solid	7470A	574996
MB 500-575354/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-575354/14-A	Lab Control Sample	Total/NA	Solid	7470A	
500-191730-5 MS	3138V-1-B03 (0-1.3)	TCLP	Solid	7470A	574996
500-191730-5 DU	3138V-1-B03 (0-1.3)	TCLP	Solid	7470A	574996

Analysis Batch: 575563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191730-1	3138V-1-B01 (0-1.3)	TCLP	Solid	6010B	575241
500-191730-2	3138V-1-B02 (0-6)	SPLP East	Solid	6010B	575242
500-191730-2	3138V-1-B02 (0-6)	TCLP	Solid	6010B	575241
500-191730-3	3138V-1-B02 (0-6) Dup	SPLP East	Solid	6010B	575242
500-191730-3	3138V-1-B02 (0-6) Dup	TCLP	Solid	6010B	575241

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191730-1

Metals (Continued)

Analysis Batch: 575563 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191730-4	3138V-1-B02 (6-12.5)	SPLP East	Solid	6010B	575242
500-191730-4	3138V-1-B02 (6-12.5)	TCLP	Solid	6010B	575241
500-191730-5	3138V-1-B03 (0-1.3)	SPLP East	Solid	6010B	575242
500-191730-5	3138V-1-B03 (0-1.3)	TCLP	Solid	6010B	575241
LB 500-574996/1-B	Method Blank	TCLP	Solid	6010B	575241
LB 500-575000/1-B	Method Blank	SPLP East	Solid	6010B	575242
LCS 500-575241/2-A	Lab Control Sample	Total/NA	Solid	6010B	575241
LCS 500-575242/2-A	Lab Control Sample	Total/NA	Solid	6010B	575242
500-191730-5 MS	3138V-1-B03 (0-1.3)	SPLP East	Solid	6010B	575242
500-191730-5 MS	3138V-1-B03 (0-1.3)	TCLP	Solid	6010B	575241
500-191730-5 DU	3138V-1-B03 (0-1.3)	SPLP East	Solid	6010B	575242
500-191730-5 DU	3138V-1-B03 (0-1.3)	TCLP	Solid	6010B	575241

Analysis Batch: 575564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191730-1	3138V-1-B01 (0-1.3)	Total/NA	Solid	6010B	575261
500-191730-2	3138V-1-B02 (0-6)	Total/NA	Solid	6010B	575261
500-191730-3	3138V-1-B02 (0-6) Dup	Total/NA	Solid	6010B	575261
500-191730-4	3138V-1-B02 (6-12.5)	Total/NA	Solid	6010B	575261
500-191730-5	3138V-1-B03 (0-1.3)	Total/NA	Solid	6010B	575261
MB 500-575261/1-A	Method Blank	Total/NA	Solid	6010B	575261
LCS 500-575261/2-A	Lab Control Sample	Total/NA	Solid	6010B	575261

Analysis Batch: 575593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191730-1	3138V-1-B01 (0-1.3)	TCLP	Solid	6020A	575241
500-191730-2	3138V-1-B02 (0-6)	TCLP	Solid	6020A	575241
500-191730-3	3138V-1-B02 (0-6) Dup	TCLP	Solid	6020A	575241
500-191730-4	3138V-1-B02 (6-12.5)	TCLP	Solid	6020A	575241
500-191730-5	3138V-1-B03 (0-1.3)	TCLP	Solid	6020A	575241
LB 500-574996/1-B	Method Blank	TCLP	Solid	6020A	575241
LCS 500-575241/2-A	Lab Control Sample	Total/NA	Solid	6020A	575241
500-191730-5 MS	3138V-1-B03 (0-1.3)	TCLP	Solid	6020A	575241
500-191730-5 DU	3138V-1-B03 (0-1.3)	TCLP	Solid	6020A	575241

Analysis Batch: 575597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191730-1	3138V-1-B01 (0-1.3)	TCLP	Solid	7470A	575354
500-191730-2	3138V-1-B02 (0-6)	TCLP	Solid	7470A	575354
500-191730-3	3138V-1-B02 (0-6) Dup	TCLP	Solid	7470A	575354
500-191730-4	3138V-1-B02 (6-12.5)	TCLP	Solid	7470A	575354
500-191730-5	3138V-1-B03 (0-1.3)	TCLP	Solid	7470A	575354
LB 500-574996/1-C	Method Blank	TCLP	Solid	7470A	575354
MB 500-575354/12-A	Method Blank	Total/NA	Solid	7470A	575354
LCS 500-575354/14-A	Lab Control Sample	Total/NA	Solid	7470A	575354
500-191730-5 MS	3138V-1-B03 (0-1.3)	TCLP	Solid	7470A	575354
500-191730-5 DU	3138V-1-B03 (0-1.3)	TCLP	Solid	7470A	575354

Prep Batch: 575696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191730-2	3138V-1-B02 (0-6)	TCLP	Solid	3010A	574996

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191730-1

Metals (Continued)

Prep Batch: 575696 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191730-3	3138V-1-B02 (0-6) Dup	TCLP	Solid	3010A	574996
LB 500-574996/2-B	Method Blank	TCLP	Solid	3010A	574996
LCS 500-575696/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 575790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191730-1	3138V-1-B01 (0-1.3)	Total/NA	Solid	6010B	575261
500-191730-2	3138V-1-B02 (0-6)	Total/NA	Solid	6010B	575261
500-191730-3	3138V-1-B02 (0-6) Dup	Total/NA	Solid	6010B	575261

Analysis Batch: 575870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191730-2	3138V-1-B02 (0-6)	TCLP	Solid	6010B	575696
500-191730-3	3138V-1-B02 (0-6) Dup	TCLP	Solid	6010B	575696
LB 500-574996/2-B	Method Blank	TCLP	Solid	6010B	575696
LCS 500-575696/2-A	Lab Control Sample	Total/NA	Solid	6010B	575696

General Chemistry

Analysis Batch: 574939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191730-1	3138V-1-B01 (0-1.3)	Total/NA	Solid	Moisture	
500-191730-2	3138V-1-B02 (0-6)	Total/NA	Solid	Moisture	
500-191730-3	3138V-1-B02 (0-6) Dup	Total/NA	Solid	Moisture	
500-191730-4	3138V-1-B02 (6-12.5)	Total/NA	Solid	Moisture	
500-191730-5	3138V-1-B03 (0-1.3)	Total/NA	Solid	Moisture	

Analysis Batch: 575386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191730-1	3138V-1-B01 (0-1.3)	Total/NA	Solid	9045D	
500-191730-2	3138V-1-B02 (0-6)	Total/NA	Solid	9045D	
500-191730-3	3138V-1-B02 (0-6) Dup	Total/NA	Solid	9045D	
500-191730-4	3138V-1-B02 (6-12.5)	Total/NA	Solid	9045D	
500-191730-5	3138V-1-B03 (0-1.3)	Total/NA	Solid	9045D	
LCS 500-575386/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-575386/3	Lab Control Sample Dup	Total/NA	Solid	9045D	
500-191730-1 DU	3138V-1-B01 (0-1.3)	Total/NA	Solid	9045D	

Prep Batch: 575405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191730-1	3138V-1-B01 (0-1.3)	Total/NA	Solid	9010C	
500-191730-2	3138V-1-B02 (0-6)	Total/NA	Solid	9010C	
500-191730-3	3138V-1-B02 (0-6) Dup	Total/NA	Solid	9010C	
500-191730-4	3138V-1-B02 (6-12.5)	Total/NA	Solid	9010C	
500-191730-5	3138V-1-B03 (0-1.3)	Total/NA	Solid	9010C	
MB 500-575405/1-A	Method Blank	Total/NA	Solid	9010C	
HLCS 500-575405/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 500-575405/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 500-575405/4-A	Lab Control Sample	Total/NA	Solid	9010C	

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191730-1

General Chemistry

Analysis Batch: 575442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191730-1	3138V-1-B01 (0-1.3)	Total/NA	Solid	9012B	575405
500-191730-2	3138V-1-B02 (0-6)	Total/NA	Solid	9012B	575405
500-191730-3	3138V-1-B02 (0-6) Dup	Total/NA	Solid	9012B	575405
500-191730-4	3138V-1-B02 (6-12.5)	Total/NA	Solid	9012B	575405
500-191730-5	3138V-1-B03 (0-1.3)	Total/NA	Solid	9012B	575405
MB 500-575405/1-A	Method Blank	Total/NA	Solid	9012B	575405
HLCS 500-575405/2-A	Lab Control Sample	Total/NA	Solid	9012B	575405
LCS 500-575405/3-A	Lab Control Sample	Total/NA	Solid	9012B	575405
LLCS 500-575405/4-A	Lab Control Sample	Total/NA	Solid	9012B	575405



Surrogate Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191730-1

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)
500-191730-1	3138V-1-B01 (0-1.3)	100	99	92	90
500-191730-2	3138V-1-B02 (0-6)	104	101	92	87
500-191730-3	3138V-1-B02 (0-6) Dup	101	100	88	88
500-191730-4	3138V-1-B02 (6-12.5)	95	102	91	88
500-191730-5	3138V-1-B03 (0-1.3)	93	105	95	87
LCS 500-575332/4	Lab Control Sample	91	90	76	93
MB 500-575332/7	Method Blank	99	93	81	90

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
 DBFM = Dibromofluoromethane
 DCA = 1,2-Dichloroethane-d4 (Surr)
 TOL = Toluene-d8 (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	FBP	2FP	NBZ	PHL	TPHL	TBP
		(43-145)	(31-166)	(37-147)	(30-153)	(42-157)	(31-143)
500-191730-1	3138V-1-B01 (0-1.3)	69	78	71	73	93	55
500-191730-1 MS	3138V-1-B01 (0-1.3)	68	75	70	76	83	66
500-191730-1 MSD	3138V-1-B01 (0-1.3)	74	78	75	81	91	70
500-191730-2	3138V-1-B02 (0-6)	60	75	64	80	93	43
500-191730-3	3138V-1-B02 (0-6) Dup	73	85	74	83	104	74
500-191730-4	3138V-1-B02 (6-12.5)	50	69	59	76	93	48
500-191730-5	3138V-1-B03 (0-1.3)	64	74	66	73	94	60
LCS 500-574879/2-A	Lab Control Sample	88	112	87	89	93	94
LCS 500-575359/2-A	Lab Control Sample	85	94	88	91	93	90
MB 500-574879/1-A	Method Blank	82	107	75	87	80	93
MB 500-575359/1-A	Method Blank	91	106	92	98	119	72

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 - Lake County - WO 073

Job ID: 500-191730-1

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

Lab Sample ID: MB 500-575332/7
Matrix: Solid
Analysis Batch: 575332

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			12/04/20 11:32	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg			12/04/20 11:32	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg			12/04/20 11:32	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg			12/04/20 11:32	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg			12/04/20 11:32	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			12/04/20 11:32	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg			12/04/20 11:32	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg			12/04/20 11:32	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg			12/04/20 11:32	1
Chloroethane	<0.0015		0.0050	0.0015	mg/Kg			12/04/20 11:32	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg			12/04/20 11:32	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg			12/04/20 11:32	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg			12/04/20 11:32	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg			12/04/20 11:32	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg			12/04/20 11:32	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg			12/04/20 11:32	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg			12/04/20 11:32	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg			12/04/20 11:32	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			12/04/20 11:32	1
1,3-Dichloropropane, Total	<0.00070		0.0020	0.00070	mg/Kg			12/04/20 11:32	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg			12/04/20 11:32	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg			12/04/20 11:32	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg			12/04/20 11:32	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg			12/04/20 11:32	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg			12/04/20 11:32	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg			12/04/20 11:32	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg			12/04/20 11:32	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg			12/04/20 11:32	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg			12/04/20 11:32	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg			12/04/20 11:32	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg			12/04/20 11:32	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg			12/04/20 11:32	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg			12/04/20 11:32	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg			12/04/20 11:32	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg			12/04/20 11:32	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg			12/04/20 11:32	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg			12/04/20 11:32	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	99		75 - 131		12/04/20 11:32	1
Dibromofluoromethane	93		75 - 126		12/04/20 11:32	1
1,2-Dichloroethane-d4 (Surr)	81		70 - 134		12/04/20 11:32	1
Toluene-d8 (Surr)	90		75 - 124		12/04/20 11:32	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191730-1

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

Lab Sample ID: LCS 500-575332/4

Matrix: Solid

Analysis Batch: 575332

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	0.0408		mg/Kg		82	40 - 150
Benzene	0.0500	0.0507		mg/Kg		101	70 - 125
Bromodichloromethane	0.0500	0.0478		mg/Kg		96	67 - 129
Bromoform	0.0500	0.0487		mg/Kg		97	68 - 136
Bromomethane	0.0500	0.0429		mg/Kg		86	70 - 130
2-Butanone (MEK)	0.0500	0.0352		mg/Kg		70	47 - 138
Carbon disulfide	0.0500	0.0557		mg/Kg		111	70 - 129
Carbon tetrachloride	0.0500	0.0582		mg/Kg		116	75 - 125
Chlorobenzene	0.0500	0.0525		mg/Kg		105	50 - 150
Chloroethane	0.0500	0.0543		mg/Kg		109	75 - 125
Chloroform	0.0500	0.0505		mg/Kg		101	57 - 135
Chloromethane	0.0500	0.0562		mg/Kg		112	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0508		mg/Kg		102	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0434		mg/Kg		87	70 - 125
Dibromochloromethane	0.0500	0.0505		mg/Kg		101	69 - 125
1,1-Dichloroethane	0.0500	0.0551		mg/Kg		110	70 - 125
1,2-Dichloroethane	0.0500	0.0428		mg/Kg		86	70 - 130
1,1-Dichloroethene	0.0500	0.0542		mg/Kg		108	70 - 120
1,2-Dichloropropane	0.0500	0.0513		mg/Kg		103	70 - 125
Ethylbenzene	0.0500	0.0543		mg/Kg		109	61 - 136
2-Hexanone	0.0500	0.0382		mg/Kg		76	48 - 146
Methylene Chloride	0.0500	0.0462		mg/Kg		92	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0364		mg/Kg		73	50 - 148
Methyl tert-butyl ether	0.0500	0.0370		mg/Kg		74	50 - 140
Styrene	0.0500	0.0522		mg/Kg		104	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0410		mg/Kg		82	70 - 122
Tetrachloroethene	0.0500	0.0555		mg/Kg		111	70 - 124
Toluene	0.0500	0.0521		mg/Kg		104	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0549		mg/Kg		110	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0411		mg/Kg		82	70 - 125
1,1,1-Trichloroethane	0.0500	0.0549		mg/Kg		110	70 - 128
1,1,2-Trichloroethane	0.0500	0.0444		mg/Kg		89	70 - 125
Trichloroethene	0.0500	0.0546		mg/Kg		109	70 - 125
Vinyl acetate	0.0500	0.0376		mg/Kg		75	40 - 153
Vinyl chloride	0.0500	0.0486		mg/Kg		97	70 - 125
Xylenes, Total	0.100	0.101		mg/Kg		101	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	91		75 - 131
Dibromofluoromethane	90		75 - 126
1,2-Dichloroethane-d4 (Surr)	76		70 - 134
Toluene-d8 (Surr)	93		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191730-1

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

Lab Sample ID: MB 500-574879/1-A

Matrix: Solid

Analysis Batch: 575022

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 574879

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	<0.0060		0.033	0.0060	mg/Kg		12/02/20 07:48	12/02/20 22:46	1
Acenaphthylene	<0.0044		0.033	0.0044	mg/Kg		12/02/20 07:48	12/02/20 22:46	1
Anthracene	0.00624	J	0.033	0.0056	mg/Kg		12/02/20 07:48	12/02/20 22:46	1
Benzo[a]anthracene	0.0143	J	0.033	0.0045	mg/Kg		12/02/20 07:48	12/02/20 22:46	1
Benzo[a]pyrene	<0.0064		0.033	0.0064	mg/Kg		12/02/20 07:48	12/02/20 22:46	1
Benzo[b]fluoranthene	0.00894	J	0.033	0.0072	mg/Kg		12/02/20 07:48	12/02/20 22:46	1
Benzo[g,h,i]perylene	<0.011		0.033	0.011	mg/Kg		12/02/20 07:48	12/02/20 22:46	1
Benzo[k]fluoranthene	<0.0098		0.033	0.0098	mg/Kg		12/02/20 07:48	12/02/20 22:46	1
Bis(2-chloroethoxy)methane	<0.034		0.17	0.034	mg/Kg		12/02/20 07:48	12/02/20 22:46	1
Bis(2-chloroethyl)ether	<0.050		0.17	0.050	mg/Kg		12/02/20 07:48	12/02/20 22:46	1
Bis(2-ethylhexyl) phthalate	<0.061		0.17	0.061	mg/Kg		12/02/20 07:48	12/02/20 22:46	1
4-Bromophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		12/02/20 07:48	12/02/20 22:46	1
Butyl benzyl phthalate	<0.063		0.17	0.063	mg/Kg		12/02/20 07:48	12/02/20 22:46	1
Carbazole	<0.083		0.17	0.083	mg/Kg		12/02/20 07:48	12/02/20 22:46	1
4-Chloroaniline	<0.16		0.67	0.16	mg/Kg		12/02/20 07:48	12/02/20 22:46	1
4-Chloro-3-methylphenol	<0.11		0.33	0.11	mg/Kg		12/02/20 07:48	12/02/20 22:46	1
2-Chloronaphthalene	<0.037		0.17	0.037	mg/Kg		12/02/20 07:48	12/02/20 22:46	1
2-Chlorophenol	<0.057		0.17	0.057	mg/Kg		12/02/20 07:48	12/02/20 22:46	1
4-Chlorophenyl phenyl ether	<0.039		0.17	0.039	mg/Kg		12/02/20 07:48	12/02/20 22:46	1
Chrysene	0.0126	J	0.033	0.0091	mg/Kg		12/02/20 07:48	12/02/20 22:46	1
Dibenz(a,h)anthracene	<0.0064		0.033	0.0064	mg/Kg		12/02/20 07:48	12/02/20 22:46	1
Dibenzofuran	<0.039		0.17	0.039	mg/Kg		12/02/20 07:48	12/02/20 22:46	1
1,2-Dichlorobenzene	<0.040		0.17	0.040	mg/Kg		12/02/20 07:48	12/02/20 22:46	1
1,3-Dichlorobenzene	<0.037		0.17	0.037	mg/Kg		12/02/20 07:48	12/02/20 22:46	1
1,4-Dichlorobenzene	<0.043		0.17	0.043	mg/Kg		12/02/20 07:48	12/02/20 22:46	1
3,3'-Dichlorobenzidine	<0.047		0.17	0.047	mg/Kg		12/02/20 07:48	12/02/20 22:46	1
2,4-Dichlorophenol	<0.079		0.33	0.079	mg/Kg		12/02/20 07:48	12/02/20 22:46	1
Diethyl phthalate	<0.056		0.17	0.056	mg/Kg		12/02/20 07:48	12/02/20 22:46	1
2,4-Dimethylphenol	<0.13		0.33	0.13	mg/Kg		12/02/20 07:48	12/02/20 22:46	1
Dimethyl phthalate	<0.043		0.17	0.043	mg/Kg		12/02/20 07:48	12/02/20 22:46	1
Di-n-butyl phthalate	<0.051		0.17	0.051	mg/Kg		12/02/20 07:48	12/02/20 22:46	1
4,6-Dinitro-2-methylphenol	<0.27		0.67	0.27	mg/Kg		12/02/20 07:48	12/02/20 22:46	1
2,4-Dinitrophenol	<0.59		0.67	0.59	mg/Kg		12/02/20 07:48	12/02/20 22:46	1
2,4-Dinitrotoluene	<0.053		0.17	0.053	mg/Kg		12/02/20 07:48	12/02/20 22:46	1
2,6-Dinitrotoluene	<0.065		0.17	0.065	mg/Kg		12/02/20 07:48	12/02/20 22:46	1
Di-n-octyl phthalate	<0.054		0.17	0.054	mg/Kg		12/02/20 07:48	12/02/20 22:46	1
Fluoranthene	0.0523		0.033	0.0062	mg/Kg		12/02/20 07:48	12/02/20 22:46	1
Fluorene	<0.0047		0.033	0.0047	mg/Kg		12/02/20 07:48	12/02/20 22:46	1
Hexachlorobenzene	<0.0077		0.067	0.0077	mg/Kg		12/02/20 07:48	12/02/20 22:46	1
Hexachlorobutadiene	<0.052		0.17	0.052	mg/Kg		12/02/20 07:48	12/02/20 22:46	1
Hexachlorocyclopentadiene	<0.19		0.67	0.19	mg/Kg		12/02/20 07:48	12/02/20 22:46	1
Hexachloroethane	<0.051		0.17	0.051	mg/Kg		12/02/20 07:48	12/02/20 22:46	1
Indeno[1,2,3-cd]pyrene	<0.0086		0.033	0.0086	mg/Kg		12/02/20 07:48	12/02/20 22:46	1
Isophorone	<0.037		0.17	0.037	mg/Kg		12/02/20 07:48	12/02/20 22:46	1
2-Methylnaphthalene	<0.0061		0.067	0.0061	mg/Kg		12/02/20 07:48	12/02/20 22:46	1
2-Methylphenol	<0.053		0.17	0.053	mg/Kg		12/02/20 07:48	12/02/20 22:46	1
3 & 4 Methylphenol	<0.055		0.17	0.055	mg/Kg		12/02/20 07:48	12/02/20 22:46	1
Naphthalene	<0.0051		0.033	0.0051	mg/Kg		12/02/20 07:48	12/02/20 22:46	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191730-1

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

Lab Sample ID: MB 500-574879/1-A
Matrix: Solid
Analysis Batch: 575022

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 574879

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	<0.045		0.17	0.045	mg/Kg		12/02/20 07:48	12/02/20 22:46	1
3-Nitroaniline	<0.10		0.33	0.10	mg/Kg		12/02/20 07:48	12/02/20 22:46	1
4-Nitroaniline	<0.14		0.33	0.14	mg/Kg		12/02/20 07:48	12/02/20 22:46	1
Nitrobenzene	<0.0083		0.033	0.0083	mg/Kg		12/02/20 07:48	12/02/20 22:46	1
2-Nitrophenol	<0.079		0.33	0.079	mg/Kg		12/02/20 07:48	12/02/20 22:46	1
4-Nitrophenol	<0.32		0.67	0.32	mg/Kg		12/02/20 07:48	12/02/20 22:46	1
N-Nitrosodi-n-propylamine	<0.041		0.067	0.041	mg/Kg		12/02/20 07:48	12/02/20 22:46	1
N-Nitrosodiphenylamine	<0.039		0.17	0.039	mg/Kg		12/02/20 07:48	12/02/20 22:46	1
2,2'-oxybis[1-chloropropane]	<0.039		0.17	0.039	mg/Kg		12/02/20 07:48	12/02/20 22:46	1
Pentachlorophenol	<0.53		0.67	0.53	mg/Kg		12/02/20 07:48	12/02/20 22:46	1
Phenanthrene	0.0318	J	0.033	0.0046	mg/Kg		12/02/20 07:48	12/02/20 22:46	1
Phenol	<0.074		0.17	0.074	mg/Kg		12/02/20 07:48	12/02/20 22:46	1
Pyrene	0.0300	J	0.033	0.0066	mg/Kg		12/02/20 07:48	12/02/20 22:46	1
1,2,4-Trichlorobenzene	<0.036		0.17	0.036	mg/Kg		12/02/20 07:48	12/02/20 22:46	1
2,4,5-Trichlorophenol	<0.076		0.33	0.076	mg/Kg		12/02/20 07:48	12/02/20 22:46	1
2,4,6-Trichlorophenol	<0.11		0.33	0.11	mg/Kg		12/02/20 07:48	12/02/20 22:46	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	82		43 - 145	12/02/20 07:48	12/02/20 22:46	1
2-Fluorophenol	107		31 - 166	12/02/20 07:48	12/02/20 22:46	1
Nitrobenzene-d5	75		37 - 147	12/02/20 07:48	12/02/20 22:46	1
Phenol-d5	87		30 - 153	12/02/20 07:48	12/02/20 22:46	1
Terphenyl-d14	80		42 - 157	12/02/20 07:48	12/02/20 22:46	1
2,4,6-Tribromophenol	93		31 - 143	12/02/20 07:48	12/02/20 22:46	1

Lab Sample ID: LCS 500-574879/2-A
Matrix: Solid
Analysis Batch: 575022

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 574879

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1.33	1.19		mg/Kg		89	65 - 124
Acenaphthylene	1.33	1.19		mg/Kg		89	68 - 120
Anthracene	1.33	1.23		mg/Kg		93	70 - 114
Benzo[a]anthracene	1.33	1.21		mg/Kg		91	67 - 122
Benzo[a]pyrene	1.33	1.29		mg/Kg		97	65 - 133
Benzo[b]fluoranthene	1.33	1.26		mg/Kg		95	69 - 129
Benzo[g,h,i]perylene	1.33	1.27		mg/Kg		95	72 - 131
Benzo[k]fluoranthene	1.33	1.28		mg/Kg		96	68 - 127
Bis(2-chloroethoxy)methane	1.33	1.18		mg/Kg		88	60 - 112
Bis(2-chloroethyl)ether	1.33	1.20		mg/Kg		90	55 - 111
Bis(2-ethylhexyl) phthalate	1.33	1.22		mg/Kg		91	72 - 131
4-Bromophenyl phenyl ether	1.33	1.28		mg/Kg		96	68 - 118
Butyl benzyl phthalate	1.33	1.19		mg/Kg		90	71 - 129
Carbazole	1.33	1.33		mg/Kg		100	65 - 142
4-Chloroaniline	1.33	0.429	J	mg/Kg		32	30 - 150
4-Chloro-3-methylphenol	1.33	1.26		mg/Kg		95	65 - 122
2-Chloronaphthalene	1.33	1.19		mg/Kg		89	69 - 114
2-Chlorophenol	1.33	1.27		mg/Kg		95	64 - 110

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191730-1

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

Lab Sample ID: LCS 500-574879/2-A

Matrix: Solid

Analysis Batch: 575022

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 574879

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorophenyl phenyl ether	1.33	1.22		mg/Kg		92	62 - 119
Chrysene	1.33	1.26		mg/Kg		95	63 - 120
Dibenz(a,h)anthracene	1.33	1.27		mg/Kg		95	64 - 131
Dibenzofuran	1.33	1.20		mg/Kg		90	66 - 115
1,2-Dichlorobenzene	1.33	1.19		mg/Kg		90	62 - 110
1,3-Dichlorobenzene	1.33	1.12		mg/Kg		84	65 - 124
1,4-Dichlorobenzene	1.33	1.14		mg/Kg		86	61 - 110
3,3'-Dichlorobenzidine	1.33	0.532		mg/Kg		40	35 - 128
2,4-Dichlorophenol	1.33	1.28		mg/Kg		96	58 - 120
Diethyl phthalate	1.33	1.23		mg/Kg		92	58 - 120
2,4-Dimethylphenol	1.33	1.10		mg/Kg		83	60 - 110
Dimethyl phthalate	1.33	1.19		mg/Kg		89	69 - 116
Di-n-butyl phthalate	1.33	1.24		mg/Kg		93	65 - 120
4,6-Dinitro-2-methylphenol	2.67	2.18		mg/Kg		82	10 - 110
2,4-Dinitrophenol	2.67	1.77		mg/Kg		66	10 - 100
2,4-Dinitrotoluene	1.33	1.25		mg/Kg		94	69 - 124
2,6-Dinitrotoluene	1.33	1.24		mg/Kg		93	70 - 123
Di-n-octyl phthalate	1.33	1.25		mg/Kg		94	68 - 134
Fluoranthene	1.33	1.27		mg/Kg		96	62 - 120
Fluorene	1.33	1.18		mg/Kg		89	62 - 120
Hexachlorobenzene	1.33	1.35		mg/Kg		101	63 - 124
Hexachlorobutadiene	1.33	1.33		mg/Kg		99	56 - 120
Hexachlorocyclopentadiene	1.33	0.710		mg/Kg		53	10 - 133
Hexachloroethane	1.33	1.12		mg/Kg		84	60 - 114
Indeno[1,2,3-cd]pyrene	1.33	1.29		mg/Kg		97	68 - 130
Isophorone	1.33	1.16		mg/Kg		87	55 - 110
2-Methylnaphthalene	1.33	1.21		mg/Kg		91	69 - 112
2-Methylphenol	1.33	1.19		mg/Kg		89	60 - 120
3 & 4 Methylphenol	1.33	1.19		mg/Kg		89	57 - 120
Naphthalene	1.33	1.19		mg/Kg		89	63 - 110
2-Nitroaniline	1.33	1.12		mg/Kg		84	57 - 124
3-Nitroaniline	1.33	0.728		mg/Kg		55	40 - 122
4-Nitroaniline	1.33	0.779 *		mg/Kg		58	60 - 160
Nitrobenzene	1.33	1.15		mg/Kg		86	60 - 116
2-Nitrophenol	1.33	1.22		mg/Kg		91	60 - 120
4-Nitrophenol	2.67	2.62		mg/Kg		98	30 - 122
N-Nitrosodi-n-propylamine	1.33	1.13		mg/Kg		85	56 - 118
N-Nitrosodiphenylamine	1.33	1.19		mg/Kg		90	65 - 112
2,2'-oxybis[1-chloropropane]	1.33	1.10		mg/Kg		82	40 - 124
Pentachlorophenol	2.67	2.13		mg/Kg		80	13 - 112
Phenanthrene	1.33	1.24		mg/Kg		93	62 - 120
Phenol	1.33	1.24		mg/Kg		93	56 - 122
Pyrene	1.33	1.24		mg/Kg		93	61 - 128
1,2,4-Trichlorobenzene	1.33	1.25		mg/Kg		94	66 - 117
2,4,5-Trichlorophenol	1.33	1.27		mg/Kg		95	50 - 120
2,4,6-Trichlorophenol	1.33	1.29		mg/Kg		97	57 - 120

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191730-1

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

Lab Sample ID: LCS 500-574879/2-A
Matrix: Solid
Analysis Batch: 575022

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 574879

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	88		43 - 145
2-Fluorophenol	112		31 - 166
Nitrobenzene-d5	87		37 - 147
Phenol-d5	89		30 - 153
Terphenyl-d14	93		42 - 157
2,4,6-Tribromophenol	94		31 - 143

Lab Sample ID: MB 500-575359/1-A
Matrix: Solid
Analysis Batch: 575497

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575359

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	<0.0060		0.033	0.0060	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
Acenaphthylene	<0.0044		0.033	0.0044	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
Anthracene	<0.0056		0.033	0.0056	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
Benzo[a]anthracene	<0.0045		0.033	0.0045	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
Benzo[a]pyrene	<0.0064		0.033	0.0064	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
Benzo[b]fluoranthene	<0.0072		0.033	0.0072	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
Benzo[g,h,i]perylene	<0.011		0.033	0.011	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
Benzo[k]fluoranthene	<0.0098		0.033	0.0098	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
Bis(2-chloroethoxy)methane	<0.034		0.17	0.034	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
Bis(2-chloroethyl)ether	<0.050		0.17	0.050	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
Bis(2-ethylhexyl) phthalate	<0.061		0.17	0.061	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
4-Bromophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
Butyl benzyl phthalate	<0.063		0.17	0.063	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
Carbazole	<0.083		0.17	0.083	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
4-Chloroaniline	<0.16		0.67	0.16	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
4-Chloro-3-methylphenol	<0.11		0.33	0.11	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
2-Chloronaphthalene	<0.037		0.17	0.037	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
2-Chlorophenol	<0.057		0.17	0.057	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
4-Chlorophenyl phenyl ether	<0.039		0.17	0.039	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
Chrysene	<0.0091		0.033	0.0091	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
Dibenz(a,h)anthracene	<0.0064		0.033	0.0064	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
Dibenzofuran	<0.039		0.17	0.039	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
1,2-Dichlorobenzene	<0.040		0.17	0.040	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
1,3-Dichlorobenzene	<0.037		0.17	0.037	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
1,4-Dichlorobenzene	<0.043		0.17	0.043	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
3,3'-Dichlorobenzidine	<0.047		0.17	0.047	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
2,4-Dichlorophenol	<0.079		0.33	0.079	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
Diethyl phthalate	<0.056		0.17	0.056	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
2,4-Dimethylphenol	<0.13		0.33	0.13	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
Dimethyl phthalate	<0.043		0.17	0.043	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
Di-n-butyl phthalate	<0.051		0.17	0.051	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
4,6-Dinitro-2-methylphenol	<0.27		0.67	0.27	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
2,4-Dinitrophenol	<0.59		0.67	0.59	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
2,4-Dinitrotoluene	<0.053		0.17	0.053	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
2,6-Dinitrotoluene	<0.065		0.17	0.065	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
Di-n-octyl phthalate	<0.054		0.17	0.054	mg/Kg		12/04/20 08:51	12/05/20 14:24	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191730-1

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

Lab Sample ID: MB 500-575359/1-A
Matrix: Solid
Analysis Batch: 575497

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575359

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.0062		0.033	0.0062	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
Fluorene	<0.0047		0.033	0.0047	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
Hexachlorobenzene	<0.0077		0.067	0.0077	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
Hexachlorobutadiene	<0.052		0.17	0.052	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
Hexachlorocyclopentadiene	<0.19		0.67	0.19	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
Hexachloroethane	<0.051		0.17	0.051	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
Indeno[1,2,3-cd]pyrene	<0.0086		0.033	0.0086	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
Isophorone	<0.037		0.17	0.037	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
2-Methylnaphthalene	<0.0061		0.067	0.0061	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
2-Methylphenol	<0.053		0.17	0.053	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
3 & 4 Methylphenol	<0.055		0.17	0.055	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
Naphthalene	<0.0051		0.033	0.0051	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
2-Nitroaniline	<0.045		0.17	0.045	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
3-Nitroaniline	<0.10		0.33	0.10	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
4-Nitroaniline	<0.14		0.33	0.14	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
Nitrobenzene	<0.0083		0.033	0.0083	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
2-Nitrophenol	<0.079		0.33	0.079	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
4-Nitrophenol	<0.32		0.67	0.32	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
N-Nitrosodi-n-propylamine	<0.041		0.067	0.041	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
N-Nitrosodiphenylamine	<0.039		0.17	0.039	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
2,2'-oxybis[1-chloropropane]	<0.039		0.17	0.039	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
Pentachlorophenol	<0.53		0.67	0.53	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
Phenanthrene	<0.0046		0.033	0.0046	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
Phenol	<0.074		0.17	0.074	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
Pyrene	<0.0066		0.033	0.0066	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
1,2,4-Trichlorobenzene	<0.036		0.17	0.036	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
2,4,5-Trichlorophenol	<0.076		0.33	0.076	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
2,4,6-Trichlorophenol	<0.11		0.33	0.11	mg/Kg		12/04/20 08:51	12/05/20 14:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	91		43 - 145	12/04/20 08:51	12/05/20 14:24	1
2-Fluorophenol	106		31 - 166	12/04/20 08:51	12/05/20 14:24	1
Nitrobenzene-d5	92		37 - 147	12/04/20 08:51	12/05/20 14:24	1
Phenol-d5	98		30 - 153	12/04/20 08:51	12/05/20 14:24	1
Terphenyl-d14	119		42 - 157	12/04/20 08:51	12/05/20 14:24	1
2,4,6-Tribromophenol	72		31 - 143	12/04/20 08:51	12/05/20 14:24	1

Lab Sample ID: LCS 500-575359/2-A
Matrix: Solid
Analysis Batch: 575497

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575359

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	1.33	1.13		mg/Kg		85	65 - 124
Acenaphthylene	1.33	1.12		mg/Kg		84	68 - 120
Anthracene	1.33	1.14		mg/Kg		86	70 - 114
Benzo[a]anthracene	1.33	1.16		mg/Kg		87	67 - 122
Benzo[a]pyrene	1.33	1.22		mg/Kg		92	65 - 133
Benzo[b]fluoranthene	1.33	1.25		mg/Kg		94	69 - 129

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191730-1

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

Lab Sample ID: LCS 500-575359/2-A
Matrix: Solid
Analysis Batch: 575497

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575359

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[g,h,i]perylene	1.33	1.22		mg/Kg		92	72 - 131
Benzo[k]fluoranthene	1.33	1.26		mg/Kg		95	68 - 127
Bis(2-chloroethoxy)methane	1.33	1.15		mg/Kg		86	60 - 112
Bis(2-chloroethyl)ether	1.33	1.14		mg/Kg		85	55 - 111
Bis(2-ethylhexyl) phthalate	1.33	1.20		mg/Kg		90	72 - 131
4-Bromophenyl phenyl ether	1.33	1.16		mg/Kg		87	68 - 118
Butyl benzyl phthalate	1.33	1.21		mg/Kg		91	71 - 129
Carbazole	1.33	1.17		mg/Kg		88	65 - 142
4-Chloroaniline	1.33	1.05		mg/Kg		79	30 - 150
4-Chloro-3-methylphenol	1.33	1.15		mg/Kg		86	65 - 122
2-Chloronaphthalene	1.33	1.14		mg/Kg		85	69 - 114
2-Chlorophenol	1.33	1.16		mg/Kg		87	64 - 110
4-Chlorophenyl phenyl ether	1.33	1.17		mg/Kg		88	62 - 119
Chrysene	1.33	1.15		mg/Kg		86	63 - 120
Dibenz(a,h)anthracene	1.33	1.30		mg/Kg		98	64 - 131
Dibenzofuran	1.33	1.14		mg/Kg		85	66 - 115
1,2-Dichlorobenzene	1.33	1.11		mg/Kg		83	62 - 110
1,3-Dichlorobenzene	1.33	1.08		mg/Kg		81	65 - 124
1,4-Dichlorobenzene	1.33	1.08		mg/Kg		81	61 - 110
3,3'-Dichlorobenzidine	1.33	0.867		mg/Kg		65	35 - 128
2,4-Dichlorophenol	1.33	1.13		mg/Kg		85	58 - 120
Diethyl phthalate	1.33	1.19		mg/Kg		89	58 - 120
2,4-Dimethylphenol	1.33	1.14		mg/Kg		85	60 - 110
Dimethyl phthalate	1.33	1.17		mg/Kg		88	69 - 116
Di-n-butyl phthalate	1.33	1.19		mg/Kg		89	65 - 120
4,6-Dinitro-2-methylphenol	2.67	0.826		mg/Kg		31	10 - 110
2,4-Dinitrophenol	2.67	<0.59		mg/Kg		17	10 - 100
2,4-Dinitrotoluene	1.33	1.17		mg/Kg		88	69 - 124
2,6-Dinitrotoluene	1.33	1.19		mg/Kg		89	70 - 123
Di-n-octyl phthalate	1.33	1.14		mg/Kg		85	68 - 134
Fluoranthene	1.33	1.17		mg/Kg		88	62 - 120
Fluorene	1.33	1.15		mg/Kg		87	62 - 120
Hexachlorobenzene	1.33	1.26		mg/Kg		94	63 - 124
Hexachlorobutadiene	1.33	1.21		mg/Kg		91	56 - 120
Hexachlorocyclopentadiene	1.33	0.695		mg/Kg		52	10 - 133
Hexachloroethane	1.33	1.10		mg/Kg		82	60 - 114
Indeno[1,2,3-cd]pyrene	1.33	1.24		mg/Kg		93	68 - 130
Isophorone	1.33	1.17		mg/Kg		87	55 - 110
2-Methylnaphthalene	1.33	1.15		mg/Kg		86	69 - 112
2-Methylphenol	1.33	1.20		mg/Kg		90	60 - 120
3 & 4 Methylphenol	1.33	1.16		mg/Kg		87	57 - 120
Naphthalene	1.33	1.12		mg/Kg		84	63 - 110
2-Nitroaniline	1.33	1.17		mg/Kg		88	57 - 124
3-Nitroaniline	1.33	0.891		mg/Kg		67	40 - 122
4-Nitroaniline	1.33	1.03		mg/Kg		78	60 - 160
Nitrobenzene	1.33	1.17		mg/Kg		88	60 - 116
2-Nitrophenol	1.33	1.14		mg/Kg		86	60 - 120
4-Nitrophenol	2.67	2.24		mg/Kg		84	30 - 122
N-Nitrosodi-n-propylamine	1.33	1.21		mg/Kg		91	56 - 118

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191730-1

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

Lab Sample ID: LCS 500-575359/2-A
Matrix: Solid
Analysis Batch: 575497

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575359

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Nitrosodiphenylamine	1.33	1.14		mg/Kg		86	65 - 112
2,2'-oxybis[1-chloropropane]	1.33	1.23		mg/Kg		92	40 - 124
Pentachlorophenol	2.67	1.64		mg/Kg		62	13 - 112
Phenanthrene	1.33	1.15		mg/Kg		86	62 - 120
Phenol	1.33	1.18		mg/Kg		88	56 - 122
Pyrene	1.33	1.18		mg/Kg		89	61 - 128
1,2,4-Trichlorobenzene	1.33	1.17		mg/Kg		88	66 - 117
2,4,5-Trichlorophenol	1.33	1.12		mg/Kg		84	50 - 120
2,4,6-Trichlorophenol	1.33	1.10		mg/Kg		82	57 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	85		43 - 145
2-Fluorophenol	94		31 - 166
Nitrobenzene-d5	88		37 - 147
Phenol-d5	91		30 - 153
Terphenyl-d14	93		42 - 157
2,4,6-Tribromophenol	90		31 - 143

Lab Sample ID: 500-191730-1 MS
Matrix: Solid
Analysis Batch: 575497

Client Sample ID: 3138V-1-B01 (0-1.3)
Prep Type: Total/NA
Prep Batch: 575359

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	<0.0068		1.53	1.16		mg/Kg	✱	76	65 - 124
Acenaphthylene	<0.0050		1.53	1.16		mg/Kg	✱	76	68 - 120
Anthracene	<0.0064		1.53	1.25		mg/Kg	✱	82	70 - 114
Benzo[a]anthracene	0.035	J	1.53	1.28		mg/Kg	✱	81	67 - 122
Benzo[a]pyrene	0.040		1.53	1.34		mg/Kg	✱	85	65 - 133
Benzo[b]fluoranthene	0.054		1.53	1.34		mg/Kg	✱	84	69 - 129
Benzo[g,h,i]perylene	0.030	J	1.53	1.28		mg/Kg	✱	81	72 - 131
Benzo[k]fluoranthene	0.017	J	1.53	1.38		mg/Kg	✱	89	68 - 127
Bis(2-chloroethoxy)methane	<0.039		1.53	1.18		mg/Kg	✱	77	60 - 112
Bis(2-chloroethyl)ether	<0.057		1.53	1.14		mg/Kg	✱	74	55 - 111
Bis(2-ethylhexyl) phthalate	<0.070		1.53	1.30		mg/Kg	✱	85	72 - 131
4-Bromophenyl phenyl ether	<0.050		1.53	1.23		mg/Kg	✱	80	68 - 118
Butyl benzyl phthalate	<0.072		1.53	1.28		mg/Kg	✱	84	71 - 129
Carbazole	<0.095		1.53	1.27		mg/Kg	✱	83	65 - 142
4-Chloroaniline	<0.18		1.53	0.977		mg/Kg	✱	64	30 - 150
4-Chloro-3-methylphenol	<0.13		1.53	1.25		mg/Kg	✱	82	65 - 122
2-Chloronaphthalene	<0.042		1.53	1.14		mg/Kg	✱	75	69 - 114
2-Chlorophenol	<0.065		1.53	1.19		mg/Kg	✱	78	64 - 110
4-Chlorophenyl phenyl ether	<0.045		1.53	1.23		mg/Kg	✱	80	62 - 119
Chrysene	0.042		1.53	1.29		mg/Kg	✱	81	63 - 120
Dibenz(a,h)anthracene	<0.0074		1.53	1.36		mg/Kg	✱	89	64 - 131
Dibenzofuran	<0.045		1.53	1.19		mg/Kg	✱	78	66 - 115
1,2-Dichlorobenzene	<0.046		1.53	0.989		mg/Kg	✱	64	62 - 110
1,3-Dichlorobenzene	<0.043		1.53	0.918		mg/Kg	✱	60	60 - 110
1,4-Dichlorobenzene	<0.049		1.53	0.946		mg/Kg	✱	62	61 - 110

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191730-1

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

Lab Sample ID: 500-191730-1 MS

Client Sample ID: 3138V-1-B01 (0-1.3)

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 575497

Prep Batch: 575359

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
3,3'-Dichlorobenzidine	<0.053		1.53	0.772		mg/Kg	✱	50	35 - 128
2,4-Dichlorophenol	<0.091		1.53	1.17		mg/Kg	✱	76	58 - 120
Diethyl phthalate	<0.065		1.53	1.27		mg/Kg	✱	83	58 - 120
2,4-Dimethylphenol	<0.14		1.53	1.09		mg/Kg	✱	71	60 - 110
Dimethyl phthalate	<0.050		1.53	1.24		mg/Kg	✱	81	69 - 116
Di-n-butyl phthalate	<0.058		1.53	1.31		mg/Kg	✱	85	65 - 120
4,6-Dinitro-2-methylphenol	<0.31		3.07	1.67		mg/Kg	✱	55	10 - 110
2,4-Dinitrophenol	<0.67		3.07	1.11		mg/Kg	✱	36	10 - 100
2,4-Dinitrotoluene	<0.061		1.53	1.28		mg/Kg	✱	83	69 - 124
2,6-Dinitrotoluene	<0.075		1.53	1.27		mg/Kg	✱	83	70 - 123
Di-n-octyl phthalate	<0.062		1.53	1.30		mg/Kg	✱	85	68 - 134
Fluoranthene	0.062		1.53	1.31		mg/Kg	✱	81	62 - 120
Fluorene	<0.0054		1.53	1.19		mg/Kg	✱	78	62 - 120
Hexachlorobenzene	<0.0088		1.53	1.34		mg/Kg	✱	88	63 - 124
Hexachlorobutadiene	<0.060		1.53	1.07		mg/Kg	✱	69	56 - 120
Hexachlorocyclopentadiene	<0.22		1.53	0.674	J	mg/Kg	✱	44	10 - 133
Hexachloroethane	<0.058	F1	1.53	0.910	F1	mg/Kg	✱	59	60 - 114
Indeno[1,2,3-cd]pyrene	0.026	J	1.53	1.33		mg/Kg	✱	85	68 - 130
Isophorone	<0.043		1.53	1.23		mg/Kg	✱	80	55 - 110
2-Methylnaphthalene	<0.0070		1.53	1.15		mg/Kg	✱	75	69 - 112
2-Methylphenol	<0.061		1.53	1.25		mg/Kg	✱	82	60 - 120
3 & 4 Methylphenol	<0.064		1.53	1.19		mg/Kg	✱	77	57 - 120
Naphthalene	<0.0059		1.53	1.11		mg/Kg	✱	72	63 - 110
2-Nitroaniline	<0.051		1.53	1.23		mg/Kg	✱	80	57 - 124
3-Nitroaniline	<0.12		1.53	0.838		mg/Kg	✱	55	40 - 122
4-Nitroaniline	<0.16		1.53	1.08		mg/Kg	✱	70	60 - 160
Nitrobenzene	<0.0095		1.53	1.17		mg/Kg	✱	76	60 - 116
2-Nitrophenol	<0.090		1.53	1.17		mg/Kg	✱	76	60 - 120
4-Nitrophenol	<0.36		3.07	2.58		mg/Kg	✱	84	30 - 122
N-Nitrosodi-n-propylamine	<0.047		1.53	1.30		mg/Kg	✱	84	56 - 118
N-Nitrosodiphenylamine	<0.045		1.53	1.18		mg/Kg	✱	77	65 - 112
2,2'-oxybis[1-chloropropane]	<0.044		1.53	1.30		mg/Kg	✱	85	40 - 124
Pentachlorophenol	<0.61		3.07	1.47		mg/Kg	✱	48	13 - 112
Phenanthrene	0.020	J	1.53	1.27		mg/Kg	✱	82	62 - 120
Phenol	<0.085		1.53	1.22		mg/Kg	✱	79	56 - 122
Pyrene	0.063		1.53	1.30		mg/Kg	✱	81	61 - 128
1,2,4-Trichlorobenzene	<0.041		1.53	1.10		mg/Kg	✱	71	66 - 117
2,4,5-Trichlorophenol	<0.087		1.53	1.15		mg/Kg	✱	75	50 - 120
2,4,6-Trichlorophenol	<0.13		1.53	1.02		mg/Kg	✱	66	57 - 120

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	68		43 - 145
2-Fluorophenol	75		31 - 166
Nitrobenzene-d5	70		37 - 147
Phenol-d5	76		30 - 153
Terphenyl-d14	83		42 - 157
2,4,6-Tribromophenol	66		31 - 143

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191730-1

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

Lab Sample ID: 500-191730-1 MSD

Matrix: Solid

Analysis Batch: 575497

Client Sample ID: 3138V-1-B01 (0-1.3)

Prep Type: Total/NA

Prep Batch: 575359

Analyte	Sample	Sample Qualifier	Spike Added	MSD	MSD Qualifier	Unit	D	%Rec	%Rec.	RPD	Limit
	Result			Result					Limits		
Acenaphthene	<0.0068		1.55	1.31		mg/Kg	✱	85	65 - 124	12	30
Acenaphthylene	<0.0050		1.55	1.31		mg/Kg	✱	84	68 - 120	12	30
Anthracene	<0.0064		1.55	1.38		mg/Kg	✱	89	70 - 114	10	30
Benzo[a]anthracene	0.035	J	1.55	1.39		mg/Kg	✱	87	67 - 122	8	30
Benzo[a]pyrene	0.040		1.55	1.48		mg/Kg	✱	93	65 - 133	10	30
Benzo[b]fluoranthene	0.054		1.55	1.58		mg/Kg	✱	98	69 - 129	16	30
Benzo[g,h,i]perylene	0.030	J	1.55	1.32		mg/Kg	✱	83	72 - 131	3	30
Benzo[k]fluoranthene	0.017	J	1.55	1.44		mg/Kg	✱	92	68 - 127	4	30
Bis(2-chloroethoxy)methane	<0.039		1.55	1.32		mg/Kg	✱	85	60 - 112	11	30
Bis(2-chloroethyl)ether	<0.057		1.55	1.27		mg/Kg	✱	82	55 - 111	11	30
Bis(2-ethylhexyl) phthalate	<0.070		1.55	1.42		mg/Kg	✱	92	72 - 131	9	30
4-Bromophenyl phenyl ether	<0.050		1.55	1.36		mg/Kg	✱	88	68 - 118	11	30
Butyl benzyl phthalate	<0.072		1.55	1.40		mg/Kg	✱	91	71 - 129	9	30
Carbazole	<0.095		1.55	1.41		mg/Kg	✱	91	65 - 142	10	30
4-Chloroaniline	<0.18		1.55	1.05		mg/Kg	✱	68	30 - 150	7	30
4-Chloro-3-methylphenol	<0.13		1.55	1.39		mg/Kg	✱	90	65 - 122	11	30
2-Chloronaphthalene	<0.042		1.55	1.31		mg/Kg	✱	84	69 - 114	13	30
2-Chlorophenol	<0.065		1.55	1.28		mg/Kg	✱	83	64 - 110	7	30
4-Chlorophenyl phenyl ether	<0.045		1.55	1.37		mg/Kg	✱	88	62 - 119	11	30
Chrysene	0.042		1.55	1.42		mg/Kg	✱	89	63 - 120	10	30
Dibenz(a,h)anthracene	<0.0074		1.55	1.44		mg/Kg	✱	93	64 - 131	5	30
Dibenzofuran	<0.045		1.55	1.34		mg/Kg	✱	86	66 - 115	12	30
1,2-Dichlorobenzene	<0.046		1.55	1.07		mg/Kg	✱	69	62 - 110	8	30
1,3-Dichlorobenzene	<0.043		1.55	1.01		mg/Kg	✱	65	60 - 110	9	30
1,4-Dichlorobenzene	<0.049		1.55	1.03		mg/Kg	✱	66	61 - 110	8	30
3,3'-Dichlorobenzidine	<0.053		1.55	0.759		mg/Kg	✱	49	35 - 128	2	30
2,4-Dichlorophenol	<0.091		1.55	1.30		mg/Kg	✱	84	58 - 120	10	30
Diethyl phthalate	<0.065		1.55	1.42		mg/Kg	✱	92	58 - 120	11	30
2,4-Dimethylphenol	<0.14		1.55	1.17		mg/Kg	✱	76	60 - 110	7	30
Dimethyl phthalate	<0.050		1.55	1.41		mg/Kg	✱	91	69 - 116	13	30
Di-n-butyl phthalate	<0.058		1.55	1.43		mg/Kg	✱	92	65 - 120	9	30
4,6-Dinitro-2-methylphenol	<0.31		3.10	1.90		mg/Kg	✱	61	10 - 110	13	30
2,4-Dinitrophenol	<0.67		3.10	1.41		mg/Kg	✱	45	10 - 100	24	30
2,4-Dinitrotoluene	<0.061		1.55	1.43		mg/Kg	✱	92	69 - 124	11	30
2,6-Dinitrotoluene	<0.075		1.55	1.42		mg/Kg	✱	92	70 - 123	11	30
Di-n-octyl phthalate	<0.062		1.55	1.44		mg/Kg	✱	93	68 - 134	10	30
Fluoranthene	0.062		1.55	1.48		mg/Kg	✱	92	62 - 120	12	30
Fluorene	<0.0054		1.55	1.35		mg/Kg	✱	87	62 - 120	12	30
Hexachlorobenzene	<0.0088		1.55	1.48		mg/Kg	✱	95	63 - 124	9	30
Hexachlorobutadiene	<0.060		1.55	1.18		mg/Kg	✱	76	56 - 120	10	30
Hexachlorocyclopentadiene	<0.22		1.55	0.627	J	mg/Kg	✱	40	10 - 133	7	30
Hexachloroethane	<0.058	F1	1.55	0.995		mg/Kg	✱	64	60 - 114	9	30
Indeno[1,2,3-cd]pyrene	0.026	J	1.55	1.41		mg/Kg	✱	89	68 - 130	6	30
Isophorone	<0.043		1.55	1.38		mg/Kg	✱	89	55 - 110	12	30
2-Methylnaphthalene	<0.0070		1.55	1.27		mg/Kg	✱	82	69 - 112	10	30
2-Methylphenol	<0.061		1.55	1.41		mg/Kg	✱	91	60 - 120	12	30
3 & 4 Methylphenol	<0.064		1.55	1.30		mg/Kg	✱	84	57 - 120	9	30
Naphthalene	<0.0059		1.55	1.22		mg/Kg	✱	79	63 - 110	9	30

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191730-1

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

Lab Sample ID: 500-191730-1 MSD

Client Sample ID: 3138V-1-B01 (0-1.3)

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 575497

Prep Batch: 575359

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits		
2-Nitroaniline	<0.051		1.55	1.39		mg/Kg	☼	90	57 - 124	12	30
3-Nitroaniline	<0.12		1.55	0.960		mg/Kg	☼	62	40 - 122	14	30
4-Nitroaniline	<0.16		1.55	1.21		mg/Kg	☼	78	60 - 160	11	30
Nitrobenzene	<0.0095		1.55	1.31		mg/Kg	☼	85	60 - 116	12	30
2-Nitrophenol	<0.090		1.55	1.33		mg/Kg	☼	86	60 - 120	13	30
4-Nitrophenol	<0.36		3.10	2.94		mg/Kg	☼	95	30 - 122	13	30
N-Nitrosodi-n-propylamine	<0.047		1.55	1.44		mg/Kg	☼	93	56 - 118	10	30
N-Nitrosodiphenylamine	<0.045		1.55	1.27		mg/Kg	☼	82	65 - 112	7	30
2,2'-oxybis[1-chloropropane]	<0.044		1.55	1.45		mg/Kg	☼	94	40 - 124	11	30
Pentachlorophenol	<0.61		3.10	1.65		mg/Kg	☼	53	13 - 112	12	30
Phenanthrene	0.020	J	1.55	1.41		mg/Kg	☼	90	62 - 120	10	30
Phenol	<0.085		1.55	1.34		mg/Kg	☼	86	56 - 122	9	30
Pyrene	0.063		1.55	1.42		mg/Kg	☼	87	61 - 128	9	30
1,2,4-Trichlorobenzene	<0.041		1.55	1.22		mg/Kg	☼	79	66 - 117	11	30
2,4,5-Trichlorophenol	<0.087		1.55	1.30		mg/Kg	☼	84	50 - 120	12	30
2,4,6-Trichlorophenol	<0.13		1.55	1.13		mg/Kg	☼	73	57 - 120	11	30

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	74		43 - 145
2-Fluorophenol	78		31 - 166
Nitrobenzene-d5	75		37 - 147
Phenol-d5	81		30 - 153
Terphenyl-d14	91		42 - 157
2,4,6-Tribromophenol	70		31 - 143

Method: 6010B - SPLP Metals

Lab Sample ID: 500-191730-5 DU

Client Sample ID: 3138V-1-B03 (0-1.3)

Matrix: Solid

Prep Type: SPLP East

Analysis Batch: 575563

Prep Batch: 575242

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Lead	0.12		0.104		mg/L		11	20
Manganese	1.6		1.46		mg/L		6	20

Method: 6010B - Metals (ICP)

Lab Sample ID: LCS 500-575241/2-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 575563

Prep Batch: 575241

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
							Result
Arsenic	0.100	0.111		mg/L		111	80 - 120
Barium	0.500	0.509		mg/L		102	80 - 120
Beryllium	0.0500	0.0498		mg/L		100	80 - 120
Cadmium	0.0500	0.0575		mg/L		115	80 - 120
Chromium	0.200	0.202		mg/L		101	80 - 120
Cobalt	0.500	0.552		mg/L		110	80 - 120
Copper	0.250	0.277		mg/L		111	80 - 120

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191730-1

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

Lab Sample ID: LCS 500-575241/2-A
Matrix: Solid
Analysis Batch: 575563

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575241

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	1.00	1.23	*	mg/L		123	80 - 120
Lead	0.100	0.101		mg/L		101	80 - 120
Magnesium	10.0	9.57		mg/L		96	80 - 120
Calcium	10.0	10.5		mg/L		105	80 - 120
Manganese	0.500	0.493		mg/L		99	80 - 120
Nickel	0.500	0.547		mg/L		109	80 - 120
Selenium	0.100	0.107		mg/L		107	80 - 120
Silver	0.0500	0.0551		mg/L		110	80 - 120
Vanadium	0.500	0.513		mg/L		103	80 - 120
Zinc	0.500	0.595		mg/L		119	80 - 120
Potassium	10.0	12.3	*	mg/L		123	80 - 120

Lab Sample ID: LCS 500-575242/2-A
Matrix: Solid
Analysis Batch: 575563

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575242

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.100	0.0972		mg/L		97	80 - 120
Manganese	0.500	0.477		mg/L		95	80 - 120

Lab Sample ID: MB 500-575261/1-A
Matrix: Solid
Analysis Batch: 575564

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575261

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.39		2.0	0.39	mg/Kg		12/03/20 17:51	12/04/20 17:58	1
Arsenic	<0.34		1.0	0.34	mg/Kg		12/03/20 17:51	12/04/20 17:58	1
Barium	<0.11		1.0	0.11	mg/Kg		12/03/20 17:51	12/04/20 17:58	1
Beryllium	<0.093		0.40	0.093	mg/Kg		12/03/20 17:51	12/04/20 17:58	1
Cadmium	0.0545	J	0.20	0.036	mg/Kg		12/03/20 17:51	12/04/20 17:58	1
Chromium	<0.50		1.0	0.50	mg/Kg		12/03/20 17:51	12/04/20 17:58	1
Cobalt	<0.13		0.50	0.13	mg/Kg		12/03/20 17:51	12/04/20 17:58	1
Copper	<0.28		1.0	0.28	mg/Kg		12/03/20 17:51	12/04/20 17:58	1
Iron	<10		20	10	mg/Kg		12/03/20 17:51	12/04/20 17:58	1
Lead	<0.23		0.50	0.23	mg/Kg		12/03/20 17:51	12/04/20 17:58	1
Magnesium	6.84	J	10	5.0	mg/Kg		12/03/20 17:51	12/04/20 17:58	1
Calcium	14.2	J	20	3.4	mg/Kg		12/03/20 17:51	12/04/20 17:58	1
Manganese	<0.15		1.0	0.15	mg/Kg		12/03/20 17:51	12/04/20 17:58	1
Nickel	<0.29		1.0	0.29	mg/Kg		12/03/20 17:51	12/04/20 17:58	1
Selenium	<0.59		1.0	0.59	mg/Kg		12/03/20 17:51	12/04/20 17:58	1
Silver	<0.13		0.50	0.13	mg/Kg		12/03/20 17:51	12/04/20 17:58	1
Thallium	<0.50		1.0	0.50	mg/Kg		12/03/20 17:51	12/04/20 17:58	1
Vanadium	<0.12		0.50	0.12	mg/Kg		12/03/20 17:51	12/04/20 17:58	1
Zinc	<0.88		2.0	0.88	mg/Kg		12/03/20 17:51	12/04/20 17:58	1
Potassium	<18		50	18	mg/Kg		12/03/20 17:51	12/04/20 17:58	1
Sodium	<15		100	15	mg/Kg		12/03/20 17:51	12/04/20 17:58	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191730-1

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

Lab Sample ID: LCS 500-575261/2-A
Matrix: Solid
Analysis Batch: 575564

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575261

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	50.0	43.4		mg/Kg		87	80 - 120
Arsenic	10.0	9.13		mg/Kg		91	80 - 120
Barium	200	197		mg/Kg		99	80 - 120
Beryllium	5.00	4.64		mg/Kg		93	80 - 120
Cadmium	5.00	4.55		mg/Kg		91	80 - 120
Chromium	20.0	19.1		mg/Kg		96	80 - 120
Cobalt	50.0	47.5		mg/Kg		95	80 - 120
Copper	25.0	23.6		mg/Kg		94	80 - 120
Iron	100	99.5		mg/Kg		99	80 - 120
Lead	10.0	9.33		mg/Kg		93	80 - 120
Magnesium	1000	912		mg/Kg		91	80 - 120
Calcium	1000	933		mg/Kg		93	80 - 120
Manganese	50.0	45.4		mg/Kg		91	80 - 120
Nickel	50.0	47.1		mg/Kg		94	80 - 120
Selenium	10.0	8.37		mg/Kg		84	80 - 120
Silver	5.00	4.36		mg/Kg		87	80 - 120
Thallium	10.0	9.81		mg/Kg		98	80 - 120
Vanadium	50.0	48.1		mg/Kg		96	80 - 120
Zinc	50.0	45.8		mg/Kg		92	80 - 120
Potassium	1000	956		mg/Kg		96	80 - 120
Sodium	1000	990		mg/Kg		99	80 - 120

Lab Sample ID: LCS 500-575696/2-A
Matrix: Solid
Analysis Batch: 575870

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575696

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Potassium	10.0	11.7		mg/L		117	80 - 120

Lab Sample ID: LB 500-574996/1-B
Matrix: Solid
Analysis Batch: 575563

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 575241

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		12/03/20 16:40	12/04/20 12:47	1
Barium	<0.050		0.50	0.050	mg/L		12/03/20 16:40	12/04/20 12:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/03/20 16:40	12/04/20 12:47	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		12/03/20 16:40	12/04/20 12:47	1
Chromium	<0.010		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 12:47	1
Cobalt	<0.010		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 12:47	1
Copper	<0.010		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 12:47	1
Iron	<0.20		0.40	0.20	mg/L		12/03/20 16:40	12/04/20 12:47	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/03/20 16:40	12/04/20 12:47	1
Magnesium	<0.50		2.5	0.50	mg/L		12/03/20 16:40	12/04/20 12:47	1
Calcium	<0.50		5.0	0.50	mg/L		12/03/20 16:40	12/04/20 12:47	1
Manganese	<0.010		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 12:47	1
Nickel	<0.010		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 12:47	1
Selenium	<0.020		0.050	0.020	mg/L		12/03/20 16:40	12/04/20 12:47	1
Silver	<0.010		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 12:47	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191730-1

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

Lab Sample ID: LB 500-574996/1-B
Matrix: Solid
Analysis Batch: 575563

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 575241

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Vanadium	<0.010		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 12:47	1
Zinc	0.0301	J	0.50	0.020	mg/L		12/03/20 16:40	12/04/20 12:47	1
Potassium	0.504	J	2.5	0.50	mg/L		12/03/20 16:40	12/04/20 12:47	1

Lab Sample ID: 500-191730-5 MS
Matrix: Solid
Analysis Batch: 575563

Client Sample ID: 3138V-1-B03 (0-1.3)
Prep Type: TCLP
Prep Batch: 575241

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	Limits
				Result	Qualifier				
Arsenic	<0.010		0.100	0.114		mg/L		114	75 - 125
Barium	0.37	J	0.500	0.882		mg/L		103	75 - 125
Beryllium	<0.0040		0.0500	0.0486		mg/L		97	75 - 125
Cadmium	0.0020	J	0.0500	0.0598		mg/L		115	75 - 125
Chromium	<0.010		0.200	0.193		mg/L		97	75 - 125
Cobalt	<0.010		0.500	0.547		mg/L		109	75 - 125
Copper	<0.010		0.250	0.275		mg/L		110	75 - 125
Iron	<0.20	*	1.00	0.950		mg/L		95	75 - 125
Lead	<0.0075		0.100	0.103		mg/L		103	75 - 125
Magnesium	33		10.0	45.2		mg/L		117	75 - 125
Calcium	500		10.0	537	4	mg/L		382	75 - 125
Manganese	0.18		0.500	0.664		mg/L		97	75 - 125
Nickel	0.011	J	0.500	0.543		mg/L		106	75 - 125
Selenium	<0.020		0.100	0.106		mg/L		106	75 - 125
Silver	<0.010		0.0500	0.0570		mg/L		114	75 - 125
Vanadium	<0.010		0.500	0.498		mg/L		100	75 - 125
Zinc	<0.020		0.500	0.543		mg/L		109	75 - 125
Potassium	1.5	J F1 B *	10.0	14.2	F1	mg/L		127	75 - 125

Lab Sample ID: 500-191730-5 DU
Matrix: Solid
Analysis Batch: 575563

Client Sample ID: 3138V-1-B03 (0-1.3)
Prep Type: TCLP
Prep Batch: 575241

Analyte	Sample Result	Sample Qualifier	DU DU		Unit	D	RPD	Limit
			Result	Qualifier				
Arsenic	<0.010		<0.010		mg/L		NC	20
Barium	0.37	J	0.364	J	mg/L		0.4	20
Beryllium	<0.0040		<0.0040		mg/L		NC	20
Cadmium	0.0020	J	<0.0020		mg/L		NC	20
Chromium	<0.010		<0.010		mg/L		NC	20
Cobalt	<0.010		<0.010		mg/L		NC	20
Copper	<0.010		<0.010		mg/L		NC	20
Iron	<0.20	*	<0.20	*	mg/L		NC	20
Lead	<0.0075		<0.0075		mg/L		NC	20
Magnesium	33		32.8		mg/L		2	20
Calcium	500		484		mg/L		3	20
Manganese	0.18		0.176		mg/L		3	20
Nickel	0.011	J	0.0111	J	mg/L		5	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

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191730-1

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

Lab Sample ID: 500-191730-5 DU
Matrix: Solid
Analysis Batch: 575563

Client Sample ID: 3138V-1-B03 (0-1.3)
Prep Type: TCLP
Prep Batch: 575241

Analyte	Sample	Sample	DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Zinc	<0.020		<0.020		mg/L		NC	20
Potassium	1.5	J F1 B *	1.45	J *	mg/L		0.6	20

Lab Sample ID: LB 500-574996/2-B
Matrix: Solid
Analysis Batch: 575870

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 575696

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Potassium	<0.50		2.5	0.50	mg/L		12/07/20 17:01	12/08/20 11:36	1

Lab Sample ID: LB 500-575000/1-B
Matrix: Solid
Analysis Batch: 575563

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 575242

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	<0.0075		0.0075	0.0075	mg/L		12/03/20 16:43	12/04/20 14:09	1
Manganese	<0.010		0.025	0.010	mg/L		12/03/20 16:43	12/04/20 14:09	1

Lab Sample ID: 500-191730-5 MS
Matrix: Solid
Analysis Batch: 575563

Client Sample ID: 3138V-1-B03 (0-1.3)
Prep Type: SPLP East
Prep Batch: 575242

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
Lead	0.12		0.100	0.196		mg/L		79	75 - 125
Manganese	1.6		0.500	2.03		mg/L		96	75 - 125

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-575241/2-A
Matrix: Solid
Analysis Batch: 575593

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575241

Analyte	Spike	LCS		Unit	D	%Rec	Limits
		Added	Result				
Antimony	0.500	0.492		mg/L		98	80 - 120
Thallium	0.100	0.0932		mg/L		93	80 - 120

Lab Sample ID: LB 500-574996/1-B
Matrix: Solid
Analysis Batch: 575593

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 575241

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0060		0.0060	0.0060	mg/L		12/03/20 16:40	12/04/20 16:55	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/03/20 16:40	12/04/20 16:55	1

Lab Sample ID: 500-191730-5 MS
Matrix: Solid
Analysis Batch: 575593

Client Sample ID: 3138V-1-B03 (0-1.3)
Prep Type: TCLP
Prep Batch: 575241

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
Antimony	<0.0060		0.500	0.486		mg/L		97	75 - 125

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191730-1

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

Lab Sample ID: 500-191730-5 MS
Matrix: Solid
Analysis Batch: 575593

Client Sample ID: 3138V-1-B03 (0-1.3)
Prep Type: TCLP
Prep Batch: 575241

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	<0.0020		0.100	0.0924		mg/L		92	75 - 125

Lab Sample ID: 500-191730-5 DU
Matrix: Solid
Analysis Batch: 575593

Client Sample ID: 3138V-1-B03 (0-1.3)
Prep Type: TCLP
Prep Batch: 575241

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Antimony	<0.0060		<0.0060		mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-575354/12-A
Matrix: Solid
Analysis Batch: 575597

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575354

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/04/20 08:15	12/07/20 07:52	1

Lab Sample ID: LCS 500-575354/14-A
Matrix: Solid
Analysis Batch: 575597

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575354

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00205		mg/L		102	80 - 120

Lab Sample ID: LB 500-574996/1-C
Matrix: Solid
Analysis Batch: 575597

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 575354

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/04/20 08:15	12/07/20 07:54	1

Lab Sample ID: 500-191730-5 MS
Matrix: Solid
Analysis Batch: 575597

Client Sample ID: 3138V-1-B03 (0-1.3)
Prep Type: TCLP
Prep Batch: 575354

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	<0.00020		0.00100	0.000994		mg/L		99	75 - 125

Lab Sample ID: 500-191730-5 DU
Matrix: Solid
Analysis Batch: 575597

Client Sample ID: 3138V-1-B03 (0-1.3)
Prep Type: TCLP
Prep Batch: 575354

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

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191730-1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-574933/12-A
Matrix: Solid
Analysis Batch: 575205

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 574933

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		12/02/20 13:05	12/03/20 12:03	1

Lab Sample ID: LCS 500-574933/13-A
Matrix: Solid
Analysis Batch: 575205

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 574933

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.182		mg/Kg		109	80 - 120

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

Lab Sample ID: MB 500-575405/1-A
Matrix: Solid
Analysis Batch: 575442

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575405

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.12		0.24	0.12	mg/Kg		12/04/20 14:54	12/04/20 16:35	1

Lab Sample ID: HLCS 500-575405/2-A
Matrix: Solid
Analysis Batch: 575442

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575405

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	12.0	12.0		mg/Kg		100	90 - 110

Lab Sample ID: LCS 500-575405/3-A
Matrix: Solid
Analysis Batch: 575442

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575405

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	2.40	2.55		mg/Kg		106	85 - 115

Lab Sample ID: LLCS 500-575405/4-A
Matrix: Solid
Analysis Batch: 575442

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575405

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	1.20	1.25		mg/Kg		104	75 - 125

Method: 9045D - pH

Lab Sample ID: 500-191730-1 DU
Matrix: Solid
Analysis Batch: 575386

Client Sample ID: 3138V-1-B01 (0-1.3)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	9.0		9.1		SU		1	

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191730-1

Client Sample ID: 3138V-1-B01 (0-1.3)

Lab Sample ID: 500-191730-1

Date Collected: 11/30/20 10:45

Matrix: Solid

Date Received: 11/30/20 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			574996	12/02/20 13:45	CMS	TAL CHI
TCLP	Prep	3010A			575241	12/03/20 16:40	BDE	TAL CHI
TCLP	Analysis	6010B		1	575563	12/04/20 13:13	EEN	TAL CHI
TCLP	Leach	1311			574996	12/02/20 13:45	CMS	TAL CHI
TCLP	Prep	3010A			575241	12/03/20 16:40	BDE	TAL CHI
TCLP	Analysis	6020A		1	575593	12/04/20 17:11	FXG	TAL CHI
TCLP	Leach	1311			574996	12/02/20 13:45	CMS	TAL CHI
TCLP	Prep	7470A			575354	12/04/20 08:15	MJG	TAL CHI
TCLP	Analysis	7470A		1	575597	12/07/20 08:01	MJG	TAL CHI
Total/NA	Analysis	9045D		1	575386	12/03/20 17:42	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	574939	12/02/20 11:11	LWN	TAL CHI

Client Sample ID: 3138V-1-B01 (0-1.3)

Lab Sample ID: 500-191730-1

Date Collected: 11/30/20 10:45

Matrix: Solid

Date Received: 11/30/20 17:15

Percent Solids: 85.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			574850	12/01/20 17:52	WRE	TAL CHI
Total/NA	Analysis	8260B		1	575332	12/04/20 17:54	PMF	TAL CHI
Total/NA	Prep	3541			575359	12/04/20 08:51	BSO	TAL CHI
Total/NA	Analysis	8270D		1	575497	12/05/20 16:13	AJD	TAL CHI
Total/NA	Prep	3050B			575261	12/03/20 17:51	BDE	TAL CHI
Total/NA	Analysis	6010B		1	575564	12/04/20 19:09	EEN	TAL CHI
Total/NA	Prep	3050B			575261	12/03/20 17:51	BDE	TAL CHI
Total/NA	Analysis	6010B		10	575790	12/07/20 14:39	EEN	TAL CHI
Total/NA	Prep	7471B			574933	12/02/20 13:05	MJG	TAL CHI
Total/NA	Analysis	7471B		1	575205	12/03/20 12:52	MJG	TAL CHI
Total/NA	Prep	9010C			575405	12/04/20 14:54	PSP	TAL CHI
Total/NA	Analysis	9012B		1	575442	12/04/20 17:19	PSP	TAL CHI

Client Sample ID: 3138V-1-B02 (0-6)

Lab Sample ID: 500-191730-2

Date Collected: 11/30/20 11:15

Matrix: Solid

Date Received: 11/30/20 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			575000	12/02/20 13:45	CMS	TAL CHI
SPLP East	Prep	3010A			575242	12/03/20 16:43	BDE	TAL CHI
SPLP East	Analysis	6010B		1	575563	12/04/20 14:31	EEN	TAL CHI
TCLP	Leach	1311			574996	12/02/20 13:45	CMS	TAL CHI
TCLP	Prep	3010A			575241	12/03/20 16:40	BDE	TAL CHI
TCLP	Analysis	6010B		1	575563	12/04/20 13:16	EEN	TAL CHI
TCLP	Leach	1311			574996	12/02/20 13:45	CMS	TAL CHI
TCLP	Prep	3010A			575696	12/07/20 17:01	BDE	TAL CHI
TCLP	Analysis	6010B		1	575870	12/08/20 11:42	EEN	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191730-1

Client Sample ID: 3138V-1-B02 (0-6)

Lab Sample ID: 500-191730-2

Date Collected: 11/30/20 11:15

Matrix: Solid

Date Received: 11/30/20 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			574996	12/02/20 13:45	CMS	TAL CHI
TCLP	Prep	3010A			575241	12/03/20 16:40	BDE	TAL CHI
TCLP	Analysis	6020A		1	575593	12/04/20 17:13	FXG	TAL CHI
TCLP	Leach	1311			574996	12/02/20 13:45	CMS	TAL CHI
TCLP	Prep	7470A			575354	12/04/20 08:15	MJG	TAL CHI
TCLP	Analysis	7470A		1	575597	12/07/20 08:03	MJG	TAL CHI
Total/NA	Analysis	9045D		1	575386	12/03/20 17:47	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	574939	12/02/20 11:11	LWN	TAL CHI

Client Sample ID: 3138V-1-B02 (0-6)

Lab Sample ID: 500-191730-2

Date Collected: 11/30/20 11:15

Matrix: Solid

Date Received: 11/30/20 17:15

Percent Solids: 81.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			574850	12/01/20 17:52	WRE	TAL CHI
Total/NA	Analysis	8260B		1	575332	12/04/20 18:19	PMF	TAL CHI
Total/NA	Prep	3541			574879	12/02/20 07:48	BSO	TAL CHI
Total/NA	Analysis	8270D		1	575045	12/03/20 05:45	NRJ	TAL CHI
Total/NA	Prep	3050B			575261	12/03/20 17:51	BDE	TAL CHI
Total/NA	Analysis	6010B		1	575564	12/04/20 19:12	EEN	TAL CHI
Total/NA	Prep	3050B			575261	12/03/20 17:51	BDE	TAL CHI
Total/NA	Analysis	6010B		10	575790	12/07/20 14:42	EEN	TAL CHI
Total/NA	Prep	7471B			574933	12/02/20 13:05	MJG	TAL CHI
Total/NA	Analysis	7471B		1	575205	12/03/20 12:54	MJG	TAL CHI
Total/NA	Prep	9010C			575405	12/04/20 14:54	PSP	TAL CHI
Total/NA	Analysis	9012B		1	575442	12/04/20 17:21	PSP	TAL CHI

Client Sample ID: 3138V-1-B02 (0-6) Dup

Lab Sample ID: 500-191730-3

Date Collected: 11/30/20 11:20

Matrix: Solid

Date Received: 11/30/20 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			575000	12/02/20 13:45	CMS	TAL CHI
SPLP East	Prep	3010A			575242	12/03/20 16:43	BDE	TAL CHI
SPLP East	Analysis	6010B		1	575563	12/04/20 14:35	EEN	TAL CHI
TCLP	Leach	1311			574996	12/02/20 13:45	CMS	TAL CHI
TCLP	Prep	3010A			575241	12/03/20 16:40	BDE	TAL CHI
TCLP	Analysis	6010B		1	575563	12/04/20 13:26	EEN	TAL CHI
TCLP	Leach	1311			574996	12/02/20 13:45	CMS	TAL CHI
TCLP	Prep	3010A			575696	12/07/20 17:01	BDE	TAL CHI
TCLP	Analysis	6010B		1	575870	12/08/20 11:46	EEN	TAL CHI
TCLP	Leach	1311			574996	12/02/20 13:45	CMS	TAL CHI
TCLP	Prep	3010A			575241	12/03/20 16:40	BDE	TAL CHI
TCLP	Analysis	6020A		1	575593	12/04/20 17:15	FXG	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191730-1

Client Sample ID: 3138V-1-B02 (0-6) Dup

Lab Sample ID: 500-191730-3

Date Collected: 11/30/20 11:20

Matrix: Solid

Date Received: 11/30/20 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			574996	12/02/20 13:45	CMS	TAL CHI
TCLP	Prep	7470A			575354	12/04/20 08:15	MJG	TAL CHI
TCLP	Analysis	7470A		1	575597	12/07/20 08:05	MJG	TAL CHI
Total/NA	Analysis	9045D		1	575386	12/03/20 17:49	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	574939	12/02/20 11:11	LWN	TAL CHI

Client Sample ID: 3138V-1-B02 (0-6) Dup

Lab Sample ID: 500-191730-3

Date Collected: 11/30/20 11:20

Matrix: Solid

Date Received: 11/30/20 17:15

Percent Solids: 81.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			574850	12/01/20 17:52	WRE	TAL CHI
Total/NA	Analysis	8260B		1	575332	12/04/20 18:45	PMF	TAL CHI
Total/NA	Prep	3541			575359	12/04/20 08:51	BSO	TAL CHI
Total/NA	Analysis	8270D		1	575497	12/05/20 18:28	AJD	TAL CHI
Total/NA	Prep	3050B			575261	12/03/20 17:51	BDE	TAL CHI
Total/NA	Analysis	6010B		1	575564	12/04/20 19:16	EEN	TAL CHI
Total/NA	Prep	3050B			575261	12/03/20 17:51	BDE	TAL CHI
Total/NA	Analysis	6010B		10	575790	12/07/20 14:45	EEN	TAL CHI
Total/NA	Prep	7471B			574933	12/02/20 13:05	MJG	TAL CHI
Total/NA	Analysis	7471B		1	575205	12/03/20 12:56	MJG	TAL CHI
Total/NA	Prep	9010C			575405	12/04/20 14:54	PSP	TAL CHI
Total/NA	Analysis	9012B		1	575442	12/04/20 17:22	PSP	TAL CHI

Client Sample ID: 3138V-1-B02 (6-12.5)

Lab Sample ID: 500-191730-4

Date Collected: 11/30/20 11:30

Matrix: Solid

Date Received: 11/30/20 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			575000	12/02/20 13:45	CMS	TAL CHI
SPLP East	Prep	3010A			575242	12/03/20 16:43	BDE	TAL CHI
SPLP East	Analysis	6010B		1	575563	12/04/20 14:48	EEN	TAL CHI
TCLP	Leach	1311			574996	12/02/20 13:45	CMS	TAL CHI
TCLP	Prep	3010A			575241	12/03/20 16:40	BDE	TAL CHI
TCLP	Analysis	6010B		1	575563	12/04/20 13:30	EEN	TAL CHI
TCLP	Leach	1311			574996	12/02/20 13:45	CMS	TAL CHI
TCLP	Prep	3010A			575241	12/03/20 16:40	BDE	TAL CHI
TCLP	Analysis	6020A		1	575593	12/04/20 17:17	FXG	TAL CHI
TCLP	Leach	1311			574996	12/02/20 13:45	CMS	TAL CHI
TCLP	Prep	7470A			575354	12/04/20 08:15	MJG	TAL CHI
TCLP	Analysis	7470A		1	575597	12/07/20 08:07	MJG	TAL CHI
Total/NA	Analysis	9045D		1	575386	12/03/20 17:52	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	574939	12/02/20 11:11	LWN	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191730-1

Client Sample ID: 3138V-1-B02 (6-12.5)

Lab Sample ID: 500-191730-4

Date Collected: 11/30/20 11:30

Matrix: Solid

Date Received: 11/30/20 17:15

Percent Solids: 80.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			574850	12/01/20 17:52	WRE	TAL CHI
Total/NA	Analysis	8260B		1	575332	12/04/20 19:10	PMF	TAL CHI
Total/NA	Prep	3541			574879	12/02/20 07:50	BSO	TAL CHI
Total/NA	Analysis	8270D		1	575045	12/03/20 06:47	NRJ	TAL CHI
Total/NA	Prep	3050B			575261	12/03/20 17:51	BDE	TAL CHI
Total/NA	Analysis	6010B		1	575564	12/04/20 19:19	EEN	TAL CHI
Total/NA	Prep	7471B			574933	12/02/20 13:05	MJG	TAL CHI
Total/NA	Analysis	7471B		1	575205	12/03/20 12:59	MJG	TAL CHI
Total/NA	Prep	9010C			575405	12/04/20 14:54	PSP	TAL CHI
Total/NA	Analysis	9012B		1	575442	12/04/20 17:24	PSP	TAL CHI

Client Sample ID: 3138V-1-B03 (0-1.3)

Lab Sample ID: 500-191730-5

Date Collected: 11/30/20 11:55

Matrix: Solid

Date Received: 11/30/20 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			575000	12/02/20 13:45	CMS	TAL CHI
SPLP East	Prep	3010A			575242	12/03/20 16:43	BDE	TAL CHI
SPLP East	Analysis	6010B		1	575563	12/04/20 14:51	EEN	TAL CHI
TCLP	Leach	1311			574996	12/02/20 13:45	CMS	TAL CHI
TCLP	Prep	3010A			575241	12/03/20 16:40	BDE	TAL CHI
TCLP	Analysis	6010B		1	575563	12/04/20 13:33	EEN	TAL CHI
TCLP	Leach	1311			574996	12/02/20 13:45	CMS	TAL CHI
TCLP	Prep	3010A			575241	12/03/20 16:40	BDE	TAL CHI
TCLP	Analysis	6020A		1	575593	12/04/20 17:19	FXG	TAL CHI
TCLP	Leach	1311			574996	12/02/20 13:45	CMS	TAL CHI
TCLP	Prep	7470A			575354	12/04/20 08:15	MJG	TAL CHI
TCLP	Analysis	7470A		1	575597	12/07/20 08:09	MJG	TAL CHI
Total/NA	Analysis	9045D		1	575386	12/03/20 17:54	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	574939	12/02/20 11:11	LWN	TAL CHI

Client Sample ID: 3138V-1-B03 (0-1.3)

Lab Sample ID: 500-191730-5

Date Collected: 11/30/20 11:55

Matrix: Solid

Date Received: 11/30/20 17:15

Percent Solids: 84.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			574850	12/01/20 17:52	WRE	TAL CHI
Total/NA	Analysis	8260B		1	575332	12/04/20 19:36	PMF	TAL CHI
Total/NA	Prep	3541			574879	12/02/20 07:50	BSO	TAL CHI
Total/NA	Analysis	8270D		1	575045	12/03/20 07:20	NRJ	TAL CHI
Total/NA	Prep	3050B			575261	12/03/20 17:51	BDE	TAL CHI
Total/NA	Analysis	6010B		1	575564	12/04/20 19:22	EEN	TAL CHI
Total/NA	Prep	7471B			574933	12/02/20 13:05	MJG	TAL CHI
Total/NA	Analysis	7471B		1	575205	12/03/20 13:01	MJG	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191730-1

Client Sample ID: 3138V-1-B03 (0-1.3)

Lab Sample ID: 500-191730-5

Date Collected: 11/30/20 11:55

Matrix: Solid

Date Received: 11/30/20 17:15

Percent Solids: 84.1

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Prepared or Analyzed</u>	<u>Analyst</u>	<u>Lab</u>
Total/NA	Prep	9010C			575405	12/04/20 14:54	PSP	TAL CHI
Total/NA	Analysis	9012B		1	575442	12/04/20 17:26	PSP	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 - Lake County - WO 073

Job ID: 500-191730-1

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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Address: _____

Regulatory Program: DW NPDES RCRA Other:

TAL-9210

Client Contact Company Name: <u>TERRACON</u> Address: <u>192 Exchange Blvd</u> City/State/Zip: <u>Glendale Heights, IL</u> Phone: <u>630-445-0160</u> Fax: _____ Project Name: <u>11207011N</u> Site: <u>11207011N</u> PO # _____		Project Manager: <u>Rick O'Brien @ Terracon</u> Tel/Email: <u>rick.o'brien@terracon.com</u>		Site Contact: _____ Lab Contact: _____		Date: <u>11/30/2020</u> Carrier: _____		COC No: _____ of _____ COCs Sampler: <u>D.C. Pitt</u> For Lab Use Only: Walk-in Client: _____ Lab Sampling: _____ Job / SDG No.: <u>500-191730</u>	
Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input checked="" type="checkbox"/> WORKING DAYS TAT if different from Below _____ <input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Filtered Sample (Y/N) _____ Perform MS / MSD (Y/N) _____ <u>VOC'S</u> <u>SUCC'S</u> <u>Total 23 Inorganics / pH</u> <u>TCLP 23 Inorganics</u> <u>SPLP 23 Inorganics</u>		500-191730 COC		Sample Identificati...		Sample Specific Notes:	
Sample Date		Sample Time		Sample Type (C=Comp, G=Grab)		Matrix		# of Cont.	
1 3/38 V-1-B01 (0-1.3)		11/30/20 1045		G S0.1 G		NMXX		XXXX	
2 3/38 V-1-B02 (0-6)		11/30/20 1115		G S0.1 G		NMXX		XXXX	
3 3/38 V-1-B02 Dup (0-6)		11/30/20 1120		G S0.1 G		NMXX		XXXX	
4 3/38 V-1-B02 (6-12.5)		11/30/20 1130		G S0.1 G		NMXX		XXXX	
5 3/38 V-1-B03 (0-1.3)		11/30/20 1155		G S0.1 G		NMXX		XXXX	
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other									
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample. <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months				
Special Instructions/QC Requirements & Comments: <u>* NO Aluminum</u> <u>* HOLD SPLP 23 Inorganics per terracon instruction</u>									
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.: _____		Cooler Temp. (°C): Obs'd: <u>2.22</u> Corr'd: <u>0.17</u>		Therm ID No.: _____		Relinquished by: <u>[Signature]</u>	
Relinquished by: <u>[Signature]</u>		Company: <u>TERRACON</u>		Date/Time: <u>11/30/2020 1620</u>		Received by: <u>[Signature]</u>		Company: <u>EPA</u>	
Relinquished by: <u>[Signature]</u>		Company: <u>EPA</u>		Date/Time: <u>11/30/2020 1715</u>		Received by: _____		Company: _____	
Relinquished by: _____		Company: _____		Date/Time: _____		Received in Laboratory by: <u>[Signature]</u>		Company: <u>EPA</u>	
Relinquished by: _____		Company: _____		Date/Time: _____		Received in Laboratory by: _____		Company: _____	

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-191730-1

Login Number: 191730

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: James, Jeff A

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	0.0,1.7
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 346-US Rte 41, N/o Rt 173 to S/o Rockland Rd Office Phone Number, if available: _____

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

US Rte 41 (Southbound) IDOT STA 51+00 to 55+40 (ISGS Site 3138V-2)

City: Wadsworth State: IL Zip Code: 60083

County: Lake Township: Newport

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

Latitude: 42.47314 Longitude: -87.94689
(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.): 112

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 B02 and B03 were sampled adjacent to ISGS Site No 3138V-2.
See Exhibit 2 and Table 3 of the Preliminary Site Investigation Report prepared by Terracon.

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

Eurofins TestAmerica, Chicago - Lab Report No J191731-1.
Also see Preliminary Site Investigation Report prepared by Terracon. CCDD/USFO facility in MSA County

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

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

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

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

Matt Weiss
Printed Name:

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

2/26/21
Date:



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

Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3138V-2-B01 (0-5)	3138V-2-B03 (0-1.9)
		Chicago	MSAs		Sample Depth (feet)	(0-5)	(0-1.9)
					Date Collected	11/30/2020	11/30/2020
Semivolatile Organic Analytical Parameters							
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		<0.0054	0.018
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		<0.0078	0.026
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.011	0.035
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		<0.013	0.019
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		<0.012	0.012
Chrysene	mg/kg	1.2	2.7	88		<0.011	0.027
Fluoranthene	mg/kg	2.7	4.1	3100		0.0094	0.031
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		<0.010	0.017
Phenanthrene	mg/kg	1.3	2.5	210		<0.0056	0.011
Pyrene	mg/kg	1.9	3.0	2300		0.0095	0.032
Inorganic Analytical Parameters							
Arsenic	mg/kg	---	13	11.3		9.8	6.2
Barium	mg/kg	---	110	1500		51	47
Cadmium	mg/kg	---	0.6	5.2		0.41	0.37
Chromium, total	mg/kg	---	16.2	21		18	16
Lead	mg/kg	---	36	107		28	30
Mercury	mg/kg	---	0.06	0.89		0.033	0.022
Selenium	mg/kg	---	0.48	1.3		<0.35	<0.33
Silver	mg/kg	---	0.55	4.4		<0.076	<0.072
Antimony	mg/kg	---	4.0	5		0.83	0.8
Beryllium	mg/kg	---	0.59	22		0.84	0.71
Calcium	mg/kg	---	9,300	---		29000	75000
Cobalt	mg/kg	---	8.9	20		14	10
Copper	mg/kg	---	19.6	2900		29	23
Cyanide	mg/kg	---	0.51	---		0.34	<0.14
Iron	mg/kg	---	15,900	15000		27000	18000
Magnesium	mg/kg	---	4,820	325000		21000	30000
Manganese	mg/kg	---	636	630		620	450
Nickel	mg/kg	---	18	100		39	28
Potassium	mg/kg	---	1,268	---		2200	2200
Sodium	mg/kg	---	130	---		1400	1500
Thallium	mg/kg	---	0.32	2.6		<0.29	<0.28
Vanadium	mg/kg	---	25.2	550		27	23
Zinc	mg/kg	---	95	5100		75	68
pH			6.25	9		8.7	8.5

Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3138V-2-B01 (0-5)	3138V-2-B03 (0-1.9)
		Chicago	MSAs		Sample Depth (feet)	(0-5)	(0-1.9)
					Date Collected	11/30/2020	11/30/2020
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	---	---	---		1.3	1.9
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	---	---	---		0.34	0.49
Cadmium,TCLP	mg/L	---	---	---		0.0032	0.003
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	---	---	---		360	560
Cobalt,TCLP	mg/L	---	---	---		0.014	<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	38
Manganese,TCLP	mg/L	---	---	---		4.6	3.1
Nickel,TCLP	mg/L	---	---	---		0.034	0.025
Potassium,TCLP	mg/L	---	---	---		2.2	1.8
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: 500-191731-1
Client Project/Site: IDOT - Lake County - WO 073

For:

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

Attn: Mr. Matthew Weiss



Authorized for release by:
12/9/2020 2:44:40 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 - Lake County - WO 073

Job ID: 500-191731-1

Job ID: 500-191731-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-191731-1

Receipt

The samples were received on 11/30/2020 5:15 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.0° C and 1.7° C.

GC/MS VOA

Method 8260B: The laboratory control sample (LCS) for 575078 recovered outside control limits for Carbon tetrachloride. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported. 3138V-2-B01 (0-5) (500-191731-1), 3138V-2-B01 (5-10.5) (500-191731-2), 3138V-2-B02 (0-1.9) (500-191731-3) and 3138V-2-B03 (0-1.9) (500-191731-4)

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 500-574996 and 500-575241 and analytical batch 500-575563 recovered outside control limits for the following analytes: Iron and Potassium. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 6010B: The following sample was diluted due to the abundance of non-target analytes: 3138V-2-B01 (5-10.5) (500-191731-2). Elevated reporting limits (RLs) are provided for silver.

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 - Lake County - WO 073

Job ID: 500-191731-1

Client Sample ID: 3138V-2-B01 (0-5)

Lab Sample ID: 500-191731-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	0.011	J	0.040	0.0087	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.0094	J	0.040	0.0074	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.0095	J	0.040	0.0080	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.83	J F1	1.2	0.23	mg/Kg	1	✳	6010B	Total/NA
Arsenic	9.8		0.59	0.20	mg/Kg	1	✳	6010B	Total/NA
Barium	51	V	0.59	0.067	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.84		0.24	0.055	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.41	B	0.12	0.021	mg/Kg	1	✳	6010B	Total/NA
Chromium	18	V	0.59	0.29	mg/Kg	1	✳	6010B	Total/NA
Cobalt	14		0.29	0.077	mg/Kg	1	✳	6010B	Total/NA
Copper	29	F1 V	0.59	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	27000	V	12	6.1	mg/Kg	1	✳	6010B	Total/NA
Lead	28	V	0.29	0.14	mg/Kg	1	✳	6010B	Total/NA
Magnesium	21000	V	5.9	2.9	mg/Kg	1	✳	6010B	Total/NA
Calcium	29000	V	12	2.0	mg/Kg	1	✳	6010B	Total/NA
Manganese	620	V	0.59	0.085	mg/Kg	1	✳	6010B	Total/NA
Nickel	39		0.59	0.17	mg/Kg	1	✳	6010B	Total/NA
Vanadium	27	V	0.29	0.069	mg/Kg	1	✳	6010B	Total/NA
Zinc	75		1.2	0.52	mg/Kg	1	✳	6010B	Total/NA
Potassium	2200	F1 V	29	10	mg/Kg	1	✳	6010B	Total/NA
Sodium	1400	F1 V	59	8.7	mg/Kg	1	✳	6010B	Total/NA
Barium	0.34	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0032	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	360		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	110		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	4.6		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.034		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.2	J B *	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.3		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.033		0.020	0.0065	mg/Kg	1	✳	7471B	Total/NA
Cyanide, Total	0.34		0.31	0.16	mg/Kg	1	✳	9012B	Total/NA
pH	8.7		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3138V-2-B01 (5-10.5)

Lab Sample ID: 500-191731-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.023		0.018	0.0079	mg/Kg	1	✳	8260B	Total/NA
2-Butanone (MEK)	0.0032	J	0.0045	0.0020	mg/Kg	1	✳	8260B	Total/NA
Antimony	0.72	J	1.2	0.24	mg/Kg	1	✳	6010B	Total/NA
Arsenic	9.1		0.61	0.21	mg/Kg	1	✳	6010B	Total/NA
Barium	130		0.61	0.070	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.87		0.24	0.057	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.62	B	0.12	0.022	mg/Kg	1	✳	6010B	Total/NA
Chromium	19		0.61	0.30	mg/Kg	1	✳	6010B	Total/NA
Cobalt	15		0.31	0.080	mg/Kg	1	✳	6010B	Total/NA
Copper	19		0.61	0.17	mg/Kg	1	✳	6010B	Total/NA
Iron	25000		12	6.3	mg/Kg	1	✳	6010B	Total/NA
Lead	17		0.31	0.14	mg/Kg	1	✳	6010B	Total/NA
Magnesium	5500		6.1	3.0	mg/Kg	1	✳	6010B	Total/NA
Calcium	21000		12	2.1	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 - Lake County - WO 073

Job ID: 500-191731-1

Client Sample ID: 3138V-2-B01 (5-10.5) (Continued)

Lab Sample ID: 500-191731-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	1800		3.1	0.44	mg/Kg	5	✳	6010B	Total/NA
Nickel	32		0.61	0.18	mg/Kg	1	✳	6010B	Total/NA
Selenium	0.49	J	0.61	0.36	mg/Kg	1	✳	6010B	Total/NA
Vanadium	31		0.31	0.072	mg/Kg	1	✳	6010B	Total/NA
Zinc	87		1.2	0.54	mg/Kg	1	✳	6010B	Total/NA
Potassium	2000		31	11	mg/Kg	1	✳	6010B	Total/NA
Sodium	1600		61	9.0	mg/Kg	1	✳	6010B	Total/NA
Barium	0.85		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0025	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	270		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.058		0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.65		0.40	0.20	mg/L	1		6010B	TCLP
Magnesium	68		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	34		0.13	0.050	mg/L	5		6010B	TCLP
Nickel	0.046		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.5		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.038	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	2.3		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.045		0.021	0.0068	mg/Kg	1	✳	7471B	Total/NA
Cyanide, Total	0.32		0.29	0.15	mg/Kg	1	✳	9012B	Total/NA
pH	8.2		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3138V-2-B02 (0-1.9)

Lab Sample ID: 500-191731-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.014	J	0.038	0.0052	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.020	J	0.038	0.0075	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.029	J	0.038	0.0083	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.016	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	0.011	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.026	J	0.038	0.0072	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.012	J	0.038	0.010	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.0093	J	0.038	0.0054	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.036	J	0.038	0.0077	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.43	J	1.1	0.22	mg/Kg	1	✳	6010B	Total/NA
Arsenic	5.2		0.57	0.20	mg/Kg	1	✳	6010B	Total/NA
Barium	31		0.57	0.066	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.57		0.23	0.054	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.29	B	0.11	0.021	mg/Kg	1	✳	6010B	Total/NA
Chromium	13		0.57	0.28	mg/Kg	1	✳	6010B	Total/NA
Cobalt	7.5		0.29	0.075	mg/Kg	1	✳	6010B	Total/NA
Copper	16		0.57	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	15000		11	6.0	mg/Kg	1	✳	6010B	Total/NA
Lead	21		0.29	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	21000		5.7	2.9	mg/Kg	1	✳	6010B	Total/NA
Calcium	49000		57	9.7	mg/Kg	5	✳	6010B	Total/NA
Manganese	300		0.57	0.083	mg/Kg	1	✳	6010B	Total/NA
Nickel	20		0.57	0.17	mg/Kg	1	✳	6010B	Total/NA
Vanadium	19		0.29	0.068	mg/Kg	1	✳	6010B	Total/NA
Zinc	49		1.1	0.50	mg/Kg	1	✳	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191731-1

Client Sample ID: 3138V-2-B02 (0-1.9) (Continued)

Lab Sample ID: 500-191731-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	1800		29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	1100		57	8.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.44	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0028	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	550		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	33		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	2.3		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.2	J B *	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.7		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.021		0.018	0.0061	mg/Kg	1	☼	7471B	Total/NA
pH	8.7		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3138V-2-B03 (0-1.9)

Lab Sample ID: 500-191731-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.018	J	0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.026	J	0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.035	J	0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.019	J	0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.012	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.027	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.031	J	0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.017	J	0.038	0.0099	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.011	J	0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.032	J	0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.80	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.2		0.56	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	47		0.56	0.064	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.71		0.22	0.052	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.37	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	10		0.28	0.073	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	18000		11	5.8	mg/Kg	1	☼	6010B	Total/NA
Lead	30		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	30000		5.6	2.8	mg/Kg	1	☼	6010B	Total/NA
Calcium	75000		56	9.5	mg/Kg	5	☼	6010B	Total/NA
Manganese	450		0.56	0.081	mg/Kg	1	☼	6010B	Total/NA
Nickel	28		0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Vanadium	23		0.28	0.066	mg/Kg	1	☼	6010B	Total/NA
Zinc	68		1.1	0.49	mg/Kg	1	☼	6010B	Total/NA
Potassium	2200		28	9.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	1500		56	8.3	mg/Kg	1	☼	6010B	Total/NA
Barium	0.49	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0030	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	560		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	38		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	3.1		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.025		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.8	J B *	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 - Lake County - WO 073

Job ID: 500-191731-1

Client Sample ID: 3138V-2-B03 (0-1.9) (Continued)

Lab Sample ID: 500-191731-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	1.9		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.022		0.018	0.0060	mg/Kg	1	☼	7471B	Total/NA
pH	8.5		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

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Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191731-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9012B	Cyanide, Total and/or Amenable	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
1311	TCLP Extraction	SW846	TAL CHI
1312	SPLP Extraction	SW846	TAL CHI
3010A	Preparation, Total Metals	SW846	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL CHI
7471B	Preparation, Mercury	SW846	TAL CHI
9010C	Cyanide, Distillation	SW846	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191731-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-191731-1	3138V-2-B01 (0-5)	Solid	11/30/20 10:00	11/30/20 17:15	
500-191731-2	3138V-2-B01 (5-10.5)	Solid	11/30/20 10:05	11/30/20 17:15	
500-191731-3	3138V-2-B02 (0-1.9)	Solid	11/30/20 09:10	11/30/20 17:15	
500-191731-4	3138V-2-B03 (0-1.9)	Solid	11/30/20 08:45	11/30/20 17:15	

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191731-1

Client Sample ID: 3138V-2-B01 (0-5)

Lab Sample ID: 500-191731-1

Date Collected: 11/30/20 10:00

Matrix: Solid

Date Received: 11/30/20 17:15

Percent Solids: 82.4

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	☼	12/01/20 17:52	12/03/20 13:46	1
Benzene	<0.00041		0.0016	0.00041	mg/Kg	☼	12/01/20 17:52	12/03/20 13:46	1
Bromodichloromethane	<0.00032		0.0016	0.00032	mg/Kg	☼	12/01/20 17:52	12/03/20 13:46	1
Bromoform	<0.00046		0.0016	0.00046	mg/Kg	☼	12/01/20 17:52	12/03/20 13:46	1
Bromomethane	<0.0015		0.0040	0.0015	mg/Kg	☼	12/01/20 17:52	12/03/20 13:46	1
2-Butanone (MEK)	<0.0018		0.0040	0.0018	mg/Kg	☼	12/01/20 17:52	12/03/20 13:46	1
Carbon disulfide	<0.00083		0.0040	0.00083	mg/Kg	☼	12/01/20 17:52	12/03/20 13:46	1
Carbon tetrachloride	<0.00046 *		0.0016	0.00046	mg/Kg	☼	12/01/20 17:52	12/03/20 13:46	1
Chlorobenzene	<0.00059		0.0016	0.00059	mg/Kg	☼	12/01/20 17:52	12/03/20 13:46	1
Chloroethane	<0.0012		0.0040	0.0012	mg/Kg	☼	12/01/20 17:52	12/03/20 13:46	1
Chloroform	<0.00055		0.0016	0.00055	mg/Kg	☼	12/01/20 17:52	12/03/20 13:46	1
Chloromethane	<0.0016		0.0040	0.0016	mg/Kg	☼	12/01/20 17:52	12/03/20 13:46	1
cis-1,2-Dichloroethene	<0.00044		0.0016	0.00044	mg/Kg	☼	12/01/20 17:52	12/03/20 13:46	1
cis-1,3-Dichloropropene	<0.00048		0.0016	0.00048	mg/Kg	☼	12/01/20 17:52	12/03/20 13:46	1
Dibromochloromethane	<0.00052		0.0016	0.00052	mg/Kg	☼	12/01/20 17:52	12/03/20 13:46	1
1,1-Dichloroethane	<0.00054		0.0016	0.00054	mg/Kg	☼	12/01/20 17:52	12/03/20 13:46	1
1,2-Dichloroethane	<0.0012		0.0040	0.0012	mg/Kg	☼	12/01/20 17:52	12/03/20 13:46	1
1,1-Dichloroethene	<0.00055		0.0016	0.00055	mg/Kg	☼	12/01/20 17:52	12/03/20 13:46	1
1,2-Dichloropropene	<0.00041		0.0016	0.00041	mg/Kg	☼	12/01/20 17:52	12/03/20 13:46	1
1,3-Dichloropropene, Total	<0.00056		0.0016	0.00056	mg/Kg	☼	12/01/20 17:52	12/03/20 13:46	1
Ethylbenzene	<0.00076		0.0016	0.00076	mg/Kg	☼	12/01/20 17:52	12/03/20 13:46	1
2-Hexanone	<0.0012		0.0040	0.0012	mg/Kg	☼	12/01/20 17:52	12/03/20 13:46	1
Methylene Chloride	<0.0016		0.0040	0.0016	mg/Kg	☼	12/01/20 17:52	12/03/20 13:46	1
4-Methyl-2-pentanone (MIBK)	<0.0012		0.0040	0.0012	mg/Kg	☼	12/01/20 17:52	12/03/20 13:46	1
Methyl tert-butyl ether	<0.00047		0.0016	0.00047	mg/Kg	☼	12/01/20 17:52	12/03/20 13:46	1
Styrene	<0.00048		0.0016	0.00048	mg/Kg	☼	12/01/20 17:52	12/03/20 13:46	1
1,1,2,2-Tetrachloroethane	<0.00051		0.0016	0.00051	mg/Kg	☼	12/01/20 17:52	12/03/20 13:46	1
Tetrachloroethene	<0.00054		0.0016	0.00054	mg/Kg	☼	12/01/20 17:52	12/03/20 13:46	1
Toluene	<0.00040		0.0016	0.00040	mg/Kg	☼	12/01/20 17:52	12/03/20 13:46	1
trans-1,2-Dichloroethene	<0.00070		0.0016	0.00070	mg/Kg	☼	12/01/20 17:52	12/03/20 13:46	1
trans-1,3-Dichloropropene	<0.00056		0.0016	0.00056	mg/Kg	☼	12/01/20 17:52	12/03/20 13:46	1
1,1,1-Trichloroethane	<0.00053		0.0016	0.00053	mg/Kg	☼	12/01/20 17:52	12/03/20 13:46	1
1,1,2-Trichloroethane	<0.00068		0.0016	0.00068	mg/Kg	☼	12/01/20 17:52	12/03/20 13:46	1
Trichloroethene	<0.00054		0.0016	0.00054	mg/Kg	☼	12/01/20 17:52	12/03/20 13:46	1
Vinyl acetate	<0.0014		0.0040	0.0014	mg/Kg	☼	12/01/20 17:52	12/03/20 13:46	1
Vinyl chloride	<0.00070		0.0016	0.00070	mg/Kg	☼	12/01/20 17:52	12/03/20 13:46	1
Xylenes, Total	<0.00051		0.0032	0.00051	mg/Kg	☼	12/01/20 17:52	12/03/20 13:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		75 - 131	12/01/20 17:52	12/03/20 13:46	1
Dibromofluoromethane	99		75 - 126	12/01/20 17:52	12/03/20 13:46	1
1,2-Dichloroethane-d4 (Surr)	86		70 - 134	12/01/20 17:52	12/03/20 13:46	1
Toluene-d8 (Surr)	88		75 - 124	12/01/20 17:52	12/03/20 13:46	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	☼	12/02/20 17:54	12/03/20 12:46	1
Acenaphthylene	<0.0053		0.040	0.0053	mg/Kg	☼	12/02/20 17:54	12/03/20 12:46	1
Anthracene	<0.0067		0.040	0.0067	mg/Kg	☼	12/02/20 17:54	12/03/20 12:46	1
Benzo[a]anthracene	<0.0054		0.040	0.0054	mg/Kg	☼	12/02/20 17:54	12/03/20 12:46	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191731-1

Client Sample ID: 3138V-2-B01 (0-5)

Lab Sample ID: 500-191731-1

Date Collected: 11/30/20 10:00

Matrix: Solid

Date Received: 11/30/20 17:15

Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.0078		0.040	0.0078	mg/Kg	☼	12/02/20 17:54	12/03/20 12:46	1
Benzo[b]fluoranthene	0.011	J	0.040	0.0087	mg/Kg	☼	12/02/20 17:54	12/03/20 12:46	1
Benzo[g,h,i]perylene	<0.013		0.040	0.013	mg/Kg	☼	12/02/20 17:54	12/03/20 12:46	1
Benzo[k]fluoranthene	<0.012		0.040	0.012	mg/Kg	☼	12/02/20 17:54	12/03/20 12:46	1
Bis(2-chloroethoxy)methane	<0.041		0.20	0.041	mg/Kg	☼	12/02/20 17:54	12/03/20 12:46	1
Bis(2-chloroethyl)ether	<0.060		0.20	0.060	mg/Kg	☼	12/02/20 17:54	12/03/20 12:46	1
Bis(2-ethylhexyl) phthalate	<0.073		0.20	0.073	mg/Kg	☼	12/02/20 17:54	12/03/20 12:46	1
4-Bromophenyl phenyl ether	<0.053		0.20	0.053	mg/Kg	☼	12/02/20 17:54	12/03/20 12:46	1
Butyl benzyl phthalate	<0.076		0.20	0.076	mg/Kg	☼	12/02/20 17:54	12/03/20 12:46	1
Carbazole	<0.10		0.20	0.10	mg/Kg	☼	12/02/20 17:54	12/03/20 12:46	1
4-Chloroaniline	<0.19		0.81	0.19	mg/Kg	☼	12/02/20 17:54	12/03/20 12:46	1
4-Chloro-3-methylphenol	<0.14		0.40	0.14	mg/Kg	☼	12/02/20 17:54	12/03/20 12:46	1
2-Chloronaphthalene	<0.044		0.20	0.044	mg/Kg	☼	12/02/20 17:54	12/03/20 12:46	1
2-Chlorophenol	<0.068		0.20	0.068	mg/Kg	☼	12/02/20 17:54	12/03/20 12:46	1
4-Chlorophenyl phenyl ether	<0.047		0.20	0.047	mg/Kg	☼	12/02/20 17:54	12/03/20 12:46	1
Chrysene	<0.011		0.040	0.011	mg/Kg	☼	12/02/20 17:54	12/03/20 12:46	1
Dibenz(a,h)anthracene	<0.0077		0.040	0.0077	mg/Kg	☼	12/02/20 17:54	12/03/20 12:46	1
Dibenzofuran	<0.047		0.20	0.047	mg/Kg	☼	12/02/20 17:54	12/03/20 12:46	1
1,2-Dichlorobenzene	<0.048		0.20	0.048	mg/Kg	☼	12/02/20 17:54	12/03/20 12:46	1
1,3-Dichlorobenzene	<0.045		0.20	0.045	mg/Kg	☼	12/02/20 17:54	12/03/20 12:46	1
1,4-Dichlorobenzene	<0.051		0.20	0.051	mg/Kg	☼	12/02/20 17:54	12/03/20 12:46	1
3,3'-Dichlorobenzidine	<0.056		0.20	0.056	mg/Kg	☼	12/02/20 17:54	12/03/20 12:46	1
2,4-Dichlorophenol	<0.095		0.40	0.095	mg/Kg	☼	12/02/20 17:54	12/03/20 12:46	1
Diethyl phthalate	<0.068		0.20	0.068	mg/Kg	☼	12/02/20 17:54	12/03/20 12:46	1
2,4-Dimethylphenol	<0.15		0.40	0.15	mg/Kg	☼	12/02/20 17:54	12/03/20 12:46	1
Dimethyl phthalate	<0.052		0.20	0.052	mg/Kg	☼	12/02/20 17:54	12/03/20 12:46	1
Di-n-butyl phthalate	<0.061		0.20	0.061	mg/Kg	☼	12/02/20 17:54	12/03/20 12:46	1
4,6-Dinitro-2-methylphenol	<0.32		0.81	0.32	mg/Kg	☼	12/02/20 17:54	12/03/20 12:46	1
2,4-Dinitrophenol	<0.71		0.81	0.71	mg/Kg	☼	12/02/20 17:54	12/03/20 12:46	1
2,4-Dinitrotoluene	<0.064		0.20	0.064	mg/Kg	☼	12/02/20 17:54	12/03/20 12:46	1
2,6-Dinitrotoluene	<0.079		0.20	0.079	mg/Kg	☼	12/02/20 17:54	12/03/20 12:46	1
Di-n-octyl phthalate	<0.065		0.20	0.065	mg/Kg	☼	12/02/20 17:54	12/03/20 12:46	1
Fluoranthene	0.0094	J	0.040	0.0074	mg/Kg	☼	12/02/20 17:54	12/03/20 12:46	1
Fluorene	<0.0056		0.040	0.0056	mg/Kg	☼	12/02/20 17:54	12/03/20 12:46	1
Hexachlorobenzene	<0.0093		0.081	0.0093	mg/Kg	☼	12/02/20 17:54	12/03/20 12:46	1
Hexachlorobutadiene	<0.063		0.20	0.063	mg/Kg	☼	12/02/20 17:54	12/03/20 12:46	1
Hexachlorocyclopentadiene	<0.23		0.81	0.23	mg/Kg	☼	12/02/20 17:54	12/03/20 12:46	1
Hexachloroethane	<0.061		0.20	0.061	mg/Kg	☼	12/02/20 17:54	12/03/20 12:46	1
Indeno[1,2,3-cd]pyrene	<0.010		0.040	0.010	mg/Kg	☼	12/02/20 17:54	12/03/20 12:46	1
Isophorone	<0.045		0.20	0.045	mg/Kg	☼	12/02/20 17:54	12/03/20 12:46	1
2-Methylnaphthalene	<0.0074		0.081	0.0074	mg/Kg	☼	12/02/20 17:54	12/03/20 12:46	1
2-Methylphenol	<0.064		0.20	0.064	mg/Kg	☼	12/02/20 17:54	12/03/20 12:46	1
3 & 4 Methylphenol	<0.067		0.20	0.067	mg/Kg	☼	12/02/20 17:54	12/03/20 12:46	1
Naphthalene	<0.0062		0.040	0.0062	mg/Kg	☼	12/02/20 17:54	12/03/20 12:46	1
2-Nitroaniline	<0.054		0.20	0.054	mg/Kg	☼	12/02/20 17:54	12/03/20 12:46	1
3-Nitroaniline	<0.12		0.40	0.12	mg/Kg	☼	12/02/20 17:54	12/03/20 12:46	1
4-Nitroaniline	<0.17		0.40	0.17	mg/Kg	☼	12/02/20 17:54	12/03/20 12:46	1
Nitrobenzene	<0.010		0.040	0.010	mg/Kg	☼	12/02/20 17:54	12/03/20 12:46	1
2-Nitrophenol	<0.095		0.40	0.095	mg/Kg	☼	12/02/20 17:54	12/03/20 12:46	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191731-1

Client Sample ID: 3138V-2-B01 (0-5)

Lab Sample ID: 500-191731-1

Date Collected: 11/30/20 10:00

Matrix: Solid

Date Received: 11/30/20 17:15

Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.38		0.81	0.38	mg/Kg	✳	12/02/20 17:54	12/03/20 12:46	1
N-Nitrosodi-n-propylamine	<0.049		0.081	0.049	mg/Kg	✳	12/02/20 17:54	12/03/20 12:46	1
N-Nitrosodiphenylamine	<0.047		0.20	0.047	mg/Kg	✳	12/02/20 17:54	12/03/20 12:46	1
2,2'-oxybis[1-chloropropane]	<0.046		0.20	0.046	mg/Kg	✳	12/02/20 17:54	12/03/20 12:46	1
Pentachlorophenol	<0.64		0.81	0.64	mg/Kg	✳	12/02/20 17:54	12/03/20 12:46	1
Phenanthrene	<0.0056		0.040	0.0056	mg/Kg	✳	12/02/20 17:54	12/03/20 12:46	1
Phenol	<0.089		0.20	0.089	mg/Kg	✳	12/02/20 17:54	12/03/20 12:46	1
Pyrene	0.0095	J	0.040	0.0080	mg/Kg	✳	12/02/20 17:54	12/03/20 12:46	1
1,2,4-Trichlorobenzene	<0.043		0.20	0.043	mg/Kg	✳	12/02/20 17:54	12/03/20 12:46	1
2,4,5-Trichlorophenol	<0.091		0.40	0.091	mg/Kg	✳	12/02/20 17:54	12/03/20 12:46	1
2,4,6-Trichlorophenol	<0.14		0.40	0.14	mg/Kg	✳	12/02/20 17:54	12/03/20 12:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	83		43 - 145				12/02/20 17:54	12/03/20 12:46	1
2-Fluorophenol	94		31 - 166				12/02/20 17:54	12/03/20 12:46	1
Nitrobenzene-d5	90		37 - 147				12/02/20 17:54	12/03/20 12:46	1
Phenol-d5	98		30 - 153				12/02/20 17:54	12/03/20 12:46	1
Terphenyl-d14	95		42 - 157				12/02/20 17:54	12/03/20 12:46	1
2,4,6-Tribromophenol	85		31 - 143				12/02/20 17:54	12/03/20 12:46	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.83	J F1	1.2	0.23	mg/Kg	✳	12/03/20 17:53	12/04/20 10:39	1
Arsenic	9.8		0.59	0.20	mg/Kg	✳	12/03/20 17:53	12/04/20 10:39	1
Barium	51	V	0.59	0.067	mg/Kg	✳	12/03/20 17:53	12/04/20 10:39	1
Beryllium	0.84		0.24	0.055	mg/Kg	✳	12/03/20 17:53	12/04/20 10:39	1
Cadmium	0.41	B	0.12	0.021	mg/Kg	✳	12/03/20 17:53	12/04/20 10:39	1
Chromium	18	V	0.59	0.29	mg/Kg	✳	12/03/20 17:53	12/04/20 10:39	1
Cobalt	14		0.29	0.077	mg/Kg	✳	12/03/20 17:53	12/04/20 10:39	1
Copper	29	F1 V	0.59	0.16	mg/Kg	✳	12/03/20 17:53	12/04/20 10:39	1
Iron	27000	V	12	6.1	mg/Kg	✳	12/03/20 17:53	12/04/20 10:39	1
Lead	28	V	0.29	0.14	mg/Kg	✳	12/03/20 17:53	12/04/20 10:39	1
Magnesium	21000	V	5.9	2.9	mg/Kg	✳	12/03/20 17:53	12/04/20 10:39	1
Calcium	29000	V	12	2.0	mg/Kg	✳	12/03/20 17:53	12/04/20 10:39	1
Manganese	620	V	0.59	0.085	mg/Kg	✳	12/03/20 17:53	12/04/20 10:39	1
Nickel	39		0.59	0.17	mg/Kg	✳	12/03/20 17:53	12/04/20 10:39	1
Selenium	<0.35	F1	0.59	0.35	mg/Kg	✳	12/03/20 17:53	12/04/20 10:39	1
Silver	<0.076	F1	0.29	0.076	mg/Kg	✳	12/03/20 17:53	12/04/20 10:39	1
Thallium	<0.29		0.59	0.29	mg/Kg	✳	12/03/20 17:53	12/04/20 10:39	1
Vanadium	27	V	0.29	0.069	mg/Kg	✳	12/03/20 17:53	12/04/20 10:39	1
Zinc	75		1.2	0.52	mg/Kg	✳	12/03/20 17:53	12/04/20 10:39	1
Potassium	2200	F1 V	29	10	mg/Kg	✳	12/03/20 17:53	12/04/20 10:39	1
Sodium	1400	F1 V	59	8.7	mg/Kg	✳	12/03/20 17:53	12/04/20 10:39	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		12/03/20 16:40	12/04/20 12:53	1
Barium	0.34	J	0.50	0.050	mg/L		12/03/20 16:40	12/04/20 12:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/03/20 16:40	12/04/20 12:53	1
Cadmium	0.0032	J	0.0050	0.0020	mg/L		12/03/20 16:40	12/04/20 12:53	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191731-1

Client Sample ID: 3138V-2-B01 (0-5)

Lab Sample ID: 500-191731-1

Date Collected: 11/30/20 10:00

Matrix: Solid

Date Received: 11/30/20 17:15

Percent Solids: 82.4

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		12/03/20 16:40	12/04/20 12:53	1
Chromium	<0.010		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 12:53	1
Cobalt	0.014	J	0.025	0.010	mg/L		12/03/20 16:40	12/04/20 12:53	1
Copper	<0.010		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 12:53	1
Iron	<0.20	*	0.40	0.20	mg/L		12/03/20 16:40	12/04/20 12:53	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/03/20 16:40	12/04/20 12:53	1
Magnesium	110		2.5	0.50	mg/L		12/03/20 16:40	12/04/20 12:53	1
Manganese	4.6		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 12:53	1
Nickel	0.034		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 12:53	1
Potassium	2.2	J B *	2.5	0.50	mg/L		12/03/20 16:40	12/04/20 12:53	1
Selenium	<0.020		0.050	0.020	mg/L		12/03/20 16:40	12/04/20 12:53	1
Silver	<0.010		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 12:53	1
Vanadium	<0.010		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 12:53	1
Zinc	<0.020		0.50	0.020	mg/L		12/03/20 16:40	12/04/20 12:53	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		12/03/20 16:43	12/04/20 14:16	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		12/03/20 16:40	12/04/20 16:59	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/03/20 16:40	12/04/20 16:59	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		12/04/20 08:15	12/07/20 08:20	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.020	0.0065	mg/Kg	☼	12/03/20 13:15	12/04/20 11:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.34		0.31	0.16	mg/Kg	☼	12/04/20 14:54	12/04/20 16:56	1
pH	8.7		0.2	0.2	SU			12/03/20 17:57	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191731-1

Client Sample ID: 3138V-2-B01 (5-10.5)

Lab Sample ID: 500-191731-2

Date Collected: 11/30/20 10:05

Matrix: Solid

Date Received: 11/30/20 17:15

Percent Solids: 79.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.023		0.018	0.0079	mg/Kg	☼	12/01/20 17:52	12/03/20 14:11	1
Benzene	<0.00046		0.0018	0.00046	mg/Kg	☼	12/01/20 17:52	12/03/20 14:11	1
Bromodichloromethane	<0.00037		0.0018	0.00037	mg/Kg	☼	12/01/20 17:52	12/03/20 14:11	1
Bromoform	<0.00053		0.0018	0.00053	mg/Kg	☼	12/01/20 17:52	12/03/20 14:11	1
Bromomethane	<0.0017		0.0045	0.0017	mg/Kg	☼	12/01/20 17:52	12/03/20 14:11	1
2-Butanone (MEK)	0.0032	J	0.0045	0.0020	mg/Kg	☼	12/01/20 17:52	12/03/20 14:11	1
Carbon disulfide	<0.00094		0.0045	0.00094	mg/Kg	☼	12/01/20 17:52	12/03/20 14:11	1
Carbon tetrachloride	<0.00052	*	0.0018	0.00052	mg/Kg	☼	12/01/20 17:52	12/03/20 14:11	1
Chlorobenzene	<0.00067		0.0018	0.00067	mg/Kg	☼	12/01/20 17:52	12/03/20 14:11	1
Chloroethane	<0.0013		0.0045	0.0013	mg/Kg	☼	12/01/20 17:52	12/03/20 14:11	1
Chloroform	<0.00063		0.0018	0.00063	mg/Kg	☼	12/01/20 17:52	12/03/20 14:11	1
Chloromethane	<0.0018		0.0045	0.0018	mg/Kg	☼	12/01/20 17:52	12/03/20 14:11	1
cis-1,2-Dichloroethene	<0.00050		0.0018	0.00050	mg/Kg	☼	12/01/20 17:52	12/03/20 14:11	1
cis-1,3-Dichloropropene	<0.00054		0.0018	0.00054	mg/Kg	☼	12/01/20 17:52	12/03/20 14:11	1
Dibromochloromethane	<0.00059		0.0018	0.00059	mg/Kg	☼	12/01/20 17:52	12/03/20 14:11	1
1,1-Dichloroethane	<0.00062		0.0018	0.00062	mg/Kg	☼	12/01/20 17:52	12/03/20 14:11	1
1,2-Dichloroethane	<0.0014		0.0045	0.0014	mg/Kg	☼	12/01/20 17:52	12/03/20 14:11	1
1,1-Dichloroethene	<0.00062		0.0018	0.00062	mg/Kg	☼	12/01/20 17:52	12/03/20 14:11	1
1,2-Dichloropropene	<0.00047		0.0018	0.00047	mg/Kg	☼	12/01/20 17:52	12/03/20 14:11	1
1,3-Dichloropropene, Total	<0.00063		0.0018	0.00063	mg/Kg	☼	12/01/20 17:52	12/03/20 14:11	1
Ethylbenzene	<0.00086		0.0018	0.00086	mg/Kg	☼	12/01/20 17:52	12/03/20 14:11	1
2-Hexanone	<0.0014		0.0045	0.0014	mg/Kg	☼	12/01/20 17:52	12/03/20 14:11	1
Methylene Chloride	<0.0018		0.0045	0.0018	mg/Kg	☼	12/01/20 17:52	12/03/20 14:11	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0045	0.0013	mg/Kg	☼	12/01/20 17:52	12/03/20 14:11	1
Methyl tert-butyl ether	<0.00053		0.0018	0.00053	mg/Kg	☼	12/01/20 17:52	12/03/20 14:11	1
Styrene	<0.00055		0.0018	0.00055	mg/Kg	☼	12/01/20 17:52	12/03/20 14:11	1
1,1,2,2-Tetrachloroethane	<0.00058		0.0018	0.00058	mg/Kg	☼	12/01/20 17:52	12/03/20 14:11	1
Tetrachloroethene	<0.00061		0.0018	0.00061	mg/Kg	☼	12/01/20 17:52	12/03/20 14:11	1
Toluene	<0.00046		0.0018	0.00046	mg/Kg	☼	12/01/20 17:52	12/03/20 14:11	1
trans-1,2-Dichloroethene	<0.00080		0.0018	0.00080	mg/Kg	☼	12/01/20 17:52	12/03/20 14:11	1
trans-1,3-Dichloropropene	<0.00063		0.0018	0.00063	mg/Kg	☼	12/01/20 17:52	12/03/20 14:11	1
1,1,1-Trichloroethane	<0.00061		0.0018	0.00061	mg/Kg	☼	12/01/20 17:52	12/03/20 14:11	1
1,1,2-Trichloroethane	<0.00077		0.0018	0.00077	mg/Kg	☼	12/01/20 17:52	12/03/20 14:11	1
Trichloroethene	<0.00061		0.0018	0.00061	mg/Kg	☼	12/01/20 17:52	12/03/20 14:11	1
Vinyl acetate	<0.0016		0.0045	0.0016	mg/Kg	☼	12/01/20 17:52	12/03/20 14:11	1
Vinyl chloride	<0.00080		0.0018	0.00080	mg/Kg	☼	12/01/20 17:52	12/03/20 14:11	1
Xylenes, Total	<0.00058		0.0036	0.00058	mg/Kg	☼	12/01/20 17:52	12/03/20 14:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		75 - 131	12/01/20 17:52	12/03/20 14:11	1
Dibromofluoromethane	99		75 - 126	12/01/20 17:52	12/03/20 14:11	1
1,2-Dichloroethane-d4 (Surr)	88		70 - 134	12/01/20 17:52	12/03/20 14:11	1
Toluene-d8 (Surr)	87		75 - 124	12/01/20 17:52	12/03/20 14:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0075		0.042	0.0075	mg/Kg	☼	12/02/20 17:54	12/03/20 11:31	1
Acenaphthylene	<0.0055		0.042	0.0055	mg/Kg	☼	12/02/20 17:54	12/03/20 11:31	1
Anthracene	<0.0070		0.042	0.0070	mg/Kg	☼	12/02/20 17:54	12/03/20 11:31	1
Benzo[a]anthracene	<0.0056		0.042	0.0056	mg/Kg	☼	12/02/20 17:54	12/03/20 11:31	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191731-1

Client Sample ID: 3138V-2-B01 (5-10.5)

Lab Sample ID: 500-191731-2

Date Collected: 11/30/20 10:05

Matrix: Solid

Date Received: 11/30/20 17:15

Percent Solids: 79.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.0081		0.042	0.0081	mg/Kg	☼	12/02/20 17:54	12/03/20 11:31	1
Benzo[b]fluoranthene	<0.0091		0.042	0.0091	mg/Kg	☼	12/02/20 17:54	12/03/20 11:31	1
Benzo[g,h,i]perylene	<0.014		0.042	0.014	mg/Kg	☼	12/02/20 17:54	12/03/20 11:31	1
Benzo[k]fluoranthene	<0.012		0.042	0.012	mg/Kg	☼	12/02/20 17:54	12/03/20 11:31	1
Bis(2-chloroethoxy)methane	<0.043		0.21	0.043	mg/Kg	☼	12/02/20 17:54	12/03/20 11:31	1
Bis(2-chloroethyl)ether	<0.063		0.21	0.063	mg/Kg	☼	12/02/20 17:54	12/03/20 11:31	1
Bis(2-ethylhexyl) phthalate	<0.077		0.21	0.077	mg/Kg	☼	12/02/20 17:54	12/03/20 11:31	1
4-Bromophenyl phenyl ether	<0.055		0.21	0.055	mg/Kg	☼	12/02/20 17:54	12/03/20 11:31	1
Butyl benzyl phthalate	<0.080		0.21	0.080	mg/Kg	☼	12/02/20 17:54	12/03/20 11:31	1
Carbazole	<0.10		0.21	0.10	mg/Kg	☼	12/02/20 17:54	12/03/20 11:31	1
4-Chloroaniline	<0.20		0.85	0.20	mg/Kg	☼	12/02/20 17:54	12/03/20 11:31	1
4-Chloro-3-methylphenol	<0.14		0.42	0.14	mg/Kg	☼	12/02/20 17:54	12/03/20 11:31	1
2-Chloronaphthalene	<0.046		0.21	0.046	mg/Kg	☼	12/02/20 17:54	12/03/20 11:31	1
2-Chlorophenol	<0.072		0.21	0.072	mg/Kg	☼	12/02/20 17:54	12/03/20 11:31	1
4-Chlorophenyl phenyl ether	<0.049		0.21	0.049	mg/Kg	☼	12/02/20 17:54	12/03/20 11:31	1
Chrysene	<0.011		0.042	0.011	mg/Kg	☼	12/02/20 17:54	12/03/20 11:31	1
Dibenz(a,h)anthracene	<0.0081		0.042	0.0081	mg/Kg	☼	12/02/20 17:54	12/03/20 11:31	1
Dibenzofuran	<0.049		0.21	0.049	mg/Kg	☼	12/02/20 17:54	12/03/20 11:31	1
1,2-Dichlorobenzene	<0.050		0.21	0.050	mg/Kg	☼	12/02/20 17:54	12/03/20 11:31	1
1,3-Dichlorobenzene	<0.047		0.21	0.047	mg/Kg	☼	12/02/20 17:54	12/03/20 11:31	1
1,4-Dichlorobenzene	<0.054		0.21	0.054	mg/Kg	☼	12/02/20 17:54	12/03/20 11:31	1
3,3'-Dichlorobenzidine	<0.059		0.21	0.059	mg/Kg	☼	12/02/20 17:54	12/03/20 11:31	1
2,4-Dichlorophenol	<0.10		0.42	0.10	mg/Kg	☼	12/02/20 17:54	12/03/20 11:31	1
Diethyl phthalate	<0.071		0.21	0.071	mg/Kg	☼	12/02/20 17:54	12/03/20 11:31	1
2,4-Dimethylphenol	<0.16		0.42	0.16	mg/Kg	☼	12/02/20 17:54	12/03/20 11:31	1
Dimethyl phthalate	<0.055		0.21	0.055	mg/Kg	☼	12/02/20 17:54	12/03/20 11:31	1
Di-n-butyl phthalate	<0.064		0.21	0.064	mg/Kg	☼	12/02/20 17:54	12/03/20 11:31	1
4,6-Dinitro-2-methylphenol	<0.34		0.85	0.34	mg/Kg	☼	12/02/20 17:54	12/03/20 11:31	1
2,4-Dinitrophenol	<0.74		0.85	0.74	mg/Kg	☼	12/02/20 17:54	12/03/20 11:31	1
2,4-Dinitrotoluene	<0.067		0.21	0.067	mg/Kg	☼	12/02/20 17:54	12/03/20 11:31	1
2,6-Dinitrotoluene	<0.083		0.21	0.083	mg/Kg	☼	12/02/20 17:54	12/03/20 11:31	1
Di-n-octyl phthalate	<0.068		0.21	0.068	mg/Kg	☼	12/02/20 17:54	12/03/20 11:31	1
Fluoranthene	<0.0078		0.042	0.0078	mg/Kg	☼	12/02/20 17:54	12/03/20 11:31	1
Fluorene	<0.0059		0.042	0.0059	mg/Kg	☼	12/02/20 17:54	12/03/20 11:31	1
Hexachlorobenzene	<0.0097		0.085	0.0097	mg/Kg	☼	12/02/20 17:54	12/03/20 11:31	1
Hexachlorobutadiene	<0.066		0.21	0.066	mg/Kg	☼	12/02/20 17:54	12/03/20 11:31	1
Hexachlorocyclopentadiene	<0.24		0.85	0.24	mg/Kg	☼	12/02/20 17:54	12/03/20 11:31	1
Hexachloroethane	<0.064		0.21	0.064	mg/Kg	☼	12/02/20 17:54	12/03/20 11:31	1
Indeno[1,2,3-cd]pyrene	<0.011		0.042	0.011	mg/Kg	☼	12/02/20 17:54	12/03/20 11:31	1
Isophorone	<0.047		0.21	0.047	mg/Kg	☼	12/02/20 17:54	12/03/20 11:31	1
2-Methylnaphthalene	<0.0077		0.085	0.0077	mg/Kg	☼	12/02/20 17:54	12/03/20 11:31	1
2-Methylphenol	<0.067		0.21	0.067	mg/Kg	☼	12/02/20 17:54	12/03/20 11:31	1
3 & 4 Methylphenol	<0.070		0.21	0.070	mg/Kg	☼	12/02/20 17:54	12/03/20 11:31	1
Naphthalene	<0.0065		0.042	0.0065	mg/Kg	☼	12/02/20 17:54	12/03/20 11:31	1
2-Nitroaniline	<0.056		0.21	0.056	mg/Kg	☼	12/02/20 17:54	12/03/20 11:31	1
3-Nitroaniline	<0.13		0.42	0.13	mg/Kg	☼	12/02/20 17:54	12/03/20 11:31	1
4-Nitroaniline	<0.18		0.42	0.18	mg/Kg	☼	12/02/20 17:54	12/03/20 11:31	1
Nitrobenzene	<0.010		0.042	0.010	mg/Kg	☼	12/02/20 17:54	12/03/20 11:31	1
2-Nitrophenol	<0.099		0.42	0.099	mg/Kg	☼	12/02/20 17:54	12/03/20 11:31	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191731-1

Client Sample ID: 3138V-2-B01 (5-10.5)

Lab Sample ID: 500-191731-2

Date Collected: 11/30/20 10:05

Matrix: Solid

Date Received: 11/30/20 17:15

Percent Solids: 79.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.40		0.85	0.40	mg/Kg	☼	12/02/20 17:54	12/03/20 11:31	1
N-Nitrosodi-n-propylamine	<0.051		0.085	0.051	mg/Kg	☼	12/02/20 17:54	12/03/20 11:31	1
N-Nitrosodiphenylamine	<0.050		0.21	0.050	mg/Kg	☼	12/02/20 17:54	12/03/20 11:31	1
2,2'-oxybis[1-chloropropane]	<0.049		0.21	0.049	mg/Kg	☼	12/02/20 17:54	12/03/20 11:31	1
Pentachlorophenol	<0.67		0.85	0.67	mg/Kg	☼	12/02/20 17:54	12/03/20 11:31	1
Phenanthrene	<0.0058		0.042	0.0058	mg/Kg	☼	12/02/20 17:54	12/03/20 11:31	1
Phenol	<0.093		0.21	0.093	mg/Kg	☼	12/02/20 17:54	12/03/20 11:31	1
Pyrene	<0.0083		0.042	0.0083	mg/Kg	☼	12/02/20 17:54	12/03/20 11:31	1
1,2,4-Trichlorobenzene	<0.045		0.21	0.045	mg/Kg	☼	12/02/20 17:54	12/03/20 11:31	1
2,4,5-Trichlorophenol	<0.096		0.42	0.096	mg/Kg	☼	12/02/20 17:54	12/03/20 11:31	1
2,4,6-Trichlorophenol	<0.14		0.42	0.14	mg/Kg	☼	12/02/20 17:54	12/03/20 11:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	58		43 - 145				12/02/20 17:54	12/03/20 11:31	1
2-Fluorophenol	64		31 - 166				12/02/20 17:54	12/03/20 11:31	1
Nitrobenzene-d5	60		37 - 147				12/02/20 17:54	12/03/20 11:31	1
Phenol-d5	64		30 - 153				12/02/20 17:54	12/03/20 11:31	1
Terphenyl-d14	63		42 - 157				12/02/20 17:54	12/03/20 11:31	1
2,4,6-Tribromophenol	62		31 - 143				12/02/20 17:54	12/03/20 11:31	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.72	J	1.2	0.24	mg/Kg	☼	12/03/20 17:53	12/04/20 10:55	1
Arsenic	9.1		0.61	0.21	mg/Kg	☼	12/03/20 17:53	12/04/20 10:55	1
Barium	130		0.61	0.070	mg/Kg	☼	12/03/20 17:53	12/04/20 10:55	1
Beryllium	0.87		0.24	0.057	mg/Kg	☼	12/03/20 17:53	12/04/20 10:55	1
Cadmium	0.62	B	0.12	0.022	mg/Kg	☼	12/03/20 17:53	12/04/20 10:55	1
Chromium	19		0.61	0.30	mg/Kg	☼	12/03/20 17:53	12/04/20 10:55	1
Cobalt	15		0.31	0.080	mg/Kg	☼	12/03/20 17:53	12/04/20 10:55	1
Copper	19		0.61	0.17	mg/Kg	☼	12/03/20 17:53	12/04/20 10:55	1
Iron	25000		12	6.3	mg/Kg	☼	12/03/20 17:53	12/04/20 10:55	1
Lead	17		0.31	0.14	mg/Kg	☼	12/03/20 17:53	12/04/20 10:55	1
Magnesium	5500		6.1	3.0	mg/Kg	☼	12/03/20 17:53	12/04/20 10:55	1
Calcium	21000		12	2.1	mg/Kg	☼	12/03/20 17:53	12/04/20 10:55	1
Manganese	1800		3.1	0.44	mg/Kg	☼	12/03/20 17:53	12/04/20 14:51	5
Nickel	32		0.61	0.18	mg/Kg	☼	12/03/20 17:53	12/04/20 10:55	1
Selenium	0.49	J	0.61	0.36	mg/Kg	☼	12/03/20 17:53	12/04/20 10:55	1
Silver	<0.39		1.5	0.39	mg/Kg	☼	12/03/20 17:53	12/04/20 14:51	5
Thallium	<1.5		3.1	1.5	mg/Kg	☼	12/03/20 17:53	12/04/20 14:51	5
Vanadium	31		0.31	0.072	mg/Kg	☼	12/03/20 17:53	12/04/20 10:55	1
Zinc	87		1.2	0.54	mg/Kg	☼	12/03/20 17:53	12/04/20 10:55	1
Potassium	2000		31	11	mg/Kg	☼	12/03/20 17:53	12/04/20 10:55	1
Sodium	1600		61	9.0	mg/Kg	☼	12/03/20 17:53	12/04/20 10:55	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		12/03/20 16:40	12/04/20 12:57	1
Barium	0.85		0.50	0.050	mg/L		12/03/20 16:40	12/04/20 12:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/03/20 16:40	12/04/20 12:57	1
Cadmium	0.0025	J	0.0050	0.0020	mg/L		12/03/20 16:40	12/04/20 12:57	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191731-1

Client Sample ID: 3138V-2-B01 (5-10.5)

Lab Sample ID: 500-191731-2

Date Collected: 11/30/20 10:05

Matrix: Solid

Date Received: 11/30/20 17:15

Percent Solids: 79.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	270		5.0	0.50	mg/L		12/03/20 16:40	12/04/20 12:57	1
Chromium	<0.010		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 12:57	1
Cobalt	0.058		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 12:57	1
Copper	<0.010		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 12:57	1
Iron	0.65		0.40	0.20	mg/L		12/07/20 17:01	12/08/20 11:39	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/03/20 16:40	12/04/20 12:57	1
Magnesium	68		2.5	0.50	mg/L		12/03/20 16:40	12/04/20 12:57	1
Manganese	34		0.13	0.050	mg/L		12/03/20 16:40	12/07/20 14:32	5
Nickel	0.046		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 12:57	1
Potassium	2.5		2.5	0.50	mg/L		12/07/20 17:01	12/08/20 11:39	1
Selenium	<0.020		0.050	0.020	mg/L		12/03/20 16:40	12/04/20 12:57	1
Silver	<0.050		0.13	0.050	mg/L		12/03/20 16:40	12/07/20 14:32	5
Vanadium	<0.010		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 12:57	1
Zinc	0.038	J B	0.50	0.020	mg/L		12/03/20 16:40	12/04/20 12:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	2.3		0.025	0.010	mg/L		12/03/20 16:43	12/04/20 14:19	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		12/03/20 16:40	12/04/20 17:01	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/03/20 16:40	12/04/20 17:01	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		12/04/20 08:15	12/07/20 08:22	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.045		0.021	0.0068	mg/Kg	✱	12/03/20 13:15	12/04/20 11:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.32		0.29	0.15	mg/Kg	✱	12/04/20 14:54	12/04/20 16:58	1
pH	8.2		0.2	0.2	SU			12/03/20 17:59	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191731-1

Client Sample ID: 3138V-2-B02 (0-1.9)

Lab Sample ID: 500-191731-3

Date Collected: 11/30/20 09:10

Matrix: Solid

Date Received: 11/30/20 17:15

Percent Solids: 85.4

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	☼	12/01/20 17:52	12/03/20 14:36	1
Benzene	<0.00039		0.0015	0.00039	mg/Kg	☼	12/01/20 17:52	12/03/20 14:36	1
Bromodichloromethane	<0.00031		0.0015	0.00031	mg/Kg	☼	12/01/20 17:52	12/03/20 14:36	1
Bromoform	<0.00045		0.0015	0.00045	mg/Kg	☼	12/01/20 17:52	12/03/20 14:36	1
Bromomethane	<0.0015		0.0039	0.0015	mg/Kg	☼	12/01/20 17:52	12/03/20 14:36	1
2-Butanone (MEK)	<0.0017		0.0039	0.0017	mg/Kg	☼	12/01/20 17:52	12/03/20 14:36	1
Carbon disulfide	<0.00080		0.0039	0.00080	mg/Kg	☼	12/01/20 17:52	12/03/20 14:36	1
Carbon tetrachloride	<0.00045 *		0.0015	0.00045	mg/Kg	☼	12/01/20 17:52	12/03/20 14:36	1
Chlorobenzene	<0.00057		0.0015	0.00057	mg/Kg	☼	12/01/20 17:52	12/03/20 14:36	1
Chloroethane	<0.0011		0.0039	0.0011	mg/Kg	☼	12/01/20 17:52	12/03/20 14:36	1
Chloroform	<0.00054		0.0015	0.00054	mg/Kg	☼	12/01/20 17:52	12/03/20 14:36	1
Chloromethane	<0.0015		0.0039	0.0015	mg/Kg	☼	12/01/20 17:52	12/03/20 14:36	1
cis-1,2-Dichloroethene	<0.00043		0.0015	0.00043	mg/Kg	☼	12/01/20 17:52	12/03/20 14:36	1
cis-1,3-Dichloropropene	<0.00046		0.0015	0.00046	mg/Kg	☼	12/01/20 17:52	12/03/20 14:36	1
Dibromochloromethane	<0.00050		0.0015	0.00050	mg/Kg	☼	12/01/20 17:52	12/03/20 14:36	1
1,1-Dichloroethane	<0.00053		0.0015	0.00053	mg/Kg	☼	12/01/20 17:52	12/03/20 14:36	1
1,2-Dichloroethane	<0.0012		0.0039	0.0012	mg/Kg	☼	12/01/20 17:52	12/03/20 14:36	1
1,1-Dichloroethene	<0.00053		0.0015	0.00053	mg/Kg	☼	12/01/20 17:52	12/03/20 14:36	1
1,2-Dichloropropene	<0.00040		0.0015	0.00040	mg/Kg	☼	12/01/20 17:52	12/03/20 14:36	1
1,3-Dichloropropene, Total	<0.00054		0.0015	0.00054	mg/Kg	☼	12/01/20 17:52	12/03/20 14:36	1
Ethylbenzene	<0.00074		0.0015	0.00074	mg/Kg	☼	12/01/20 17:52	12/03/20 14:36	1
2-Hexanone	<0.0012		0.0039	0.0012	mg/Kg	☼	12/01/20 17:52	12/03/20 14:36	1
Methylene Chloride	<0.0015		0.0039	0.0015	mg/Kg	☼	12/01/20 17:52	12/03/20 14:36	1
4-Methyl-2-pentanone (MIBK)	<0.0011		0.0039	0.0011	mg/Kg	☼	12/01/20 17:52	12/03/20 14:36	1
Methyl tert-butyl ether	<0.00045		0.0015	0.00045	mg/Kg	☼	12/01/20 17:52	12/03/20 14:36	1
Styrene	<0.00047		0.0015	0.00047	mg/Kg	☼	12/01/20 17:52	12/03/20 14:36	1
1,1,2,2-Tetrachloroethane	<0.00049		0.0015	0.00049	mg/Kg	☼	12/01/20 17:52	12/03/20 14:36	1
Tetrachloroethene	<0.00053		0.0015	0.00053	mg/Kg	☼	12/01/20 17:52	12/03/20 14:36	1
Toluene	<0.00039		0.0015	0.00039	mg/Kg	☼	12/01/20 17:52	12/03/20 14:36	1
trans-1,2-Dichloroethene	<0.00068		0.0015	0.00068	mg/Kg	☼	12/01/20 17:52	12/03/20 14:36	1
trans-1,3-Dichloropropene	<0.00054		0.0015	0.00054	mg/Kg	☼	12/01/20 17:52	12/03/20 14:36	1
1,1,1-Trichloroethane	<0.00052		0.0015	0.00052	mg/Kg	☼	12/01/20 17:52	12/03/20 14:36	1
1,1,2-Trichloroethane	<0.00066		0.0015	0.00066	mg/Kg	☼	12/01/20 17:52	12/03/20 14:36	1
Trichloroethene	<0.00052		0.0015	0.00052	mg/Kg	☼	12/01/20 17:52	12/03/20 14:36	1
Vinyl acetate	<0.0013		0.0039	0.0013	mg/Kg	☼	12/01/20 17:52	12/03/20 14:36	1
Vinyl chloride	<0.00068		0.0015	0.00068	mg/Kg	☼	12/01/20 17:52	12/03/20 14:36	1
Xylenes, Total	<0.00049		0.0031	0.00049	mg/Kg	☼	12/01/20 17:52	12/03/20 14:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		75 - 131	12/01/20 17:52	12/03/20 14:36	1
Dibromofluoromethane	103		75 - 126	12/01/20 17:52	12/03/20 14:36	1
1,2-Dichloroethane-d4 (Surr)	88		70 - 134	12/01/20 17:52	12/03/20 14:36	1
Toluene-d8 (Surr)	89		75 - 124	12/01/20 17:52	12/03/20 14:36	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	☼	12/02/20 17:54	12/03/20 16:08	1
Acenaphthylene	<0.0051		0.038	0.0051	mg/Kg	☼	12/02/20 17:54	12/03/20 16:08	1
Anthracene	<0.0064		0.038	0.0064	mg/Kg	☼	12/02/20 17:54	12/03/20 16:08	1
Benzo[a]anthracene	0.014	J	0.038	0.0052	mg/Kg	☼	12/02/20 17:54	12/03/20 16:08	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191731-1

Client Sample ID: 3138V-2-B02 (0-1.9)

Lab Sample ID: 500-191731-3

Date Collected: 11/30/20 09:10

Matrix: Solid

Date Received: 11/30/20 17:15

Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.020	J	0.038	0.0075	mg/Kg	☼	12/02/20 17:54	12/03/20 16:08	1
Benzo[b]fluoranthene	0.029	J	0.038	0.0083	mg/Kg	☼	12/02/20 17:54	12/03/20 16:08	1
Benzo[g,h,i]perylene	0.016	J	0.038	0.012	mg/Kg	☼	12/02/20 17:54	12/03/20 16:08	1
Benzo[k]fluoranthene	0.014	J	0.038	0.011	mg/Kg	☼	12/02/20 17:54	12/03/20 16:08	1
Bis(2-chloroethoxy)methane	<0.039		0.19	0.039	mg/Kg	☼	12/02/20 17:54	12/03/20 16:08	1
Bis(2-chloroethyl)ether	<0.058		0.19	0.058	mg/Kg	☼	12/02/20 17:54	12/03/20 16:08	1
Bis(2-ethylhexyl) phthalate	<0.071		0.19	0.071	mg/Kg	☼	12/02/20 17:54	12/03/20 16:08	1
4-Bromophenyl phenyl ether	<0.051		0.19	0.051	mg/Kg	☼	12/02/20 17:54	12/03/20 16:08	1
Butyl benzyl phthalate	<0.073		0.19	0.073	mg/Kg	☼	12/02/20 17:54	12/03/20 16:08	1
Carbazole	<0.096		0.19	0.096	mg/Kg	☼	12/02/20 17:54	12/03/20 16:08	1
4-Chloroaniline	<0.18		0.78	0.18	mg/Kg	☼	12/02/20 17:54	12/03/20 16:08	1
4-Chloro-3-methylphenol	<0.13		0.38	0.13	mg/Kg	☼	12/02/20 17:54	12/03/20 16:08	1
2-Chloronaphthalene	<0.043		0.19	0.043	mg/Kg	☼	12/02/20 17:54	12/03/20 16:08	1
2-Chlorophenol	<0.066		0.19	0.066	mg/Kg	☼	12/02/20 17:54	12/03/20 16:08	1
4-Chlorophenyl phenyl ether	<0.045		0.19	0.045	mg/Kg	☼	12/02/20 17:54	12/03/20 16:08	1
Chrysene	0.019	J	0.038	0.011	mg/Kg	☼	12/02/20 17:54	12/03/20 16:08	1
Dibenz(a,h)anthracene	<0.0075		0.038	0.0075	mg/Kg	☼	12/02/20 17:54	12/03/20 16:08	1
Dibenzofuran	<0.045		0.19	0.045	mg/Kg	☼	12/02/20 17:54	12/03/20 16:08	1
1,2-Dichlorobenzene	<0.046		0.19	0.046	mg/Kg	☼	12/02/20 17:54	12/03/20 16:08	1
1,3-Dichlorobenzene	<0.043		0.19	0.043	mg/Kg	☼	12/02/20 17:54	12/03/20 16:08	1
1,4-Dichlorobenzene	<0.050		0.19	0.050	mg/Kg	☼	12/02/20 17:54	12/03/20 16:08	1
3,3'-Dichlorobenzidine	<0.054		0.19	0.054	mg/Kg	☼	12/02/20 17:54	12/03/20 16:08	1
2,4-Dichlorophenol	<0.092		0.38	0.092	mg/Kg	☼	12/02/20 17:54	12/03/20 16:08	1
Diethyl phthalate	<0.065		0.19	0.065	mg/Kg	☼	12/02/20 17:54	12/03/20 16:08	1
2,4-Dimethylphenol	<0.15		0.38	0.15	mg/Kg	☼	12/02/20 17:54	12/03/20 16:08	1
Dimethyl phthalate	<0.050		0.19	0.050	mg/Kg	☼	12/02/20 17:54	12/03/20 16:08	1
Di-n-butyl phthalate	<0.059		0.19	0.059	mg/Kg	☼	12/02/20 17:54	12/03/20 16:08	1
4,6-Dinitro-2-methylphenol	<0.31		0.78	0.31	mg/Kg	☼	12/02/20 17:54	12/03/20 16:08	1
2,4-Dinitrophenol	<0.68		0.78	0.68	mg/Kg	☼	12/02/20 17:54	12/03/20 16:08	1
2,4-Dinitrotoluene	<0.061		0.19	0.061	mg/Kg	☼	12/02/20 17:54	12/03/20 16:08	1
2,6-Dinitrotoluene	<0.076		0.19	0.076	mg/Kg	☼	12/02/20 17:54	12/03/20 16:08	1
Di-n-octyl phthalate	<0.063		0.19	0.063	mg/Kg	☼	12/02/20 17:54	12/03/20 16:08	1
Fluoranthene	0.026	J	0.038	0.0072	mg/Kg	☼	12/02/20 17:54	12/03/20 16:08	1
Fluorene	<0.0054		0.038	0.0054	mg/Kg	☼	12/02/20 17:54	12/03/20 16:08	1
Hexachlorobenzene	<0.0089		0.078	0.0089	mg/Kg	☼	12/02/20 17:54	12/03/20 16:08	1
Hexachlorobutadiene	<0.061		0.19	0.061	mg/Kg	☼	12/02/20 17:54	12/03/20 16:08	1
Hexachlorocyclopentadiene	<0.22		0.78	0.22	mg/Kg	☼	12/02/20 17:54	12/03/20 16:08	1
Hexachloroethane	<0.059		0.19	0.059	mg/Kg	☼	12/02/20 17:54	12/03/20 16:08	1
Indeno[1,2,3-cd]pyrene	0.012	J	0.038	0.010	mg/Kg	☼	12/02/20 17:54	12/03/20 16:08	1
Isophorone	<0.043		0.19	0.043	mg/Kg	☼	12/02/20 17:54	12/03/20 16:08	1
2-Methylnaphthalene	<0.0071		0.078	0.0071	mg/Kg	☼	12/02/20 17:54	12/03/20 16:08	1
2-Methylphenol	<0.062		0.19	0.062	mg/Kg	☼	12/02/20 17:54	12/03/20 16:08	1
3 & 4 Methylphenol	<0.064		0.19	0.064	mg/Kg	☼	12/02/20 17:54	12/03/20 16:08	1
Naphthalene	<0.0059		0.038	0.0059	mg/Kg	☼	12/02/20 17:54	12/03/20 16:08	1
2-Nitroaniline	<0.052		0.19	0.052	mg/Kg	☼	12/02/20 17:54	12/03/20 16:08	1
3-Nitroaniline	<0.12		0.38	0.12	mg/Kg	☼	12/02/20 17:54	12/03/20 16:08	1
4-Nitroaniline	<0.16		0.38	0.16	mg/Kg	☼	12/02/20 17:54	12/03/20 16:08	1
Nitrobenzene	<0.0096		0.038	0.0096	mg/Kg	☼	12/02/20 17:54	12/03/20 16:08	1
2-Nitrophenol	<0.091		0.38	0.091	mg/Kg	☼	12/02/20 17:54	12/03/20 16:08	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191731-1

Client Sample ID: 3138V-2-B02 (0-1.9)

Lab Sample ID: 500-191731-3

Date Collected: 11/30/20 09:10

Matrix: Solid

Date Received: 11/30/20 17:15

Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.37		0.78	0.37	mg/Kg	✳	12/02/20 17:54	12/03/20 16:08	1
N-Nitrosodi-n-propylamine	<0.047		0.078	0.047	mg/Kg	✳	12/02/20 17:54	12/03/20 16:08	1
N-Nitrosodiphenylamine	<0.046		0.19	0.046	mg/Kg	✳	12/02/20 17:54	12/03/20 16:08	1
2,2'-oxybis[1-chloropropane]	<0.045		0.19	0.045	mg/Kg	✳	12/02/20 17:54	12/03/20 16:08	1
Pentachlorophenol	<0.62		0.78	0.62	mg/Kg	✳	12/02/20 17:54	12/03/20 16:08	1
Phenanthrene	0.0093	J	0.038	0.0054	mg/Kg	✳	12/02/20 17:54	12/03/20 16:08	1
Phenol	<0.086		0.19	0.086	mg/Kg	✳	12/02/20 17:54	12/03/20 16:08	1
Pyrene	0.036	J	0.038	0.0077	mg/Kg	✳	12/02/20 17:54	12/03/20 16:08	1
1,2,4-Trichlorobenzene	<0.042		0.19	0.042	mg/Kg	✳	12/02/20 17:54	12/03/20 16:08	1
2,4,5-Trichlorophenol	<0.088		0.38	0.088	mg/Kg	✳	12/02/20 17:54	12/03/20 16:08	1
2,4,6-Trichlorophenol	<0.13		0.38	0.13	mg/Kg	✳	12/02/20 17:54	12/03/20 16:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	73		43 - 145				12/02/20 17:54	12/03/20 16:08	1
2-Fluorophenol	80		31 - 166				12/02/20 17:54	12/03/20 16:08	1
Nitrobenzene-d5	74		37 - 147				12/02/20 17:54	12/03/20 16:08	1
Phenol-d5	82		30 - 153				12/02/20 17:54	12/03/20 16:08	1
Terphenyl-d14	89		42 - 157				12/02/20 17:54	12/03/20 16:08	1
2,4,6-Tribromophenol	77		31 - 143				12/02/20 17:54	12/03/20 16:08	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	✳	12/03/20 17:53	12/04/20 10:58	1
Arsenic	5.2		0.57	0.20	mg/Kg	✳	12/03/20 17:53	12/04/20 10:58	1
Barium	31		0.57	0.066	mg/Kg	✳	12/03/20 17:53	12/04/20 10:58	1
Beryllium	0.57		0.23	0.054	mg/Kg	✳	12/03/20 17:53	12/04/20 10:58	1
Cadmium	0.29	B	0.11	0.021	mg/Kg	✳	12/03/20 17:53	12/04/20 10:58	1
Chromium	13		0.57	0.28	mg/Kg	✳	12/03/20 17:53	12/04/20 10:58	1
Cobalt	7.5		0.29	0.075	mg/Kg	✳	12/03/20 17:53	12/04/20 10:58	1
Copper	16		0.57	0.16	mg/Kg	✳	12/03/20 17:53	12/04/20 10:58	1
Iron	15000		11	6.0	mg/Kg	✳	12/03/20 17:53	12/04/20 10:58	1
Lead	21		0.29	0.13	mg/Kg	✳	12/03/20 17:53	12/04/20 10:58	1
Magnesium	21000		5.7	2.9	mg/Kg	✳	12/03/20 17:53	12/04/20 10:58	1
Calcium	49000		57	9.7	mg/Kg	✳	12/03/20 17:53	12/04/20 14:54	5
Manganese	300		0.57	0.083	mg/Kg	✳	12/03/20 17:53	12/04/20 10:58	1
Nickel	20		0.57	0.17	mg/Kg	✳	12/03/20 17:53	12/04/20 10:58	1
Selenium	<0.34		0.57	0.34	mg/Kg	✳	12/03/20 17:53	12/04/20 10:58	1
Silver	<0.074		0.29	0.074	mg/Kg	✳	12/03/20 17:53	12/04/20 10:58	1
Thallium	<0.29		0.57	0.29	mg/Kg	✳	12/03/20 17:53	12/04/20 10:58	1
Vanadium	19		0.29	0.068	mg/Kg	✳	12/03/20 17:53	12/04/20 10:58	1
Zinc	49		1.1	0.50	mg/Kg	✳	12/03/20 17:53	12/04/20 10:58	1
Potassium	1800		29	10	mg/Kg	✳	12/03/20 17:53	12/04/20 10:58	1
Sodium	1100		57	8.5	mg/Kg	✳	12/03/20 17:53	12/04/20 10:58	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		12/03/20 16:40	12/04/20 13:00	1
Barium	0.44	J	0.50	0.050	mg/L		12/03/20 16:40	12/04/20 13:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/03/20 16:40	12/04/20 13:00	1
Cadmium	0.0028	J	0.0050	0.0020	mg/L		12/03/20 16:40	12/04/20 13:00	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191731-1

Client Sample ID: 3138V-2-B02 (0-1.9)

Lab Sample ID: 500-191731-3

Date Collected: 11/30/20 09:10

Matrix: Solid

Date Received: 11/30/20 17:15

Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	550		5.0	0.50	mg/L		12/03/20 16:40	12/04/20 13:00	1
Chromium	<0.010		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 13:00	1
Cobalt	<0.010		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 13:00	1
Copper	<0.010		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 13:00	1
Iron	<0.20	*	0.40	0.20	mg/L		12/03/20 16:40	12/04/20 13:00	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/03/20 16:40	12/04/20 13:00	1
Magnesium	33		2.5	0.50	mg/L		12/03/20 16:40	12/04/20 13:00	1
Manganese	2.3		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 13:00	1
Nickel	0.014	J	0.025	0.010	mg/L		12/03/20 16:40	12/04/20 13:00	1
Potassium	2.2	J B *	2.5	0.50	mg/L		12/03/20 16:40	12/04/20 13:00	1
Selenium	<0.020		0.050	0.020	mg/L		12/03/20 16:40	12/04/20 13:00	1
Silver	<0.010		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 13:00	1
Vanadium	<0.010		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 13:00	1
Zinc	<0.020		0.50	0.020	mg/L		12/03/20 16:40	12/04/20 13:00	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		12/03/20 16:43	12/04/20 14:22	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		12/03/20 16:40	12/04/20 17:03	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/03/20 16:40	12/04/20 17:03	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		12/04/20 08:15	12/07/20 08:24	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.018	0.0061	mg/Kg	☼	12/03/20 13:15	12/04/20 11:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.12		0.25	0.12	mg/Kg	☼	12/04/20 14:54	12/04/20 17:00	1
pH	8.7		0.2	0.2	SU			12/03/20 18:02	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191731-1

Client Sample ID: 3138V-2-B03 (0-1.9)

Lab Sample ID: 500-191731-4

Date Collected: 11/30/20 08:45

Matrix: Solid

Date Received: 11/30/20 17:15

Percent Solids: 85.6

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	☼	12/01/20 17:52	12/03/20 15:02	1
Benzene	<0.00038		0.0015	0.00038	mg/Kg	☼	12/01/20 17:52	12/03/20 15:02	1
Bromodichloromethane	<0.00030		0.0015	0.00030	mg/Kg	☼	12/01/20 17:52	12/03/20 15:02	1
Bromoform	<0.00044		0.0015	0.00044	mg/Kg	☼	12/01/20 17:52	12/03/20 15:02	1
Bromomethane	<0.0014		0.0037	0.0014	mg/Kg	☼	12/01/20 17:52	12/03/20 15:02	1
2-Butanone (MEK)	<0.0017		0.0037	0.0017	mg/Kg	☼	12/01/20 17:52	12/03/20 15:02	1
Carbon disulfide	<0.00078		0.0037	0.00078	mg/Kg	☼	12/01/20 17:52	12/03/20 15:02	1
Carbon tetrachloride	<0.00043 *		0.0015	0.00043	mg/Kg	☼	12/01/20 17:52	12/03/20 15:02	1
Chlorobenzene	<0.00055		0.0015	0.00055	mg/Kg	☼	12/01/20 17:52	12/03/20 15:02	1
Chloroethane	<0.0011		0.0037	0.0011	mg/Kg	☼	12/01/20 17:52	12/03/20 15:02	1
Chloroform	<0.00052		0.0015	0.00052	mg/Kg	☼	12/01/20 17:52	12/03/20 15:02	1
Chloromethane	<0.0015		0.0037	0.0015	mg/Kg	☼	12/01/20 17:52	12/03/20 15:02	1
cis-1,2-Dichloroethene	<0.00042		0.0015	0.00042	mg/Kg	☼	12/01/20 17:52	12/03/20 15:02	1
cis-1,3-Dichloropropene	<0.00045		0.0015	0.00045	mg/Kg	☼	12/01/20 17:52	12/03/20 15:02	1
Dibromochloromethane	<0.00049		0.0015	0.00049	mg/Kg	☼	12/01/20 17:52	12/03/20 15:02	1
1,1-Dichloroethane	<0.00051		0.0015	0.00051	mg/Kg	☼	12/01/20 17:52	12/03/20 15:02	1
1,2-Dichloroethane	<0.0012		0.0037	0.0012	mg/Kg	☼	12/01/20 17:52	12/03/20 15:02	1
1,1-Dichloroethene	<0.00051		0.0015	0.00051	mg/Kg	☼	12/01/20 17:52	12/03/20 15:02	1
1,2-Dichloropropene	<0.00039		0.0015	0.00039	mg/Kg	☼	12/01/20 17:52	12/03/20 15:02	1
1,3-Dichloropropene, Total	<0.00052		0.0015	0.00052	mg/Kg	☼	12/01/20 17:52	12/03/20 15:02	1
Ethylbenzene	<0.00071		0.0015	0.00071	mg/Kg	☼	12/01/20 17:52	12/03/20 15:02	1
2-Hexanone	<0.0012		0.0037	0.0012	mg/Kg	☼	12/01/20 17:52	12/03/20 15:02	1
Methylene Chloride	<0.0015		0.0037	0.0015	mg/Kg	☼	12/01/20 17:52	12/03/20 15:02	1
4-Methyl-2-pentanone (MIBK)	<0.0011		0.0037	0.0011	mg/Kg	☼	12/01/20 17:52	12/03/20 15:02	1
Methyl tert-butyl ether	<0.00044		0.0015	0.00044	mg/Kg	☼	12/01/20 17:52	12/03/20 15:02	1
Styrene	<0.00045		0.0015	0.00045	mg/Kg	☼	12/01/20 17:52	12/03/20 15:02	1
1,1,2,2-Tetrachloroethane	<0.00048		0.0015	0.00048	mg/Kg	☼	12/01/20 17:52	12/03/20 15:02	1
Tetrachloroethene	<0.00051		0.0015	0.00051	mg/Kg	☼	12/01/20 17:52	12/03/20 15:02	1
Toluene	<0.00038		0.0015	0.00038	mg/Kg	☼	12/01/20 17:52	12/03/20 15:02	1
trans-1,2-Dichloroethene	<0.00066		0.0015	0.00066	mg/Kg	☼	12/01/20 17:52	12/03/20 15:02	1
trans-1,3-Dichloropropene	<0.00052		0.0015	0.00052	mg/Kg	☼	12/01/20 17:52	12/03/20 15:02	1
1,1,1-Trichloroethane	<0.00050		0.0015	0.00050	mg/Kg	☼	12/01/20 17:52	12/03/20 15:02	1
1,1,2-Trichloroethane	<0.00064		0.0015	0.00064	mg/Kg	☼	12/01/20 17:52	12/03/20 15:02	1
Trichloroethene	<0.00050		0.0015	0.00050	mg/Kg	☼	12/01/20 17:52	12/03/20 15:02	1
Vinyl acetate	<0.0013		0.0037	0.0013	mg/Kg	☼	12/01/20 17:52	12/03/20 15:02	1
Vinyl chloride	<0.00066		0.0015	0.00066	mg/Kg	☼	12/01/20 17:52	12/03/20 15:02	1
Xylenes, Total	<0.00048		0.0030	0.00048	mg/Kg	☼	12/01/20 17:52	12/03/20 15:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		75 - 131	12/01/20 17:52	12/03/20 15:02	1
Dibromofluoromethane	102		75 - 126	12/01/20 17:52	12/03/20 15:02	1
1,2-Dichloroethane-d4 (Surr)	88		70 - 134	12/01/20 17:52	12/03/20 15:02	1
Toluene-d8 (Surr)	90		75 - 124	12/01/20 17:52	12/03/20 15:02	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	☼	12/02/20 17:54	12/03/20 13:12	1
Acenaphthylene	<0.0050		0.038	0.0050	mg/Kg	☼	12/02/20 17:54	12/03/20 13:12	1
Anthracene	<0.0064		0.038	0.0064	mg/Kg	☼	12/02/20 17:54	12/03/20 13:12	1
Benzo[a]anthracene	0.018	J	0.038	0.0052	mg/Kg	☼	12/02/20 17:54	12/03/20 13:12	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191731-1

Client Sample ID: 3138V-2-B03 (0-1.9)

Lab Sample ID: 500-191731-4

Date Collected: 11/30/20 08:45

Matrix: Solid

Date Received: 11/30/20 17:15

Percent Solids: 85.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.026	J	0.038	0.0074	mg/Kg	☼	12/02/20 17:54	12/03/20 13:12	1
Benzo[b]fluoranthene	0.035	J	0.038	0.0083	mg/Kg	☼	12/02/20 17:54	12/03/20 13:12	1
Benzo[g,h,i]perylene	0.019	J	0.038	0.012	mg/Kg	☼	12/02/20 17:54	12/03/20 13:12	1
Benzo[k]fluoranthene	0.012	J	0.038	0.011	mg/Kg	☼	12/02/20 17:54	12/03/20 13:12	1
Bis(2-chloroethoxy)methane	<0.039		0.19	0.039	mg/Kg	☼	12/02/20 17:54	12/03/20 13:12	1
Bis(2-chloroethyl)ether	<0.057		0.19	0.057	mg/Kg	☼	12/02/20 17:54	12/03/20 13:12	1
Bis(2-ethylhexyl) phthalate	<0.070		0.19	0.070	mg/Kg	☼	12/02/20 17:54	12/03/20 13:12	1
4-Bromophenyl phenyl ether	<0.050		0.19	0.050	mg/Kg	☼	12/02/20 17:54	12/03/20 13:12	1
Butyl benzyl phthalate	<0.073		0.19	0.073	mg/Kg	☼	12/02/20 17:54	12/03/20 13:12	1
Carbazole	<0.096		0.19	0.096	mg/Kg	☼	12/02/20 17:54	12/03/20 13:12	1
4-Chloroaniline	<0.18		0.77	0.18	mg/Kg	☼	12/02/20 17:54	12/03/20 13:12	1
4-Chloro-3-methylphenol	<0.13		0.38	0.13	mg/Kg	☼	12/02/20 17:54	12/03/20 13:12	1
2-Chloronaphthalene	<0.042		0.19	0.042	mg/Kg	☼	12/02/20 17:54	12/03/20 13:12	1
2-Chlorophenol	<0.065		0.19	0.065	mg/Kg	☼	12/02/20 17:54	12/03/20 13:12	1
4-Chlorophenyl phenyl ether	<0.045		0.19	0.045	mg/Kg	☼	12/02/20 17:54	12/03/20 13:12	1
Chrysene	0.027	J	0.038	0.010	mg/Kg	☼	12/02/20 17:54	12/03/20 13:12	1
Dibenz(a,h)anthracene	<0.0074		0.038	0.0074	mg/Kg	☼	12/02/20 17:54	12/03/20 13:12	1
Dibenzofuran	<0.045		0.19	0.045	mg/Kg	☼	12/02/20 17:54	12/03/20 13:12	1
1,2-Dichlorobenzene	<0.046		0.19	0.046	mg/Kg	☼	12/02/20 17:54	12/03/20 13:12	1
1,3-Dichlorobenzene	<0.043		0.19	0.043	mg/Kg	☼	12/02/20 17:54	12/03/20 13:12	1
1,4-Dichlorobenzene	<0.049		0.19	0.049	mg/Kg	☼	12/02/20 17:54	12/03/20 13:12	1
3,3'-Dichlorobenzidine	<0.054		0.19	0.054	mg/Kg	☼	12/02/20 17:54	12/03/20 13:12	1
2,4-Dichlorophenol	<0.091		0.38	0.091	mg/Kg	☼	12/02/20 17:54	12/03/20 13:12	1
Diethyl phthalate	<0.065		0.19	0.065	mg/Kg	☼	12/02/20 17:54	12/03/20 13:12	1
2,4-Dimethylphenol	<0.15		0.38	0.15	mg/Kg	☼	12/02/20 17:54	12/03/20 13:12	1
Dimethyl phthalate	<0.050		0.19	0.050	mg/Kg	☼	12/02/20 17:54	12/03/20 13:12	1
Di-n-butyl phthalate	<0.058		0.19	0.058	mg/Kg	☼	12/02/20 17:54	12/03/20 13:12	1
4,6-Dinitro-2-methylphenol	<0.31		0.77	0.31	mg/Kg	☼	12/02/20 17:54	12/03/20 13:12	1
2,4-Dinitrophenol	<0.67		0.77	0.67	mg/Kg	☼	12/02/20 17:54	12/03/20 13:12	1
2,4-Dinitrotoluene	<0.061		0.19	0.061	mg/Kg	☼	12/02/20 17:54	12/03/20 13:12	1
2,6-Dinitrotoluene	<0.075		0.19	0.075	mg/Kg	☼	12/02/20 17:54	12/03/20 13:12	1
Di-n-octyl phthalate	<0.062		0.19	0.062	mg/Kg	☼	12/02/20 17:54	12/03/20 13:12	1
Fluoranthene	0.031	J	0.038	0.0071	mg/Kg	☼	12/02/20 17:54	12/03/20 13:12	1
Fluorene	<0.0054		0.038	0.0054	mg/Kg	☼	12/02/20 17:54	12/03/20 13:12	1
Hexachlorobenzene	<0.0089		0.077	0.0089	mg/Kg	☼	12/02/20 17:54	12/03/20 13:12	1
Hexachlorobutadiene	<0.060		0.19	0.060	mg/Kg	☼	12/02/20 17:54	12/03/20 13:12	1
Hexachlorocyclopentadiene	<0.22		0.77	0.22	mg/Kg	☼	12/02/20 17:54	12/03/20 13:12	1
Hexachloroethane	<0.058		0.19	0.058	mg/Kg	☼	12/02/20 17:54	12/03/20 13:12	1
Indeno[1,2,3-cd]pyrene	0.017	J	0.038	0.0099	mg/Kg	☼	12/02/20 17:54	12/03/20 13:12	1
Isophorone	<0.043		0.19	0.043	mg/Kg	☼	12/02/20 17:54	12/03/20 13:12	1
2-Methylnaphthalene	<0.0070		0.077	0.0070	mg/Kg	☼	12/02/20 17:54	12/03/20 13:12	1
2-Methylphenol	<0.061		0.19	0.061	mg/Kg	☼	12/02/20 17:54	12/03/20 13:12	1
3 & 4 Methylphenol	<0.064		0.19	0.064	mg/Kg	☼	12/02/20 17:54	12/03/20 13:12	1
Naphthalene	<0.0059		0.038	0.0059	mg/Kg	☼	12/02/20 17:54	12/03/20 13:12	1
2-Nitroaniline	<0.052		0.19	0.052	mg/Kg	☼	12/02/20 17:54	12/03/20 13:12	1
3-Nitroaniline	<0.12		0.38	0.12	mg/Kg	☼	12/02/20 17:54	12/03/20 13:12	1
4-Nitroaniline	<0.16		0.38	0.16	mg/Kg	☼	12/02/20 17:54	12/03/20 13:12	1
Nitrobenzene	<0.0096		0.038	0.0096	mg/Kg	☼	12/02/20 17:54	12/03/20 13:12	1
2-Nitrophenol	<0.090		0.38	0.090	mg/Kg	☼	12/02/20 17:54	12/03/20 13:12	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191731-1

Client Sample ID: 3138V-2-B03 (0-1.9)

Lab Sample ID: 500-191731-4

Date Collected: 11/30/20 08:45

Matrix: Solid

Date Received: 11/30/20 17:15

Percent Solids: 85.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.36		0.77	0.36	mg/Kg	☼	12/02/20 17:54	12/03/20 13:12	1
N-Nitrosodi-n-propylamine	<0.047		0.077	0.047	mg/Kg	☼	12/02/20 17:54	12/03/20 13:12	1
N-Nitrosodiphenylamine	<0.045		0.19	0.045	mg/Kg	☼	12/02/20 17:54	12/03/20 13:12	1
2,2'-oxybis[1-chloropropane]	<0.044		0.19	0.044	mg/Kg	☼	12/02/20 17:54	12/03/20 13:12	1
Pentachlorophenol	<0.61		0.77	0.61	mg/Kg	☼	12/02/20 17:54	12/03/20 13:12	1
Phenanthrene	0.011	J	0.038	0.0053	mg/Kg	☼	12/02/20 17:54	12/03/20 13:12	1
Phenol	<0.085		0.19	0.085	mg/Kg	☼	12/02/20 17:54	12/03/20 13:12	1
Pyrene	0.032	J	0.038	0.0076	mg/Kg	☼	12/02/20 17:54	12/03/20 13:12	1
1,2,4-Trichlorobenzene	<0.041		0.19	0.041	mg/Kg	☼	12/02/20 17:54	12/03/20 13:12	1
2,4,5-Trichlorophenol	<0.087		0.38	0.087	mg/Kg	☼	12/02/20 17:54	12/03/20 13:12	1
2,4,6-Trichlorophenol	<0.13		0.38	0.13	mg/Kg	☼	12/02/20 17:54	12/03/20 13:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	51		43 - 145				12/02/20 17:54	12/03/20 13:12	1
2-Fluorophenol	57		31 - 166				12/02/20 17:54	12/03/20 13:12	1
Nitrobenzene-d5	52		37 - 147				12/02/20 17:54	12/03/20 13:12	1
Phenol-d5	61		30 - 153				12/02/20 17:54	12/03/20 13:12	1
Terphenyl-d14	64		42 - 157				12/02/20 17:54	12/03/20 13:12	1
2,4,6-Tribromophenol	51		31 - 143				12/02/20 17:54	12/03/20 13:12	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.80	J	1.1	0.22	mg/Kg	☼	12/03/20 17:53	12/04/20 11:01	1
Arsenic	6.2		0.56	0.19	mg/Kg	☼	12/03/20 17:53	12/04/20 11:01	1
Barium	47		0.56	0.064	mg/Kg	☼	12/03/20 17:53	12/04/20 11:01	1
Beryllium	0.71		0.22	0.052	mg/Kg	☼	12/03/20 17:53	12/04/20 11:01	1
Cadmium	0.37	B	0.11	0.020	mg/Kg	☼	12/03/20 17:53	12/04/20 11:01	1
Chromium	16		0.56	0.28	mg/Kg	☼	12/03/20 17:53	12/04/20 11:01	1
Cobalt	10		0.28	0.073	mg/Kg	☼	12/03/20 17:53	12/04/20 11:01	1
Copper	23		0.56	0.16	mg/Kg	☼	12/03/20 17:53	12/04/20 11:01	1
Iron	18000		11	5.8	mg/Kg	☼	12/03/20 17:53	12/04/20 11:01	1
Lead	30		0.28	0.13	mg/Kg	☼	12/03/20 17:53	12/04/20 11:01	1
Magnesium	30000		5.6	2.8	mg/Kg	☼	12/03/20 17:53	12/04/20 11:01	1
Calcium	75000		56	9.5	mg/Kg	☼	12/03/20 17:53	12/04/20 14:58	5
Manganese	450		0.56	0.081	mg/Kg	☼	12/03/20 17:53	12/04/20 11:01	1
Nickel	28		0.56	0.16	mg/Kg	☼	12/03/20 17:53	12/04/20 11:01	1
Selenium	<0.33		0.56	0.33	mg/Kg	☼	12/03/20 17:53	12/04/20 11:01	1
Silver	<0.072		0.28	0.072	mg/Kg	☼	12/03/20 17:53	12/04/20 11:01	1
Thallium	<0.28		0.56	0.28	mg/Kg	☼	12/03/20 17:53	12/04/20 11:01	1
Vanadium	23		0.28	0.066	mg/Kg	☼	12/03/20 17:53	12/04/20 11:01	1
Zinc	68		1.1	0.49	mg/Kg	☼	12/03/20 17:53	12/04/20 11:01	1
Potassium	2200		28	9.9	mg/Kg	☼	12/03/20 17:53	12/04/20 11:01	1
Sodium	1500		56	8.3	mg/Kg	☼	12/03/20 17:53	12/04/20 11:01	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		12/03/20 16:40	12/04/20 13:03	1
Barium	0.49	J	0.50	0.050	mg/L		12/03/20 16:40	12/04/20 13:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/03/20 16:40	12/04/20 13:03	1
Cadmium	0.0030	J	0.0050	0.0020	mg/L		12/03/20 16:40	12/04/20 13:03	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191731-1

Client Sample ID: 3138V-2-B03 (0-1.9)

Lab Sample ID: 500-191731-4

Date Collected: 11/30/20 08:45

Matrix: Solid

Date Received: 11/30/20 17:15

Percent Solids: 85.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	560		5.0	0.50	mg/L		12/03/20 16:40	12/04/20 13:03	1
Chromium	<0.010		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 13:03	1
Cobalt	<0.010		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 13:03	1
Copper	<0.010		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 13:03	1
Iron	<0.20	*	0.40	0.20	mg/L		12/03/20 16:40	12/04/20 13:03	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/03/20 16:40	12/04/20 13:03	1
Magnesium	38		2.5	0.50	mg/L		12/03/20 16:40	12/04/20 13:03	1
Manganese	3.1		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 13:03	1
Nickel	0.025		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 13:03	1
Potassium	1.8	J B *	2.5	0.50	mg/L		12/03/20 16:40	12/04/20 13:03	1
Selenium	<0.020		0.050	0.020	mg/L		12/03/20 16:40	12/04/20 13:03	1
Silver	<0.010		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 13:03	1
Vanadium	<0.010		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 13:03	1
Zinc	<0.020		0.50	0.020	mg/L		12/03/20 16:40	12/04/20 13:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.9		0.025	0.010	mg/L		12/03/20 16:43	12/04/20 14:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/03/20 16:40	12/04/20 17:05	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/03/20 16:40	12/04/20 17:05	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		12/04/20 08:15	12/07/20 08:26	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.018	0.0060	mg/Kg	⚠	12/03/20 13:15	12/04/20 11:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.14		0.28	0.14	mg/Kg	⚠	12/04/20 14:54	12/04/20 17:01	1
pH	8.5		0.2	0.2	SU			12/03/20 18:04	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191731-1

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.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery 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.
L	A negative instrument reading had an absolute value greater than the reporting limit
V	Serial Dilution exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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 - Lake County - WO 073

Job ID: 500-191731-1

GC/MS VOA

Prep Batch: 574850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191731-1	3138V-2-B01 (0-5)	Total/NA	Solid	5035	
500-191731-2	3138V-2-B01 (5-10.5)	Total/NA	Solid	5035	
500-191731-3	3138V-2-B02 (0-1.9)	Total/NA	Solid	5035	
500-191731-4	3138V-2-B03 (0-1.9)	Total/NA	Solid	5035	

Analysis Batch: 575078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191731-1	3138V-2-B01 (0-5)	Total/NA	Solid	8260B	574850
500-191731-2	3138V-2-B01 (5-10.5)	Total/NA	Solid	8260B	574850
500-191731-3	3138V-2-B02 (0-1.9)	Total/NA	Solid	8260B	574850
500-191731-4	3138V-2-B03 (0-1.9)	Total/NA	Solid	8260B	574850
MB 500-575078/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-575078/4	Lab Control Sample	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 575040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191731-1	3138V-2-B01 (0-5)	Total/NA	Solid	3541	
500-191731-2	3138V-2-B01 (5-10.5)	Total/NA	Solid	3541	
500-191731-3	3138V-2-B02 (0-1.9)	Total/NA	Solid	3541	
500-191731-4	3138V-2-B03 (0-1.9)	Total/NA	Solid	3541	
MB 500-575040/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-575040/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 575116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191731-1	3138V-2-B01 (0-5)	Total/NA	Solid	8270D	575040
500-191731-2	3138V-2-B01 (5-10.5)	Total/NA	Solid	8270D	575040
500-191731-3	3138V-2-B02 (0-1.9)	Total/NA	Solid	8270D	575040
500-191731-4	3138V-2-B03 (0-1.9)	Total/NA	Solid	8270D	575040
MB 500-575040/1-A	Method Blank	Total/NA	Solid	8270D	575040
LCS 500-575040/2-A	Lab Control Sample	Total/NA	Solid	8270D	575040

Metals

Leach Batch: 574996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191731-1	3138V-2-B01 (0-5)	TCLP	Solid	1311	
500-191731-2	3138V-2-B01 (5-10.5)	TCLP	Solid	1311	
500-191731-3	3138V-2-B02 (0-1.9)	TCLP	Solid	1311	
500-191731-4	3138V-2-B03 (0-1.9)	TCLP	Solid	1311	
LB 500-574996/1-B	Method Blank	TCLP	Solid	1311	
LB 500-574996/1-C	Method Blank	TCLP	Solid	1311	
LB 500-574996/2-B	Method Blank	TCLP	Solid	1311	

Leach Batch: 575000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191731-1	3138V-2-B01 (0-5)	SPLP East	Solid	1312	
500-191731-2	3138V-2-B01 (5-10.5)	SPLP East	Solid	1312	
500-191731-3	3138V-2-B02 (0-1.9)	SPLP East	Solid	1312	
500-191731-4	3138V-2-B03 (0-1.9)	SPLP East	Solid	1312	

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191731-1

Metals (Continued)

Leach Batch: 575000 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 500-575000/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 575136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191731-1	3138V-2-B01 (0-5)	Total/NA	Solid	7471B	
500-191731-2	3138V-2-B01 (5-10.5)	Total/NA	Solid	7471B	
500-191731-3	3138V-2-B02 (0-1.9)	Total/NA	Solid	7471B	
500-191731-4	3138V-2-B03 (0-1.9)	Total/NA	Solid	7471B	
MB 500-575136/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-575136/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Prep Batch: 575241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191731-1	3138V-2-B01 (0-5)	TCLP	Solid	3010A	574996
500-191731-2	3138V-2-B01 (5-10.5)	TCLP	Solid	3010A	574996
500-191731-3	3138V-2-B02 (0-1.9)	TCLP	Solid	3010A	574996
500-191731-4	3138V-2-B03 (0-1.9)	TCLP	Solid	3010A	574996
LB 500-574996/1-B	Method Blank	TCLP	Solid	3010A	574996
LCS 500-575241/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 575242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191731-1	3138V-2-B01 (0-5)	SPLP East	Solid	3010A	575000
500-191731-2	3138V-2-B01 (5-10.5)	SPLP East	Solid	3010A	575000
500-191731-3	3138V-2-B02 (0-1.9)	SPLP East	Solid	3010A	575000
500-191731-4	3138V-2-B03 (0-1.9)	SPLP East	Solid	3010A	575000
LB 500-575000/1-B	Method Blank	SPLP East	Solid	3010A	575000
LCS 500-575242/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 575262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191731-1	3138V-2-B01 (0-5)	Total/NA	Solid	3050B	
500-191731-2	3138V-2-B01 (5-10.5)	Total/NA	Solid	3050B	
500-191731-3	3138V-2-B02 (0-1.9)	Total/NA	Solid	3050B	
500-191731-4	3138V-2-B03 (0-1.9)	Total/NA	Solid	3050B	
MB 500-575262/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-575262/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-191731-1 MS	3138V-2-B01 (0-5)	Total/NA	Solid	3050B	
500-191731-1 MSD	3138V-2-B01 (0-5)	Total/NA	Solid	3050B	
500-191731-1 DU	3138V-2-B01 (0-5)	Total/NA	Solid	3050B	

Prep Batch: 575354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191731-1	3138V-2-B01 (0-5)	TCLP	Solid	7470A	574996
500-191731-2	3138V-2-B01 (5-10.5)	TCLP	Solid	7470A	574996
500-191731-3	3138V-2-B02 (0-1.9)	TCLP	Solid	7470A	574996
500-191731-4	3138V-2-B03 (0-1.9)	TCLP	Solid	7470A	574996
LB 500-574996/1-C	Method Blank	TCLP	Solid	7470A	574996
MB 500-575354/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-575354/14-A	Lab Control Sample	Total/NA	Solid	7470A	

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191731-1

Metals

Analysis Batch: 575400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191731-1	3138V-2-B01 (0-5)	Total/NA	Solid	7471B	575136
500-191731-2	3138V-2-B01 (5-10.5)	Total/NA	Solid	7471B	575136
500-191731-3	3138V-2-B02 (0-1.9)	Total/NA	Solid	7471B	575136
500-191731-4	3138V-2-B03 (0-1.9)	Total/NA	Solid	7471B	575136
MB 500-575136/12-A	Method Blank	Total/NA	Solid	7471B	575136
LCS 500-575136/13-A	Lab Control Sample	Total/NA	Solid	7471B	575136

Analysis Batch: 575404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191731-1	3138V-2-B01 (0-5)	Total/NA	Solid	6010B	575262
500-191731-2	3138V-2-B01 (5-10.5)	Total/NA	Solid	6010B	575262
500-191731-3	3138V-2-B02 (0-1.9)	Total/NA	Solid	6010B	575262
500-191731-4	3138V-2-B03 (0-1.9)	Total/NA	Solid	6010B	575262
MB 500-575262/1-A	Method Blank	Total/NA	Solid	6010B	575262
LCS 500-575262/2-A	Lab Control Sample	Total/NA	Solid	6010B	575262
500-191731-1 MS	3138V-2-B01 (0-5)	Total/NA	Solid	6010B	575262
500-191731-1 MSD	3138V-2-B01 (0-5)	Total/NA	Solid	6010B	575262
500-191731-1 DU	3138V-2-B01 (0-5)	Total/NA	Solid	6010B	575262

Analysis Batch: 575563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191731-1	3138V-2-B01 (0-5)	SPLP East	Solid	6010B	575242
500-191731-1	3138V-2-B01 (0-5)	TCLP	Solid	6010B	575241
500-191731-2	3138V-2-B01 (5-10.5)	SPLP East	Solid	6010B	575242
500-191731-2	3138V-2-B01 (5-10.5)	TCLP	Solid	6010B	575241
500-191731-3	3138V-2-B02 (0-1.9)	SPLP East	Solid	6010B	575242
500-191731-3	3138V-2-B02 (0-1.9)	TCLP	Solid	6010B	575241
500-191731-4	3138V-2-B03 (0-1.9)	SPLP East	Solid	6010B	575242
500-191731-4	3138V-2-B03 (0-1.9)	TCLP	Solid	6010B	575241
LB 500-574996/1-B	Method Blank	TCLP	Solid	6010B	575241
LB 500-575000/1-B	Method Blank	SPLP East	Solid	6010B	575242
LCS 500-575241/2-A	Lab Control Sample	Total/NA	Solid	6010B	575241
LCS 500-575242/2-A	Lab Control Sample	Total/NA	Solid	6010B	575242

Analysis Batch: 575581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191731-2	3138V-2-B01 (5-10.5)	Total/NA	Solid	6010B	575262
500-191731-3	3138V-2-B02 (0-1.9)	Total/NA	Solid	6010B	575262
500-191731-4	3138V-2-B03 (0-1.9)	Total/NA	Solid	6010B	575262
MRL 500-575581/15	Lab Control Sample	Total/NA	Solid	6010B	575262

Analysis Batch: 575593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191731-1	3138V-2-B01 (0-5)	TCLP	Solid	6020A	575241
500-191731-2	3138V-2-B01 (5-10.5)	TCLP	Solid	6020A	575241
500-191731-3	3138V-2-B02 (0-1.9)	TCLP	Solid	6020A	575241
500-191731-4	3138V-2-B03 (0-1.9)	TCLP	Solid	6020A	575241
LB 500-574996/1-B	Method Blank	TCLP	Solid	6020A	575241
LCS 500-575241/2-A	Lab Control Sample	Total/NA	Solid	6020A	575241

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191731-1

Metals

Analysis Batch: 575597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191731-1	3138V-2-B01 (0-5)	TCLP	Solid	7470A	575354
500-191731-2	3138V-2-B01 (5-10.5)	TCLP	Solid	7470A	575354
500-191731-3	3138V-2-B02 (0-1.9)	TCLP	Solid	7470A	575354
500-191731-4	3138V-2-B03 (0-1.9)	TCLP	Solid	7470A	575354
LB 500-574996/1-C	Method Blank	TCLP	Solid	7470A	575354
MB 500-575354/12-A	Method Blank	Total/NA	Solid	7470A	575354
LCS 500-575354/14-A	Lab Control Sample	Total/NA	Solid	7470A	575354

Analysis Batch: 575686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191731-2	3138V-2-B01 (5-10.5)	TCLP	Solid	6010B	575241

Prep Batch: 575696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191731-2	3138V-2-B01 (5-10.5)	TCLP	Solid	3010A	574996
LB 500-574996/2-B	Method Blank	TCLP	Solid	3010A	574996
LCS 500-575696/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 575870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191731-2	3138V-2-B01 (5-10.5)	TCLP	Solid	6010B	575696
LB 500-574996/2-B	Method Blank	TCLP	Solid	6010B	575696
LCS 500-575696/2-A	Lab Control Sample	Total/NA	Solid	6010B	575696

General Chemistry

Analysis Batch: 574939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191731-1	3138V-2-B01 (0-5)	Total/NA	Solid	Moisture	
500-191731-2	3138V-2-B01 (5-10.5)	Total/NA	Solid	Moisture	
500-191731-3	3138V-2-B02 (0-1.9)	Total/NA	Solid	Moisture	
500-191731-4	3138V-2-B03 (0-1.9)	Total/NA	Solid	Moisture	

Analysis Batch: 575386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191731-1	3138V-2-B01 (0-5)	Total/NA	Solid	9045D	
500-191731-2	3138V-2-B01 (5-10.5)	Total/NA	Solid	9045D	
500-191731-3	3138V-2-B02 (0-1.9)	Total/NA	Solid	9045D	
500-191731-4	3138V-2-B03 (0-1.9)	Total/NA	Solid	9045D	
LCS 500-575386/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-575386/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Prep Batch: 575405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191731-1	3138V-2-B01 (0-5)	Total/NA	Solid	9010C	
500-191731-2	3138V-2-B01 (5-10.5)	Total/NA	Solid	9010C	
500-191731-3	3138V-2-B02 (0-1.9)	Total/NA	Solid	9010C	
500-191731-4	3138V-2-B03 (0-1.9)	Total/NA	Solid	9010C	
MB 500-575405/1-A	Method Blank	Total/NA	Solid	9010C	
HLCS 500-575405/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 500-575405/3-A	Lab Control Sample	Total/NA	Solid	9010C	

Eurofins TestAmerica, Chicago

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191731-1

General Chemistry (Continued)

Prep Batch: 575405 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LLCS 500-575405/4-A	Lab Control Sample	Total/NA	Solid	9010C	

Analysis Batch: 575442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191731-1	3138V-2-B01 (0-5)	Total/NA	Solid	9012B	575405
500-191731-2	3138V-2-B01 (5-10.5)	Total/NA	Solid	9012B	575405
500-191731-3	3138V-2-B02 (0-1.9)	Total/NA	Solid	9012B	575405
500-191731-4	3138V-2-B03 (0-1.9)	Total/NA	Solid	9012B	575405
MB 500-575405/1-A	Method Blank	Total/NA	Solid	9012B	575405
HLCS 500-575405/2-A	Lab Control Sample	Total/NA	Solid	9012B	575405
LCS 500-575405/3-A	Lab Control Sample	Total/NA	Solid	9012B	575405
LLCS 500-575405/4-A	Lab Control Sample	Total/NA	Solid	9012B	575405

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191731-1

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)
500-191731-1	3138V-2-B01 (0-5)	101	99	86	88
500-191731-2	3138V-2-B01 (5-10.5)	98	99	88	87
500-191731-3	3138V-2-B02 (0-1.9)	96	103	88	89
500-191731-4	3138V-2-B03 (0-1.9)	100	102	88	90
LCS 500-575078/4	Lab Control Sample	93	92	76	92
MB 500-575078/7	Method Blank	95	94	80	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)
500-191731-1	3138V-2-B01 (0-5)	83	94	90	98	95	85
500-191731-2	3138V-2-B01 (5-10.5)	58	64	60	64	63	62
500-191731-3	3138V-2-B02 (0-1.9)	73	80	74	82	89	77
500-191731-4	3138V-2-B03 (0-1.9)	51	57	52	61	64	51
LCS 500-575040/2-A	Lab Control Sample	77	89	81	88	83	74
MB 500-575040/1-A	Method Blank	93	97	97	97	98	86

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 - Lake County - WO 073

Job ID: 500-191731-1

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

Lab Sample ID: MB 500-575078/7
Matrix: Solid
Analysis Batch: 575078

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			12/03/20 09:57	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg			12/03/20 09:57	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg			12/03/20 09:57	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg			12/03/20 09:57	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg			12/03/20 09:57	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			12/03/20 09:57	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg			12/03/20 09:57	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg			12/03/20 09:57	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg			12/03/20 09:57	1
Chloroethane	<0.0015		0.0050	0.0015	mg/Kg			12/03/20 09:57	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg			12/03/20 09:57	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg			12/03/20 09:57	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg			12/03/20 09:57	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg			12/03/20 09:57	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg			12/03/20 09:57	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg			12/03/20 09:57	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg			12/03/20 09:57	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg			12/03/20 09:57	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			12/03/20 09:57	1
1,3-Dichloropropane, Total	<0.00070		0.0020	0.00070	mg/Kg			12/03/20 09:57	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg			12/03/20 09:57	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg			12/03/20 09:57	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg			12/03/20 09:57	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg			12/03/20 09:57	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg			12/03/20 09:57	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg			12/03/20 09:57	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg			12/03/20 09:57	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg			12/03/20 09:57	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg			12/03/20 09:57	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg			12/03/20 09:57	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg			12/03/20 09:57	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg			12/03/20 09:57	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg			12/03/20 09:57	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg			12/03/20 09:57	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg			12/03/20 09:57	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg			12/03/20 09:57	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg			12/03/20 09:57	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	95		75 - 131		12/03/20 09:57	1
Dibromofluoromethane	94		75 - 126		12/03/20 09:57	1
1,2-Dichloroethane-d4 (Surr)	80		70 - 134		12/03/20 09:57	1
Toluene-d8 (Surr)	89		75 - 124		12/03/20 09:57	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191731-1

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

Lab Sample ID: LCS 500-575078/4
Matrix: Solid
Analysis Batch: 575078

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	0.0417		mg/Kg		83	40 - 150
Benzene	0.0500	0.0547		mg/Kg		109	70 - 125
Bromodichloromethane	0.0500	0.0530		mg/Kg		106	67 - 129
Bromoform	0.0500	0.0553		mg/Kg		111	68 - 136
Bromomethane	0.0500	0.0473		mg/Kg		95	70 - 130
2-Butanone (MEK)	0.0500	0.0360		mg/Kg		72	47 - 138
Carbon disulfide	0.0500	0.0514		mg/Kg		103	70 - 129
Carbon tetrachloride	0.0500	0.0632	*	mg/Kg		126	75 - 125
Chlorobenzene	0.0500	0.0574		mg/Kg		115	50 - 150
Chloroethane	0.0500	0.0594		mg/Kg		119	75 - 125
Chloroform	0.0500	0.0533		mg/Kg		107	57 - 135
Chloromethane	0.0500	0.0617		mg/Kg		123	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0535		mg/Kg		107	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0475		mg/Kg		95	70 - 125
Dibromochloromethane	0.0500	0.0557		mg/Kg		111	69 - 125
1,1-Dichloroethane	0.0500	0.0573		mg/Kg		115	70 - 125
1,2-Dichloroethane	0.0500	0.0474		mg/Kg		95	70 - 130
1,1-Dichloroethene	0.0500	0.0544		mg/Kg		109	70 - 120
1,2-Dichloropropane	0.0500	0.0565		mg/Kg		113	70 - 125
Ethylbenzene	0.0500	0.0595		mg/Kg		119	61 - 136
2-Hexanone	0.0500	0.0391		mg/Kg		78	48 - 146
Methylene Chloride	0.0500	0.0480		mg/Kg		96	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0390		mg/Kg		78	50 - 148
Methyl tert-butyl ether	0.0500	0.0396		mg/Kg		79	50 - 140
Styrene	0.0500	0.0573		mg/Kg		115	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0478		mg/Kg		96	70 - 122
Tetrachloroethene	0.0500	0.0615		mg/Kg		123	70 - 124
Toluene	0.0500	0.0567		mg/Kg		113	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0563		mg/Kg		113	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0445		mg/Kg		89	70 - 125
1,1,1-Trichloroethane	0.0500	0.0587		mg/Kg		117	70 - 128
1,1,2-Trichloroethane	0.0500	0.0507		mg/Kg		101	70 - 125
Trichloroethene	0.0500	0.0603		mg/Kg		121	70 - 125
Vinyl acetate	0.0500	0.0409		mg/Kg		82	40 - 153
Vinyl chloride	0.0500	0.0546		mg/Kg		109	70 - 125
Xylenes, Total	0.100	0.111		mg/Kg		111	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	93		75 - 131
Dibromofluoromethane	92		75 - 126
1,2-Dichloroethane-d4 (Surr)	76		70 - 134
Toluene-d8 (Surr)	92		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191731-1

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

Lab Sample ID: MB 500-575040/1-A

Matrix: Solid

Analysis Batch: 575116

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 575040

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	<0.0060		0.033	0.0060	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
Acenaphthylene	<0.0044		0.033	0.0044	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
Anthracene	<0.0056		0.033	0.0056	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
Benzo[a]anthracene	<0.0045		0.033	0.0045	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
Benzo[a]pyrene	<0.0064		0.033	0.0064	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
Benzo[b]fluoranthene	<0.0072		0.033	0.0072	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
Benzo[g,h,i]perylene	<0.011		0.033	0.011	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
Benzo[k]fluoranthene	<0.0098		0.033	0.0098	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
Bis(2-chloroethoxy)methane	<0.034		0.17	0.034	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
Bis(2-chloroethyl)ether	<0.050		0.17	0.050	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
Bis(2-ethylhexyl) phthalate	<0.061		0.17	0.061	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
4-Bromophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
Butyl benzyl phthalate	<0.063		0.17	0.063	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
Carbazole	<0.083		0.17	0.083	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
4-Chloroaniline	<0.16		0.67	0.16	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
4-Chloro-3-methylphenol	<0.11		0.33	0.11	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
2-Chloronaphthalene	<0.037		0.17	0.037	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
2-Chlorophenol	<0.057		0.17	0.057	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
4-Chlorophenyl phenyl ether	<0.039		0.17	0.039	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
Chrysene	<0.0091		0.033	0.0091	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
Dibenz(a,h)anthracene	<0.0064		0.033	0.0064	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
Dibenzofuran	<0.039		0.17	0.039	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
1,2-Dichlorobenzene	<0.040		0.17	0.040	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
1,3-Dichlorobenzene	<0.037		0.17	0.037	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
1,4-Dichlorobenzene	<0.043		0.17	0.043	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
3,3'-Dichlorobenzidine	<0.047		0.17	0.047	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
2,4-Dichlorophenol	<0.079		0.33	0.079	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
Diethyl phthalate	<0.056		0.17	0.056	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
2,4-Dimethylphenol	<0.13		0.33	0.13	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
Dimethyl phthalate	<0.043		0.17	0.043	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
Di-n-butyl phthalate	<0.051		0.17	0.051	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
4,6-Dinitro-2-methylphenol	<0.27		0.67	0.27	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
2,4-Dinitrophenol	<0.59		0.67	0.59	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
2,4-Dinitrotoluene	<0.053		0.17	0.053	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
2,6-Dinitrotoluene	<0.065		0.17	0.065	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
Di-n-octyl phthalate	<0.054		0.17	0.054	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
Fluoranthene	<0.0062		0.033	0.0062	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
Fluorene	<0.0047		0.033	0.0047	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
Hexachlorobenzene	<0.0077		0.067	0.0077	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
Hexachlorobutadiene	<0.052		0.17	0.052	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
Hexachlorocyclopentadiene	<0.19		0.67	0.19	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
Hexachloroethane	<0.051		0.17	0.051	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
Indeno[1,2,3-cd]pyrene	<0.0086		0.033	0.0086	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
Isophorone	<0.037		0.17	0.037	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
2-Methylnaphthalene	<0.0061		0.067	0.0061	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
2-Methylphenol	<0.053		0.17	0.053	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
3 & 4 Methylphenol	<0.055		0.17	0.055	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
Naphthalene	<0.0051		0.033	0.0051	mg/Kg		12/02/20 17:54	12/03/20 10:40	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191731-1

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

Lab Sample ID: MB 500-575040/1-A
Matrix: Solid
Analysis Batch: 575116

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575040

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	<0.045		0.17	0.045	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
3-Nitroaniline	<0.10		0.33	0.10	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
4-Nitroaniline	<0.14		0.33	0.14	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
Nitrobenzene	<0.0083		0.033	0.0083	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
2-Nitrophenol	<0.079		0.33	0.079	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
4-Nitrophenol	<0.32		0.67	0.32	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
N-Nitrosodi-n-propylamine	<0.041		0.067	0.041	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
N-Nitrosodiphenylamine	<0.039		0.17	0.039	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
2,2'-oxybis[1-chloropropane]	<0.039		0.17	0.039	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
Pentachlorophenol	<0.53		0.67	0.53	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
Phenanthrene	<0.0046		0.033	0.0046	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
Phenol	<0.074		0.17	0.074	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
Pyrene	<0.0066		0.033	0.0066	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
1,2,4-Trichlorobenzene	<0.036		0.17	0.036	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
2,4,5-Trichlorophenol	<0.076		0.33	0.076	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
2,4,6-Trichlorophenol	<0.11		0.33	0.11	mg/Kg		12/02/20 17:54	12/03/20 10:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	93		43 - 145	12/02/20 17:54	12/03/20 10:40	1
2-Fluorophenol	97		31 - 166	12/02/20 17:54	12/03/20 10:40	1
Nitrobenzene-d5	97		37 - 147	12/02/20 17:54	12/03/20 10:40	1
Phenol-d5	97		30 - 153	12/02/20 17:54	12/03/20 10:40	1
Terphenyl-d14	98		42 - 157	12/02/20 17:54	12/03/20 10:40	1
2,4,6-Tribromophenol	86		31 - 143	12/02/20 17:54	12/03/20 10:40	1

Lab Sample ID: LCS 500-575040/2-A
Matrix: Solid
Analysis Batch: 575116

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575040

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1.33	1.03		mg/Kg		77	65 - 124
Acenaphthylene	1.33	1.00		mg/Kg		75	68 - 120
Anthracene	1.33	1.07		mg/Kg		80	70 - 114
Benzo[a]anthracene	1.33	1.04		mg/Kg		78	67 - 122
Benzo[a]pyrene	1.33	1.12		mg/Kg		84	65 - 133
Benzo[b]fluoranthene	1.33	1.08		mg/Kg		81	69 - 129
Benzo[g,h,i]perylene	1.33	1.08		mg/Kg		81	72 - 131
Benzo[k]fluoranthene	1.33	1.09		mg/Kg		82	68 - 127
Bis(2-chloroethoxy)methane	1.33	1.09		mg/Kg		82	60 - 112
Bis(2-chloroethyl)ether	1.33	1.13		mg/Kg		85	55 - 111
Bis(2-ethylhexyl) phthalate	1.33	1.20		mg/Kg		90	72 - 131
4-Bromophenyl phenyl ether	1.33	1.09		mg/Kg		82	68 - 118
Butyl benzyl phthalate	1.33	1.17		mg/Kg		88	71 - 129
Carbazole	1.33	1.18		mg/Kg		89	65 - 142
4-Chloroaniline	1.33	0.980		mg/Kg		74	30 - 150
4-Chloro-3-methylphenol	1.33	1.07		mg/Kg		80	65 - 122
2-Chloronaphthalene	1.33	1.05		mg/Kg		78	69 - 114
2-Chlorophenol	1.33	1.02		mg/Kg		77	64 - 110

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191731-1

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

Lab Sample ID: LCS 500-575040/2-A

Matrix: Solid

Analysis Batch: 575116

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 575040

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorophenyl phenyl ether	1.33	1.00		mg/Kg		75	62 - 119
Chrysene	1.33	1.10		mg/Kg		82	63 - 120
Dibenz(a,h)anthracene	1.33	1.11		mg/Kg		83	64 - 131
Dibenzofuran	1.33	1.02		mg/Kg		77	66 - 115
1,2-Dichlorobenzene	1.33	0.972		mg/Kg		73	62 - 110
1,3-Dichlorobenzene	1.33	0.940		mg/Kg		71	65 - 124
1,4-Dichlorobenzene	1.33	0.929		mg/Kg		70	61 - 110
3,3'-Dichlorobenzidine	1.33	0.888		mg/Kg		67	35 - 128
2,4-Dichlorophenol	1.33	1.07		mg/Kg		80	58 - 120
Diethyl phthalate	1.33	1.03		mg/Kg		78	58 - 120
2,4-Dimethylphenol	1.33	1.08		mg/Kg		81	60 - 110
Dimethyl phthalate	1.33	1.03		mg/Kg		77	69 - 116
Di-n-butyl phthalate	1.33	1.14		mg/Kg		86	65 - 120
4,6-Dinitro-2-methylphenol	2.67	1.02		mg/Kg		38	10 - 110
2,4-Dinitrophenol	2.67	0.684		mg/Kg		26	10 - 100
2,4-Dinitrotoluene	1.33	1.07		mg/Kg		80	69 - 124
2,6-Dinitrotoluene	1.33	1.04		mg/Kg		78	70 - 123
Di-n-octyl phthalate	1.33	1.15		mg/Kg		87	68 - 134
Fluoranthene	1.33	1.07		mg/Kg		80	62 - 120
Fluorene	1.33	1.01		mg/Kg		76	62 - 120
Hexachlorobenzene	1.33	0.968		mg/Kg		73	63 - 124
Hexachlorobutadiene	1.33	0.953		mg/Kg		71	56 - 120
Hexachlorocyclopentadiene	1.33	0.822		mg/Kg		62	10 - 133
Hexachloroethane	1.33	0.995		mg/Kg		75	60 - 114
Indeno[1,2,3-cd]pyrene	1.33	1.11		mg/Kg		83	68 - 130
Isophorone	1.33	1.08		mg/Kg		81	55 - 110
2-Methylnaphthalene	1.33	1.01		mg/Kg		76	69 - 112
2-Methylphenol	1.33	1.02		mg/Kg		77	60 - 120
3 & 4 Methylphenol	1.33	1.10		mg/Kg		83	57 - 120
Naphthalene	1.33	0.995		mg/Kg		75	63 - 110
2-Nitroaniline	1.33	1.16		mg/Kg		87	57 - 124
3-Nitroaniline	1.33	0.871		mg/Kg		65	40 - 122
4-Nitroaniline	1.33	1.04		mg/Kg		78	60 - 160
Nitrobenzene	1.33	1.06		mg/Kg		80	60 - 116
2-Nitrophenol	1.33	1.01		mg/Kg		76	60 - 120
4-Nitrophenol	2.67	2.31		mg/Kg		87	30 - 122
N-Nitrosodi-n-propylamine	1.33	1.14		mg/Kg		85	56 - 118
N-Nitrosodiphenylamine	1.33	1.12		mg/Kg		84	65 - 112
2,2'-oxybis[1-chloropropane]	1.33	1.17		mg/Kg		88	40 - 124
Pentachlorophenol	2.67	1.87		mg/Kg		70	13 - 112
Phenanthrene	1.33	1.06		mg/Kg		80	62 - 120
Phenol	1.33	1.10		mg/Kg		82	56 - 122
Pyrene	1.33	1.08		mg/Kg		81	61 - 128
1,2,4-Trichlorobenzene	1.33	0.994		mg/Kg		75	66 - 117
2,4,5-Trichlorophenol	1.33	1.06		mg/Kg		79	50 - 120
2,4,6-Trichlorophenol	1.33	1.08		mg/Kg		81	57 - 120

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191731-1

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

Lab Sample ID: LCS 500-575040/2-A
Matrix: Solid
Analysis Batch: 575116

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575040

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	77		43 - 145
2-Fluorophenol	89		31 - 166
Nitrobenzene-d5	81		37 - 147
Phenol-d5	88		30 - 153
Terphenyl-d14	83		42 - 157
2,4,6-Tribromophenol	74		31 - 143

Method: 6010B - Metals (ICP)

Lab Sample ID: LCS 500-575241/2-A
Matrix: Solid
Analysis Batch: 575563

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575241

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Arsenic	0.100	0.111		mg/L		111	80 - 120
Barium	0.500	0.509		mg/L		102	80 - 120
Beryllium	0.0500	0.0498		mg/L		100	80 - 120
Cadmium	0.0500	0.0575		mg/L		115	80 - 120
Chromium	0.200	0.202		mg/L		101	80 - 120
Cobalt	0.500	0.552		mg/L		110	80 - 120
Copper	0.250	0.277		mg/L		111	80 - 120
Lead	0.100	0.101		mg/L		101	80 - 120
Magnesium	10.0	9.57		mg/L		96	80 - 120
Calcium	10.0	10.5		mg/L		105	80 - 120
Manganese	0.500	0.493		mg/L		99	80 - 120
Nickel	0.500	0.547		mg/L		109	80 - 120
Selenium	0.100	0.107		mg/L		107	80 - 120
Silver	0.0500	0.0551		mg/L		110	80 - 120
Vanadium	0.500	0.513		mg/L		103	80 - 120
Zinc	0.500	0.595		mg/L		119	80 - 120

Lab Sample ID: LCS 500-575242/2-A
Matrix: Solid
Analysis Batch: 575563

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575242

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Manganese	0.500	0.477		mg/L		95	80 - 120

Lab Sample ID: MB 500-575262/1-A
Matrix: Solid
Analysis Batch: 575404

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575262

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.39		2.0	0.39	mg/Kg		12/03/20 17:53	12/04/20 10:32	1
Arsenic	<0.34		1.0	0.34	mg/Kg		12/03/20 17:53	12/04/20 10:32	1
Barium	<0.11		1.0	0.11	mg/Kg		12/03/20 17:53	12/04/20 10:32	1
Beryllium	<0.093		0.40	0.093	mg/Kg		12/03/20 17:53	12/04/20 10:32	1
Cadmium	0.0701	J	0.20	0.036	mg/Kg		12/03/20 17:53	12/04/20 10:32	1
Chromium	<0.50		1.0	0.50	mg/Kg		12/03/20 17:53	12/04/20 10:32	1

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191731-1

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

Lab Sample ID: MB 500-575262/1-A
Matrix: Solid
Analysis Batch: 575404

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575262

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.13		0.50	0.13	mg/Kg		12/03/20 17:53	12/04/20 10:32	1
Copper	<0.28		1.0	0.28	mg/Kg		12/03/20 17:53	12/04/20 10:32	1
Iron	<10		20	10	mg/Kg		12/03/20 17:53	12/04/20 10:32	1
Lead	<0.23		0.50	0.23	mg/Kg		12/03/20 17:53	12/04/20 10:32	1
Magnesium	<5.0		10	5.0	mg/Kg		12/03/20 17:53	12/04/20 10:32	1
Calcium	<3.4		20	3.4	mg/Kg		12/03/20 17:53	12/04/20 10:32	1
Manganese	<0.15		1.0	0.15	mg/Kg		12/03/20 17:53	12/04/20 10:32	1
Nickel	<0.29		1.0	0.29	mg/Kg		12/03/20 17:53	12/04/20 10:32	1
Selenium	<0.59		1.0	0.59	mg/Kg		12/03/20 17:53	12/04/20 10:32	1
Silver	<0.13		0.50	0.13	mg/Kg		12/03/20 17:53	12/04/20 10:32	1
Thallium	<0.50		1.0	0.50	mg/Kg		12/03/20 17:53	12/04/20 10:32	1
Vanadium	<0.12		0.50	0.12	mg/Kg		12/03/20 17:53	12/04/20 10:32	1
Zinc	<0.88		2.0	0.88	mg/Kg		12/03/20 17:53	12/04/20 10:32	1
Potassium	<18		50	18	mg/Kg		12/03/20 17:53	12/04/20 10:32	1
Sodium	<15		100	15	mg/Kg		12/03/20 17:53	12/04/20 10:32	1

Lab Sample ID: LCS 500-575262/2-A
Matrix: Solid
Analysis Batch: 575404

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575262

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	42.7		mg/Kg		85	80 - 120
Arsenic	10.0	9.23		mg/Kg		92	80 - 120
Barium	200	190		mg/Kg		95	80 - 120
Beryllium	5.00	4.59		mg/Kg		92	80 - 120
Cadmium	5.00	4.69		mg/Kg		94	80 - 120
Chromium	20.0	18.7		mg/Kg		94	80 - 120
Cobalt	50.0	48.1		mg/Kg		96	80 - 120
Copper	25.0	23.6		mg/Kg		94	80 - 120
Iron	100	99.7		mg/Kg		100	80 - 120
Lead	10.0	9.45		mg/Kg		94	80 - 120
Magnesium	1000	911		mg/Kg		91	80 - 120
Calcium	1000	939		mg/Kg		94	80 - 120
Manganese	50.0	46.4		mg/Kg		93	80 - 120
Nickel	50.0	47.8		mg/Kg		96	80 - 120
Selenium	10.0	8.25		mg/Kg		83	80 - 120
Silver	5.00	4.46		mg/Kg		89	80 - 120
Thallium	10.0	9.51		mg/Kg		95	80 - 120
Vanadium	50.0	48.1		mg/Kg		96	80 - 120
Zinc	50.0	49.5		mg/Kg		99	80 - 120
Potassium	1000	952		mg/Kg		95	80 - 120
Sodium	1000	973		mg/Kg		97	80 - 120

Lab Sample ID: 500-191731-1 MS
Matrix: Solid
Analysis Batch: 575404

Client Sample ID: 3138V-2-B01 (0-5)
Prep Type: Total/NA
Prep Batch: 575262

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.83	J F1	30.2	5.58	F1	mg/Kg	☼	16	75 - 125

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191731-1

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

Lab Sample ID: 500-191731-1 MS
Matrix: Solid
Analysis Batch: 575404

Client Sample ID: 3138V-2-B01 (0-5)
Prep Type: Total/NA
Prep Batch: 575262

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Arsenic	9.8		6.04	14.3		mg/Kg	☼	75	75 - 125
Barium	51	V	121	142		mg/Kg	☼	76	75 - 125
Beryllium	0.84		3.02	3.21		mg/Kg	☼	79	75 - 125
Cadmium	0.41	B	3.02	2.74		mg/Kg	☼	77	75 - 125
Chromium	18	V	12.1	27.8		mg/Kg	☼	79	75 - 125
Cobalt	14		30.2	41.4		mg/Kg	☼	90	75 - 125
Copper	29	F1 V	15.1	39.3	F1	mg/Kg	☼	68	75 - 125
Iron	27000	V	60.4	27300	4	mg/Kg	☼	601	75 - 125
Lead	28	V	6.04	31.9	4	mg/Kg	☼	62	75 - 125
Magnesium	21000	V	604	19400	4	mg/Kg	☼	-246	75 - 125
Calcium	29000	V	604	26100	4	mg/Kg	☼	-546	75 - 125
Manganese	620	V	30.2	573	4	mg/Kg	☼	-146	75 - 125
Nickel	39		30.2	63.4		mg/Kg	☼	81	75 - 125
Selenium	<0.35	F1	6.04	3.97	F1	mg/Kg	☼	66	75 - 125
Silver	<0.076	F1	3.02	2.04	F1	mg/Kg	☼	67	75 - 125
Thallium	<0.29		6.04	5.06		mg/Kg	☼	84	75 - 125
Vanadium	27	V	30.2	52.9		mg/Kg	☼	85	75 - 125
Zinc	75		30.2	103		mg/Kg	☼	93	75 - 125
Potassium	2200	F1 V	604	3640	F1	mg/Kg	☼	241	75 - 125
Sodium	1400	F1 V	604	1850	F1	mg/Kg	☼	69	75 - 125

Lab Sample ID: 500-191731-1 MSD
Matrix: Solid
Analysis Batch: 575404

Client Sample ID: 3138V-2-B01 (0-5)
Prep Type: Total/NA
Prep Batch: 575262

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Antimony	0.83	J F1	28.0	5.47	F1	mg/Kg	☼	17	75 - 125	2	20
Arsenic	9.8		5.61	15.2		mg/Kg	☼	98	75 - 125	7	20
Barium	51	V	112	136		mg/Kg	☼	76	75 - 125	4	20
Beryllium	0.84		2.80	3.06		mg/Kg	☼	80	75 - 125	5	20
Cadmium	0.41	B	2.80	2.61		mg/Kg	☼	78	75 - 125	5	20
Chromium	18	V	11.2	27.2		mg/Kg	☼	81	75 - 125	2	20
Cobalt	14		28.0	40.6		mg/Kg	☼	94	75 - 125	2	20
Copper	29	F1 V	14.0	41.2		mg/Kg	☼	86	75 - 125	5	20
Iron	27000	V	56.1	29600	E 4	mg/Kg	☼	4694	75 - 125	8	20
Lead	28	V	5.61	36.7	4	mg/Kg	☼	153	75 - 125	14	20
Magnesium	21000	V	561	19800	4	mg/Kg	☼	-190	75 - 125	2	20
Calcium	29000	V	561	26900	4	mg/Kg	☼	-452	75 - 125	3	20
Manganese	620	V	28.0	586	4	mg/Kg	☼	-112	75 - 125	2	20
Nickel	39		28.0	63.7		mg/Kg	☼	88	75 - 125	0	20
Selenium	<0.35	F1	5.61	3.94	F1	mg/Kg	☼	70	75 - 125	1	20
Silver	<0.076	F1	2.80	1.92	F1	mg/Kg	☼	69	75 - 125	6	20
Thallium	<0.29		5.61	4.50		mg/Kg	☼	80	75 - 125	12	20
Vanadium	27	V	28.0	54.1		mg/Kg	☼	95	75 - 125	2	20
Zinc	75		28.0	105		mg/Kg	☼	104	75 - 125	1	20
Potassium	2200	F1 V	561	3490	F1	mg/Kg	☼	234	75 - 125	4	20
Sodium	1400	F1 V	561	1810	F1	mg/Kg	☼	68	75 - 125	2	20

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191731-1

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

Lab Sample ID: 500-191731-1 DU
Matrix: Solid
Analysis Batch: 575404

Client Sample ID: 3138V-2-B01 (0-5)
Prep Type: Total/NA
Prep Batch: 575262

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Antimony	0.83	J F1	0.722	J	mg/Kg	☼	14	20
Arsenic	9.8		8.18		mg/Kg	☼	18	20
Barium	51	V	51.6		mg/Kg	☼	2	20
Beryllium	0.84		0.861		mg/Kg	☼	3	20
Cadmium	0.41	B	0.385		mg/Kg	☼	5	20
Chromium	18	V	19.2		mg/Kg	☼	5	20
Cobalt	14		14.0		mg/Kg	☼	2	20
Copper	29	F1 V	27.1		mg/Kg	☼	7	20
Iron	27000	V	25000		mg/Kg	☼	7	20
Lead	28	V	23.5		mg/Kg	☼	18	20
Magnesium	21000	V	24200		mg/Kg	☼	15	20
Calcium	29000	V	34300		mg/Kg	☼	15	20
Manganese	620	V	598		mg/Kg	☼	3	20
Nickel	39		37.7		mg/Kg	☼	3	20
Selenium	<0.35	F1	<0.35		mg/Kg	☼	NC	20
Silver	<0.076	F1	<0.078	L	mg/Kg	☼	NC	20
Thallium	<0.29		<0.30		mg/Kg	☼	NC	20
Vanadium	27	V	25.7		mg/Kg	☼	6	20
Zinc	75		71.7		mg/Kg	☼	5	20
Potassium	2200	F1 V	2460		mg/Kg	☼	12	20
Sodium	1400	F1 V	1540		mg/Kg	☼	7	20

Lab Sample ID: MRL 500-575581/15
Matrix: Solid
Analysis Batch: 575581

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

Analyte	Spike Added	MRL	MRL	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Antimony	0.0200	0.0196	J	mg/L		98	70 - 130
Arsenic	0.0100	0.0107		mg/L		107	70 - 130
Barium	0.0100	0.00877	J	mg/L		88	70 - 130
Beryllium	0.00400	0.00376	J	mg/L		94	70 - 130
Cadmium	0.00200	0.00205		mg/L		102	70 - 130
Chromium	0.0100	0.00921	J	mg/L		92	70 - 130
Cobalt	0.00500	0.00491	J	mg/L		98	70 - 130
Copper	0.0100	0.0105		mg/L		105	70 - 130
Iron	0.200	0.182	J	mg/L		91	70 - 130
Lead	0.00500	0.00443	J	mg/L		89	70 - 130
Magnesium	0.100	0.104		mg/L		104	70 - 130
Calcium	0.200	0.201		mg/L		100	70 - 130
Manganese	0.0100	0.00939	J	mg/L		94	70 - 130
Nickel	0.0100	0.00956	J	mg/L		96	70 - 130
Selenium	0.0100	0.0119		mg/L		119	70 - 130
Silver	0.00500	0.00565		mg/L		113	70 - 130
Thallium	0.0100	0.00948	J	mg/L		95	70 - 130
Vanadium	0.00500	0.00434	J	mg/L		87	70 - 130
Zinc	0.0200	0.0199	J	mg/L		99	70 - 130
Potassium	0.500	0.401	J	mg/L		80	70 - 130
Sodium	1.00	1.00		mg/L		100	70 - 130

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191731-1

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

Lab Sample ID: LCS 500-575696/2-A
Matrix: Solid
Analysis Batch: 575870

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575696

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Iron	1.00	1.01		mg/L		101	80 - 120
Potassium	10.0	11.7		mg/L		117	80 - 120

Lab Sample ID: LB 500-574996/1-B
Matrix: Solid
Analysis Batch: 575563

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 575241

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		12/03/20 16:40	12/04/20 12:47	1
Barium	<0.050		0.50	0.050	mg/L		12/03/20 16:40	12/04/20 12:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/03/20 16:40	12/04/20 12:47	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		12/03/20 16:40	12/04/20 12:47	1
Chromium	<0.010		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 12:47	1
Cobalt	<0.010		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 12:47	1
Copper	<0.010		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 12:47	1
Iron	<0.20		0.40	0.20	mg/L		12/03/20 16:40	12/04/20 12:47	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/03/20 16:40	12/04/20 12:47	1
Magnesium	<0.50		2.5	0.50	mg/L		12/03/20 16:40	12/04/20 12:47	1
Calcium	<0.50		5.0	0.50	mg/L		12/03/20 16:40	12/04/20 12:47	1
Manganese	<0.010		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 12:47	1
Nickel	<0.010		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 12:47	1
Selenium	<0.020		0.050	0.020	mg/L		12/03/20 16:40	12/04/20 12:47	1
Silver	<0.010		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 12:47	1
Vanadium	<0.010		0.025	0.010	mg/L		12/03/20 16:40	12/04/20 12:47	1
Zinc	0.0301	J	0.50	0.020	mg/L		12/03/20 16:40	12/04/20 12:47	1
Potassium	0.504	J	2.5	0.50	mg/L		12/03/20 16:40	12/04/20 12:47	1

Lab Sample ID: LB 500-574996/2-B
Matrix: Solid
Analysis Batch: 575870

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 575696

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.40	0.20	mg/L		12/07/20 17:01	12/08/20 11:36	1
Potassium	<0.50		2.5	0.50	mg/L		12/07/20 17:01	12/08/20 11:36	1

Lab Sample ID: LB 500-575000/1-B
Matrix: Solid
Analysis Batch: 575563

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 575242

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.010		0.025	0.010	mg/L		12/03/20 16:43	12/04/20 14:09	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-575241/2-A
Matrix: Solid
Analysis Batch: 575593

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575241

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.492		mg/L		98	80 - 120

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191731-1

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

Lab Sample ID: LCS 500-575241/2-A
Matrix: Solid
Analysis Batch: 575593

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575241

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	0.100	0.0932		mg/L		93	80 - 120

Lab Sample ID: LB 500-574996/1-B
Matrix: Solid
Analysis Batch: 575593

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 575241

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/03/20 16:40	12/04/20 16:55	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/03/20 16:40	12/04/20 16:55	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-575354/12-A
Matrix: Solid
Analysis Batch: 575597

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575354

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/04/20 08:15	12/07/20 07:52	1

Lab Sample ID: LCS 500-575354/14-A
Matrix: Solid
Analysis Batch: 575597

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575354

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00205		mg/L		102	80 - 120

Lab Sample ID: LB 500-574996/1-C
Matrix: Solid
Analysis Batch: 575597

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 575354

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/04/20 08:15	12/07/20 07:54	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-575136/12-A
Matrix: Solid
Analysis Batch: 575400

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575136

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		12/03/20 13:15	12/04/20 11:03	1

Lab Sample ID: LCS 500-575136/13-A
Matrix: Solid
Analysis Batch: 575400

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575136

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.151		mg/Kg		91	80 - 120

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191731-1

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

Lab Sample ID: MB 500-575405/1-A
Matrix: Solid
Analysis Batch: 575442

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575405

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.12		0.24	0.12	mg/Kg		12/04/20 14:54	12/04/20 16:35	1

Lab Sample ID: HLCS 500-575405/2-A
Matrix: Solid
Analysis Batch: 575442

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575405

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	12.0	12.0		mg/Kg		100	90 - 110

Lab Sample ID: LCS 500-575405/3-A
Matrix: Solid
Analysis Batch: 575442

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575405

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	2.40	2.55		mg/Kg		106	85 - 115

Lab Sample ID: LLCS 500-575405/4-A
Matrix: Solid
Analysis Batch: 575442

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575405

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	1.20	1.25		mg/Kg		104	75 - 125

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191731-1

Client Sample ID: 3138V-2-B01 (0-5)

Lab Sample ID: 500-191731-1

Date Collected: 11/30/20 10:00

Matrix: Solid

Date Received: 11/30/20 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			575000	12/02/20 13:45	CMS	TAL CHI
SPLP East	Prep	3010A			575242	12/03/20 16:43	BDE	TAL CHI
SPLP East	Analysis	6010B		1	575563	12/04/20 14:16	EEN	TAL CHI
TCLP	Leach	1311			574996	12/02/20 13:45	CMS	TAL CHI
TCLP	Prep	3010A			575241	12/03/20 16:40	BDE	TAL CHI
TCLP	Analysis	6010B		1	575563	12/04/20 12:53	EEN	TAL CHI
TCLP	Leach	1311			574996	12/02/20 13:45	CMS	TAL CHI
TCLP	Prep	3010A			575241	12/03/20 16:40	BDE	TAL CHI
TCLP	Analysis	6020A		1	575593	12/04/20 16:59	FXG	TAL CHI
TCLP	Leach	1311			574996	12/02/20 13:45	CMS	TAL CHI
TCLP	Prep	7470A			575354	12/04/20 08:15	MJG	TAL CHI
TCLP	Analysis	7470A		1	575597	12/07/20 08:20	MJG	TAL CHI
Total/NA	Analysis	9045D		1	575386	12/03/20 17:57	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	574939	12/02/20 11:11	LWN	TAL CHI

Client Sample ID: 3138V-2-B01 (0-5)

Lab Sample ID: 500-191731-1

Date Collected: 11/30/20 10:00

Matrix: Solid

Date Received: 11/30/20 17:15

Percent Solids: 82.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			574850	12/01/20 17:52	WRE	TAL CHI
Total/NA	Analysis	8260B		1	575078	12/03/20 13:46	PMF	TAL CHI
Total/NA	Prep	3541			575040	12/02/20 17:54	ACK	TAL CHI
Total/NA	Analysis	8270D		1	575116	12/03/20 12:46	AJD	TAL CHI
Total/NA	Prep	3050B			575262	12/03/20 17:53	BDE	TAL CHI
Total/NA	Analysis	6010B		1	575404	12/04/20 10:39	JJB	TAL CHI
Total/NA	Prep	7471B			575136	12/03/20 13:15	MJG	TAL CHI
Total/NA	Analysis	7471B		1	575400	12/04/20 11:52	MJG	TAL CHI
Total/NA	Prep	9010C			575405	12/04/20 14:54	PSP	TAL CHI
Total/NA	Analysis	9012B		1	575442	12/04/20 16:56	PSP	TAL CHI

Client Sample ID: 3138V-2-B01 (5-10.5)

Lab Sample ID: 500-191731-2

Date Collected: 11/30/20 10:05

Matrix: Solid

Date Received: 11/30/20 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			575000	12/02/20 13:45	CMS	TAL CHI
SPLP East	Prep	3010A			575242	12/03/20 16:43	BDE	TAL CHI
SPLP East	Analysis	6010B		1	575563	12/04/20 14:19	EEN	TAL CHI
TCLP	Leach	1311			574996	12/02/20 13:45	CMS	TAL CHI
TCLP	Prep	3010A			575241	12/03/20 16:40	BDE	TAL CHI
TCLP	Analysis	6010B		1	575563	12/04/20 12:57	EEN	TAL CHI
TCLP	Leach	1311			574996	12/02/20 13:45	CMS	TAL CHI
TCLP	Prep	3010A			575696	12/07/20 17:01	BDE	TAL CHI
TCLP	Analysis	6010B		1	575870	12/08/20 11:39	EEN	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191731-1

Client Sample ID: 3138V-2-B01 (5-10.5)

Lab Sample ID: 500-191731-2

Date Collected: 11/30/20 10:05

Matrix: Solid

Date Received: 11/30/20 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			574996	12/02/20 13:45	CMS	TAL CHI
TCLP	Prep	3010A			575241	12/03/20 16:40	BDE	TAL CHI
TCLP	Analysis	6010B		5	575686	12/07/20 14:32	JJB	TAL CHI
TCLP	Leach	1311			574996	12/02/20 13:45	CMS	TAL CHI
TCLP	Prep	3010A			575241	12/03/20 16:40	BDE	TAL CHI
TCLP	Analysis	6020A		1	575593	12/04/20 17:01	FXG	TAL CHI
TCLP	Leach	1311			574996	12/02/20 13:45	CMS	TAL CHI
TCLP	Prep	7470A			575354	12/04/20 08:15	MJG	TAL CHI
TCLP	Analysis	7470A		1	575597	12/07/20 08:22	MJG	TAL CHI
Total/NA	Analysis	9045D		1	575386	12/03/20 17:59	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	574939	12/02/20 11:11	LWN	TAL CHI

Client Sample ID: 3138V-2-B01 (5-10.5)

Lab Sample ID: 500-191731-2

Date Collected: 11/30/20 10:05

Matrix: Solid

Date Received: 11/30/20 17:15

Percent Solids: 79.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			574850	12/01/20 17:52	WRE	TAL CHI
Total/NA	Analysis	8260B		1	575078	12/03/20 14:11	PMF	TAL CHI
Total/NA	Prep	3541			575040	12/02/20 17:54	ACK	TAL CHI
Total/NA	Analysis	8270D		1	575116	12/03/20 11:31	AJD	TAL CHI
Total/NA	Prep	3050B			575262	12/03/20 17:53	BDE	TAL CHI
Total/NA	Analysis	6010B		1	575404	12/04/20 10:55	JJB	TAL CHI
Total/NA	Prep	3050B			575262	12/03/20 17:53	BDE	TAL CHI
Total/NA	Analysis	6010B		5	575581	12/04/20 14:51	JJB	TAL CHI
Total/NA	Prep	7471B			575136	12/03/20 13:15	MJG	TAL CHI
Total/NA	Analysis	7471B		1	575400	12/04/20 11:55	MJG	TAL CHI
Total/NA	Prep	9010C			575405	12/04/20 14:54	PSP	TAL CHI
Total/NA	Analysis	9012B		1	575442	12/04/20 16:58	PSP	TAL CHI

Client Sample ID: 3138V-2-B02 (0-1.9)

Lab Sample ID: 500-191731-3

Date Collected: 11/30/20 09:10

Matrix: Solid

Date Received: 11/30/20 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			575000	12/02/20 13:45	CMS	TAL CHI
SPLP East	Prep	3010A			575242	12/03/20 16:43	BDE	TAL CHI
SPLP East	Analysis	6010B		1	575563	12/04/20 14:22	EEN	TAL CHI
TCLP	Leach	1311			574996	12/02/20 13:45	CMS	TAL CHI
TCLP	Prep	3010A			575241	12/03/20 16:40	BDE	TAL CHI
TCLP	Analysis	6010B		1	575563	12/04/20 13:00	EEN	TAL CHI
TCLP	Leach	1311			574996	12/02/20 13:45	CMS	TAL CHI
TCLP	Prep	3010A			575241	12/03/20 16:40	BDE	TAL CHI
TCLP	Analysis	6020A		1	575593	12/04/20 17:03	FXG	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191731-1

Client Sample ID: 3138V-2-B02 (0-1.9)

Lab Sample ID: 500-191731-3

Date Collected: 11/30/20 09:10

Matrix: Solid

Date Received: 11/30/20 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			574996	12/02/20 13:45	CMS	TAL CHI
TCLP	Prep	7470A			575354	12/04/20 08:15	MJG	TAL CHI
TCLP	Analysis	7470A		1	575597	12/07/20 08:24	MJG	TAL CHI
Total/NA	Analysis	9045D		1	575386	12/03/20 18:02	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	574939	12/02/20 11:11	LWN	TAL CHI

Client Sample ID: 3138V-2-B02 (0-1.9)

Lab Sample ID: 500-191731-3

Date Collected: 11/30/20 09:10

Matrix: Solid

Date Received: 11/30/20 17:15

Percent Solids: 85.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			574850	12/01/20 17:52	WRE	TAL CHI
Total/NA	Analysis	8260B		1	575078	12/03/20 14:36	PMF	TAL CHI
Total/NA	Prep	3541			575040	12/02/20 17:54	ACK	TAL CHI
Total/NA	Analysis	8270D		1	575116	12/03/20 16:08	AJD	TAL CHI
Total/NA	Prep	3050B			575262	12/03/20 17:53	BDE	TAL CHI
Total/NA	Analysis	6010B		1	575404	12/04/20 10:58	JJB	TAL CHI
Total/NA	Prep	3050B			575262	12/03/20 17:53	BDE	TAL CHI
Total/NA	Analysis	6010B		5	575581	12/04/20 14:54	JJB	TAL CHI
Total/NA	Prep	7471B			575136	12/03/20 13:15	MJG	TAL CHI
Total/NA	Analysis	7471B		1	575400	12/04/20 11:57	MJG	TAL CHI
Total/NA	Prep	9010C			575405	12/04/20 14:54	PSP	TAL CHI
Total/NA	Analysis	9012B		1	575442	12/04/20 17:00	PSP	TAL CHI

Client Sample ID: 3138V-2-B03 (0-1.9)

Lab Sample ID: 500-191731-4

Date Collected: 11/30/20 08:45

Matrix: Solid

Date Received: 11/30/20 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			575000	12/02/20 13:45	CMS	TAL CHI
SPLP East	Prep	3010A			575242	12/03/20 16:43	BDE	TAL CHI
SPLP East	Analysis	6010B		1	575563	12/04/20 14:25	EEN	TAL CHI
TCLP	Leach	1311			574996	12/02/20 13:45	CMS	TAL CHI
TCLP	Prep	3010A			575241	12/03/20 16:40	BDE	TAL CHI
TCLP	Analysis	6010B		1	575563	12/04/20 13:03	EEN	TAL CHI
TCLP	Leach	1311			574996	12/02/20 13:45	CMS	TAL CHI
TCLP	Prep	3010A			575241	12/03/20 16:40	BDE	TAL CHI
TCLP	Analysis	6020A		1	575593	12/04/20 17:05	FXG	TAL CHI
TCLP	Leach	1311			574996	12/02/20 13:45	CMS	TAL CHI
TCLP	Prep	7470A			575354	12/04/20 08:15	MJG	TAL CHI
TCLP	Analysis	7470A		1	575597	12/07/20 08:26	MJG	TAL CHI
Total/NA	Analysis	9045D		1	575386	12/03/20 18:04	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	574939	12/02/20 11:11	LWN	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191731-1

Client Sample ID: 3138V-2-B03 (0-1.9)

Lab Sample ID: 500-191731-4

Date Collected: 11/30/20 08:45

Matrix: Solid

Date Received: 11/30/20 17:15

Percent Solids: 85.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			574850	12/01/20 17:52	WRE	TAL CHI
Total/NA	Analysis	8260B		1	575078	12/03/20 15:02	PMF	TAL CHI
Total/NA	Prep	3541			575040	12/02/20 17:54	ACK	TAL CHI
Total/NA	Analysis	8270D		1	575116	12/03/20 13:12	AJD	TAL CHI
Total/NA	Prep	3050B			575262	12/03/20 17:53	BDE	TAL CHI
Total/NA	Analysis	6010B		1	575404	12/04/20 11:01	JJB	TAL CHI
Total/NA	Prep	3050B			575262	12/03/20 17:53	BDE	TAL CHI
Total/NA	Analysis	6010B		5	575581	12/04/20 14:58	JJB	TAL CHI
Total/NA	Prep	7471B			575136	12/03/20 13:15	MJG	TAL CHI
Total/NA	Analysis	7471B		1	575400	12/04/20 11:59	MJG	TAL CHI
Total/NA	Prep	9010C			575405	12/04/20 14:54	PSP	TAL CHI
Total/NA	Analysis	9012B		1	575442	12/04/20 17:01	PSP	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 - Lake County - WO 073

Job ID: 500-191731-1

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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Address: _____

Regulatory Program: DW NPDES RCRA Other:

TAL-8210

Client Contact Company Name: <u>Terracon</u> Address: <u>192 Exchange Blvd.</u> City/State/Zip: <u>Glendale Heights IL</u> Phone: <u>630-445-0160</u> Fax: _____ Project Name: <u>1120701N</u> Site: <u>1120701N</u> PO # _____		Project Manager: <u>Rich O'Brien</u> Tel/Email: <u>mitt.weiss@terracon.com</u>		Site Contact: _____ Lab Contact: _____		Date: <u>11/30/2020</u> Carrier: _____		COC No: _____ 1 of 1 COCs Sampler: <u>D. Giff</u> For Lab Use Only: Walk-in Client: _____ Lab Sampling: _____ Job / SDG No.: <u>500-191731</u>																					
Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input checked="" type="checkbox"/> WORKING DAYS TAT if different from Below _____ <input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Filtered Sample (Y/N) _____ Perform MS / MSD (Y/N) _____ <u>VOC'S</u> <u>SUOC'S</u> <u>Total 23 Inorganics per</u> <u>TECP 23 Inorganics</u> <u>SPLP 23 Inorganics</u>		Sample Type (C=Comp, G=Grab) _____ Matrix _____ # of Cont. _____		Sample Date _____ Sample Time _____		Sample Identification: _____ 500-191731 COC		Sample Specific Notes: _____																			
1 <u>3138V-2-B01 (0-5)</u> 2 <u>3138V-2-B01 (5-10.5)</u> 3 <u>3138V-2-B02 (0-1.9)</u> 4 <u>3138V-2-B03 (0-1.9)</u>		<u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u> <u>11/30/20</u>		<u>1000</u> <u>1005</u> <u>0910</u> <u>0845</u>		<u>G</u> <u>G</u> <u>G</u> <u>G</u>		<u>Sol</u> <u>sol</u> <u>Sol</u> <u>Sol</u>		<u>6</u> <u>6</u> <u>6</u> <u>6</u>		<u>NW</u> <u>NW</u> <u>NW</u> <u>NW</u>		<u>X</u> <u>X</u> <u>X</u> <u>X</u>		<u>X</u> <u>X</u> <u>X</u> <u>X</u>		<u>X</u> <u>X</u> <u>X</u> <u>X</u>		<u>X</u> <u>X</u> <u>X</u> <u>X</u>									
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other _____										Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample. <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown										Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months									
Special Instructions/QC Requirements & Comments: <u>*NO Aluminum</u> <u>* Hold SPLP 23 Inorganics per terracon instructions</u> <u>2,2 -> 0.0, 3,9 -> 1.5</u>										Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.: _____ Cooler Temp. (°C): Obs'd: _____ Cor'd: _____ Therm ID No.: _____																			
Relinquished by: <u>[Signature]</u>		Company: <u>Terracon</u>		Date/Time: <u>11/30/2020 1620</u>		Received by: <u>[Signature]</u>		Company: <u>ETA</u>		Date/Time: <u>11/30/20 1620</u>																			
Relinquished by: <u>[Signature]</u>		Company: <u>ETA</u>		Date/Time: <u>11/30/20 1715</u>		Received by: _____		Company: _____		Date/Time: _____																			
Relinquished by: _____		Company: _____		Date/Time: _____		Received in Laboratory by: <u>[Signature]</u>		Company: <u>ETA/ETI</u>		Date/Time: <u>12/1/20 0730</u>																			

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-191731-1

Login Number: 191731

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: James, Jeff A

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	0.0,1.7
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 346-US Rte 41, N/o Rt 173 to S/o Rockland Rd Office Phone Number, if available: _____

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

US Rte 41 (Northbound) IDOT STA 385+00 to 387+25 (ISGS Site 3138V-6)

City: Gurnee, Uninc Warren Twp. State: IL Zip Code: 60031

County: Lake Township: Warren

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

Latitude: 42.39848 Longitude: - 87.93066

(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.): 38

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 B07 was sampled adjacent to ISGS Site No 3138V-6.

See Exhibit 4 and Table 5 of the Preliminary Site Investigation Report prepared by Terracon.

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

Eurofins TestAmerica, Chicago - Lab Report No J191785-1.

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

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

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

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

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

Matt Weiss
Printed Name:

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

2/26/21
Date:



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

Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3138V-6-B07 (0-1.3)
		Chicago	MSAs		Sample Depth (feet)	(0-1.3)
					Date Collected	12/1/2020
Semivolatile Organic Analytical Parameters						
Acenaphthene	mg/kg	0.09	0.13	570		0.0091
Anthracene	mg/kg	0.25	0.4	12000		0.02
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.11
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.13
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.18
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.06
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.07
Chrysene	mg/kg	1.2	2.7	88		0.13
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		0.022
Fluoranthene	mg/kg	2.7	4.1	3100		0.25
Fluorene	mg/kg	0.1	0.18	560		0.007
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.058
Phenanthrene	mg/kg	1.3	2.5	210		0.11
Pyrene	mg/kg	1.9	3.0	2300		0.22
Inorganic Analytical Parameters						
Arsenic	mg/kg	---	13	11.3		5.5
Barium	mg/kg	---	110	1500		59
Cadmium	mg/kg	---	0.6	5.2		0.26
Chromium, total	mg/kg	---	16.2	21		19
Lead	mg/kg	---	36	107		64
Mercury	mg/kg	---	0.06	0.89		0.023
Selenium	mg/kg	---	0.48	1.3		<0.33
Silver	mg/kg	---	0.55	4.4		<0.072
Antimony	mg/kg	---	4.0	5		0.64
Beryllium	mg/kg	---	0.59	22		0.85
Calcium	mg/kg	---	9,300	---		93000
Cobalt	mg/kg	---	8.9	20		12
Copper	mg/kg	---	19.6	2900		24
Cyanide	mg/kg	---	0.51	---		<0.14
Iron	mg/kg	---	15,900	15000		24000
Magnesium	mg/kg	---	4,820	325000		47000
Manganese	mg/kg	---	636	630		480
Nickel	mg/kg	---	18	100		29
Potassium	mg/kg	---	1,268	---		2900
Sodium	mg/kg	---	130	---		630
Thallium	mg/kg	---	0.32	2.6		<0.28
Vanadium	mg/kg	---	25.2	550		24
Zinc	mg/kg	---	95	5100		80
pH			6.25	9		8.0

Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3138V-6-B07 (0-1.3)
		Chicago	MSAs		Sample Depth (feet)	(0-1.3)
					Date Collected	12/1/2020
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	---	---	---		0.12
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	---	---	---		0.38
Cadmium,TCLP	mg/L	---	---	---		0.0022
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	---	---	---		440
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	---	---	---		85
Manganese,TCLP	mg/L	---	---	---		0.37
Nickel,TCLP	mg/L	---	---	---		0.012
Potassium,TCLP	mg/L	---	---	---		0.9
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: 500-191785-1
Client Project/Site: IDOT - Lake County - WO 073

For:

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

Attn: Mr. Matthew Weiss



Authorized for release by:
12/11/2020 4:43:16 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 - Lake County - WO 073

Job ID: 500-191785-1

Job ID: 500-191785-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-191785-1

Receipt

The samples were received on 12/1/2020 5:01 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were -0.1° C and 0.9° C.

GC/MS VOA

Method 8260B: The laboratory control sample duplicate (LCSD) for 575521 recovered outside control limits for Carbon tetrachloride. This analyte was biased high in the LCSD and was not detected in the associated samples; therefore, the data have been reported. 3138V-6-B01 (0-1.3) (500-191785-1), 3138V-6-B02 (0-1.3) (500-191785-2) and 3138V-6-B03 (0-1.3) (500-191785-3)

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 continuing calibration verification (CCV) associated with batch 500-575996 recovered above the upper control limit for Zinc. The sample associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: 3138V-6-B09 (0-1.3) (500-191785-11).

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 - Lake County - WO 073

Job ID: 500-191785-1

Client Sample ID: 3138V-6-B01 (0-1.3)

Lab Sample ID: 500-191785-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.021		0.018	0.0077	mg/Kg	1	✳	8260B	Total/NA
2-Butanone (MEK)	0.0040	J	0.0044	0.0020	mg/Kg	1	✳	8260B	Total/NA
Benzo[a]anthracene	0.039	J	0.042	0.0057	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.054		0.042	0.0082	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.081		0.042	0.0092	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.042		0.042	0.014	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.038	J	0.042	0.013	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.055		0.042	0.012	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.064		0.042	0.0079	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.029	J	0.042	0.011	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.029	J	0.042	0.0059	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.079		0.042	0.0085	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.65	J	1.2	0.24	mg/Kg	1	✳	6010B	Total/NA
Arsenic	6.2		0.61	0.21	mg/Kg	1	✳	6010B	Total/NA
Barium	88		0.61	0.070	mg/Kg	1	✳	6010B	Total/NA
Beryllium	1.0		0.24	0.057	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.29		0.12	0.022	mg/Kg	1	✳	6010B	Total/NA
Chromium	23		0.61	0.30	mg/Kg	1	✳	6010B	Total/NA
Cobalt	14		0.31	0.080	mg/Kg	1	✳	6010B	Total/NA
Copper	25		0.61	0.17	mg/Kg	1	✳	6010B	Total/NA
Iron	24000	B	12	6.4	mg/Kg	1	✳	6010B	Total/NA
Lead	50		0.31	0.14	mg/Kg	1	✳	6010B	Total/NA
Magnesium	7600		6.1	3.0	mg/Kg	1	✳	6010B	Total/NA
Calcium	7700	B	12	2.1	mg/Kg	1	✳	6010B	Total/NA
Manganese	660		0.61	0.089	mg/Kg	1	✳	6010B	Total/NA
Nickel	33		0.61	0.18	mg/Kg	1	✳	6010B	Total/NA
Selenium	0.50	J	0.61	0.36	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.33	J	0.61	0.31	mg/Kg	1	✳	6010B	Total/NA
Vanadium	31		0.31	0.072	mg/Kg	1	✳	6010B	Total/NA
Zinc	87		1.2	0.54	mg/Kg	1	✳	6010B	Total/NA
Potassium	2900		31	11	mg/Kg	1	✳	6010B	Total/NA
Sodium	1700	B	61	9.0	mg/Kg	1	✳	6010B	Total/NA
Barium	0.47	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0054		0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	170		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.031		0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.043		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	74		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	11		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.030		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.5	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.14	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.29		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	2.1		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.033		0.020	0.0067	mg/Kg	1	✳	7471B	Total/NA
Cyanide, Total	0.40		0.33	0.16	mg/Kg	1	✳	9012B	Total/NA
pH	7.7		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Client Sample ID: 3138V-6-B02 (0-1.3)

Lab Sample ID: 500-191785-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.011	J	0.020	0.0088	mg/Kg	1	✳	8260B	Total/NA
Acenaphthene	0.021	J	0.043	0.0077	mg/Kg	1	✳	8270D	Total/NA
Acenaphthylene	0.0062	J	0.043	0.0056	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.037	J	0.043	0.0072	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.20		0.043	0.0058	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.25		0.043	0.0083	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.35		0.043	0.0092	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.13		0.043	0.014	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.12		0.043	0.013	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.26		0.043	0.012	mg/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	0.033	J	0.043	0.0083	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.38		0.043	0.0079	mg/Kg	1	✳	8270D	Total/NA
Fluorene	0.013	J	0.043	0.0060	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.11		0.043	0.011	mg/Kg	1	✳	8270D	Total/NA
2-Methylnaphthalene	0.0092	J	0.086	0.0079	mg/Kg	1	✳	8270D	Total/NA
Naphthalene	0.0077	J	0.043	0.0066	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.19		0.043	0.0060	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.44		0.043	0.0085	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.61	J	1.2	0.24	mg/Kg	1	✳	6010B	Total/NA
Arsenic	6.4		0.61	0.21	mg/Kg	1	✳	6010B	Total/NA
Barium	90		0.61	0.070	mg/Kg	1	✳	6010B	Total/NA
Beryllium	1.0		0.24	0.057	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.63		0.12	0.022	mg/Kg	1	✳	6010B	Total/NA
Chromium	20		0.61	0.30	mg/Kg	1	✳	6010B	Total/NA
Cobalt	13		0.30	0.080	mg/Kg	1	✳	6010B	Total/NA
Copper	54		0.61	0.17	mg/Kg	1	✳	6010B	Total/NA
Iron	21000	B	12	6.3	mg/Kg	1	✳	6010B	Total/NA
Lead	170		0.30	0.14	mg/Kg	1	✳	6010B	Total/NA
Magnesium	16000		6.1	3.0	mg/Kg	1	✳	6010B	Total/NA
Calcium	23000	B	12	2.1	mg/Kg	1	✳	6010B	Total/NA
Manganese	800		0.61	0.088	mg/Kg	1	✳	6010B	Total/NA
Nickel	30		0.61	0.18	mg/Kg	1	✳	6010B	Total/NA
Selenium	0.57	J	0.61	0.36	mg/Kg	1	✳	6010B	Total/NA
Vanadium	28		0.30	0.072	mg/Kg	1	✳	6010B	Total/NA
Zinc	290		1.2	0.54	mg/Kg	1	✳	6010B	Total/NA
Potassium	2400		30	11	mg/Kg	1	✳	6010B	Total/NA
Sodium	1800	B	61	9.0	mg/Kg	1	✳	6010B	Total/NA
Barium	0.35	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0036	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	240		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	110		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	3.5		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.92	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.029	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	2.3		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.037		0.021	0.0071	mg/Kg	1	✳	7471B	Total/NA
Cyanide, Total	0.28		0.28	0.14	mg/Kg	1	✳	9012B	Total/NA
pH	8.0		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Client Sample ID: 3138V-6-B03 (0-1.3)

Lab Sample ID: 500-191785-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	0.012	J	0.042	0.0091	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.013	J	0.042	0.0078	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.011	J	0.042	0.0084	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.62	J	1.2	0.23	mg/Kg	1	✳	6010B	Total/NA
Arsenic	8.2		0.59	0.20	mg/Kg	1	✳	6010B	Total/NA
Barium	110		0.59	0.067	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.99		0.24	0.055	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.40		0.12	0.021	mg/Kg	1	✳	6010B	Total/NA
Chromium	22		0.59	0.29	mg/Kg	1	✳	6010B	Total/NA
Cobalt	16		0.29	0.077	mg/Kg	1	✳	6010B	Total/NA
Copper	26		0.59	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	25000	B	12	6.1	mg/Kg	1	✳	6010B	Total/NA
Lead	53		0.29	0.14	mg/Kg	1	✳	6010B	Total/NA
Magnesium	8300		5.9	2.9	mg/Kg	1	✳	6010B	Total/NA
Calcium	10000	B	12	2.0	mg/Kg	1	✳	6010B	Total/NA
Manganese	850		0.59	0.085	mg/Kg	1	✳	6010B	Total/NA
Nickel	35		0.59	0.17	mg/Kg	1	✳	6010B	Total/NA
Selenium	0.74		0.59	0.35	mg/Kg	1	✳	6010B	Total/NA
Vanadium	33		0.29	0.069	mg/Kg	1	✳	6010B	Total/NA
Zinc	88		1.2	0.52	mg/Kg	1	✳	6010B	Total/NA
Potassium	2800		29	10	mg/Kg	1	✳	6010B	Total/NA
Sodium	1500	B	59	8.7	mg/Kg	1	✳	6010B	Total/NA
Barium	0.36	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0024	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	220		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.43		0.40	0.20	mg/L	1		6010B	TCLP
Magnesium	96		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	7.9		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.015	J	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		0.021	0.0068	mg/Kg	1	✳	7471B	Total/NA
Cyanide, Total	0.37		0.33	0.16	mg/Kg	1	✳	9012B	Total/NA
pH	7.7		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3138V-6-B04 (0-6)

Lab Sample ID: 500-191785-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.012	J	0.019	0.0082	mg/Kg	1	✳	8260B	Total/NA
Benzo[a]anthracene	0.010	J	0.042	0.0056	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.018	J	0.042	0.0081	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.019	J	0.042	0.0091	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.011	J	0.042	0.011	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.020	J	0.042	0.0078	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.013	J	0.042	0.011	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.010	J	0.042	0.0059	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.019	J	0.042	0.0083	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.61	J	1.2	0.24	mg/Kg	1	✳	6010B	Total/NA
Arsenic	6.8		0.61	0.21	mg/Kg	1	✳	6010B	Total/NA
Barium	86		0.61	0.069	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 - Lake County - WO 073

Job ID: 500-191785-1

Client Sample ID: 3138V-6-B04 (0-6) (Continued)

Lab Sample ID: 500-191785-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.96		0.24	0.057	mg/Kg	1	☒	6010B	Total/NA
Cadmium	0.27		0.12	0.022	mg/Kg	1	☒	6010B	Total/NA
Chromium	22		0.61	0.30	mg/Kg	1	☒	6010B	Total/NA
Cobalt	14		0.30	0.080	mg/Kg	1	☒	6010B	Total/NA
Copper	23		0.61	0.17	mg/Kg	1	☒	6010B	Total/NA
Iron	23000	B	12	6.3	mg/Kg	1	☒	6010B	Total/NA
Lead	43		0.30	0.14	mg/Kg	1	☒	6010B	Total/NA
Magnesium	11000		6.1	3.0	mg/Kg	1	☒	6010B	Total/NA
Calcium	13000	B	12	2.1	mg/Kg	1	☒	6010B	Total/NA
Manganese	810		0.61	0.088	mg/Kg	1	☒	6010B	Total/NA
Nickel	32		0.61	0.18	mg/Kg	1	☒	6010B	Total/NA
Selenium	0.51	J	0.61	0.36	mg/Kg	1	☒	6010B	Total/NA
Thallium	0.47	J	0.61	0.30	mg/Kg	1	☒	6010B	Total/NA
Vanadium	29		0.30	0.072	mg/Kg	1	☒	6010B	Total/NA
Zinc	83		1.2	0.53	mg/Kg	1	☒	6010B	Total/NA
Potassium	2900		30	11	mg/Kg	1	☒	6010B	Total/NA
Sodium	1700	B	61	9.0	mg/Kg	1	☒	6010B	Total/NA
Barium	0.33	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0022	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	170		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.025		0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	73		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	7.5		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.016	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.98	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.022	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.4		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.037		0.019	0.0062	mg/Kg	1	☒	7471B	Total/NA
Cyanide, Total	0.30		0.28	0.14	mg/Kg	1	☒	9012B	Total/NA
pH	7.5		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3138V-6-B04 (6-11.3)

Lab Sample ID: 500-191785-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.021	J	0.022	0.0095	mg/Kg	1	☒	8260B	Total/NA
Antimony	0.43	J	1.3	0.26	mg/Kg	1	☒	6010B	Total/NA
Arsenic	3.0		0.67	0.23	mg/Kg	1	☒	6010B	Total/NA
Barium	72		0.67	0.076	mg/Kg	1	☒	6010B	Total/NA
Beryllium	0.96		0.27	0.063	mg/Kg	1	☒	6010B	Total/NA
Cadmium	0.28		0.13	0.024	mg/Kg	1	☒	6010B	Total/NA
Chromium	24		0.67	0.33	mg/Kg	1	☒	6010B	Total/NA
Cobalt	9.1		0.33	0.088	mg/Kg	1	☒	6010B	Total/NA
Copper	23		0.67	0.19	mg/Kg	1	☒	6010B	Total/NA
Iron	19000	B	13	7.0	mg/Kg	1	☒	6010B	Total/NA
Lead	15		0.33	0.15	mg/Kg	1	☒	6010B	Total/NA
Magnesium	5200		6.7	3.3	mg/Kg	1	☒	6010B	Total/NA
Calcium	3900	B	13	2.3	mg/Kg	1	☒	6010B	Total/NA
Manganese	310		0.67	0.097	mg/Kg	1	☒	6010B	Total/NA
Nickel	28		0.67	0.19	mg/Kg	1	☒	6010B	Total/NA
Vanadium	28		0.33	0.079	mg/Kg	1	☒	6010B	Total/NA
Zinc	65		1.3	0.59	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 - Lake County - WO 073

Job ID: 500-191785-1

Client Sample ID: 3138V-6-B04 (6-11.3) (Continued)

Lab Sample ID: 500-191785-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	2600		33	12	mg/Kg	1	☼	6010B	Total/NA
Sodium	1100	B	67	9.9	mg/Kg	1	☼	6010B	Total/NA
Barium	0.17	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	68		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.010	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.64		0.40	0.20	mg/L	1		6010B	TCLP
Magnesium	17		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	4.9		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.016	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.5	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.5		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.035		0.021	0.0071	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.44		0.35	0.17	mg/Kg	1	☼	9012B	Total/NA
pH	7.0		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3138V-6-B05 (0-1.3)

Lab Sample ID: 500-191785-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.017	J	0.020	0.0087	mg/Kg	1	☼	8260B	Total/NA
Acenaphthene	0.019	J	0.042	0.0076	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.038	J	0.042	0.0071	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.20		0.042	0.0057	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.27		0.042	0.0082	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.34		0.042	0.0092	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.15		0.042	0.014	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.13		0.042	0.013	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.23		0.042	0.012	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.042		0.042	0.0082	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.39		0.042	0.0079	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.016	J	0.042	0.0060	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.14		0.042	0.011	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.21		0.042	0.0059	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.46		0.042	0.0084	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.68	J	1.3	0.25	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.3		0.64	0.22	mg/Kg	1	☼	6010B	Total/NA
Barium	99		0.64	0.072	mg/Kg	1	☼	6010B	Total/NA
Beryllium	1.0		0.25	0.059	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.14		0.13	0.023	mg/Kg	1	☼	6010B	Total/NA
Chromium	23		0.64	0.31	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.32	0.083	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.64	0.18	mg/Kg	1	☼	6010B	Total/NA
Iron	23000	B	13	6.6	mg/Kg	1	☼	6010B	Total/NA
Lead	22		0.32	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	17000		6.4	3.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	22000	B	13	2.2	mg/Kg	1	☼	6010B	Total/NA
Manganese	980		0.64	0.092	mg/Kg	1	☼	6010B	Total/NA
Nickel	34		0.64	0.18	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.63	J	0.64	0.37	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.36	J	0.64	0.32	mg/Kg	1	☼	6010B	Total/NA
Vanadium	32		0.32	0.075	mg/Kg	1	☼	6010B	Total/NA
Zinc	69		1.3	0.56	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 - Lake County - WO 073

Job ID: 500-191785-1

Client Sample ID: 3138V-6-B05 (0-1.3) (Continued)

Lab Sample ID: 500-191785-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	3400		32	11	mg/Kg	1	☼	6010B	Total/NA
Sodium	1100	B	64	9.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.32	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0022	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	320		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	140		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.9		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.97	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.3		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.031		0.021	0.0069	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.20	J	0.30	0.15	mg/Kg	1	☼	9012B	Total/NA
pH	8.5		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3138V-6-B05 (0-1.3) Dup

Lab Sample ID: 500-191785-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	0.010	J	0.041	0.0080	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.0094	J	0.041	0.0089	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.013	J	0.041	0.0077	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.013	J	0.041	0.0058	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.014	J	0.041	0.0082	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.65	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.7		0.61	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	69		0.61	0.070	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.95		0.25	0.057	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.29		0.12	0.022	mg/Kg	1	☼	6010B	Total/NA
Chromium	21		0.61	0.30	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.31	0.080	mg/Kg	1	☼	6010B	Total/NA
Copper	25		0.61	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	24000	B	12	6.4	mg/Kg	1	☼	6010B	Total/NA
Lead	65		0.31	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	14000		6.1	3.0	mg/Kg	1	☼	6010B	Total/NA
Calcium	19000	B	12	2.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	460		0.61	0.089	mg/Kg	1	☼	6010B	Total/NA
Nickel	31		0.61	0.18	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.54	J	0.61	0.36	mg/Kg	1	☼	6010B	Total/NA
Vanadium	32		0.31	0.072	mg/Kg	1	☼	6010B	Total/NA
Zinc	88		1.2	0.54	mg/Kg	1	☼	6010B	Total/NA
Potassium	2600		31	11	mg/Kg	1	☼	6010B	Total/NA
Sodium	1000	B	61	9.1	mg/Kg	1	☼	6010B	Total/NA
Barium	0.30	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0036	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	290		5.0	0.50	mg/L	1		6010B	TCLP
Iron	0.36	J	0.40	0.20	mg/L	1		6010B	TCLP
Magnesium	120		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	3.2		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.017	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.1	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.5		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.034		0.020	0.0067	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Client Sample ID: 3138V-6-B05 (0-1.3) Dup (Continued)

Lab Sample ID: 500-191785-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.25	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: 3138V-6-B06 (0-1.3)

Lab Sample ID: 500-191785-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.022		0.021	0.0091	mg/Kg	1	✳	8260B	Total/NA
2-Butanone (MEK)	0.0052		0.0052	0.0023	mg/Kg	1	✳	8260B	Total/NA
Benzo[a]anthracene	0.013	J	0.040	0.0054	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.017	J	0.040	0.0077	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.025	J	0.040	0.0086	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.013	J	0.040	0.013	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.015	J	0.040	0.011	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.025	J	0.040	0.0074	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.012	J	0.040	0.010	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.011	J	0.040	0.0056	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.023	J	0.040	0.0079	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.74	J	1.2	0.23	mg/Kg	1	✳	6010B	Total/NA
Arsenic	5.5		0.60	0.20	mg/Kg	1	✳	6010B	Total/NA
Barium	73		0.60	0.068	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.92		0.24	0.056	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.22		0.12	0.022	mg/Kg	1	✳	6010B	Total/NA
Chromium	20		0.60	0.30	mg/Kg	1	✳	6010B	Total/NA
Cobalt	13		0.30	0.078	mg/Kg	1	✳	6010B	Total/NA
Copper	24		0.60	0.17	mg/Kg	1	✳	6010B	Total/NA
Iron	22000	B	12	6.2	mg/Kg	1	✳	6010B	Total/NA
Lead	25		0.30	0.14	mg/Kg	1	✳	6010B	Total/NA
Magnesium	16000		6.0	3.0	mg/Kg	1	✳	6010B	Total/NA
Calcium	26000	B	12	2.0	mg/Kg	1	✳	6010B	Total/NA
Manganese	1000		0.60	0.087	mg/Kg	1	✳	6010B	Total/NA
Nickel	31		0.60	0.17	mg/Kg	1	✳	6010B	Total/NA
Selenium	0.46	J	0.60	0.35	mg/Kg	1	✳	6010B	Total/NA
Vanadium	27		0.30	0.071	mg/Kg	1	✳	6010B	Total/NA
Zinc	74		1.2	0.53	mg/Kg	1	✳	6010B	Total/NA
Potassium	2900		30	11	mg/Kg	1	✳	6010B	Total/NA
Sodium	1200	B	60	8.9	mg/Kg	1	✳	6010B	Total/NA
Barium	0.57		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0021	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	230		5.0	0.50	mg/L	1		6010B	TCLP
Chromium	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Cobalt	0.024	J	0.025	0.010	mg/L	1		6010B	TCLP
Copper	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	11		0.40	0.20	mg/L	1		6010B	TCLP
Lead	0.017		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	65		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	12		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.028		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	5.2		2.5	0.50	mg/L	1		6010B	TCLP
Vanadium	0.023	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.066	J	0.50	0.020	mg/L	1		6010B	TCLP
Iron	120		0.40	0.20	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 - Lake County - WO 073

Job ID: 500-191785-1

Client Sample ID: 3138V-6-B06 (0-1.3) (Continued)

Lab Sample ID: 500-191785-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.19		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	1.8		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.037		0.019	0.0063	mg/Kg	1	✳	7471B	Total/NA
Cyanide, Total	0.21	J	0.28	0.14	mg/Kg	1	✳	9012B	Total/NA
pH	8.1		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3138V-6-B07 (0-1.3)

Lab Sample ID: 500-191785-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.0091	J	0.040	0.0072	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.020	J	0.040	0.0067	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.11		0.040	0.0054	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.13		0.040	0.0078	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.18		0.040	0.0087	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.060		0.040	0.013	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.070		0.040	0.012	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.13		0.040	0.011	mg/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	0.022	J	0.040	0.0078	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.25		0.040	0.0075	mg/Kg	1	✳	8270D	Total/NA
Fluorene	0.0070	J	0.040	0.0057	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.058		0.040	0.010	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.11		0.040	0.0056	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.22		0.040	0.0080	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.64	J	1.1	0.22	mg/Kg	1	✳	6010B	Total/NA
Arsenic	5.5		0.56	0.19	mg/Kg	1	✳	6010B	Total/NA
Barium	59		0.56	0.063	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.85		0.22	0.052	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.26		0.11	0.020	mg/Kg	1	✳	6010B	Total/NA
Chromium	19		0.56	0.28	mg/Kg	1	✳	6010B	Total/NA
Cobalt	12		0.28	0.073	mg/Kg	1	✳	6010B	Total/NA
Copper	24		0.56	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	24000	B	110	58	mg/Kg	10	✳	6010B	Total/NA
Lead	64		0.28	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	47000		56	28	mg/Kg	10	✳	6010B	Total/NA
Calcium	93000	B	110	19	mg/Kg	10	✳	6010B	Total/NA
Manganese	480		0.56	0.081	mg/Kg	1	✳	6010B	Total/NA
Nickel	29		0.56	0.16	mg/Kg	1	✳	6010B	Total/NA
Vanadium	24		0.28	0.066	mg/Kg	1	✳	6010B	Total/NA
Zinc	80		1.1	0.49	mg/Kg	1	✳	6010B	Total/NA
Potassium	2900		28	9.9	mg/Kg	1	✳	6010B	Total/NA
Sodium	630	B	56	8.2	mg/Kg	1	✳	6010B	Total/NA
Barium	0.38	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0022	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	440		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	85		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.37		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.90	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.12		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.023		0.019	0.0064	mg/Kg	1	✳	7471B	Total/NA
pH	8.0		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Client Sample ID: 3138V-6-B08 (0-1.3)

Lab Sample ID: 500-191785-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0093	J	0.018	0.0078	mg/Kg	1	✳	8260B	Total/NA
Anthracene	0.012	J	0.039	0.0065	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.064		0.039	0.0052	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.066		0.039	0.0075	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.085		0.039	0.0084	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.040		0.039	0.012	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.035	J	0.039	0.011	mg/Kg	1	✳	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.40		0.20	0.071	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.074		0.039	0.011	mg/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	0.016	J	0.039	0.0075	mg/Kg	1	✳	8270D	Total/NA
Di-n-octyl phthalate	0.18	J	0.20	0.063	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.10		0.039	0.0072	mg/Kg	1	✳	8270D	Total/NA
Fluorene	0.0058	J	0.039	0.0055	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.037	J	0.039	0.010	mg/Kg	1	✳	8270D	Total/NA
2-Methylnaphthalene	0.0075	J	0.078	0.0071	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.11		0.039	0.0054	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.13		0.039	0.0077	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.44	J	1.1	0.21	mg/Kg	1	✳	6010B	Total/NA
Arsenic	6.8		0.55	0.19	mg/Kg	1	✳	6010B	Total/NA
Barium	96		0.55	0.062	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.65		0.22	0.051	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.39		0.11	0.020	mg/Kg	1	✳	6010B	Total/NA
Chromium	12		0.55	0.27	mg/Kg	1	✳	6010B	Total/NA
Cobalt	14		0.27	0.072	mg/Kg	1	✳	6010B	Total/NA
Copper	20		0.55	0.15	mg/Kg	1	✳	6010B	Total/NA
Iron	23000	B	110	57	mg/Kg	10	✳	6010B	Total/NA
Lead	51		0.27	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	41000		55	27	mg/Kg	10	✳	6010B	Total/NA
Calcium	77000	B	110	19	mg/Kg	10	✳	6010B	Total/NA
Manganese	1100		0.55	0.079	mg/Kg	1	✳	6010B	Total/NA
Nickel	27		0.55	0.16	mg/Kg	1	✳	6010B	Total/NA
Selenium	0.45	J	0.55	0.32	mg/Kg	1	✳	6010B	Total/NA
Vanadium	21		0.27	0.065	mg/Kg	1	✳	6010B	Total/NA
Zinc	100		1.1	0.48	mg/Kg	1	✳	6010B	Total/NA
Potassium	1500		27	9.7	mg/Kg	1	✳	6010B	Total/NA
Sodium	790	B	55	8.1	mg/Kg	1	✳	6010B	Total/NA
Barium	0.38	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0023	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	250		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.016	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	110		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	7.2		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.020	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.4		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.077	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.4		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.019		0.018	0.0060	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

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Client Sample ID: 3138V-6-B09 (0-1.3)

Lab Sample ID: 500-191785-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.015	J	0.040	0.0073	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.032	J	0.040	0.0068	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.19		0.040	0.0055	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.24		0.040	0.0079	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.32		0.040	0.0088	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.14		0.040	0.013	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.12		0.040	0.012	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.22		0.040	0.011	mg/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	0.038	J	0.040	0.0079	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.34		0.040	0.0075	mg/Kg	1	✳	8270D	Total/NA
Fluorene	0.0088	J	0.040	0.0057	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.12		0.040	0.011	mg/Kg	1	✳	8270D	Total/NA
2-Methylnaphthalene	0.0086	J	0.082	0.0075	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.19		0.040	0.0057	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.43		0.040	0.0081	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.74	J	1.2	0.22	mg/Kg	1	✳	6010B	Total/NA
Arsenic	7.2		0.58	0.20	mg/Kg	1	✳	6010B	Total/NA
Barium	90		0.58	0.066	mg/Kg	1	✳	6010B	Total/NA
Beryllium	1.0		0.23	0.054	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.44		0.12	0.021	mg/Kg	1	✳	6010B	Total/NA
Chromium	23		0.58	0.29	mg/Kg	1	✳	6010B	Total/NA
Cobalt	15		0.29	0.076	mg/Kg	1	✳	6010B	Total/NA
Copper	26		0.58	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	23000	B	12	6.0	mg/Kg	1	✳	6010B	Total/NA
Lead	99		0.29	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	14000		5.8	2.9	mg/Kg	1	✳	6010B	Total/NA
Calcium	17000	B	12	2.0	mg/Kg	1	✳	6010B	Total/NA
Manganese	770		0.58	0.084	mg/Kg	1	✳	6010B	Total/NA
Nickel	32		0.58	0.17	mg/Kg	1	✳	6010B	Total/NA
Selenium	0.49	J	0.58	0.34	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.55	J	0.58	0.29	mg/Kg	1	✳	6010B	Total/NA
Vanadium	32		0.29	0.068	mg/Kg	1	✳	6010B	Total/NA
Zinc	110		1.2	0.51	mg/Kg	1	✳	6010B	Total/NA
Potassium	2700		29	10	mg/Kg	1	✳	6010B	Total/NA
Sodium	1500	B	58	8.6	mg/Kg	1	✳	6010B	Total/NA
Barium	0.34	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0040	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	300		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	140		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.27		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.0	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.070	J ^	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.2		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.034		0.020	0.0066	mg/Kg	1	✳	7471B	Total/NA
pH	8.7		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3138V-6-B10 (0-1.3)

Lab Sample ID: 500-191785-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.011	J	0.018	0.0078	mg/Kg	1	✳	8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Client Sample ID: 3138V-6-B10 (0-1.3) (Continued)

Lab Sample ID: 500-191785-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.0028	J	0.0045	0.0020	mg/Kg	1	✳	8260B	Total/NA
Anthracene	0.010	J	0.041	0.0070	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.052		0.041	0.0056	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.064		0.041	0.0081	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.091		0.041	0.0090	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.042		0.041	0.013	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.030	J	0.041	0.012	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.062		0.041	0.011	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.083		0.041	0.0077	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.036	J	0.041	0.011	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.049		0.041	0.0058	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.10		0.041	0.0083	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.59	J	1.2	0.24	mg/Kg	1	✳	6010B	Total/NA
Arsenic	6.6		0.62	0.21	mg/Kg	1	✳	6010B	Total/NA
Barium	79		0.62	0.071	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.88		0.25	0.058	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.75		0.12	0.022	mg/Kg	1	✳	6010B	Total/NA
Chromium	20		0.62	0.31	mg/Kg	1	✳	6010B	Total/NA
Cobalt	12		0.31	0.081	mg/Kg	1	✳	6010B	Total/NA
Copper	28		0.62	0.17	mg/Kg	1	✳	6010B	Total/NA
Iron	21000	B	12	6.4	mg/Kg	1	✳	6010B	Total/NA
Lead	130		0.31	0.14	mg/Kg	1	✳	6010B	Total/NA
Magnesium	16000		6.2	3.1	mg/Kg	1	✳	6010B	Total/NA
Calcium	24000	B	12	2.1	mg/Kg	1	✳	6010B	Total/NA
Manganese	500		0.62	0.090	mg/Kg	1	✳	6010B	Total/NA
Nickel	27		0.62	0.18	mg/Kg	1	✳	6010B	Total/NA
Selenium	0.44	J	0.62	0.36	mg/Kg	1	✳	6010B	Total/NA
Vanadium	29		0.31	0.073	mg/Kg	1	✳	6010B	Total/NA
Zinc	110		1.2	0.54	mg/Kg	1	✳	6010B	Total/NA
Potassium	2400		31	11	mg/Kg	1	✳	6010B	Total/NA
Sodium	2200	B	62	9.2	mg/Kg	1	✳	6010B	Total/NA
Barium	0.39	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0038	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	210		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.029		0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.022		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	90		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	7.7		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.020	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.5	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.079	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.31		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.98		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.044		0.021	0.0070	mg/Kg	1	✳	7471B	Total/NA
Cyanide, Total	0.22	J	0.26	0.13	mg/Kg	1	✳	9012B	Total/NA
pH	7.6		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6010B	SPLP Metals	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9012B	Cyanide, Total and/or Amenable	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
1311	TCLP Extraction	SW846	TAL CHI
1312	SPLP Extraction	SW846	TAL CHI
3010A	Preparation, Total Metals	SW846	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL CHI
7471B	Preparation, Mercury	SW846	TAL CHI
9010C	Cyanide, Distillation	SW846	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-191785-1	3138V-6-B01 (0-1.3)	Solid	12/01/20 14:30	12/01/20 17:01	
500-191785-2	3138V-6-B02 (0-1.3)	Solid	12/01/20 14:10	12/01/20 17:01	
500-191785-3	3138V-6-B03 (0-1.3)	Solid	12/01/20 13:45	12/01/20 17:01	
500-191785-4	3138V-6-B04 (0-6)	Solid	12/01/20 13:10	12/01/20 17:01	
500-191785-5	3138V-6-B04 (6-11.3)	Solid	12/01/20 13:15	12/01/20 17:01	
500-191785-6	3138V-6-B05 (0-1.3)	Solid	12/01/20 12:25	12/01/20 17:01	
500-191785-7	3138V-6-B05 (0-1.3) Dup	Solid	12/01/20 12:30	12/01/20 17:01	
500-191785-8	3138V-6-B06 (0-1.3)	Solid	12/01/20 12:00	12/01/20 17:01	
500-191785-9	3138V-6-B07 (0-1.3)	Solid	12/01/20 11:30	12/01/20 17:01	
500-191785-10	3138V-6-B08 (0-1.3)	Solid	12/01/20 11:15	12/01/20 17:01	
500-191785-11	3138V-6-B09 (0-1.3)	Solid	12/01/20 10:55	12/01/20 17:01	
500-191785-12	3138V-6-B10 (0-1.3)	Solid	12/01/20 10:30	12/01/20 17:01	

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Client Sample ID: 3138V-6-B01 (0-1.3)

Lab Sample ID: 500-191785-1

Date Collected: 12/01/20 14:30

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 77.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.021		0.018	0.0077	mg/Kg	☼	12/01/20 17:52	12/06/20 20:24	1
Benzene	<0.00045		0.0018	0.00045	mg/Kg	☼	12/01/20 17:52	12/06/20 20:24	1
Bromodichloromethane	<0.00036		0.0018	0.00036	mg/Kg	☼	12/01/20 17:52	12/06/20 20:24	1
Bromoform	<0.00052		0.0018	0.00052	mg/Kg	☼	12/01/20 17:52	12/06/20 20:24	1
Bromomethane	<0.0017		0.0044	0.0017	mg/Kg	☼	12/01/20 17:52	12/06/20 20:24	1
2-Butanone (MEK)	0.0040	J	0.0044	0.0020	mg/Kg	☼	12/01/20 17:52	12/06/20 20:24	1
Carbon disulfide	<0.00092		0.0044	0.00092	mg/Kg	☼	12/01/20 17:52	12/06/20 20:24	1
Carbon tetrachloride	<0.00051	*	0.0018	0.00051	mg/Kg	☼	12/01/20 17:52	12/06/20 20:24	1
Chlorobenzene	<0.00065		0.0018	0.00065	mg/Kg	☼	12/01/20 17:52	12/06/20 20:24	1
Chloroethane	<0.0013		0.0044	0.0013	mg/Kg	☼	12/01/20 17:52	12/06/20 20:24	1
Chloroform	<0.00062		0.0018	0.00062	mg/Kg	☼	12/01/20 17:52	12/06/20 20:24	1
Chloromethane	<0.0018		0.0044	0.0018	mg/Kg	☼	12/01/20 17:52	12/06/20 20:24	1
cis-1,2-Dichloroethene	<0.00050		0.0018	0.00050	mg/Kg	☼	12/01/20 17:52	12/06/20 20:24	1
cis-1,3-Dichloropropene	<0.00054		0.0018	0.00054	mg/Kg	☼	12/01/20 17:52	12/06/20 20:24	1
Dibromochloromethane	<0.00058		0.0018	0.00058	mg/Kg	☼	12/01/20 17:52	12/06/20 20:24	1
1,1-Dichloroethane	<0.00061		0.0018	0.00061	mg/Kg	☼	12/01/20 17:52	12/06/20 20:24	1
1,2-Dichloroethane	<0.0014		0.0044	0.0014	mg/Kg	☼	12/01/20 17:52	12/06/20 20:24	1
1,1-Dichloroethene	<0.00061		0.0018	0.00061	mg/Kg	☼	12/01/20 17:52	12/06/20 20:24	1
1,2-Dichloropropene	<0.00046		0.0018	0.00046	mg/Kg	☼	12/01/20 17:52	12/06/20 20:24	1
1,3-Dichloropropene, Total	<0.00062		0.0018	0.00062	mg/Kg	☼	12/01/20 17:52	12/06/20 20:24	1
Ethylbenzene	<0.00085		0.0018	0.00085	mg/Kg	☼	12/01/20 17:52	12/06/20 20:24	1
2-Hexanone	<0.0014		0.0044	0.0014	mg/Kg	☼	12/01/20 17:52	12/06/20 20:24	1
Methylene Chloride	<0.0017		0.0044	0.0017	mg/Kg	☼	12/01/20 17:52	12/06/20 20:24	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0044	0.0013	mg/Kg	☼	12/01/20 17:52	12/06/20 20:24	1
Methyl tert-butyl ether	<0.00052		0.0018	0.00052	mg/Kg	☼	12/01/20 17:52	12/06/20 20:24	1
Styrene	<0.00054		0.0018	0.00054	mg/Kg	☼	12/01/20 17:52	12/06/20 20:24	1
1,1,2,2-Tetrachloroethane	<0.00057		0.0018	0.00057	mg/Kg	☼	12/01/20 17:52	12/06/20 20:24	1
Tetrachloroethene	<0.00060		0.0018	0.00060	mg/Kg	☼	12/01/20 17:52	12/06/20 20:24	1
Toluene	<0.00045		0.0018	0.00045	mg/Kg	☼	12/01/20 17:52	12/06/20 20:24	1
trans-1,2-Dichloroethene	<0.00079		0.0018	0.00079	mg/Kg	☼	12/01/20 17:52	12/06/20 20:24	1
trans-1,3-Dichloropropene	<0.00062		0.0018	0.00062	mg/Kg	☼	12/01/20 17:52	12/06/20 20:24	1
1,1,1-Trichloroethane	<0.00060		0.0018	0.00060	mg/Kg	☼	12/01/20 17:52	12/06/20 20:24	1
1,1,2-Trichloroethane	<0.00076		0.0018	0.00076	mg/Kg	☼	12/01/20 17:52	12/06/20 20:24	1
Trichloroethene	<0.00060		0.0018	0.00060	mg/Kg	☼	12/01/20 17:52	12/06/20 20:24	1
Vinyl acetate	<0.0015		0.0044	0.0015	mg/Kg	☼	12/01/20 17:52	12/06/20 20:24	1
Vinyl chloride	<0.00079		0.0018	0.00079	mg/Kg	☼	12/01/20 17:52	12/06/20 20:24	1
Xylenes, Total	<0.00057		0.0035	0.00057	mg/Kg	☼	12/01/20 17:52	12/06/20 20:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		75 - 131	12/01/20 17:52	12/06/20 20:24	1
Dibromofluoromethane	109		75 - 126	12/01/20 17:52	12/06/20 20:24	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	12/01/20 17:52	12/06/20 20:24	1
Toluene-d8 (Surr)	87		75 - 124	12/01/20 17:52	12/06/20 20:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0076		0.042	0.0076	mg/Kg	☼	12/03/20 08:38	12/05/20 20:17	1
Acenaphthylene	<0.0056		0.042	0.0056	mg/Kg	☼	12/03/20 08:38	12/05/20 20:17	1
Anthracene	<0.0071		0.042	0.0071	mg/Kg	☼	12/03/20 08:38	12/05/20 20:17	1
Benzo[a]anthracene	0.039	J	0.042	0.0057	mg/Kg	☼	12/03/20 08:38	12/05/20 20:17	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Client Sample ID: 3138V-6-B01 (0-1.3)

Lab Sample ID: 500-191785-1

Date Collected: 12/01/20 14:30

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 77.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.054		0.042	0.0082	mg/Kg	☼	12/03/20 08:38	12/05/20 20:17	1
Benzo[b]fluoranthene	0.081		0.042	0.0092	mg/Kg	☼	12/03/20 08:38	12/05/20 20:17	1
Benzo[g,h,i]perylene	0.042		0.042	0.014	mg/Kg	☼	12/03/20 08:38	12/05/20 20:17	1
Benzo[k]fluoranthene	0.038	J	0.042	0.013	mg/Kg	☼	12/03/20 08:38	12/05/20 20:17	1
Bis(2-chloroethoxy)methane	<0.043		0.21	0.043	mg/Kg	☼	12/03/20 08:38	12/05/20 20:17	1
Bis(2-chloroethyl)ether	<0.064		0.21	0.064	mg/Kg	☼	12/03/20 08:38	12/05/20 20:17	1
Bis(2-ethylhexyl) phthalate	<0.078		0.21	0.078	mg/Kg	☼	12/03/20 08:38	12/05/20 20:17	1
4-Bromophenyl phenyl ether	<0.056		0.21	0.056	mg/Kg	☼	12/03/20 08:38	12/05/20 20:17	1
Butyl benzyl phthalate	<0.081		0.21	0.081	mg/Kg	☼	12/03/20 08:38	12/05/20 20:17	1
Carbazole	<0.11		0.21	0.11	mg/Kg	☼	12/03/20 08:38	12/05/20 20:17	1
4-Chloroaniline	<0.20		0.86	0.20	mg/Kg	☼	12/03/20 08:38	12/05/20 20:17	1
4-Chloro-3-methylphenol	<0.14		0.42	0.14	mg/Kg	☼	12/03/20 08:38	12/05/20 20:17	1
2-Chloronaphthalene	<0.047		0.21	0.047	mg/Kg	☼	12/03/20 08:38	12/05/20 20:17	1
2-Chlorophenol	<0.073		0.21	0.073	mg/Kg	☼	12/03/20 08:38	12/05/20 20:17	1
4-Chlorophenyl phenyl ether	<0.050		0.21	0.050	mg/Kg	☼	12/03/20 08:38	12/05/20 20:17	1
Chrysene	0.055		0.042	0.012	mg/Kg	☼	12/03/20 08:38	12/05/20 20:17	1
Dibenz(a,h)anthracene	<0.0082		0.042	0.0082	mg/Kg	☼	12/03/20 08:38	12/05/20 20:17	1
Dibenzofuran	<0.050		0.21	0.050	mg/Kg	☼	12/03/20 08:38	12/05/20 20:17	1
1,2-Dichlorobenzene	<0.051		0.21	0.051	mg/Kg	☼	12/03/20 08:38	12/05/20 20:17	1
1,3-Dichlorobenzene	<0.048		0.21	0.048	mg/Kg	☼	12/03/20 08:38	12/05/20 20:17	1
1,4-Dichlorobenzene	<0.055		0.21	0.055	mg/Kg	☼	12/03/20 08:38	12/05/20 20:17	1
3,3'-Dichlorobenzidine	<0.060		0.21	0.060	mg/Kg	☼	12/03/20 08:38	12/05/20 20:17	1
2,4-Dichlorophenol	<0.10		0.42	0.10	mg/Kg	☼	12/03/20 08:38	12/05/20 20:17	1
Diethyl phthalate	<0.072		0.21	0.072	mg/Kg	☼	12/03/20 08:38	12/05/20 20:17	1
2,4-Dimethylphenol	<0.16		0.42	0.16	mg/Kg	☼	12/03/20 08:38	12/05/20 20:17	1
Dimethyl phthalate	<0.056		0.21	0.056	mg/Kg	☼	12/03/20 08:38	12/05/20 20:17	1
Di-n-butyl phthalate	<0.065		0.21	0.065	mg/Kg	☼	12/03/20 08:38	12/05/20 20:17	1
4,6-Dinitro-2-methylphenol	<0.34		0.86	0.34	mg/Kg	☼	12/03/20 08:38	12/05/20 20:17	1
2,4-Dinitrophenol	<0.75		0.86	0.75	mg/Kg	☼	12/03/20 08:38	12/05/20 20:17	1
2,4-Dinitrotoluene	<0.068		0.21	0.068	mg/Kg	☼	12/03/20 08:38	12/05/20 20:17	1
2,6-Dinitrotoluene	<0.084		0.21	0.084	mg/Kg	☼	12/03/20 08:38	12/05/20 20:17	1
Di-n-octyl phthalate	<0.069		0.21	0.069	mg/Kg	☼	12/03/20 08:38	12/05/20 20:17	1
Fluoranthene	0.064		0.042	0.0079	mg/Kg	☼	12/03/20 08:38	12/05/20 20:17	1
Fluorene	<0.0060		0.042	0.0060	mg/Kg	☼	12/03/20 08:38	12/05/20 20:17	1
Hexachlorobenzene	<0.0099		0.086	0.0099	mg/Kg	☼	12/03/20 08:38	12/05/20 20:17	1
Hexachlorobutadiene	<0.067		0.21	0.067	mg/Kg	☼	12/03/20 08:38	12/05/20 20:17	1
Hexachlorocyclopentadiene	<0.24		0.86	0.24	mg/Kg	☼	12/03/20 08:38	12/05/20 20:17	1
Hexachloroethane	<0.065		0.21	0.065	mg/Kg	☼	12/03/20 08:38	12/05/20 20:17	1
Indeno[1,2,3-cd]pyrene	0.029	J	0.042	0.011	mg/Kg	☼	12/03/20 08:38	12/05/20 20:17	1
Isophorone	<0.048		0.21	0.048	mg/Kg	☼	12/03/20 08:38	12/05/20 20:17	1
2-Methylnaphthalene	<0.0078		0.086	0.0078	mg/Kg	☼	12/03/20 08:38	12/05/20 20:17	1
2-Methylphenol	<0.068		0.21	0.068	mg/Kg	☼	12/03/20 08:38	12/05/20 20:17	1
3 & 4 Methylphenol	<0.071		0.21	0.071	mg/Kg	☼	12/03/20 08:38	12/05/20 20:17	1
Naphthalene	<0.0065		0.042	0.0065	mg/Kg	☼	12/03/20 08:38	12/05/20 20:17	1
2-Nitroaniline	<0.057		0.21	0.057	mg/Kg	☼	12/03/20 08:38	12/05/20 20:17	1
3-Nitroaniline	<0.13		0.42	0.13	mg/Kg	☼	12/03/20 08:38	12/05/20 20:17	1
4-Nitroaniline	<0.18		0.42	0.18	mg/Kg	☼	12/03/20 08:38	12/05/20 20:17	1
Nitrobenzene	<0.011		0.042	0.011	mg/Kg	☼	12/03/20 08:38	12/05/20 20:17	1
2-Nitrophenol	<0.10		0.42	0.10	mg/Kg	☼	12/03/20 08:38	12/05/20 20:17	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Client Sample ID: 3138V-6-B01 (0-1.3)

Lab Sample ID: 500-191785-1

Date Collected: 12/01/20 14:30

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 77.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.40		0.86	0.40	mg/Kg	☼	12/03/20 08:38	12/05/20 20:17	1
N-Nitrosodi-n-propylamine	<0.052		0.086	0.052	mg/Kg	☼	12/03/20 08:38	12/05/20 20:17	1
N-Nitrosodiphenylamine	<0.050		0.21	0.050	mg/Kg	☼	12/03/20 08:38	12/05/20 20:17	1
2,2'-oxybis[1-chloropropane]	<0.049		0.21	0.049	mg/Kg	☼	12/03/20 08:38	12/05/20 20:17	1
Pentachlorophenol	<0.68		0.86	0.68	mg/Kg	☼	12/03/20 08:38	12/05/20 20:17	1
Phenanthrene	0.029	J	0.042	0.0059	mg/Kg	☼	12/03/20 08:38	12/05/20 20:17	1
Phenol	<0.095		0.21	0.095	mg/Kg	☼	12/03/20 08:38	12/05/20 20:17	1
Pyrene	0.079		0.042	0.0085	mg/Kg	☼	12/03/20 08:38	12/05/20 20:17	1
1,2,4-Trichlorobenzene	<0.046		0.21	0.046	mg/Kg	☼	12/03/20 08:38	12/05/20 20:17	1
2,4,5-Trichlorophenol	<0.097		0.42	0.097	mg/Kg	☼	12/03/20 08:38	12/05/20 20:17	1
2,4,6-Trichlorophenol	<0.15		0.42	0.15	mg/Kg	☼	12/03/20 08:38	12/05/20 20:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	93		43 - 145				12/03/20 08:38	12/05/20 20:17	1
2-Fluorophenol	100		31 - 166				12/03/20 08:38	12/05/20 20:17	1
Nitrobenzene-d5	75		37 - 147				12/03/20 08:38	12/05/20 20:17	1
Phenol-d5	86		30 - 153				12/03/20 08:38	12/05/20 20:17	1
Terphenyl-d14	96		42 - 157				12/03/20 08:38	12/05/20 20:17	1
2,4,6-Tribromophenol	52		31 - 143				12/03/20 08:38	12/05/20 20:17	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.65	J	1.2	0.24	mg/Kg	☼	12/04/20 17:58	12/07/20 11:38	1
Arsenic	6.2		0.61	0.21	mg/Kg	☼	12/04/20 17:58	12/07/20 11:38	1
Barium	88		0.61	0.070	mg/Kg	☼	12/04/20 17:58	12/07/20 11:38	1
Beryllium	1.0		0.24	0.057	mg/Kg	☼	12/04/20 17:58	12/07/20 11:38	1
Cadmium	0.29		0.12	0.022	mg/Kg	☼	12/04/20 17:58	12/07/20 11:38	1
Chromium	23		0.61	0.30	mg/Kg	☼	12/04/20 17:58	12/07/20 11:38	1
Cobalt	14		0.31	0.080	mg/Kg	☼	12/04/20 17:58	12/07/20 11:38	1
Copper	25		0.61	0.17	mg/Kg	☼	12/04/20 17:58	12/07/20 11:38	1
Iron	24000	B	12	6.4	mg/Kg	☼	12/04/20 17:58	12/07/20 11:38	1
Lead	50		0.31	0.14	mg/Kg	☼	12/04/20 17:58	12/07/20 11:38	1
Magnesium	7600		6.1	3.0	mg/Kg	☼	12/04/20 17:58	12/07/20 11:38	1
Calcium	7700	B	12	2.1	mg/Kg	☼	12/04/20 17:58	12/07/20 11:38	1
Manganese	660		0.61	0.089	mg/Kg	☼	12/04/20 17:58	12/07/20 11:38	1
Nickel	33		0.61	0.18	mg/Kg	☼	12/04/20 17:58	12/07/20 11:38	1
Selenium	0.50	J	0.61	0.36	mg/Kg	☼	12/04/20 17:58	12/07/20 11:38	1
Silver	<0.079		0.31	0.079	mg/Kg	☼	12/04/20 17:58	12/07/20 11:38	1
Thallium	0.33	J	0.61	0.31	mg/Kg	☼	12/04/20 17:58	12/07/20 11:38	1
Vanadium	31		0.31	0.072	mg/Kg	☼	12/04/20 17:58	12/07/20 11:38	1
Zinc	87		1.2	0.54	mg/Kg	☼	12/04/20 17:58	12/07/20 11:38	1
Potassium	2900		31	11	mg/Kg	☼	12/04/20 17:58	12/07/20 11:38	1
Sodium	1700	B	61	9.0	mg/Kg	☼	12/04/20 17:58	12/07/20 11:38	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		12/07/20 16:58	12/08/20 17:14	1
Barium	0.47	J	0.50	0.050	mg/L		12/07/20 16:58	12/08/20 17:14	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/07/20 16:58	12/08/20 17:14	1
Cadmium	0.0054		0.0050	0.0020	mg/L		12/07/20 16:58	12/08/20 17:14	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Client Sample ID: 3138V-6-B01 (0-1.3)

Lab Sample ID: 500-191785-1

Date Collected: 12/01/20 14:30

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 77.1

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		12/07/20 16:58	12/08/20 17:14	1
Chromium	<0.010		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:14	1
Cobalt	0.031		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:14	1
Copper	<0.010		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:14	1
Iron	<0.20		0.40	0.20	mg/L		12/07/20 16:58	12/08/20 17:14	1
Lead	0.043		0.0075	0.0075	mg/L		12/07/20 16:58	12/08/20 17:14	1
Magnesium	74		2.5	0.50	mg/L		12/07/20 16:58	12/08/20 17:14	1
Manganese	11		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:14	1
Nickel	0.030		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:14	1
Potassium	1.5 J		2.5	0.50	mg/L		12/07/20 16:58	12/08/20 17:14	1
Selenium	<0.020		0.050	0.020	mg/L		12/07/20 16:58	12/08/20 17:14	1
Silver	<0.010		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:14	1
Vanadium	<0.010		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:14	1
Zinc	0.14 J		0.50	0.020	mg/L		12/07/20 16:58	12/08/20 17:14	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0020		0.0050	0.0020	mg/L		12/07/20 17:02	12/08/20 13:38	1
Lead	0.29		0.0075	0.0075	mg/L		12/07/20 17:02	12/08/20 13:38	1
Manganese	2.1		0.025	0.010	mg/L		12/07/20 17:02	12/10/20 14:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/07/20 16:58	12/09/20 13:27	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/07/20 16:58	12/09/20 13:27	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/08/20 08:15	12/09/20 08:00	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.020	0.0067	mg/Kg	✱	12/07/20 13:35	12/08/20 10:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.40		0.33	0.16	mg/Kg	✱	12/07/20 10:47	12/07/20 16:03	1
pH	7.7		0.2	0.2	SU			12/08/20 13:08	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Client Sample ID: 3138V-6-B02 (0-1.3)

Lab Sample ID: 500-191785-2

Date Collected: 12/01/20 14:10

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 76.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.011	J	0.020	0.0088	mg/Kg	☼	12/01/20 17:52	12/06/20 20:50	1
Benzene	<0.00052		0.0020	0.00052	mg/Kg	☼	12/01/20 17:52	12/06/20 20:50	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg	☼	12/01/20 17:52	12/06/20 20:50	1
Bromoform	<0.00059		0.0020	0.00059	mg/Kg	☼	12/01/20 17:52	12/06/20 20:50	1
Bromomethane	<0.0019		0.0051	0.0019	mg/Kg	☼	12/01/20 17:52	12/06/20 20:50	1
2-Butanone (MEK)	<0.0023		0.0051	0.0023	mg/Kg	☼	12/01/20 17:52	12/06/20 20:50	1
Carbon disulfide	<0.0011		0.0051	0.0011	mg/Kg	☼	12/01/20 17:52	12/06/20 20:50	1
Carbon tetrachloride	<0.00059	*	0.0020	0.00059	mg/Kg	☼	12/01/20 17:52	12/06/20 20:50	1
Chlorobenzene	<0.00075		0.0020	0.00075	mg/Kg	☼	12/01/20 17:52	12/06/20 20:50	1
Chloroethane	<0.0015		0.0051	0.0015	mg/Kg	☼	12/01/20 17:52	12/06/20 20:50	1
Chloroform	<0.00070		0.0020	0.00070	mg/Kg	☼	12/01/20 17:52	12/06/20 20:50	1
Chloromethane	<0.0020		0.0051	0.0020	mg/Kg	☼	12/01/20 17:52	12/06/20 20:50	1
cis-1,2-Dichloroethene	<0.00057		0.0020	0.00057	mg/Kg	☼	12/01/20 17:52	12/06/20 20:50	1
cis-1,3-Dichloropropene	<0.00061		0.0020	0.00061	mg/Kg	☼	12/01/20 17:52	12/06/20 20:50	1
Dibromochloromethane	<0.00066		0.0020	0.00066	mg/Kg	☼	12/01/20 17:52	12/06/20 20:50	1
1,1-Dichloroethane	<0.00070		0.0020	0.00070	mg/Kg	☼	12/01/20 17:52	12/06/20 20:50	1
1,2-Dichloroethane	<0.0016		0.0051	0.0016	mg/Kg	☼	12/01/20 17:52	12/06/20 20:50	1
1,1-Dichloroethene	<0.00070		0.0020	0.00070	mg/Kg	☼	12/01/20 17:52	12/06/20 20:50	1
1,2-Dichloropropene	<0.00052		0.0020	0.00052	mg/Kg	☼	12/01/20 17:52	12/06/20 20:50	1
1,3-Dichloropropene, Total	<0.00071		0.0020	0.00071	mg/Kg	☼	12/01/20 17:52	12/06/20 20:50	1
Ethylbenzene	<0.00097		0.0020	0.00097	mg/Kg	☼	12/01/20 17:52	12/06/20 20:50	1
2-Hexanone	<0.0016		0.0051	0.0016	mg/Kg	☼	12/01/20 17:52	12/06/20 20:50	1
Methylene Chloride	<0.0020		0.0051	0.0020	mg/Kg	☼	12/01/20 17:52	12/06/20 20:50	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0051	0.0015	mg/Kg	☼	12/01/20 17:52	12/06/20 20:50	1
Methyl tert-butyl ether	<0.00060		0.0020	0.00060	mg/Kg	☼	12/01/20 17:52	12/06/20 20:50	1
Styrene	<0.00061		0.0020	0.00061	mg/Kg	☼	12/01/20 17:52	12/06/20 20:50	1
1,1,2,2-Tetrachloroethane	<0.00065		0.0020	0.00065	mg/Kg	☼	12/01/20 17:52	12/06/20 20:50	1
Tetrachloroethene	<0.00069		0.0020	0.00069	mg/Kg	☼	12/01/20 17:52	12/06/20 20:50	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg	☼	12/01/20 17:52	12/06/20 20:50	1
trans-1,2-Dichloroethene	<0.00090		0.0020	0.00090	mg/Kg	☼	12/01/20 17:52	12/06/20 20:50	1
trans-1,3-Dichloropropene	<0.00071		0.0020	0.00071	mg/Kg	☼	12/01/20 17:52	12/06/20 20:50	1
1,1,1-Trichloroethane	<0.00068		0.0020	0.00068	mg/Kg	☼	12/01/20 17:52	12/06/20 20:50	1
1,1,2-Trichloroethane	<0.00087		0.0020	0.00087	mg/Kg	☼	12/01/20 17:52	12/06/20 20:50	1
Trichloroethene	<0.00069		0.0020	0.00069	mg/Kg	☼	12/01/20 17:52	12/06/20 20:50	1
Vinyl acetate	<0.0018		0.0051	0.0018	mg/Kg	☼	12/01/20 17:52	12/06/20 20:50	1
Vinyl chloride	<0.00090		0.0020	0.00090	mg/Kg	☼	12/01/20 17:52	12/06/20 20:50	1
Xylenes, Total	<0.00065		0.0041	0.00065	mg/Kg	☼	12/01/20 17:52	12/06/20 20:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		75 - 131	12/01/20 17:52	12/06/20 20:50	1
Dibromofluoromethane	105		75 - 126	12/01/20 17:52	12/06/20 20:50	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	12/01/20 17:52	12/06/20 20:50	1
Toluene-d8 (Surr)	86		75 - 124	12/01/20 17:52	12/06/20 20:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.021	J	0.043	0.0077	mg/Kg	☼	12/03/20 08:38	12/05/20 19:49	1
Acenaphthylene	0.0062	J	0.043	0.0056	mg/Kg	☼	12/03/20 08:38	12/05/20 19:49	1
Anthracene	0.037	J	0.043	0.0072	mg/Kg	☼	12/03/20 08:38	12/05/20 19:49	1
Benzo[a]anthracene	0.20		0.043	0.0058	mg/Kg	☼	12/03/20 08:38	12/05/20 19:49	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Client Sample ID: 3138V-6-B02 (0-1.3)

Lab Sample ID: 500-191785-2

Date Collected: 12/01/20 14:10

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 76.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.41		0.86	0.41	mg/Kg	☼	12/03/20 08:38	12/05/20 19:49	1
N-Nitrosodi-n-propylamine	<0.052		0.086	0.052	mg/Kg	☼	12/03/20 08:38	12/05/20 19:49	1
N-Nitrosodiphenylamine	<0.051		0.22	0.051	mg/Kg	☼	12/03/20 08:38	12/05/20 19:49	1
2,2'-oxybis[1-chloropropane]	<0.050		0.22	0.050	mg/Kg	☼	12/03/20 08:38	12/05/20 19:49	1
Pentachlorophenol	<0.69		0.86	0.69	mg/Kg	☼	12/03/20 08:38	12/05/20 19:49	1
Phenanthrene	0.19		0.043	0.0060	mg/Kg	☼	12/03/20 08:38	12/05/20 19:49	1
Phenol	<0.095		0.22	0.095	mg/Kg	☼	12/03/20 08:38	12/05/20 19:49	1
Pyrene	0.44		0.043	0.0085	mg/Kg	☼	12/03/20 08:38	12/05/20 19:49	1
1,2,4-Trichlorobenzene	<0.046		0.22	0.046	mg/Kg	☼	12/03/20 08:38	12/05/20 19:49	1
2,4,5-Trichlorophenol	<0.098		0.43	0.098	mg/Kg	☼	12/03/20 08:38	12/05/20 19:49	1
2,4,6-Trichlorophenol	<0.15		0.43	0.15	mg/Kg	☼	12/03/20 08:38	12/05/20 19:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	89		43 - 145				12/03/20 08:38	12/05/20 19:49	1
2-Fluorophenol	90		31 - 166				12/03/20 08:38	12/05/20 19:49	1
Nitrobenzene-d5	73		37 - 147				12/03/20 08:38	12/05/20 19:49	1
Phenol-d5	78		30 - 153				12/03/20 08:38	12/05/20 19:49	1
Terphenyl-d14	100		42 - 157				12/03/20 08:38	12/05/20 19:49	1
2,4,6-Tribromophenol	43		31 - 143				12/03/20 08:38	12/05/20 19:49	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.61	J	1.2	0.24	mg/Kg	☼	12/04/20 17:58	12/07/20 11:41	1
Arsenic	6.4		0.61	0.21	mg/Kg	☼	12/04/20 17:58	12/07/20 11:41	1
Barium	90		0.61	0.070	mg/Kg	☼	12/04/20 17:58	12/07/20 11:41	1
Beryllium	1.0		0.24	0.057	mg/Kg	☼	12/04/20 17:58	12/07/20 11:41	1
Cadmium	0.63		0.12	0.022	mg/Kg	☼	12/04/20 17:58	12/07/20 11:41	1
Chromium	20		0.61	0.30	mg/Kg	☼	12/04/20 17:58	12/07/20 11:41	1
Cobalt	13		0.30	0.080	mg/Kg	☼	12/04/20 17:58	12/07/20 11:41	1
Copper	54		0.61	0.17	mg/Kg	☼	12/04/20 17:58	12/07/20 11:41	1
Iron	21000	B	12	6.3	mg/Kg	☼	12/04/20 17:58	12/07/20 11:41	1
Lead	170		0.30	0.14	mg/Kg	☼	12/04/20 17:58	12/07/20 11:41	1
Magnesium	16000		6.1	3.0	mg/Kg	☼	12/04/20 17:58	12/07/20 11:41	1
Calcium	23000	B	12	2.1	mg/Kg	☼	12/04/20 17:58	12/07/20 11:41	1
Manganese	800		0.61	0.088	mg/Kg	☼	12/04/20 17:58	12/07/20 11:41	1
Nickel	30		0.61	0.18	mg/Kg	☼	12/04/20 17:58	12/07/20 11:41	1
Selenium	0.57	J	0.61	0.36	mg/Kg	☼	12/04/20 17:58	12/07/20 11:41	1
Silver	<0.079		0.30	0.079	mg/Kg	☼	12/04/20 17:58	12/07/20 11:41	1
Thallium	<0.30		0.61	0.30	mg/Kg	☼	12/04/20 17:58	12/07/20 11:41	1
Vanadium	28		0.30	0.072	mg/Kg	☼	12/04/20 17:58	12/07/20 11:41	1
Zinc	290		1.2	0.54	mg/Kg	☼	12/04/20 17:58	12/07/20 11:41	1
Potassium	2400		30	11	mg/Kg	☼	12/04/20 17:58	12/07/20 11:41	1
Sodium	1800	B	61	9.0	mg/Kg	☼	12/04/20 17:58	12/07/20 11:41	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		12/07/20 16:58	12/08/20 17:17	1
Barium	0.35	J	0.50	0.050	mg/L		12/07/20 16:58	12/08/20 17:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/07/20 16:58	12/08/20 17:17	1
Cadmium	0.0036	J	0.0050	0.0020	mg/L		12/07/20 16:58	12/08/20 17:17	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Client Sample ID: 3138V-6-B02 (0-1.3)

Lab Sample ID: 500-191785-2

Date Collected: 12/01/20 14:10

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 76.8

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		12/07/20 16:58	12/08/20 17:17	1
Chromium	<0.010		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:17	1
Cobalt	<0.010		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:17	1
Copper	<0.010		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:17	1
Iron	<0.20		0.40	0.20	mg/L		12/07/20 16:58	12/08/20 17:17	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/07/20 16:58	12/08/20 17:17	1
Magnesium	110		2.5	0.50	mg/L		12/07/20 16:58	12/08/20 17:17	1
Manganese	3.5		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:17	1
Nickel	0.015	J	0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:17	1
Potassium	0.92	J	2.5	0.50	mg/L		12/07/20 16:58	12/08/20 17:17	1
Selenium	<0.020		0.050	0.020	mg/L		12/07/20 16:58	12/08/20 17:17	1
Silver	<0.010		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:17	1
Vanadium	<0.010		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:17	1
Zinc	0.029	J	0.50	0.020	mg/L		12/07/20 16:58	12/08/20 17:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	2.3		0.025	0.010	mg/L		12/07/20 17:02	12/10/20 14:36	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		12/07/20 16:58	12/09/20 13:29	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/07/20 16:58	12/09/20 13:29	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/08/20 08:15	12/09/20 08:02	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.037		0.021	0.0071	mg/Kg	✱	12/07/20 13:35	12/08/20 10:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.28		0.28	0.14	mg/Kg	✱	12/07/20 10:47	12/07/20 16:05	1
pH	8.0		0.2	0.2	SU			12/08/20 13:11	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Client Sample ID: 3138V-6-B03 (0-1.3)

Lab Sample ID: 500-191785-3

Date Collected: 12/01/20 13:45

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 78.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0076		0.018	0.0076	mg/Kg	☼	12/01/20 17:52	12/06/20 21:16	1
Benzene	<0.00045		0.0018	0.00045	mg/Kg	☼	12/01/20 17:52	12/06/20 21:16	1
Bromodichloromethane	<0.00036		0.0018	0.00036	mg/Kg	☼	12/01/20 17:52	12/06/20 21:16	1
Bromoform	<0.00051		0.0018	0.00051	mg/Kg	☼	12/01/20 17:52	12/06/20 21:16	1
Bromomethane	<0.0017		0.0044	0.0017	mg/Kg	☼	12/01/20 17:52	12/06/20 21:16	1
2-Butanone (MEK)	<0.0019		0.0044	0.0019	mg/Kg	☼	12/01/20 17:52	12/06/20 21:16	1
Carbon disulfide	<0.00091		0.0044	0.00091	mg/Kg	☼	12/01/20 17:52	12/06/20 21:16	1
Carbon tetrachloride	<0.00051 *		0.0018	0.00051	mg/Kg	☼	12/01/20 17:52	12/06/20 21:16	1
Chlorobenzene	<0.00065		0.0018	0.00065	mg/Kg	☼	12/01/20 17:52	12/06/20 21:16	1
Chloroethane	<0.0013		0.0044	0.0013	mg/Kg	☼	12/01/20 17:52	12/06/20 21:16	1
Chloroform	<0.00061		0.0018	0.00061	mg/Kg	☼	12/01/20 17:52	12/06/20 21:16	1
Chloromethane	<0.0018		0.0044	0.0018	mg/Kg	☼	12/01/20 17:52	12/06/20 21:16	1
cis-1,2-Dichloroethene	<0.00049		0.0018	0.00049	mg/Kg	☼	12/01/20 17:52	12/06/20 21:16	1
cis-1,3-Dichloropropene	<0.00053		0.0018	0.00053	mg/Kg	☼	12/01/20 17:52	12/06/20 21:16	1
Dibromochloromethane	<0.00057		0.0018	0.00057	mg/Kg	☼	12/01/20 17:52	12/06/20 21:16	1
1,1-Dichloroethane	<0.00060		0.0018	0.00060	mg/Kg	☼	12/01/20 17:52	12/06/20 21:16	1
1,2-Dichloroethane	<0.0014		0.0044	0.0014	mg/Kg	☼	12/01/20 17:52	12/06/20 21:16	1
1,1-Dichloroethene	<0.00060		0.0018	0.00060	mg/Kg	☼	12/01/20 17:52	12/06/20 21:16	1
1,2-Dichloropropene	<0.00045		0.0018	0.00045	mg/Kg	☼	12/01/20 17:52	12/06/20 21:16	1
1,3-Dichloropropene, Total	<0.00062		0.0018	0.00062	mg/Kg	☼	12/01/20 17:52	12/06/20 21:16	1
Ethylbenzene	<0.00084		0.0018	0.00084	mg/Kg	☼	12/01/20 17:52	12/06/20 21:16	1
2-Hexanone	<0.0014		0.0044	0.0014	mg/Kg	☼	12/01/20 17:52	12/06/20 21:16	1
Methylene Chloride	<0.0017		0.0044	0.0017	mg/Kg	☼	12/01/20 17:52	12/06/20 21:16	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0044	0.0013	mg/Kg	☼	12/01/20 17:52	12/06/20 21:16	1
Methyl tert-butyl ether	<0.00051		0.0018	0.00051	mg/Kg	☼	12/01/20 17:52	12/06/20 21:16	1
Styrene	<0.00053		0.0018	0.00053	mg/Kg	☼	12/01/20 17:52	12/06/20 21:16	1
1,1,2,2-Tetrachloroethane	<0.00056		0.0018	0.00056	mg/Kg	☼	12/01/20 17:52	12/06/20 21:16	1
Tetrachloroethene	<0.00060		0.0018	0.00060	mg/Kg	☼	12/01/20 17:52	12/06/20 21:16	1
Toluene	<0.00044		0.0018	0.00044	mg/Kg	☼	12/01/20 17:52	12/06/20 21:16	1
trans-1,2-Dichloroethene	<0.00078		0.0018	0.00078	mg/Kg	☼	12/01/20 17:52	12/06/20 21:16	1
trans-1,3-Dichloropropene	<0.00062		0.0018	0.00062	mg/Kg	☼	12/01/20 17:52	12/06/20 21:16	1
1,1,1-Trichloroethane	<0.00059		0.0018	0.00059	mg/Kg	☼	12/01/20 17:52	12/06/20 21:16	1
1,1,2-Trichloroethane	<0.00075		0.0018	0.00075	mg/Kg	☼	12/01/20 17:52	12/06/20 21:16	1
Trichloroethene	<0.00059		0.0018	0.00059	mg/Kg	☼	12/01/20 17:52	12/06/20 21:16	1
Vinyl acetate	<0.0015		0.0044	0.0015	mg/Kg	☼	12/01/20 17:52	12/06/20 21:16	1
Vinyl chloride	<0.00078		0.0018	0.00078	mg/Kg	☼	12/01/20 17:52	12/06/20 21:16	1
Xylenes, Total	<0.00056		0.0035	0.00056	mg/Kg	☼	12/01/20 17:52	12/06/20 21:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		75 - 131	12/01/20 17:52	12/06/20 21:16	1
Dibromofluoromethane	111		75 - 126	12/01/20 17:52	12/06/20 21:16	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	12/01/20 17:52	12/06/20 21:16	1
Toluene-d8 (Surr)	88		75 - 124	12/01/20 17:52	12/06/20 21:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0076		0.042	0.0076	mg/Kg	☼	12/03/20 08:38	12/03/20 21:34	1
Acenaphthylene	<0.0056		0.042	0.0056	mg/Kg	☼	12/03/20 08:38	12/03/20 21:34	1
Anthracene	<0.0071		0.042	0.0071	mg/Kg	☼	12/03/20 08:38	12/03/20 21:34	1
Benzo[a]anthracene	<0.0057		0.042	0.0057	mg/Kg	☼	12/03/20 08:38	12/03/20 21:34	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Client Sample ID: 3138V-6-B03 (0-1.3)

Lab Sample ID: 500-191785-3

Date Collected: 12/01/20 13:45

Matrix: Solid

Date Received: 12/01/20 17:01

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	<0.40		0.85	0.40	mg/Kg	☼	12/03/20 08:38	12/03/20 21:34	1
N-Nitrosodi-n-propylamine	<0.052		0.085	0.052	mg/Kg	☼	12/03/20 08:38	12/03/20 21:34	1
N-Nitrosodiphenylamine	<0.050		0.21	0.050	mg/Kg	☼	12/03/20 08:38	12/03/20 21:34	1
2,2'-oxybis[1-chloropropane]	<0.049		0.21	0.049	mg/Kg	☼	12/03/20 08:38	12/03/20 21:34	1
Pentachlorophenol	<0.68		0.85	0.68	mg/Kg	☼	12/03/20 08:38	12/03/20 21:34	1
Phenanthrene	<0.0059		0.042	0.0059	mg/Kg	☼	12/03/20 08:38	12/03/20 21:34	1
Phenol	<0.094		0.21	0.094	mg/Kg	☼	12/03/20 08:38	12/03/20 21:34	1
Pyrene	0.011	J	0.042	0.0084	mg/Kg	☼	12/03/20 08:38	12/03/20 21:34	1
1,2,4-Trichlorobenzene	<0.045		0.21	0.045	mg/Kg	☼	12/03/20 08:38	12/03/20 21:34	1
2,4,5-Trichlorophenol	<0.096		0.42	0.096	mg/Kg	☼	12/03/20 08:38	12/03/20 21:34	1
2,4,6-Trichlorophenol	<0.14		0.42	0.14	mg/Kg	☼	12/03/20 08:38	12/03/20 21:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	81		43 - 145				12/03/20 08:38	12/03/20 21:34	1
2-Fluorophenol	96		31 - 166				12/03/20 08:38	12/03/20 21:34	1
Nitrobenzene-d5	69		37 - 147				12/03/20 08:38	12/03/20 21:34	1
Phenol-d5	82		30 - 153				12/03/20 08:38	12/03/20 21:34	1
Terphenyl-d14	103		42 - 157				12/03/20 08:38	12/03/20 21:34	1
2,4,6-Tribromophenol	80		31 - 143				12/03/20 08:38	12/03/20 21:34	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.62	J	1.2	0.23	mg/Kg	☼	12/04/20 17:58	12/07/20 11:44	1
Arsenic	8.2		0.59	0.20	mg/Kg	☼	12/04/20 17:58	12/07/20 11:44	1
Barium	110		0.59	0.067	mg/Kg	☼	12/04/20 17:58	12/07/20 11:44	1
Beryllium	0.99		0.24	0.055	mg/Kg	☼	12/04/20 17:58	12/07/20 11:44	1
Cadmium	0.40		0.12	0.021	mg/Kg	☼	12/04/20 17:58	12/07/20 11:44	1
Chromium	22		0.59	0.29	mg/Kg	☼	12/04/20 17:58	12/07/20 11:44	1
Cobalt	16		0.29	0.077	mg/Kg	☼	12/04/20 17:58	12/07/20 11:44	1
Copper	26		0.59	0.16	mg/Kg	☼	12/04/20 17:58	12/07/20 11:44	1
Iron	25000	B	12	6.1	mg/Kg	☼	12/04/20 17:58	12/07/20 11:44	1
Lead	53		0.29	0.14	mg/Kg	☼	12/04/20 17:58	12/07/20 11:44	1
Magnesium	8300		5.9	2.9	mg/Kg	☼	12/04/20 17:58	12/07/20 11:44	1
Calcium	10000	B	12	2.0	mg/Kg	☼	12/04/20 17:58	12/07/20 11:44	1
Manganese	850		0.59	0.085	mg/Kg	☼	12/04/20 17:58	12/07/20 11:44	1
Nickel	35		0.59	0.17	mg/Kg	☼	12/04/20 17:58	12/07/20 11:44	1
Selenium	0.74		0.59	0.35	mg/Kg	☼	12/04/20 17:58	12/07/20 11:44	1
Silver	<0.076		0.29	0.076	mg/Kg	☼	12/04/20 17:58	12/07/20 11:44	1
Thallium	<0.29		0.59	0.29	mg/Kg	☼	12/04/20 17:58	12/07/20 11:44	1
Vanadium	33		0.29	0.069	mg/Kg	☼	12/04/20 17:58	12/07/20 11:44	1
Zinc	88		1.2	0.52	mg/Kg	☼	12/04/20 17:58	12/07/20 11:44	1
Potassium	2800		29	10	mg/Kg	☼	12/04/20 17:58	12/07/20 11:44	1
Sodium	1500	B	59	8.7	mg/Kg	☼	12/04/20 17:58	12/07/20 11:44	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		12/07/20 16:58	12/08/20 17:20	1
Barium	0.36	J	0.50	0.050	mg/L		12/07/20 16:58	12/08/20 17:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/07/20 16:58	12/08/20 17:20	1
Cadmium	0.0024	J	0.0050	0.0020	mg/L		12/07/20 16:58	12/08/20 17:20	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Client Sample ID: 3138V-6-B03 (0-1.3)

Lab Sample ID: 500-191785-3

Date Collected: 12/01/20 13:45

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 78.5

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		12/07/20 16:58	12/08/20 17:20	1
Chromium	<0.010		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:20	1
Cobalt	0.014	J	0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:20	1
Copper	<0.010		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:20	1
Iron	0.43		0.40	0.20	mg/L		12/07/20 16:58	12/08/20 17:20	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/07/20 16:58	12/08/20 17:20	1
Magnesium	96		2.5	0.50	mg/L		12/07/20 16:58	12/08/20 17:20	1
Manganese	7.9		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:20	1
Nickel	0.015	J	0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:20	1
Potassium	1.3	J	2.5	0.50	mg/L		12/07/20 16:58	12/08/20 17:20	1
Selenium	<0.020		0.050	0.020	mg/L		12/07/20 16:58	12/08/20 17:20	1
Silver	<0.010		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:20	1
Vanadium	<0.010		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:20	1
Zinc	<0.020		0.50	0.020	mg/L		12/07/20 16:58	12/08/20 17:20	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		12/07/20 17:02	12/10/20 14:39	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		12/07/20 16:58	12/09/20 13:31	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/07/20 16:58	12/09/20 13:31	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		12/08/20 08:15	12/09/20 08:04	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.042		0.021	0.0068	mg/Kg	☼	12/07/20 13:35	12/08/20 10:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.37		0.33	0.16	mg/Kg	☼	12/07/20 10:47	12/07/20 16:07	1
pH	7.7		0.2	0.2	SU			12/08/20 13:14	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Client Sample ID: 3138V-6-B04 (0-6)

Lab Sample ID: 500-191785-4

Date Collected: 12/01/20 13:10

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 78.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.012	J	0.019	0.0082	mg/Kg	☼	12/01/20 17:52	12/07/20 12:44	1
Benzene	<0.00048		0.0019	0.00048	mg/Kg	☼	12/01/20 17:52	12/07/20 12:44	1
Bromodichloromethane	<0.00038		0.0019	0.00038	mg/Kg	☼	12/01/20 17:52	12/07/20 12:44	1
Bromoform	<0.00055		0.0019	0.00055	mg/Kg	☼	12/01/20 17:52	12/07/20 12:44	1
Bromomethane	<0.0018		0.0047	0.0018	mg/Kg	☼	12/01/20 17:52	12/07/20 12:44	1
2-Butanone (MEK)	<0.0021		0.0047	0.0021	mg/Kg	☼	12/01/20 17:52	12/07/20 12:44	1
Carbon disulfide	<0.00098		0.0047	0.00098	mg/Kg	☼	12/01/20 17:52	12/07/20 12:44	1
Carbon tetrachloride	<0.00054		0.0019	0.00054	mg/Kg	☼	12/01/20 17:52	12/07/20 12:44	1
Chlorobenzene	<0.00069		0.0019	0.00069	mg/Kg	☼	12/01/20 17:52	12/07/20 12:44	1
Chloroethane	<0.0014		0.0047	0.0014	mg/Kg	☼	12/01/20 17:52	12/07/20 12:44	1
Chloroform	<0.00065		0.0019	0.00065	mg/Kg	☼	12/01/20 17:52	12/07/20 12:44	1
Chloromethane	<0.0019		0.0047	0.0019	mg/Kg	☼	12/01/20 17:52	12/07/20 12:44	1
cis-1,2-Dichloroethene	<0.00052		0.0019	0.00052	mg/Kg	☼	12/01/20 17:52	12/07/20 12:44	1
cis-1,3-Dichloropropene	<0.00057		0.0019	0.00057	mg/Kg	☼	12/01/20 17:52	12/07/20 12:44	1
Dibromochloromethane	<0.00061		0.0019	0.00061	mg/Kg	☼	12/01/20 17:52	12/07/20 12:44	1
1,1-Dichloroethane	<0.00064		0.0019	0.00064	mg/Kg	☼	12/01/20 17:52	12/07/20 12:44	1
1,2-Dichloroethane	<0.0015		0.0047	0.0015	mg/Kg	☼	12/01/20 17:52	12/07/20 12:44	1
1,1-Dichloroethene	<0.00065		0.0019	0.00065	mg/Kg	☼	12/01/20 17:52	12/07/20 12:44	1
1,2-Dichloropropene	<0.00049		0.0019	0.00049	mg/Kg	☼	12/01/20 17:52	12/07/20 12:44	1
1,3-Dichloropropene, Total	<0.00066		0.0019	0.00066	mg/Kg	☼	12/01/20 17:52	12/07/20 12:44	1
Ethylbenzene	<0.00090		0.0019	0.00090	mg/Kg	☼	12/01/20 17:52	12/07/20 12:44	1
2-Hexanone	<0.0015		0.0047	0.0015	mg/Kg	☼	12/01/20 17:52	12/07/20 12:44	1
Methylene Chloride	<0.0018		0.0047	0.0018	mg/Kg	☼	12/01/20 17:52	12/07/20 12:44	1
4-Methyl-2-pentanone (MIBK)	<0.0014		0.0047	0.0014	mg/Kg	☼	12/01/20 17:52	12/07/20 12:44	1
Methyl tert-butyl ether	<0.00055		0.0019	0.00055	mg/Kg	☼	12/01/20 17:52	12/07/20 12:44	1
Styrene	<0.00057		0.0019	0.00057	mg/Kg	☼	12/01/20 17:52	12/07/20 12:44	1
1,1,2,2-Tetrachloroethane	<0.00060		0.0019	0.00060	mg/Kg	☼	12/01/20 17:52	12/07/20 12:44	1
Tetrachloroethene	<0.00064		0.0019	0.00064	mg/Kg	☼	12/01/20 17:52	12/07/20 12:44	1
Toluene	<0.00047		0.0019	0.00047	mg/Kg	☼	12/01/20 17:52	12/07/20 12:44	1
trans-1,2-Dichloroethene	<0.00083		0.0019	0.00083	mg/Kg	☼	12/01/20 17:52	12/07/20 12:44	1
trans-1,3-Dichloropropene	<0.00066		0.0019	0.00066	mg/Kg	☼	12/01/20 17:52	12/07/20 12:44	1
1,1,1-Trichloroethane	<0.00063		0.0019	0.00063	mg/Kg	☼	12/01/20 17:52	12/07/20 12:44	1
1,1,2-Trichloroethane	<0.00081		0.0019	0.00081	mg/Kg	☼	12/01/20 17:52	12/07/20 12:44	1
Trichloroethene	<0.00063		0.0019	0.00063	mg/Kg	☼	12/01/20 17:52	12/07/20 12:44	1
Vinyl acetate	<0.0016		0.0047	0.0016	mg/Kg	☼	12/01/20 17:52	12/07/20 12:44	1
Vinyl chloride	<0.00083		0.0019	0.00083	mg/Kg	☼	12/01/20 17:52	12/07/20 12:44	1
Xylenes, Total	<0.00060		0.0038	0.00060	mg/Kg	☼	12/01/20 17:52	12/07/20 12:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		75 - 131	12/01/20 17:52	12/07/20 12:44	1
Dibromofluoromethane	99		75 - 126	12/01/20 17:52	12/07/20 12:44	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	12/01/20 17:52	12/07/20 12:44	1
Toluene-d8 (Surr)	87		75 - 124	12/01/20 17:52	12/07/20 12:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0075		0.042	0.0075	mg/Kg	☼	12/03/20 08:38	12/03/20 22:04	1
Acenaphthylene	<0.0055		0.042	0.0055	mg/Kg	☼	12/03/20 08:38	12/03/20 22:04	1
Anthracene	<0.0070		0.042	0.0070	mg/Kg	☼	12/03/20 08:38	12/03/20 22:04	1
Benzo[a]anthracene	0.010	J	0.042	0.0056	mg/Kg	☼	12/03/20 08:38	12/03/20 22:04	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Client Sample ID: 3138V-6-B04 (0-6)

Lab Sample ID: 500-191785-4

Date Collected: 12/01/20 13:10

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 78.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.018	J	0.042	0.0081	mg/Kg	☼	12/03/20 08:38	12/03/20 22:04	1
Benzo[b]fluoranthene	0.019	J	0.042	0.0091	mg/Kg	☼	12/03/20 08:38	12/03/20 22:04	1
Benzo[g,h,i]perylene	<0.014		0.042	0.014	mg/Kg	☼	12/03/20 08:38	12/03/20 22:04	1
Benzo[k]fluoranthene	<0.012		0.042	0.012	mg/Kg	☼	12/03/20 08:38	12/03/20 22:04	1
Bis(2-chloroethoxy)methane	<0.043		0.21	0.043	mg/Kg	☼	12/03/20 08:38	12/03/20 22:04	1
Bis(2-chloroethyl)ether	<0.063		0.21	0.063	mg/Kg	☼	12/03/20 08:38	12/03/20 22:04	1
Bis(2-ethylhexyl) phthalate	<0.077		0.21	0.077	mg/Kg	☼	12/03/20 08:38	12/03/20 22:04	1
4-Bromophenyl phenyl ether	<0.055		0.21	0.055	mg/Kg	☼	12/03/20 08:38	12/03/20 22:04	1
Butyl benzyl phthalate	<0.080		0.21	0.080	mg/Kg	☼	12/03/20 08:38	12/03/20 22:04	1
Carbazole	<0.10		0.21	0.10	mg/Kg	☼	12/03/20 08:38	12/03/20 22:04	1
4-Chloroaniline	<0.20		0.85	0.20	mg/Kg	☼	12/03/20 08:38	12/03/20 22:04	1
4-Chloro-3-methylphenol	<0.14		0.42	0.14	mg/Kg	☼	12/03/20 08:38	12/03/20 22:04	1
2-Chloronaphthalene	<0.046		0.21	0.046	mg/Kg	☼	12/03/20 08:38	12/03/20 22:04	1
2-Chlorophenol	<0.072		0.21	0.072	mg/Kg	☼	12/03/20 08:38	12/03/20 22:04	1
4-Chlorophenyl phenyl ether	<0.049		0.21	0.049	mg/Kg	☼	12/03/20 08:38	12/03/20 22:04	1
Chrysene	0.011	J	0.042	0.011	mg/Kg	☼	12/03/20 08:38	12/03/20 22:04	1
Dibenz(a,h)anthracene	<0.0081		0.042	0.0081	mg/Kg	☼	12/03/20 08:38	12/03/20 22:04	1
Dibenzofuran	<0.049		0.21	0.049	mg/Kg	☼	12/03/20 08:38	12/03/20 22:04	1
1,2-Dichlorobenzene	<0.050		0.21	0.050	mg/Kg	☼	12/03/20 08:38	12/03/20 22:04	1
1,3-Dichlorobenzene	<0.047		0.21	0.047	mg/Kg	☼	12/03/20 08:38	12/03/20 22:04	1
1,4-Dichlorobenzene	<0.054		0.21	0.054	mg/Kg	☼	12/03/20 08:38	12/03/20 22:04	1
3,3'-Dichlorobenzidine	<0.059		0.21	0.059	mg/Kg	☼	12/03/20 08:38	12/03/20 22:04	1
2,4-Dichlorophenol	<0.10		0.42	0.10	mg/Kg	☼	12/03/20 08:38	12/03/20 22:04	1
Diethyl phthalate	<0.071		0.21	0.071	mg/Kg	☼	12/03/20 08:38	12/03/20 22:04	1
2,4-Dimethylphenol	<0.16		0.42	0.16	mg/Kg	☼	12/03/20 08:38	12/03/20 22:04	1
Dimethyl phthalate	<0.055		0.21	0.055	mg/Kg	☼	12/03/20 08:38	12/03/20 22:04	1
Di-n-butyl phthalate	<0.064		0.21	0.064	mg/Kg	☼	12/03/20 08:38	12/03/20 22:04	1
4,6-Dinitro-2-methylphenol	<0.34		0.85	0.34	mg/Kg	☼	12/03/20 08:38	12/03/20 22:04	1
2,4-Dinitrophenol	<0.74		0.85	0.74	mg/Kg	☼	12/03/20 08:38	12/03/20 22:04	1
2,4-Dinitrotoluene	<0.067		0.21	0.067	mg/Kg	☼	12/03/20 08:38	12/03/20 22:04	1
2,6-Dinitrotoluene	<0.083		0.21	0.083	mg/Kg	☼	12/03/20 08:38	12/03/20 22:04	1
Di-n-octyl phthalate	<0.068		0.21	0.068	mg/Kg	☼	12/03/20 08:38	12/03/20 22:04	1
Fluoranthene	0.020	J	0.042	0.0078	mg/Kg	☼	12/03/20 08:38	12/03/20 22:04	1
Fluorene	<0.0059		0.042	0.0059	mg/Kg	☼	12/03/20 08:38	12/03/20 22:04	1
Hexachlorobenzene	<0.0097		0.085	0.0097	mg/Kg	☼	12/03/20 08:38	12/03/20 22:04	1
Hexachlorobutadiene	<0.066		0.21	0.066	mg/Kg	☼	12/03/20 08:38	12/03/20 22:04	1
Hexachlorocyclopentadiene	<0.24		0.85	0.24	mg/Kg	☼	12/03/20 08:38	12/03/20 22:04	1
Hexachloroethane	<0.064		0.21	0.064	mg/Kg	☼	12/03/20 08:38	12/03/20 22:04	1
Indeno[1,2,3-cd]pyrene	0.013	J	0.042	0.011	mg/Kg	☼	12/03/20 08:38	12/03/20 22:04	1
Isophorone	<0.047		0.21	0.047	mg/Kg	☼	12/03/20 08:38	12/03/20 22:04	1
2-Methylnaphthalene	<0.0077		0.085	0.0077	mg/Kg	☼	12/03/20 08:38	12/03/20 22:04	1
2-Methylphenol	<0.067		0.21	0.067	mg/Kg	☼	12/03/20 08:38	12/03/20 22:04	1
3 & 4 Methylphenol	<0.070		0.21	0.070	mg/Kg	☼	12/03/20 08:38	12/03/20 22:04	1
Naphthalene	<0.0065		0.042	0.0065	mg/Kg	☼	12/03/20 08:38	12/03/20 22:04	1
2-Nitroaniline	<0.056		0.21	0.056	mg/Kg	☼	12/03/20 08:38	12/03/20 22:04	1
3-Nitroaniline	<0.13		0.42	0.13	mg/Kg	☼	12/03/20 08:38	12/03/20 22:04	1
4-Nitroaniline	<0.18		0.42	0.18	mg/Kg	☼	12/03/20 08:38	12/03/20 22:04	1
Nitrobenzene	<0.010		0.042	0.010	mg/Kg	☼	12/03/20 08:38	12/03/20 22:04	1
2-Nitrophenol	<0.099		0.42	0.099	mg/Kg	☼	12/03/20 08:38	12/03/20 22:04	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Client Sample ID: 3138V-6-B04 (0-6)

Lab Sample ID: 500-191785-4

Date Collected: 12/01/20 13:10

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 78.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.40		0.85	0.40	mg/Kg	☼	12/03/20 08:38	12/03/20 22:04	1
N-Nitrosodi-n-propylamine	<0.051		0.085	0.051	mg/Kg	☼	12/03/20 08:38	12/03/20 22:04	1
N-Nitrosodiphenylamine	<0.050		0.21	0.050	mg/Kg	☼	12/03/20 08:38	12/03/20 22:04	1
2,2'-oxybis[1-chloropropane]	<0.049		0.21	0.049	mg/Kg	☼	12/03/20 08:38	12/03/20 22:04	1
Pentachlorophenol	<0.67		0.85	0.67	mg/Kg	☼	12/03/20 08:38	12/03/20 22:04	1
Phenanthrene	0.010	J	0.042	0.0059	mg/Kg	☼	12/03/20 08:38	12/03/20 22:04	1
Phenol	<0.093		0.21	0.093	mg/Kg	☼	12/03/20 08:38	12/03/20 22:04	1
Pyrene	0.019	J	0.042	0.0083	mg/Kg	☼	12/03/20 08:38	12/03/20 22:04	1
1,2,4-Trichlorobenzene	<0.045		0.21	0.045	mg/Kg	☼	12/03/20 08:38	12/03/20 22:04	1
2,4,5-Trichlorophenol	<0.096		0.42	0.096	mg/Kg	☼	12/03/20 08:38	12/03/20 22:04	1
2,4,6-Trichlorophenol	<0.14		0.42	0.14	mg/Kg	☼	12/03/20 08:38	12/03/20 22:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	91		43 - 145				12/03/20 08:38	12/03/20 22:04	1
2-Fluorophenol	109		31 - 166				12/03/20 08:38	12/03/20 22:04	1
Nitrobenzene-d5	78		37 - 147				12/03/20 08:38	12/03/20 22:04	1
Phenol-d5	96		30 - 153				12/03/20 08:38	12/03/20 22:04	1
Terphenyl-d14	106		42 - 157				12/03/20 08:38	12/03/20 22:04	1
2,4,6-Tribromophenol	67		31 - 143				12/03/20 08:38	12/03/20 22:04	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.61	J	1.2	0.24	mg/Kg	☼	12/04/20 17:58	12/07/20 11:47	1
Arsenic	6.8		0.61	0.21	mg/Kg	☼	12/04/20 17:58	12/07/20 11:47	1
Barium	86		0.61	0.069	mg/Kg	☼	12/04/20 17:58	12/07/20 11:47	1
Beryllium	0.96		0.24	0.057	mg/Kg	☼	12/04/20 17:58	12/07/20 11:47	1
Cadmium	0.27		0.12	0.022	mg/Kg	☼	12/04/20 17:58	12/07/20 11:47	1
Chromium	22		0.61	0.30	mg/Kg	☼	12/04/20 17:58	12/07/20 11:47	1
Cobalt	14		0.30	0.080	mg/Kg	☼	12/04/20 17:58	12/07/20 11:47	1
Copper	23		0.61	0.17	mg/Kg	☼	12/04/20 17:58	12/07/20 11:47	1
Iron	23000	B	12	6.3	mg/Kg	☼	12/04/20 17:58	12/07/20 11:47	1
Lead	43		0.30	0.14	mg/Kg	☼	12/04/20 17:58	12/07/20 11:47	1
Magnesium	11000		6.1	3.0	mg/Kg	☼	12/04/20 17:58	12/07/20 11:47	1
Calcium	13000	B	12	2.1	mg/Kg	☼	12/04/20 17:58	12/07/20 11:47	1
Manganese	810		0.61	0.088	mg/Kg	☼	12/04/20 17:58	12/07/20 11:47	1
Nickel	32		0.61	0.18	mg/Kg	☼	12/04/20 17:58	12/07/20 11:47	1
Selenium	0.51	J	0.61	0.36	mg/Kg	☼	12/04/20 17:58	12/07/20 11:47	1
Silver	<0.079		0.30	0.079	mg/Kg	☼	12/04/20 17:58	12/07/20 11:47	1
Thallium	0.47	J	0.61	0.30	mg/Kg	☼	12/04/20 17:58	12/07/20 11:47	1
Vanadium	29		0.30	0.072	mg/Kg	☼	12/04/20 17:58	12/07/20 11:47	1
Zinc	83		1.2	0.53	mg/Kg	☼	12/04/20 17:58	12/07/20 11:47	1
Potassium	2900		30	11	mg/Kg	☼	12/04/20 17:58	12/07/20 11:47	1
Sodium	1700	B	61	9.0	mg/Kg	☼	12/04/20 17:58	12/07/20 11:47	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		12/07/20 16:58	12/08/20 17:24	1
Barium	0.33	J	0.50	0.050	mg/L		12/07/20 16:58	12/08/20 17:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/07/20 16:58	12/08/20 17:24	1
Cadmium	0.0022	J	0.0050	0.0020	mg/L		12/07/20 16:58	12/08/20 17:24	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Client Sample ID: 3138V-6-B04 (0-6)

Lab Sample ID: 500-191785-4

Date Collected: 12/01/20 13:10

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 78.9

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		12/07/20 16:58	12/08/20 17:24	1
Chromium	<0.010		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:24	1
Cobalt	0.025		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:24	1
Copper	<0.010		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:24	1
Iron	<0.20		0.40	0.20	mg/L		12/07/20 16:58	12/08/20 17:24	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/07/20 16:58	12/08/20 17:24	1
Magnesium	73		2.5	0.50	mg/L		12/07/20 16:58	12/08/20 17:24	1
Manganese	7.5		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:24	1
Nickel	0.016	J	0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:24	1
Potassium	0.98	J	2.5	0.50	mg/L		12/07/20 16:58	12/08/20 17:24	1
Selenium	<0.020		0.050	0.020	mg/L		12/07/20 16:58	12/08/20 17:24	1
Silver	<0.010		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:24	1
Vanadium	<0.010		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:24	1
Zinc	0.022	J	0.50	0.020	mg/L		12/07/20 16:58	12/08/20 17:24	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		12/07/20 17:02	12/10/20 14:42	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		12/07/20 16:58	12/09/20 13:34	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/07/20 16:58	12/09/20 13:34	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		12/08/20 08:15	12/09/20 08:16	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	☼	12/07/20 13:35	12/08/20 10:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.30		0.28	0.14	mg/Kg	☼	12/07/20 10:47	12/07/20 16:20	1
pH	7.5		0.2	0.2	SU			12/08/20 13:16	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Client Sample ID: 3138V-6-B04 (6-11.3)

Lab Sample ID: 500-191785-5

Date Collected: 12/01/20 13:15

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 74.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.021	J	0.022	0.0095	mg/Kg	✳	12/01/20 17:52	12/07/20 13:10	1
Benzene	<0.00055		0.0022	0.00055	mg/Kg	✳	12/01/20 17:52	12/07/20 13:10	1
Bromodichloromethane	<0.00044		0.0022	0.00044	mg/Kg	✳	12/01/20 17:52	12/07/20 13:10	1
Bromoform	<0.00063		0.0022	0.00063	mg/Kg	✳	12/01/20 17:52	12/07/20 13:10	1
Bromomethane	<0.0021		0.0054	0.0021	mg/Kg	✳	12/01/20 17:52	12/07/20 13:10	1
2-Butanone (MEK)	<0.0024		0.0054	0.0024	mg/Kg	✳	12/01/20 17:52	12/07/20 13:10	1
Carbon disulfide	<0.0011		0.0054	0.0011	mg/Kg	✳	12/01/20 17:52	12/07/20 13:10	1
Carbon tetrachloride	<0.00063		0.0022	0.00063	mg/Kg	✳	12/01/20 17:52	12/07/20 13:10	1
Chlorobenzene	<0.00080		0.0022	0.00080	mg/Kg	✳	12/01/20 17:52	12/07/20 13:10	1
Chloroethane	<0.0016		0.0054	0.0016	mg/Kg	✳	12/01/20 17:52	12/07/20 13:10	1
Chloroform	<0.00075		0.0022	0.00075	mg/Kg	✳	12/01/20 17:52	12/07/20 13:10	1
Chloromethane	<0.0022		0.0054	0.0022	mg/Kg	✳	12/01/20 17:52	12/07/20 13:10	1
cis-1,2-Dichloroethene	<0.00061		0.0022	0.00061	mg/Kg	✳	12/01/20 17:52	12/07/20 13:10	1
cis-1,3-Dichloropropene	<0.00065		0.0022	0.00065	mg/Kg	✳	12/01/20 17:52	12/07/20 13:10	1
Dibromochloromethane	<0.00071		0.0022	0.00071	mg/Kg	✳	12/01/20 17:52	12/07/20 13:10	1
1,1-Dichloroethane	<0.00074		0.0022	0.00074	mg/Kg	✳	12/01/20 17:52	12/07/20 13:10	1
1,2-Dichloroethane	<0.0017		0.0054	0.0017	mg/Kg	✳	12/01/20 17:52	12/07/20 13:10	1
1,1-Dichloroethene	<0.00075		0.0022	0.00075	mg/Kg	✳	12/01/20 17:52	12/07/20 13:10	1
1,2-Dichloropropene	<0.00056		0.0022	0.00056	mg/Kg	✳	12/01/20 17:52	12/07/20 13:10	1
1,3-Dichloropropene, Total	<0.00076		0.0022	0.00076	mg/Kg	✳	12/01/20 17:52	12/07/20 13:10	1
Ethylbenzene	<0.0010		0.0022	0.0010	mg/Kg	✳	12/01/20 17:52	12/07/20 13:10	1
2-Hexanone	<0.0017		0.0054	0.0017	mg/Kg	✳	12/01/20 17:52	12/07/20 13:10	1
Methylene Chloride	<0.0021		0.0054	0.0021	mg/Kg	✳	12/01/20 17:52	12/07/20 13:10	1
4-Methyl-2-pentanone (MIBK)	<0.0016		0.0054	0.0016	mg/Kg	✳	12/01/20 17:52	12/07/20 13:10	1
Methyl tert-butyl ether	<0.00064		0.0022	0.00064	mg/Kg	✳	12/01/20 17:52	12/07/20 13:10	1
Styrene	<0.00066		0.0022	0.00066	mg/Kg	✳	12/01/20 17:52	12/07/20 13:10	1
1,1,2,2-Tetrachloroethane	<0.00069		0.0022	0.00069	mg/Kg	✳	12/01/20 17:52	12/07/20 13:10	1
Tetrachloroethene	<0.00074		0.0022	0.00074	mg/Kg	✳	12/01/20 17:52	12/07/20 13:10	1
Toluene	<0.00055		0.0022	0.00055	mg/Kg	✳	12/01/20 17:52	12/07/20 13:10	1
trans-1,2-Dichloroethene	<0.00096		0.0022	0.00096	mg/Kg	✳	12/01/20 17:52	12/07/20 13:10	1
trans-1,3-Dichloropropene	<0.00076		0.0022	0.00076	mg/Kg	✳	12/01/20 17:52	12/07/20 13:10	1
1,1,1-Trichloroethane	<0.00073		0.0022	0.00073	mg/Kg	✳	12/01/20 17:52	12/07/20 13:10	1
1,1,2-Trichloroethane	<0.00093		0.0022	0.00093	mg/Kg	✳	12/01/20 17:52	12/07/20 13:10	1
Trichloroethene	<0.00073		0.0022	0.00073	mg/Kg	✳	12/01/20 17:52	12/07/20 13:10	1
Vinyl acetate	<0.0019		0.0054	0.0019	mg/Kg	✳	12/01/20 17:52	12/07/20 13:10	1
Vinyl chloride	<0.00096		0.0022	0.00096	mg/Kg	✳	12/01/20 17:52	12/07/20 13:10	1
Xylenes, Total	<0.00069		0.0043	0.00069	mg/Kg	✳	12/01/20 17:52	12/07/20 13:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		75 - 131	12/01/20 17:52	12/07/20 13:10	1
Dibromofluoromethane	98		75 - 126	12/01/20 17:52	12/07/20 13:10	1
1,2-Dichloroethane-d4 (Surr)	88		70 - 134	12/01/20 17:52	12/07/20 13:10	1
Toluene-d8 (Surr)	90		75 - 124	12/01/20 17:52	12/07/20 13:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0080		0.044	0.0080	mg/Kg	✳	12/03/20 08:38	12/03/20 22:34	1
Acenaphthylene	<0.0059		0.044	0.0059	mg/Kg	✳	12/03/20 08:38	12/03/20 22:34	1
Anthracene	<0.0075		0.044	0.0075	mg/Kg	✳	12/03/20 08:38	12/03/20 22:34	1
Benzo[a]anthracene	<0.0060		0.044	0.0060	mg/Kg	✳	12/03/20 08:38	12/03/20 22:34	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Client Sample ID: 3138V-6-B04 (6-11.3)

Lab Sample ID: 500-191785-5

Date Collected: 12/01/20 13:15

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 74.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.0086		0.044	0.0086	mg/Kg	☼	12/03/20 08:38	12/03/20 22:34	1
Benzo[b]fluoranthene	<0.0096		0.044	0.0096	mg/Kg	☼	12/03/20 08:38	12/03/20 22:34	1
Benzo[g,h,i]perylene	<0.014		0.044	0.014	mg/Kg	☼	12/03/20 08:38	12/03/20 22:34	1
Benzo[k]fluoranthene	<0.013		0.044	0.013	mg/Kg	☼	12/03/20 08:38	12/03/20 22:34	1
Bis(2-chloroethoxy)methane	<0.046		0.22	0.046	mg/Kg	☼	12/03/20 08:38	12/03/20 22:34	1
Bis(2-chloroethyl)ether	<0.067		0.22	0.067	mg/Kg	☼	12/03/20 08:38	12/03/20 22:34	1
Bis(2-ethylhexyl) phthalate	<0.082		0.22	0.082	mg/Kg	☼	12/03/20 08:38	12/03/20 22:34	1
4-Bromophenyl phenyl ether	<0.059		0.22	0.059	mg/Kg	☼	12/03/20 08:38	12/03/20 22:34	1
Butyl benzyl phthalate	<0.085		0.22	0.085	mg/Kg	☼	12/03/20 08:38	12/03/20 22:34	1
Carbazole	<0.11		0.22	0.11	mg/Kg	☼	12/03/20 08:38	12/03/20 22:34	1
4-Chloroaniline	<0.21		0.90	0.21	mg/Kg	☼	12/03/20 08:38	12/03/20 22:34	1
4-Chloro-3-methylphenol	<0.15		0.44	0.15	mg/Kg	☼	12/03/20 08:38	12/03/20 22:34	1
2-Chloronaphthalene	<0.049		0.22	0.049	mg/Kg	☼	12/03/20 08:38	12/03/20 22:34	1
2-Chlorophenol	<0.076		0.22	0.076	mg/Kg	☼	12/03/20 08:38	12/03/20 22:34	1
4-Chlorophenyl phenyl ether	<0.052		0.22	0.052	mg/Kg	☼	12/03/20 08:38	12/03/20 22:34	1
Chrysene	<0.012		0.044	0.012	mg/Kg	☼	12/03/20 08:38	12/03/20 22:34	1
Dibenz(a,h)anthracene	<0.0086		0.044	0.0086	mg/Kg	☼	12/03/20 08:38	12/03/20 22:34	1
Dibenzofuran	<0.052		0.22	0.052	mg/Kg	☼	12/03/20 08:38	12/03/20 22:34	1
1,2-Dichlorobenzene	<0.053		0.22	0.053	mg/Kg	☼	12/03/20 08:38	12/03/20 22:34	1
1,3-Dichlorobenzene	<0.050		0.22	0.050	mg/Kg	☼	12/03/20 08:38	12/03/20 22:34	1
1,4-Dichlorobenzene	<0.057		0.22	0.057	mg/Kg	☼	12/03/20 08:38	12/03/20 22:34	1
3,3'-Dichlorobenzidine	<0.062		0.22	0.062	mg/Kg	☼	12/03/20 08:38	12/03/20 22:34	1
2,4-Dichlorophenol	<0.11		0.44	0.11	mg/Kg	☼	12/03/20 08:38	12/03/20 22:34	1
Diethyl phthalate	<0.076		0.22	0.076	mg/Kg	☼	12/03/20 08:38	12/03/20 22:34	1
2,4-Dimethylphenol	<0.17		0.44	0.17	mg/Kg	☼	12/03/20 08:38	12/03/20 22:34	1
Dimethyl phthalate	<0.058		0.22	0.058	mg/Kg	☼	12/03/20 08:38	12/03/20 22:34	1
Di-n-butyl phthalate	<0.068		0.22	0.068	mg/Kg	☼	12/03/20 08:38	12/03/20 22:34	1
4,6-Dinitro-2-methylphenol	<0.36		0.90	0.36	mg/Kg	☼	12/03/20 08:38	12/03/20 22:34	1
2,4-Dinitrophenol	<0.79		0.90	0.79	mg/Kg	☼	12/03/20 08:38	12/03/20 22:34	1
2,4-Dinitrotoluene	<0.071		0.22	0.071	mg/Kg	☼	12/03/20 08:38	12/03/20 22:34	1
2,6-Dinitrotoluene	<0.088		0.22	0.088	mg/Kg	☼	12/03/20 08:38	12/03/20 22:34	1
Di-n-octyl phthalate	<0.073		0.22	0.073	mg/Kg	☼	12/03/20 08:38	12/03/20 22:34	1
Fluoranthene	<0.0083		0.044	0.0083	mg/Kg	☼	12/03/20 08:38	12/03/20 22:34	1
Fluorene	<0.0063		0.044	0.0063	mg/Kg	☼	12/03/20 08:38	12/03/20 22:34	1
Hexachlorobenzene	<0.010		0.090	0.010	mg/Kg	☼	12/03/20 08:38	12/03/20 22:34	1
Hexachlorobutadiene	<0.070		0.22	0.070	mg/Kg	☼	12/03/20 08:38	12/03/20 22:34	1
Hexachlorocyclopentadiene	<0.26		0.90	0.26	mg/Kg	☼	12/03/20 08:38	12/03/20 22:34	1
Hexachloroethane	<0.068		0.22	0.068	mg/Kg	☼	12/03/20 08:38	12/03/20 22:34	1
Indeno[1,2,3-cd]pyrene	<0.012		0.044	0.012	mg/Kg	☼	12/03/20 08:38	12/03/20 22:34	1
Isophorone	<0.050		0.22	0.050	mg/Kg	☼	12/03/20 08:38	12/03/20 22:34	1
2-Methylnaphthalene	<0.0082		0.090	0.0082	mg/Kg	☼	12/03/20 08:38	12/03/20 22:34	1
2-Methylphenol	<0.072		0.22	0.072	mg/Kg	☼	12/03/20 08:38	12/03/20 22:34	1
3 & 4 Methylphenol	<0.074		0.22	0.074	mg/Kg	☼	12/03/20 08:38	12/03/20 22:34	1
Naphthalene	<0.0069		0.044	0.0069	mg/Kg	☼	12/03/20 08:38	12/03/20 22:34	1
2-Nitroaniline	<0.060		0.22	0.060	mg/Kg	☼	12/03/20 08:38	12/03/20 22:34	1
3-Nitroaniline	<0.14		0.44	0.14	mg/Kg	☼	12/03/20 08:38	12/03/20 22:34	1
4-Nitroaniline	<0.19		0.44	0.19	mg/Kg	☼	12/03/20 08:38	12/03/20 22:34	1
Nitrobenzene	<0.011		0.044	0.011	mg/Kg	☼	12/03/20 08:38	12/03/20 22:34	1
2-Nitrophenol	<0.11		0.44	0.11	mg/Kg	☼	12/03/20 08:38	12/03/20 22:34	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Client Sample ID: 3138V-6-B04 (6-11.3)

Lab Sample ID: 500-191785-5

Date Collected: 12/01/20 13:15

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 74.4

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	☼	12/03/20 08:38	12/03/20 22:34	1
N-Nitrosodi-n-propylamine	<0.055		0.090	0.055	mg/Kg	☼	12/03/20 08:38	12/03/20 22:34	1
N-Nitrosodiphenylamine	<0.053		0.22	0.053	mg/Kg	☼	12/03/20 08:38	12/03/20 22:34	1
2,2'-oxybis[1-chloropropane]	<0.052		0.22	0.052	mg/Kg	☼	12/03/20 08:38	12/03/20 22:34	1
Pentachlorophenol	<0.72		0.90	0.72	mg/Kg	☼	12/03/20 08:38	12/03/20 22:34	1
Phenanthrene	<0.0062		0.044	0.0062	mg/Kg	☼	12/03/20 08:38	12/03/20 22:34	1
Phenol	<0.099		0.22	0.099	mg/Kg	☼	12/03/20 08:38	12/03/20 22:34	1
Pyrene	<0.0089		0.044	0.0089	mg/Kg	☼	12/03/20 08:38	12/03/20 22:34	1
1,2,4-Trichlorobenzene	<0.048		0.22	0.048	mg/Kg	☼	12/03/20 08:38	12/03/20 22:34	1
2,4,5-Trichlorophenol	<0.10		0.44	0.10	mg/Kg	☼	12/03/20 08:38	12/03/20 22:34	1
2,4,6-Trichlorophenol	<0.15		0.44	0.15	mg/Kg	☼	12/03/20 08:38	12/03/20 22:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	87		43 - 145				12/03/20 08:38	12/03/20 22:34	1
2-Fluorophenol	104		31 - 166				12/03/20 08:38	12/03/20 22:34	1
Nitrobenzene-d5	76		37 - 147				12/03/20 08:38	12/03/20 22:34	1
Phenol-d5	92		30 - 153				12/03/20 08:38	12/03/20 22:34	1
Terphenyl-d14	107		42 - 157				12/03/20 08:38	12/03/20 22:34	1
2,4,6-Tribromophenol	85		31 - 143				12/03/20 08:38	12/03/20 22:34	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.43	J	1.3	0.26	mg/Kg	☼	12/04/20 17:58	12/07/20 11:50	1
Arsenic	3.0		0.67	0.23	mg/Kg	☼	12/04/20 17:58	12/07/20 11:50	1
Barium	72		0.67	0.076	mg/Kg	☼	12/04/20 17:58	12/07/20 11:50	1
Beryllium	0.96		0.27	0.063	mg/Kg	☼	12/04/20 17:58	12/07/20 11:50	1
Cadmium	0.28		0.13	0.024	mg/Kg	☼	12/04/20 17:58	12/07/20 11:50	1
Chromium	24		0.67	0.33	mg/Kg	☼	12/04/20 17:58	12/07/20 11:50	1
Cobalt	9.1		0.33	0.088	mg/Kg	☼	12/04/20 17:58	12/07/20 11:50	1
Copper	23		0.67	0.19	mg/Kg	☼	12/04/20 17:58	12/07/20 11:50	1
Iron	19000	B	13	7.0	mg/Kg	☼	12/04/20 17:58	12/07/20 11:50	1
Lead	15		0.33	0.15	mg/Kg	☼	12/04/20 17:58	12/07/20 11:50	1
Magnesium	5200		6.7	3.3	mg/Kg	☼	12/04/20 17:58	12/07/20 11:50	1
Calcium	3900	B	13	2.3	mg/Kg	☼	12/04/20 17:58	12/07/20 11:50	1
Manganese	310		0.67	0.097	mg/Kg	☼	12/04/20 17:58	12/07/20 11:50	1
Nickel	28		0.67	0.19	mg/Kg	☼	12/04/20 17:58	12/07/20 11:50	1
Selenium	<0.39		0.67	0.39	mg/Kg	☼	12/04/20 17:58	12/07/20 11:50	1
Silver	<0.086		0.33	0.086	mg/Kg	☼	12/04/20 17:58	12/07/20 11:50	1
Thallium	<0.33		0.67	0.33	mg/Kg	☼	12/04/20 17:58	12/07/20 11:50	1
Vanadium	28		0.33	0.079	mg/Kg	☼	12/04/20 17:58	12/07/20 11:50	1
Zinc	65		1.3	0.59	mg/Kg	☼	12/04/20 17:58	12/07/20 11:50	1
Potassium	2600		33	12	mg/Kg	☼	12/04/20 17:58	12/07/20 11:50	1
Sodium	1100	B	67	9.9	mg/Kg	☼	12/04/20 17:58	12/07/20 11:50	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		12/07/20 16:58	12/08/20 17:27	1
Barium	0.17	J	0.50	0.050	mg/L		12/07/20 16:58	12/08/20 17:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/07/20 16:58	12/08/20 17:27	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		12/07/20 16:58	12/08/20 17:27	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Client Sample ID: 3138V-6-B04 (6-11.3)

Lab Sample ID: 500-191785-5

Date Collected: 12/01/20 13:15

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 74.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	68		5.0	0.50	mg/L		12/07/20 16:58	12/08/20 17:27	1
Chromium	<0.010		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:27	1
Cobalt	0.010	J	0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:27	1
Copper	<0.010		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:27	1
Iron	0.64		0.40	0.20	mg/L		12/07/20 16:58	12/08/20 17:27	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/07/20 16:58	12/08/20 17:27	1
Magnesium	17		2.5	0.50	mg/L		12/07/20 16:58	12/08/20 17:27	1
Manganese	4.9		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:27	1
Nickel	0.016	J	0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:27	1
Potassium	1.5	J	2.5	0.50	mg/L		12/07/20 16:58	12/08/20 17:27	1
Selenium	<0.020		0.050	0.020	mg/L		12/07/20 16:58	12/08/20 17:27	1
Silver	<0.010		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:27	1
Vanadium	<0.010		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:27	1
Zinc	<0.020		0.50	0.020	mg/L		12/07/20 16:58	12/08/20 17:27	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		12/07/20 17:02	12/10/20 14:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/07/20 16:58	12/09/20 13:36	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/07/20 16:58	12/09/20 13:36	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		12/08/20 08:15	12/09/20 08:18	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.021	0.0071	mg/Kg	✱	12/07/20 13:35	12/08/20 10:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.44		0.35	0.17	mg/Kg	✱	12/07/20 10:47	12/07/20 16:22	1
pH	7.0		0.2	0.2	SU			12/08/20 13:19	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Client Sample ID: 3138V-6-B05 (0-1.3)

Lab Sample ID: 500-191785-6

Date Collected: 12/01/20 12:25

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 76.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.017	J	0.020	0.0087	mg/Kg	☼	12/01/20 17:52	12/08/20 16:34	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg	☼	12/01/20 17:52	12/08/20 16:34	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg	☼	12/01/20 17:52	12/08/20 16:34	1
Bromoform	<0.00059		0.0020	0.00059	mg/Kg	☼	12/01/20 17:52	12/08/20 16:34	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg	☼	12/01/20 17:52	12/08/20 16:34	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg	☼	12/01/20 17:52	12/08/20 16:34	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg	☼	12/01/20 17:52	12/08/20 16:34	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg	☼	12/01/20 17:52	12/08/20 16:34	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg	☼	12/01/20 17:52	12/08/20 16:34	1
Chloroethane	<0.0015		0.0050	0.0015	mg/Kg	☼	12/01/20 17:52	12/08/20 16:34	1
Chloroform	<0.00070		0.0020	0.00070	mg/Kg	☼	12/01/20 17:52	12/08/20 16:34	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg	☼	12/01/20 17:52	12/08/20 16:34	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg	☼	12/01/20 17:52	12/08/20 16:34	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg	☼	12/01/20 17:52	12/08/20 16:34	1
Dibromochloromethane	<0.00066		0.0020	0.00066	mg/Kg	☼	12/01/20 17:52	12/08/20 16:34	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg	☼	12/01/20 17:52	12/08/20 16:34	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg	☼	12/01/20 17:52	12/08/20 16:34	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg	☼	12/01/20 17:52	12/08/20 16:34	1
1,2-Dichloropropene	<0.00052		0.0020	0.00052	mg/Kg	☼	12/01/20 17:52	12/08/20 16:34	1
1,3-Dichloropropene, Total	<0.00070		0.0020	0.00070	mg/Kg	☼	12/01/20 17:52	12/08/20 16:34	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg	☼	12/01/20 17:52	12/08/20 16:34	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg	☼	12/01/20 17:52	12/08/20 16:34	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg	☼	12/01/20 17:52	12/08/20 16:34	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg	☼	12/01/20 17:52	12/08/20 16:34	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg	☼	12/01/20 17:52	12/08/20 16:34	1
Styrene	<0.00061		0.0020	0.00061	mg/Kg	☼	12/01/20 17:52	12/08/20 16:34	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg	☼	12/01/20 17:52	12/08/20 16:34	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg	☼	12/01/20 17:52	12/08/20 16:34	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg	☼	12/01/20 17:52	12/08/20 16:34	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg	☼	12/01/20 17:52	12/08/20 16:34	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg	☼	12/01/20 17:52	12/08/20 16:34	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg	☼	12/01/20 17:52	12/08/20 16:34	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg	☼	12/01/20 17:52	12/08/20 16:34	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg	☼	12/01/20 17:52	12/08/20 16:34	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg	☼	12/01/20 17:52	12/08/20 16:34	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg	☼	12/01/20 17:52	12/08/20 16:34	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg	☼	12/01/20 17:52	12/08/20 16:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		75 - 131	12/01/20 17:52	12/08/20 16:34	1
Dibromofluoromethane	104		75 - 126	12/01/20 17:52	12/08/20 16:34	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	12/01/20 17:52	12/08/20 16:34	1
Toluene-d8 (Surr)	87		75 - 124	12/01/20 17:52	12/08/20 16:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.019	J	0.042	0.0076	mg/Kg	☼	12/03/20 08:38	12/05/20 17:27	1
Acenaphthylene	<0.0056		0.042	0.0056	mg/Kg	☼	12/03/20 08:38	12/05/20 17:27	1
Anthracene	0.038	J	0.042	0.0071	mg/Kg	☼	12/03/20 08:38	12/05/20 17:27	1
Benzo[a]anthracene	0.20		0.042	0.0057	mg/Kg	☼	12/03/20 08:38	12/05/20 17:27	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Client Sample ID: 3138V-6-B05 (0-1.3)

Lab Sample ID: 500-191785-6

Date Collected: 12/01/20 12:25

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 76.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.27		0.042	0.0082	mg/Kg	☼	12/03/20 08:38	12/05/20 17:27	1
Benzo[b]fluoranthene	0.34		0.042	0.0092	mg/Kg	☼	12/03/20 08:38	12/05/20 17:27	1
Benzo[g,h,i]perylene	0.15		0.042	0.014	mg/Kg	☼	12/03/20 08:38	12/05/20 17:27	1
Benzo[k]fluoranthene	0.13		0.042	0.013	mg/Kg	☼	12/03/20 08:38	12/05/20 17:27	1
Bis(2-chloroethoxy)methane	<0.043		0.21	0.043	mg/Kg	☼	12/03/20 08:38	12/05/20 17:27	1
Bis(2-chloroethyl)ether	<0.064		0.21	0.064	mg/Kg	☼	12/03/20 08:38	12/05/20 17:27	1
Bis(2-ethylhexyl) phthalate	<0.078		0.21	0.078	mg/Kg	☼	12/03/20 08:38	12/05/20 17:27	1
4-Bromophenyl phenyl ether	<0.056		0.21	0.056	mg/Kg	☼	12/03/20 08:38	12/05/20 17:27	1
Butyl benzyl phthalate	<0.081		0.21	0.081	mg/Kg	☼	12/03/20 08:38	12/05/20 17:27	1
Carbazole	<0.11		0.21	0.11	mg/Kg	☼	12/03/20 08:38	12/05/20 17:27	1
4-Chloroaniline	<0.20		0.86	0.20	mg/Kg	☼	12/03/20 08:38	12/05/20 17:27	1
4-Chloro-3-methylphenol	<0.14		0.42	0.14	mg/Kg	☼	12/03/20 08:38	12/05/20 17:27	1
2-Chloronaphthalene	<0.047		0.21	0.047	mg/Kg	☼	12/03/20 08:38	12/05/20 17:27	1
2-Chlorophenol	<0.072		0.21	0.072	mg/Kg	☼	12/03/20 08:38	12/05/20 17:27	1
4-Chlorophenyl phenyl ether	<0.050		0.21	0.050	mg/Kg	☼	12/03/20 08:38	12/05/20 17:27	1
Chrysene	0.23		0.042	0.012	mg/Kg	☼	12/03/20 08:38	12/05/20 17:27	1
Dibenz(a,h)anthracene	0.042		0.042	0.0082	mg/Kg	☼	12/03/20 08:38	12/05/20 17:27	1
Dibenzofuran	<0.050		0.21	0.050	mg/Kg	☼	12/03/20 08:38	12/05/20 17:27	1
1,2-Dichlorobenzene	<0.051		0.21	0.051	mg/Kg	☼	12/03/20 08:38	12/05/20 17:27	1
1,3-Dichlorobenzene	<0.048		0.21	0.048	mg/Kg	☼	12/03/20 08:38	12/05/20 17:27	1
1,4-Dichlorobenzene	<0.054		0.21	0.054	mg/Kg	☼	12/03/20 08:38	12/05/20 17:27	1
3,3'-Dichlorobenzidine	<0.059		0.21	0.059	mg/Kg	☼	12/03/20 08:38	12/05/20 17:27	1
2,4-Dichlorophenol	<0.10		0.42	0.10	mg/Kg	☼	12/03/20 08:38	12/05/20 17:27	1
Diethyl phthalate	<0.072		0.21	0.072	mg/Kg	☼	12/03/20 08:38	12/05/20 17:27	1
2,4-Dimethylphenol	<0.16		0.42	0.16	mg/Kg	☼	12/03/20 08:38	12/05/20 17:27	1
Dimethyl phthalate	<0.055		0.21	0.055	mg/Kg	☼	12/03/20 08:38	12/05/20 17:27	1
Di-n-butyl phthalate	<0.065		0.21	0.065	mg/Kg	☼	12/03/20 08:38	12/05/20 17:27	1
4,6-Dinitro-2-methylphenol	<0.34		0.86	0.34	mg/Kg	☼	12/03/20 08:38	12/05/20 17:27	1
2,4-Dinitrophenol	<0.75		0.86	0.75	mg/Kg	☼	12/03/20 08:38	12/05/20 17:27	1
2,4-Dinitrotoluene	<0.067		0.21	0.067	mg/Kg	☼	12/03/20 08:38	12/05/20 17:27	1
2,6-Dinitrotoluene	<0.083		0.21	0.083	mg/Kg	☼	12/03/20 08:38	12/05/20 17:27	1
Di-n-octyl phthalate	<0.069		0.21	0.069	mg/Kg	☼	12/03/20 08:38	12/05/20 17:27	1
Fluoranthene	0.39		0.042	0.0079	mg/Kg	☼	12/03/20 08:38	12/05/20 17:27	1
Fluorene	0.016 J		0.042	0.0060	mg/Kg	☼	12/03/20 08:38	12/05/20 17:27	1
Hexachlorobenzene	<0.0098		0.086	0.0098	mg/Kg	☼	12/03/20 08:38	12/05/20 17:27	1
Hexachlorobutadiene	<0.067		0.21	0.067	mg/Kg	☼	12/03/20 08:38	12/05/20 17:27	1
Hexachlorocyclopentadiene	<0.24		0.86	0.24	mg/Kg	☼	12/03/20 08:38	12/05/20 17:27	1
Hexachloroethane	<0.064		0.21	0.064	mg/Kg	☼	12/03/20 08:38	12/05/20 17:27	1
Indeno[1,2,3-cd]pyrene	0.14		0.042	0.011	mg/Kg	☼	12/03/20 08:38	12/05/20 17:27	1
Isophorone	<0.048		0.21	0.048	mg/Kg	☼	12/03/20 08:38	12/05/20 17:27	1
2-Methylnaphthalene	<0.0078		0.086	0.0078	mg/Kg	☼	12/03/20 08:38	12/05/20 17:27	1
2-Methylphenol	<0.068		0.21	0.068	mg/Kg	☼	12/03/20 08:38	12/05/20 17:27	1
3 & 4 Methylphenol	<0.071		0.21	0.071	mg/Kg	☼	12/03/20 08:38	12/05/20 17:27	1
Naphthalene	<0.0065		0.042	0.0065	mg/Kg	☼	12/03/20 08:38	12/05/20 17:27	1
2-Nitroaniline	<0.057		0.21	0.057	mg/Kg	☼	12/03/20 08:38	12/05/20 17:27	1
3-Nitroaniline	<0.13		0.42	0.13	mg/Kg	☼	12/03/20 08:38	12/05/20 17:27	1
4-Nitroaniline	<0.18		0.42	0.18	mg/Kg	☼	12/03/20 08:38	12/05/20 17:27	1
Nitrobenzene	<0.011		0.042	0.011	mg/Kg	☼	12/03/20 08:38	12/05/20 17:27	1
2-Nitrophenol	<0.10		0.42	0.10	mg/Kg	☼	12/03/20 08:38	12/05/20 17:27	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Client Sample ID: 3138V-6-B05 (0-1.3)

Lab Sample ID: 500-191785-6

Date Collected: 12/01/20 12:25

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 76.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.40		0.86	0.40	mg/Kg	☼	12/03/20 08:38	12/05/20 17:27	1
N-Nitrosodi-n-propylamine	<0.052		0.086	0.052	mg/Kg	☼	12/03/20 08:38	12/05/20 17:27	1
N-Nitrosodiphenylamine	<0.050		0.21	0.050	mg/Kg	☼	12/03/20 08:38	12/05/20 17:27	1
2,2'-oxybis[1-chloropropane]	<0.049		0.21	0.049	mg/Kg	☼	12/03/20 08:38	12/05/20 17:27	1
Pentachlorophenol	<0.68		0.86	0.68	mg/Kg	☼	12/03/20 08:38	12/05/20 17:27	1
Phenanthrene	0.21		0.042	0.0059	mg/Kg	☼	12/03/20 08:38	12/05/20 17:27	1
Phenol	<0.094		0.21	0.094	mg/Kg	☼	12/03/20 08:38	12/05/20 17:27	1
Pyrene	0.46		0.042	0.0084	mg/Kg	☼	12/03/20 08:38	12/05/20 17:27	1
1,2,4-Trichlorobenzene	<0.046		0.21	0.046	mg/Kg	☼	12/03/20 08:38	12/05/20 17:27	1
2,4,5-Trichlorophenol	<0.097		0.42	0.097	mg/Kg	☼	12/03/20 08:38	12/05/20 17:27	1
2,4,6-Trichlorophenol	<0.15		0.42	0.15	mg/Kg	☼	12/03/20 08:38	12/05/20 17:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	93		43 - 145				12/03/20 08:38	12/05/20 17:27	1
2-Fluorophenol	102		31 - 166				12/03/20 08:38	12/05/20 17:27	1
Nitrobenzene-d5	80		37 - 147				12/03/20 08:38	12/05/20 17:27	1
Phenol-d5	92		30 - 153				12/03/20 08:38	12/05/20 17:27	1
Terphenyl-d14	115		42 - 157				12/03/20 08:38	12/05/20 17:27	1
2,4,6-Tribromophenol	31		31 - 143				12/03/20 08:38	12/05/20 17:27	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.68	J	1.3	0.25	mg/Kg	☼	12/04/20 17:58	12/07/20 12:00	1
Arsenic	7.3		0.64	0.22	mg/Kg	☼	12/04/20 17:58	12/07/20 12:00	1
Barium	99		0.64	0.072	mg/Kg	☼	12/04/20 17:58	12/07/20 12:00	1
Beryllium	1.0		0.25	0.059	mg/Kg	☼	12/04/20 17:58	12/07/20 12:00	1
Cadmium	0.14		0.13	0.023	mg/Kg	☼	12/04/20 17:58	12/07/20 12:00	1
Chromium	23		0.64	0.31	mg/Kg	☼	12/04/20 17:58	12/07/20 12:00	1
Cobalt	14		0.32	0.083	mg/Kg	☼	12/04/20 17:58	12/07/20 12:00	1
Copper	22		0.64	0.18	mg/Kg	☼	12/04/20 17:58	12/07/20 12:00	1
Iron	23000	B	13	6.6	mg/Kg	☼	12/04/20 17:58	12/07/20 12:00	1
Lead	22		0.32	0.15	mg/Kg	☼	12/04/20 17:58	12/07/20 12:00	1
Magnesium	17000		6.4	3.2	mg/Kg	☼	12/04/20 17:58	12/07/20 12:00	1
Calcium	22000	B	13	2.2	mg/Kg	☼	12/04/20 17:58	12/07/20 12:00	1
Manganese	980		0.64	0.092	mg/Kg	☼	12/04/20 17:58	12/07/20 12:00	1
Nickel	34		0.64	0.18	mg/Kg	☼	12/04/20 17:58	12/07/20 12:00	1
Selenium	0.63	J	0.64	0.37	mg/Kg	☼	12/04/20 17:58	12/07/20 12:00	1
Silver	<0.082		0.32	0.082	mg/Kg	☼	12/04/20 17:58	12/07/20 12:00	1
Thallium	0.36	J	0.64	0.32	mg/Kg	☼	12/04/20 17:58	12/07/20 12:00	1
Vanadium	32		0.32	0.075	mg/Kg	☼	12/04/20 17:58	12/07/20 12:00	1
Zinc	69		1.3	0.56	mg/Kg	☼	12/04/20 17:58	12/07/20 12:00	1
Potassium	3400		32	11	mg/Kg	☼	12/04/20 17:58	12/07/20 12:00	1
Sodium	1100	B	64	9.4	mg/Kg	☼	12/04/20 17:58	12/07/20 12:00	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		12/07/20 16:58	12/08/20 17:30	1
Barium	0.32	J	0.50	0.050	mg/L		12/07/20 16:58	12/08/20 17:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/07/20 16:58	12/08/20 17:30	1
Cadmium	0.0022	J	0.0050	0.0020	mg/L		12/07/20 16:58	12/08/20 17:30	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Client Sample ID: 3138V-6-B05 (0-1.3)

Lab Sample ID: 500-191785-6

Date Collected: 12/01/20 12:25

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 76.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	320		5.0	0.50	mg/L		12/07/20 16:58	12/08/20 17:30	1
Chromium	<0.010		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:30	1
Cobalt	<0.010		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:30	1
Copper	<0.010		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:30	1
Iron	<0.20		0.40	0.20	mg/L		12/07/20 16:58	12/08/20 17:30	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/07/20 16:58	12/08/20 17:30	1
Magnesium	140		2.5	0.50	mg/L		12/07/20 16:58	12/08/20 17:30	1
Manganese	1.9		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:30	1
Nickel	0.015	J	0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:30	1
Potassium	0.97	J	2.5	0.50	mg/L		12/07/20 16:58	12/08/20 17:30	1
Selenium	<0.020		0.050	0.020	mg/L		12/07/20 16:58	12/08/20 17:30	1
Silver	<0.010		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:30	1
Vanadium	<0.010		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:30	1
Zinc	<0.020		0.50	0.020	mg/L		12/07/20 16:58	12/08/20 17:30	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		12/07/20 17:02	12/10/20 14:48	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		12/07/20 16:58	12/09/20 13:38	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/07/20 16:58	12/09/20 13:38	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/08/20 08:15	12/09/20 08:20	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.021	0.0069	mg/Kg	☼	12/07/20 13:35	12/08/20 10:36	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	☼	12/07/20 10:47	12/07/20 16:23	1
pH	8.5		0.2	0.2	SU			12/08/20 14:35	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Client Sample ID: 3138V-6-B05 (0-1.3) Dup

Lab Sample ID: 500-191785-7

Date Collected: 12/01/20 12:30

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 78.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0079		0.018	0.0079	mg/Kg	☼	12/01/20 17:52	12/07/20 14:01	1
Benzene	<0.00046		0.0018	0.00046	mg/Kg	☼	12/01/20 17:52	12/07/20 14:01	1
Bromodichloromethane	<0.00037		0.0018	0.00037	mg/Kg	☼	12/01/20 17:52	12/07/20 14:01	1
Bromoform	<0.00053		0.0018	0.00053	mg/Kg	☼	12/01/20 17:52	12/07/20 14:01	1
Bromomethane	<0.0017		0.0046	0.0017	mg/Kg	☼	12/01/20 17:52	12/07/20 14:01	1
2-Butanone (MEK)	<0.0020		0.0046	0.0020	mg/Kg	☼	12/01/20 17:52	12/07/20 14:01	1
Carbon disulfide	<0.00095		0.0046	0.00095	mg/Kg	☼	12/01/20 17:52	12/07/20 14:01	1
Carbon tetrachloride	<0.00053		0.0018	0.00053	mg/Kg	☼	12/01/20 17:52	12/07/20 14:01	1
Chlorobenzene	<0.00067		0.0018	0.00067	mg/Kg	☼	12/01/20 17:52	12/07/20 14:01	1
Chloroethane	<0.0013		0.0046	0.0013	mg/Kg	☼	12/01/20 17:52	12/07/20 14:01	1
Chloroform	<0.00063		0.0018	0.00063	mg/Kg	☼	12/01/20 17:52	12/07/20 14:01	1
Chloromethane	<0.0018		0.0046	0.0018	mg/Kg	☼	12/01/20 17:52	12/07/20 14:01	1
cis-1,2-Dichloroethene	<0.00051		0.0018	0.00051	mg/Kg	☼	12/01/20 17:52	12/07/20 14:01	1
cis-1,3-Dichloropropene	<0.00055		0.0018	0.00055	mg/Kg	☼	12/01/20 17:52	12/07/20 14:01	1
Dibromochloromethane	<0.00060		0.0018	0.00060	mg/Kg	☼	12/01/20 17:52	12/07/20 14:01	1
1,1-Dichloroethane	<0.00062		0.0018	0.00062	mg/Kg	☼	12/01/20 17:52	12/07/20 14:01	1
1,2-Dichloroethane	<0.0014		0.0046	0.0014	mg/Kg	☼	12/01/20 17:52	12/07/20 14:01	1
1,1-Dichloroethene	<0.00063		0.0018	0.00063	mg/Kg	☼	12/01/20 17:52	12/07/20 14:01	1
1,2-Dichloropropene	<0.00047		0.0018	0.00047	mg/Kg	☼	12/01/20 17:52	12/07/20 14:01	1
1,3-Dichloropropene, Total	<0.00064		0.0018	0.00064	mg/Kg	☼	12/01/20 17:52	12/07/20 14:01	1
Ethylbenzene	<0.00087		0.0018	0.00087	mg/Kg	☼	12/01/20 17:52	12/07/20 14:01	1
2-Hexanone	<0.0014		0.0046	0.0014	mg/Kg	☼	12/01/20 17:52	12/07/20 14:01	1
Methylene Chloride	<0.0018		0.0046	0.0018	mg/Kg	☼	12/01/20 17:52	12/07/20 14:01	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0046	0.0013	mg/Kg	☼	12/01/20 17:52	12/07/20 14:01	1
Methyl tert-butyl ether	<0.00053		0.0018	0.00053	mg/Kg	☼	12/01/20 17:52	12/07/20 14:01	1
Styrene	<0.00055		0.0018	0.00055	mg/Kg	☼	12/01/20 17:52	12/07/20 14:01	1
1,1,2,2-Tetrachloroethane	<0.00058		0.0018	0.00058	mg/Kg	☼	12/01/20 17:52	12/07/20 14:01	1
Tetrachloroethene	<0.00062		0.0018	0.00062	mg/Kg	☼	12/01/20 17:52	12/07/20 14:01	1
Toluene	<0.00046		0.0018	0.00046	mg/Kg	☼	12/01/20 17:52	12/07/20 14:01	1
trans-1,2-Dichloroethene	<0.00081		0.0018	0.00081	mg/Kg	☼	12/01/20 17:52	12/07/20 14:01	1
trans-1,3-Dichloropropene	<0.00064		0.0018	0.00064	mg/Kg	☼	12/01/20 17:52	12/07/20 14:01	1
1,1,1-Trichloroethane	<0.00061		0.0018	0.00061	mg/Kg	☼	12/01/20 17:52	12/07/20 14:01	1
1,1,2-Trichloroethane	<0.00078		0.0018	0.00078	mg/Kg	☼	12/01/20 17:52	12/07/20 14:01	1
Trichloroethene	<0.00062		0.0018	0.00062	mg/Kg	☼	12/01/20 17:52	12/07/20 14:01	1
Vinyl acetate	<0.0016		0.0046	0.0016	mg/Kg	☼	12/01/20 17:52	12/07/20 14:01	1
Vinyl chloride	<0.00081		0.0018	0.00081	mg/Kg	☼	12/01/20 17:52	12/07/20 14:01	1
Xylenes, Total	<0.00058		0.0036	0.00058	mg/Kg	☼	12/01/20 17:52	12/07/20 14:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		75 - 131	12/01/20 17:52	12/07/20 14:01	1
Dibromofluoromethane	98		75 - 126	12/01/20 17:52	12/07/20 14:01	1
1,2-Dichloroethane-d4 (Surr)	88		70 - 134	12/01/20 17:52	12/07/20 14:01	1
Toluene-d8 (Surr)	89		75 - 124	12/01/20 17:52	12/07/20 14:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0074		0.041	0.0074	mg/Kg	☼	12/03/20 08:38	12/03/20 23:03	1
Acenaphthylene	<0.0054		0.041	0.0054	mg/Kg	☼	12/03/20 08:38	12/03/20 23:03	1
Anthracene	<0.0069		0.041	0.0069	mg/Kg	☼	12/03/20 08:38	12/03/20 23:03	1
Benzo[a]anthracene	<0.0056		0.041	0.0056	mg/Kg	☼	12/03/20 08:38	12/03/20 23:03	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Client Sample ID: 3138V-6-B05 (0-1.3) Dup

Lab Sample ID: 500-191785-7

Date Collected: 12/01/20 12:30

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 78.2

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	0.041	0.0080	mg/Kg	☼	12/03/20 08:38	12/03/20 23:03	1
Benzo[b]fluoranthene	0.0094	J	0.041	0.0089	mg/Kg	☼	12/03/20 08:38	12/03/20 23:03	1
Benzo[g,h,i]perylene	<0.013		0.041	0.013	mg/Kg	☼	12/03/20 08:38	12/03/20 23:03	1
Benzo[k]fluoranthene	<0.012		0.041	0.012	mg/Kg	☼	12/03/20 08:38	12/03/20 23:03	1
Bis(2-chloroethoxy)methane	<0.042		0.21	0.042	mg/Kg	☼	12/03/20 08:38	12/03/20 23:03	1
Bis(2-chloroethyl)ether	<0.062		0.21	0.062	mg/Kg	☼	12/03/20 08:38	12/03/20 23:03	1
Bis(2-ethylhexyl) phthalate	<0.075		0.21	0.075	mg/Kg	☼	12/03/20 08:38	12/03/20 23:03	1
4-Bromophenyl phenyl ether	<0.054		0.21	0.054	mg/Kg	☼	12/03/20 08:38	12/03/20 23:03	1
Butyl benzyl phthalate	<0.079		0.21	0.079	mg/Kg	☼	12/03/20 08:38	12/03/20 23:03	1
Carbazole	<0.10		0.21	0.10	mg/Kg	☼	12/03/20 08:38	12/03/20 23:03	1
4-Chloroaniline	<0.19		0.83	0.19	mg/Kg	☼	12/03/20 08:38	12/03/20 23:03	1
4-Chloro-3-methylphenol	<0.14		0.41	0.14	mg/Kg	☼	12/03/20 08:38	12/03/20 23:03	1
2-Chloronaphthalene	<0.046		0.21	0.046	mg/Kg	☼	12/03/20 08:38	12/03/20 23:03	1
2-Chlorophenol	<0.070		0.21	0.070	mg/Kg	☼	12/03/20 08:38	12/03/20 23:03	1
4-Chlorophenyl phenyl ether	<0.048		0.21	0.048	mg/Kg	☼	12/03/20 08:38	12/03/20 23:03	1
Chrysene	<0.011		0.041	0.011	mg/Kg	☼	12/03/20 08:38	12/03/20 23:03	1
Dibenz(a,h)anthracene	<0.0080		0.041	0.0080	mg/Kg	☼	12/03/20 08:38	12/03/20 23:03	1
Dibenzofuran	<0.048		0.21	0.048	mg/Kg	☼	12/03/20 08:38	12/03/20 23:03	1
1,2-Dichlorobenzene	<0.049		0.21	0.049	mg/Kg	☼	12/03/20 08:38	12/03/20 23:03	1
1,3-Dichlorobenzene	<0.046		0.21	0.046	mg/Kg	☼	12/03/20 08:38	12/03/20 23:03	1
1,4-Dichlorobenzene	<0.053		0.21	0.053	mg/Kg	☼	12/03/20 08:38	12/03/20 23:03	1
3,3'-Dichlorobenzidine	<0.058		0.21	0.058	mg/Kg	☼	12/03/20 08:38	12/03/20 23:03	1
2,4-Dichlorophenol	<0.098		0.41	0.098	mg/Kg	☼	12/03/20 08:38	12/03/20 23:03	1
Diethyl phthalate	<0.070		0.21	0.070	mg/Kg	☼	12/03/20 08:38	12/03/20 23:03	1
2,4-Dimethylphenol	<0.16		0.41	0.16	mg/Kg	☼	12/03/20 08:38	12/03/20 23:03	1
Dimethyl phthalate	<0.054		0.21	0.054	mg/Kg	☼	12/03/20 08:38	12/03/20 23:03	1
Di-n-butyl phthalate	<0.063		0.21	0.063	mg/Kg	☼	12/03/20 08:38	12/03/20 23:03	1
4,6-Dinitro-2-methylphenol	<0.33		0.83	0.33	mg/Kg	☼	12/03/20 08:38	12/03/20 23:03	1
2,4-Dinitrophenol	<0.73		0.83	0.73	mg/Kg	☼	12/03/20 08:38	12/03/20 23:03	1
2,4-Dinitrotoluene	<0.066		0.21	0.066	mg/Kg	☼	12/03/20 08:38	12/03/20 23:03	1
2,6-Dinitrotoluene	<0.081		0.21	0.081	mg/Kg	☼	12/03/20 08:38	12/03/20 23:03	1
Di-n-octyl phthalate	<0.067		0.21	0.067	mg/Kg	☼	12/03/20 08:38	12/03/20 23:03	1
Fluoranthene	0.013	J	0.041	0.0077	mg/Kg	☼	12/03/20 08:38	12/03/20 23:03	1
Fluorene	<0.0058		0.041	0.0058	mg/Kg	☼	12/03/20 08:38	12/03/20 23:03	1
Hexachlorobenzene	<0.0096		0.083	0.0096	mg/Kg	☼	12/03/20 08:38	12/03/20 23:03	1
Hexachlorobutadiene	<0.065		0.21	0.065	mg/Kg	☼	12/03/20 08:38	12/03/20 23:03	1
Hexachlorocyclopentadiene	<0.24		0.83	0.24	mg/Kg	☼	12/03/20 08:38	12/03/20 23:03	1
Hexachloroethane	<0.063		0.21	0.063	mg/Kg	☼	12/03/20 08:38	12/03/20 23:03	1
Indeno[1,2,3-cd]pyrene	<0.011		0.041	0.011	mg/Kg	☼	12/03/20 08:38	12/03/20 23:03	1
Isophorone	<0.046		0.21	0.046	mg/Kg	☼	12/03/20 08:38	12/03/20 23:03	1
2-Methylnaphthalene	<0.0076		0.083	0.0076	mg/Kg	☼	12/03/20 08:38	12/03/20 23:03	1
2-Methylphenol	<0.066		0.21	0.066	mg/Kg	☼	12/03/20 08:38	12/03/20 23:03	1
3 & 4 Methylphenol	<0.069		0.21	0.069	mg/Kg	☼	12/03/20 08:38	12/03/20 23:03	1
Naphthalene	<0.0064		0.041	0.0064	mg/Kg	☼	12/03/20 08:38	12/03/20 23:03	1
2-Nitroaniline	<0.056		0.21	0.056	mg/Kg	☼	12/03/20 08:38	12/03/20 23:03	1
3-Nitroaniline	<0.13		0.41	0.13	mg/Kg	☼	12/03/20 08:38	12/03/20 23:03	1
4-Nitroaniline	<0.17		0.41	0.17	mg/Kg	☼	12/03/20 08:38	12/03/20 23:03	1
Nitrobenzene	<0.010		0.041	0.010	mg/Kg	☼	12/03/20 08:38	12/03/20 23:03	1
2-Nitrophenol	<0.098		0.41	0.098	mg/Kg	☼	12/03/20 08:38	12/03/20 23:03	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Client Sample ID: 3138V-6-B05 (0-1.3) Dup

Lab Sample ID: 500-191785-7

Date Collected: 12/01/20 12:30

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 78.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.39		0.83	0.39	mg/Kg	☼	12/03/20 08:38	12/03/20 23:03	1
N-Nitrosodi-n-propylamine	<0.050		0.083	0.050	mg/Kg	☼	12/03/20 08:38	12/03/20 23:03	1
N-Nitrosodiphenylamine	<0.049		0.21	0.049	mg/Kg	☼	12/03/20 08:38	12/03/20 23:03	1
2,2'-oxybis[1-chloropropane]	<0.048		0.21	0.048	mg/Kg	☼	12/03/20 08:38	12/03/20 23:03	1
Pentachlorophenol	<0.66		0.83	0.66	mg/Kg	☼	12/03/20 08:38	12/03/20 23:03	1
Phenanthrene	0.013	J	0.041	0.0058	mg/Kg	☼	12/03/20 08:38	12/03/20 23:03	1
Phenol	<0.092		0.21	0.092	mg/Kg	☼	12/03/20 08:38	12/03/20 23:03	1
Pyrene	0.014	J	0.041	0.0082	mg/Kg	☼	12/03/20 08:38	12/03/20 23:03	1
1,2,4-Trichlorobenzene	<0.044		0.21	0.044	mg/Kg	☼	12/03/20 08:38	12/03/20 23:03	1
2,4,5-Trichlorophenol	<0.094		0.41	0.094	mg/Kg	☼	12/03/20 08:38	12/03/20 23:03	1
2,4,6-Trichlorophenol	<0.14		0.41	0.14	mg/Kg	☼	12/03/20 08:38	12/03/20 23:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	83		43 - 145				12/03/20 08:38	12/03/20 23:03	1
2-Fluorophenol	101		31 - 166				12/03/20 08:38	12/03/20 23:03	1
Nitrobenzene-d5	72		37 - 147				12/03/20 08:38	12/03/20 23:03	1
Phenol-d5	91		30 - 153				12/03/20 08:38	12/03/20 23:03	1
Terphenyl-d14	106		42 - 157				12/03/20 08:38	12/03/20 23:03	1
2,4,6-Tribromophenol	59		31 - 143				12/03/20 08:38	12/03/20 23:03	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.65	J	1.2	0.24	mg/Kg	☼	12/04/20 17:58	12/07/20 12:03	1
Arsenic	7.7		0.61	0.21	mg/Kg	☼	12/04/20 17:58	12/07/20 12:03	1
Barium	69		0.61	0.070	mg/Kg	☼	12/04/20 17:58	12/07/20 12:03	1
Beryllium	0.95		0.25	0.057	mg/Kg	☼	12/04/20 17:58	12/07/20 12:03	1
Cadmium	0.29		0.12	0.022	mg/Kg	☼	12/04/20 17:58	12/07/20 12:03	1
Chromium	21		0.61	0.30	mg/Kg	☼	12/04/20 17:58	12/07/20 12:03	1
Cobalt	13		0.31	0.080	mg/Kg	☼	12/04/20 17:58	12/07/20 12:03	1
Copper	25		0.61	0.17	mg/Kg	☼	12/04/20 17:58	12/07/20 12:03	1
Iron	24000	B	12	6.4	mg/Kg	☼	12/04/20 17:58	12/07/20 12:03	1
Lead	65		0.31	0.14	mg/Kg	☼	12/04/20 17:58	12/07/20 12:03	1
Magnesium	14000		6.1	3.0	mg/Kg	☼	12/04/20 17:58	12/07/20 12:03	1
Calcium	19000	B	12	2.1	mg/Kg	☼	12/04/20 17:58	12/07/20 12:03	1
Manganese	460		0.61	0.089	mg/Kg	☼	12/04/20 17:58	12/07/20 12:03	1
Nickel	31		0.61	0.18	mg/Kg	☼	12/04/20 17:58	12/07/20 12:03	1
Selenium	0.54	J	0.61	0.36	mg/Kg	☼	12/04/20 17:58	12/07/20 12:03	1
Silver	<0.079		0.31	0.079	mg/Kg	☼	12/04/20 17:58	12/07/20 12:03	1
Thallium	<0.31		0.61	0.31	mg/Kg	☼	12/04/20 17:58	12/07/20 12:03	1
Vanadium	32		0.31	0.072	mg/Kg	☼	12/04/20 17:58	12/07/20 12:03	1
Zinc	88		1.2	0.54	mg/Kg	☼	12/04/20 17:58	12/07/20 12:03	1
Potassium	2600		31	11	mg/Kg	☼	12/04/20 17:58	12/07/20 12:03	1
Sodium	1000	B	61	9.1	mg/Kg	☼	12/04/20 17:58	12/07/20 12:03	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		12/07/20 16:58	12/08/20 17:33	1
Barium	0.30	J	0.50	0.050	mg/L		12/07/20 16:58	12/08/20 17:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/07/20 16:58	12/08/20 17:33	1
Cadmium	0.0036	J	0.0050	0.0020	mg/L		12/07/20 16:58	12/08/20 17:33	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Client Sample ID: 3138V-6-B05 (0-1.3) Dup

Lab Sample ID: 500-191785-7

Date Collected: 12/01/20 12:30

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 78.2

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		12/07/20 16:58	12/08/20 17:33	1
Chromium	<0.010		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:33	1
Cobalt	<0.010		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:33	1
Copper	<0.010		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:33	1
Iron	0.36	J	0.40	0.20	mg/L		12/07/20 16:58	12/08/20 17:33	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/07/20 16:58	12/08/20 17:33	1
Magnesium	120		2.5	0.50	mg/L		12/07/20 16:58	12/08/20 17:33	1
Manganese	3.2		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:33	1
Nickel	0.017	J	0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:33	1
Potassium	1.1	J	2.5	0.50	mg/L		12/07/20 16:58	12/08/20 17:33	1
Selenium	<0.020		0.050	0.020	mg/L		12/07/20 16:58	12/08/20 17:33	1
Silver	<0.010		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:33	1
Vanadium	<0.010		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:33	1
Zinc	<0.020		0.50	0.020	mg/L		12/07/20 16:58	12/08/20 17:33	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		12/07/20 17:02	12/10/20 14:51	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		12/07/20 16:58	12/09/20 13:40	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/07/20 16:58	12/09/20 13:40	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		12/08/20 08:15	12/09/20 08:26	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034		0.020	0.0067	mg/Kg	☼	12/07/20 13:35	12/08/20 10:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.25	J	0.30	0.15	mg/Kg	☼	12/07/20 10:47	12/07/20 16:25	1
pH	8.2		0.2	0.2	SU			12/08/20 14:40	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Client Sample ID: 3138V-6-B06 (0-1.3)

Lab Sample ID: 500-191785-8

Date Collected: 12/01/20 12:00

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 80.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.022		0.021	0.0091	mg/Kg	☼	12/01/20 17:52	12/07/20 14:26	1
Benzene	<0.00053		0.0021	0.00053	mg/Kg	☼	12/01/20 17:52	12/07/20 14:26	1
Bromodichloromethane	<0.00043		0.0021	0.00043	mg/Kg	☼	12/01/20 17:52	12/07/20 14:26	1
Bromoform	<0.00061		0.0021	0.00061	mg/Kg	☼	12/01/20 17:52	12/07/20 14:26	1
Bromomethane	<0.0020		0.0052	0.0020	mg/Kg	☼	12/01/20 17:52	12/07/20 14:26	1
2-Butanone (MEK)	0.0052		0.0052	0.0023	mg/Kg	☼	12/01/20 17:52	12/07/20 14:26	1
Carbon disulfide	<0.0011		0.0052	0.0011	mg/Kg	☼	12/01/20 17:52	12/07/20 14:26	1
Carbon tetrachloride	<0.00061		0.0021	0.00061	mg/Kg	☼	12/01/20 17:52	12/07/20 14:26	1
Chlorobenzene	<0.00077		0.0021	0.00077	mg/Kg	☼	12/01/20 17:52	12/07/20 14:26	1
Chloroethane	<0.0015		0.0052	0.0015	mg/Kg	☼	12/01/20 17:52	12/07/20 14:26	1
Chloroform	<0.00073		0.0021	0.00073	mg/Kg	☼	12/01/20 17:52	12/07/20 14:26	1
Chloromethane	<0.0021		0.0052	0.0021	mg/Kg	☼	12/01/20 17:52	12/07/20 14:26	1
cis-1,2-Dichloroethene	<0.00059		0.0021	0.00059	mg/Kg	☼	12/01/20 17:52	12/07/20 14:26	1
cis-1,3-Dichloropropene	<0.00063		0.0021	0.00063	mg/Kg	☼	12/01/20 17:52	12/07/20 14:26	1
Dibromochloromethane	<0.00068		0.0021	0.00068	mg/Kg	☼	12/01/20 17:52	12/07/20 14:26	1
1,1-Dichloroethane	<0.00072		0.0021	0.00072	mg/Kg	☼	12/01/20 17:52	12/07/20 14:26	1
1,2-Dichloroethane	<0.0016		0.0052	0.0016	mg/Kg	☼	12/01/20 17:52	12/07/20 14:26	1
1,1-Dichloroethene	<0.00072		0.0021	0.00072	mg/Kg	☼	12/01/20 17:52	12/07/20 14:26	1
1,2-Dichloropropene	<0.00054		0.0021	0.00054	mg/Kg	☼	12/01/20 17:52	12/07/20 14:26	1
1,3-Dichloropropene, Total	<0.00074		0.0021	0.00074	mg/Kg	☼	12/01/20 17:52	12/07/20 14:26	1
Ethylbenzene	<0.0010		0.0021	0.0010	mg/Kg	☼	12/01/20 17:52	12/07/20 14:26	1
2-Hexanone	<0.0016		0.0052	0.0016	mg/Kg	☼	12/01/20 17:52	12/07/20 14:26	1
Methylene Chloride	<0.0021		0.0052	0.0021	mg/Kg	☼	12/01/20 17:52	12/07/20 14:26	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0052	0.0015	mg/Kg	☼	12/01/20 17:52	12/07/20 14:26	1
Methyl tert-butyl ether	<0.00061		0.0021	0.00061	mg/Kg	☼	12/01/20 17:52	12/07/20 14:26	1
Styrene	<0.00063		0.0021	0.00063	mg/Kg	☼	12/01/20 17:52	12/07/20 14:26	1
1,1,2,2-Tetrachloroethane	<0.00067		0.0021	0.00067	mg/Kg	☼	12/01/20 17:52	12/07/20 14:26	1
Tetrachloroethene	<0.00071		0.0021	0.00071	mg/Kg	☼	12/01/20 17:52	12/07/20 14:26	1
Toluene	<0.00053		0.0021	0.00053	mg/Kg	☼	12/01/20 17:52	12/07/20 14:26	1
trans-1,2-Dichloroethene	<0.00093		0.0021	0.00093	mg/Kg	☼	12/01/20 17:52	12/07/20 14:26	1
trans-1,3-Dichloropropene	<0.00074		0.0021	0.00074	mg/Kg	☼	12/01/20 17:52	12/07/20 14:26	1
1,1,1-Trichloroethane	<0.00070		0.0021	0.00070	mg/Kg	☼	12/01/20 17:52	12/07/20 14:26	1
1,1,2-Trichloroethane	<0.00090		0.0021	0.00090	mg/Kg	☼	12/01/20 17:52	12/07/20 14:26	1
Trichloroethene	<0.00071		0.0021	0.00071	mg/Kg	☼	12/01/20 17:52	12/07/20 14:26	1
Vinyl acetate	<0.0018		0.0052	0.0018	mg/Kg	☼	12/01/20 17:52	12/07/20 14:26	1
Vinyl chloride	<0.00093		0.0021	0.00093	mg/Kg	☼	12/01/20 17:52	12/07/20 14:26	1
Xylenes, Total	<0.00067		0.0042	0.00067	mg/Kg	☼	12/01/20 17:52	12/07/20 14:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		75 - 131	12/01/20 17:52	12/07/20 14:26	1
Dibromofluoromethane	101		75 - 126	12/01/20 17:52	12/07/20 14:26	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	12/01/20 17:52	12/07/20 14:26	1
Toluene-d8 (Surr)	87		75 - 124	12/01/20 17:52	12/07/20 14:26	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	☼	12/03/20 08:38	12/03/20 23:33	1
Acenaphthylene	<0.0053		0.040	0.0053	mg/Kg	☼	12/03/20 08:38	12/03/20 23:33	1
Anthracene	<0.0067		0.040	0.0067	mg/Kg	☼	12/03/20 08:38	12/03/20 23:33	1
Benzo[a]anthracene	0.013	J	0.040	0.0054	mg/Kg	☼	12/03/20 08:38	12/03/20 23:33	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Client Sample ID: 3138V-6-B06 (0-1.3)

Lab Sample ID: 500-191785-8

Date Collected: 12/01/20 12:00

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 80.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.017	J	0.040	0.0077	mg/Kg	☼	12/03/20 08:38	12/03/20 23:33	1
Benzo[b]fluoranthene	0.025	J	0.040	0.0086	mg/Kg	☼	12/03/20 08:38	12/03/20 23:33	1
Benzo[g,h,i]perylene	0.013	J	0.040	0.013	mg/Kg	☼	12/03/20 08:38	12/03/20 23:33	1
Benzo[k]fluoranthene	<0.012		0.040	0.012	mg/Kg	☼	12/03/20 08:38	12/03/20 23:33	1
Bis(2-chloroethoxy)methane	<0.041		0.20	0.041	mg/Kg	☼	12/03/20 08:38	12/03/20 23:33	1
Bis(2-chloroethyl)ether	<0.060		0.20	0.060	mg/Kg	☼	12/03/20 08:38	12/03/20 23:33	1
Bis(2-ethylhexyl) phthalate	<0.073		0.20	0.073	mg/Kg	☼	12/03/20 08:38	12/03/20 23:33	1
4-Bromophenyl phenyl ether	<0.053		0.20	0.053	mg/Kg	☼	12/03/20 08:38	12/03/20 23:33	1
Butyl benzyl phthalate	<0.076		0.20	0.076	mg/Kg	☼	12/03/20 08:38	12/03/20 23:33	1
Carbazole	<0.10		0.20	0.10	mg/Kg	☼	12/03/20 08:38	12/03/20 23:33	1
4-Chloroaniline	<0.19		0.80	0.19	mg/Kg	☼	12/03/20 08:38	12/03/20 23:33	1
4-Chloro-3-methylphenol	<0.14		0.40	0.14	mg/Kg	☼	12/03/20 08:38	12/03/20 23:33	1
2-Chloronaphthalene	<0.044		0.20	0.044	mg/Kg	☼	12/03/20 08:38	12/03/20 23:33	1
2-Chlorophenol	<0.068		0.20	0.068	mg/Kg	☼	12/03/20 08:38	12/03/20 23:33	1
4-Chlorophenyl phenyl ether	<0.047		0.20	0.047	mg/Kg	☼	12/03/20 08:38	12/03/20 23:33	1
Chrysene	0.015	J	0.040	0.011	mg/Kg	☼	12/03/20 08:38	12/03/20 23:33	1
Dibenz(a,h)anthracene	<0.0077		0.040	0.0077	mg/Kg	☼	12/03/20 08:38	12/03/20 23:33	1
Dibenzofuran	<0.047		0.20	0.047	mg/Kg	☼	12/03/20 08:38	12/03/20 23:33	1
1,2-Dichlorobenzene	<0.048		0.20	0.048	mg/Kg	☼	12/03/20 08:38	12/03/20 23:33	1
1,3-Dichlorobenzene	<0.045		0.20	0.045	mg/Kg	☼	12/03/20 08:38	12/03/20 23:33	1
1,4-Dichlorobenzene	<0.051		0.20	0.051	mg/Kg	☼	12/03/20 08:38	12/03/20 23:33	1
3,3'-Dichlorobenzidine	<0.056		0.20	0.056	mg/Kg	☼	12/03/20 08:38	12/03/20 23:33	1
2,4-Dichlorophenol	<0.095		0.40	0.095	mg/Kg	☼	12/03/20 08:38	12/03/20 23:33	1
Diethyl phthalate	<0.068		0.20	0.068	mg/Kg	☼	12/03/20 08:38	12/03/20 23:33	1
2,4-Dimethylphenol	<0.15		0.40	0.15	mg/Kg	☼	12/03/20 08:38	12/03/20 23:33	1
Dimethyl phthalate	<0.052		0.20	0.052	mg/Kg	☼	12/03/20 08:38	12/03/20 23:33	1
Di-n-butyl phthalate	<0.061		0.20	0.061	mg/Kg	☼	12/03/20 08:38	12/03/20 23:33	1
4,6-Dinitro-2-methylphenol	<0.32		0.80	0.32	mg/Kg	☼	12/03/20 08:38	12/03/20 23:33	1
2,4-Dinitrophenol	<0.70		0.80	0.70	mg/Kg	☼	12/03/20 08:38	12/03/20 23:33	1
2,4-Dinitrotoluene	<0.063		0.20	0.063	mg/Kg	☼	12/03/20 08:38	12/03/20 23:33	1
2,6-Dinitrotoluene	<0.078		0.20	0.078	mg/Kg	☼	12/03/20 08:38	12/03/20 23:33	1
Di-n-octyl phthalate	<0.065		0.20	0.065	mg/Kg	☼	12/03/20 08:38	12/03/20 23:33	1
Fluoranthene	0.025	J	0.040	0.0074	mg/Kg	☼	12/03/20 08:38	12/03/20 23:33	1
Fluorene	<0.0056		0.040	0.0056	mg/Kg	☼	12/03/20 08:38	12/03/20 23:33	1
Hexachlorobenzene	<0.0092		0.080	0.0092	mg/Kg	☼	12/03/20 08:38	12/03/20 23:33	1
Hexachlorobutadiene	<0.063		0.20	0.063	mg/Kg	☼	12/03/20 08:38	12/03/20 23:33	1
Hexachlorocyclopentadiene	<0.23		0.80	0.23	mg/Kg	☼	12/03/20 08:38	12/03/20 23:33	1
Hexachloroethane	<0.061		0.20	0.061	mg/Kg	☼	12/03/20 08:38	12/03/20 23:33	1
Indeno[1,2,3-cd]pyrene	0.012	J	0.040	0.010	mg/Kg	☼	12/03/20 08:38	12/03/20 23:33	1
Isophorone	<0.045		0.20	0.045	mg/Kg	☼	12/03/20 08:38	12/03/20 23:33	1
2-Methylnaphthalene	<0.0073		0.080	0.0073	mg/Kg	☼	12/03/20 08:38	12/03/20 23:33	1
2-Methylphenol	<0.064		0.20	0.064	mg/Kg	☼	12/03/20 08:38	12/03/20 23:33	1
3 & 4 Methylphenol	<0.067		0.20	0.067	mg/Kg	☼	12/03/20 08:38	12/03/20 23:33	1
Naphthalene	<0.0061		0.040	0.0061	mg/Kg	☼	12/03/20 08:38	12/03/20 23:33	1
2-Nitroaniline	<0.054		0.20	0.054	mg/Kg	☼	12/03/20 08:38	12/03/20 23:33	1
3-Nitroaniline	<0.12		0.40	0.12	mg/Kg	☼	12/03/20 08:38	12/03/20 23:33	1
4-Nitroaniline	<0.17		0.40	0.17	mg/Kg	☼	12/03/20 08:38	12/03/20 23:33	1
Nitrobenzene	<0.010		0.040	0.010	mg/Kg	☼	12/03/20 08:38	12/03/20 23:33	1
2-Nitrophenol	<0.094		0.40	0.094	mg/Kg	☼	12/03/20 08:38	12/03/20 23:33	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Client Sample ID: 3138V-6-B06 (0-1.3)

Lab Sample ID: 500-191785-8

Date Collected: 12/01/20 12:00

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 80.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.38		0.80	0.38	mg/Kg	☼	12/03/20 08:38	12/03/20 23:33	1
N-Nitrosodi-n-propylamine	<0.049		0.080	0.049	mg/Kg	☼	12/03/20 08:38	12/03/20 23:33	1
N-Nitrosodiphenylamine	<0.047		0.20	0.047	mg/Kg	☼	12/03/20 08:38	12/03/20 23:33	1
2,2'-oxybis[1-chloropropane]	<0.046		0.20	0.046	mg/Kg	☼	12/03/20 08:38	12/03/20 23:33	1
Pentachlorophenol	<0.64		0.80	0.64	mg/Kg	☼	12/03/20 08:38	12/03/20 23:33	1
Phenanthrene	0.011	J	0.040	0.0056	mg/Kg	☼	12/03/20 08:38	12/03/20 23:33	1
Phenol	<0.089		0.20	0.089	mg/Kg	☼	12/03/20 08:38	12/03/20 23:33	1
Pyrene	0.023	J	0.040	0.0079	mg/Kg	☼	12/03/20 08:38	12/03/20 23:33	1
1,2,4-Trichlorobenzene	<0.043		0.20	0.043	mg/Kg	☼	12/03/20 08:38	12/03/20 23:33	1
2,4,5-Trichlorophenol	<0.091		0.40	0.091	mg/Kg	☼	12/03/20 08:38	12/03/20 23:33	1
2,4,6-Trichlorophenol	<0.14		0.40	0.14	mg/Kg	☼	12/03/20 08:38	12/03/20 23:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	90		43 - 145				12/03/20 08:38	12/03/20 23:33	1
2-Fluorophenol	110		31 - 166				12/03/20 08:38	12/03/20 23:33	1
Nitrobenzene-d5	78		37 - 147				12/03/20 08:38	12/03/20 23:33	1
Phenol-d5	98		30 - 153				12/03/20 08:38	12/03/20 23:33	1
Terphenyl-d14	103		42 - 157				12/03/20 08:38	12/03/20 23:33	1
2,4,6-Tribromophenol	93		31 - 143				12/03/20 08:38	12/03/20 23:33	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.74	J	1.2	0.23	mg/Kg	☼	12/04/20 17:58	12/07/20 12:06	1
Arsenic	5.5		0.60	0.20	mg/Kg	☼	12/04/20 17:58	12/07/20 12:06	1
Barium	73		0.60	0.068	mg/Kg	☼	12/04/20 17:58	12/07/20 12:06	1
Beryllium	0.92		0.24	0.056	mg/Kg	☼	12/04/20 17:58	12/07/20 12:06	1
Cadmium	0.22		0.12	0.022	mg/Kg	☼	12/04/20 17:58	12/07/20 12:06	1
Chromium	20		0.60	0.30	mg/Kg	☼	12/04/20 17:58	12/07/20 12:06	1
Cobalt	13		0.30	0.078	mg/Kg	☼	12/04/20 17:58	12/07/20 12:06	1
Copper	24		0.60	0.17	mg/Kg	☼	12/04/20 17:58	12/07/20 12:06	1
Iron	22000	B	12	6.2	mg/Kg	☼	12/04/20 17:58	12/07/20 12:06	1
Lead	25		0.30	0.14	mg/Kg	☼	12/04/20 17:58	12/07/20 12:06	1
Magnesium	16000		6.0	3.0	mg/Kg	☼	12/04/20 17:58	12/07/20 12:06	1
Calcium	26000	B	12	2.0	mg/Kg	☼	12/04/20 17:58	12/07/20 12:06	1
Manganese	1000		0.60	0.087	mg/Kg	☼	12/04/20 17:58	12/07/20 12:06	1
Nickel	31		0.60	0.17	mg/Kg	☼	12/04/20 17:58	12/07/20 12:06	1
Selenium	0.46	J	0.60	0.35	mg/Kg	☼	12/04/20 17:58	12/07/20 12:06	1
Silver	<0.077		0.30	0.077	mg/Kg	☼	12/04/20 17:58	12/07/20 12:06	1
Thallium	<0.30		0.60	0.30	mg/Kg	☼	12/04/20 17:58	12/07/20 12:06	1
Vanadium	27		0.30	0.071	mg/Kg	☼	12/04/20 17:58	12/07/20 12:06	1
Zinc	74		1.2	0.53	mg/Kg	☼	12/04/20 17:58	12/07/20 12:06	1
Potassium	2900		30	11	mg/Kg	☼	12/04/20 17:58	12/07/20 12:06	1
Sodium	1200	B	60	8.9	mg/Kg	☼	12/04/20 17:58	12/07/20 12:06	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		12/07/20 16:58	12/08/20 17:37	1
Barium	0.57		0.50	0.050	mg/L		12/07/20 16:58	12/08/20 17:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/07/20 16:58	12/08/20 17:37	1
Cadmium	0.0021	J	0.0050	0.0020	mg/L		12/07/20 16:58	12/08/20 17:37	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Client Sample ID: 3138V-6-B06 (0-1.3)

Lab Sample ID: 500-191785-8

Date Collected: 12/01/20 12:00

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 80.5

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		12/07/20 16:58	12/08/20 17:37	1
Chromium	0.014	J	0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:37	1
Cobalt	0.024	J	0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:37	1
Copper	0.015	J	0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:37	1
Iron	11		0.40	0.20	mg/L		12/07/20 16:58	12/08/20 17:37	1
Lead	0.017		0.0075	0.0075	mg/L		12/07/20 16:58	12/08/20 17:37	1
Magnesium	65		2.5	0.50	mg/L		12/07/20 16:58	12/08/20 17:37	1
Manganese	12		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:37	1
Nickel	0.028		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:37	1
Potassium	5.2		2.5	0.50	mg/L		12/07/20 16:58	12/08/20 17:37	1
Selenium	<0.020		0.050	0.020	mg/L		12/07/20 16:58	12/08/20 17:37	1
Silver	<0.010		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:37	1
Vanadium	0.023	J	0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:37	1
Zinc	0.066	J	0.50	0.020	mg/L		12/07/20 16:58	12/08/20 17:37	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	120		0.40	0.20	mg/L		12/07/20 17:02	12/08/20 14:07	1
Lead	0.19		0.0075	0.0075	mg/L		12/07/20 17:02	12/08/20 14:07	1
Manganese	1.8		0.025	0.010	mg/L		12/07/20 17:02	12/10/20 14:54	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		12/07/20 16:58	12/09/20 13:42	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/07/20 16:58	12/09/20 13:42	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/08/20 08:15	12/09/20 08:28	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.037		0.019	0.0063	mg/Kg	⊛	12/07/20 13:35	12/08/20 10:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.21	J	0.28	0.14	mg/Kg	⊛	12/07/20 10:47	12/07/20 16:29	1
pH	8.1		0.2	0.2	SU			12/08/20 14:43	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Client Sample ID: 3138V-6-B07 (0-1.3)

Lab Sample ID: 500-191785-9

Date Collected: 12/01/20 11:30

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0081		0.019	0.0081	mg/Kg	✳	12/01/20 17:52	12/07/20 14:51	1
Benzene	<0.00048		0.0019	0.00048	mg/Kg	✳	12/01/20 17:52	12/07/20 14:51	1
Bromodichloromethane	<0.00038		0.0019	0.00038	mg/Kg	✳	12/01/20 17:52	12/07/20 14:51	1
Bromoform	<0.00054		0.0019	0.00054	mg/Kg	✳	12/01/20 17:52	12/07/20 14:51	1
Bromomethane	<0.0018		0.0047	0.0018	mg/Kg	✳	12/01/20 17:52	12/07/20 14:51	1
2-Butanone (MEK)	<0.0021		0.0047	0.0021	mg/Kg	✳	12/01/20 17:52	12/07/20 14:51	1
Carbon disulfide	<0.00097		0.0047	0.00097	mg/Kg	✳	12/01/20 17:52	12/07/20 14:51	1
Carbon tetrachloride	<0.00054		0.0019	0.00054	mg/Kg	✳	12/01/20 17:52	12/07/20 14:51	1
Chlorobenzene	<0.00069		0.0019	0.00069	mg/Kg	✳	12/01/20 17:52	12/07/20 14:51	1
Chloroethane	<0.0014		0.0047	0.0014	mg/Kg	✳	12/01/20 17:52	12/07/20 14:51	1
Chloroform	<0.00065		0.0019	0.00065	mg/Kg	✳	12/01/20 17:52	12/07/20 14:51	1
Chloromethane	<0.0019		0.0047	0.0019	mg/Kg	✳	12/01/20 17:52	12/07/20 14:51	1
cis-1,2-Dichloroethene	<0.00052		0.0019	0.00052	mg/Kg	✳	12/01/20 17:52	12/07/20 14:51	1
cis-1,3-Dichloropropene	<0.00056		0.0019	0.00056	mg/Kg	✳	12/01/20 17:52	12/07/20 14:51	1
Dibromochloromethane	<0.00061		0.0019	0.00061	mg/Kg	✳	12/01/20 17:52	12/07/20 14:51	1
1,1-Dichloroethane	<0.00064		0.0019	0.00064	mg/Kg	✳	12/01/20 17:52	12/07/20 14:51	1
1,2-Dichloroethane	<0.0015		0.0047	0.0015	mg/Kg	✳	12/01/20 17:52	12/07/20 14:51	1
1,1-Dichloroethene	<0.00064		0.0019	0.00064	mg/Kg	✳	12/01/20 17:52	12/07/20 14:51	1
1,2-Dichloropropene	<0.00048		0.0019	0.00048	mg/Kg	✳	12/01/20 17:52	12/07/20 14:51	1
1,3-Dichloropropene, Total	<0.00066		0.0019	0.00066	mg/Kg	✳	12/01/20 17:52	12/07/20 14:51	1
Ethylbenzene	<0.00089		0.0019	0.00089	mg/Kg	✳	12/01/20 17:52	12/07/20 14:51	1
2-Hexanone	<0.0015		0.0047	0.0015	mg/Kg	✳	12/01/20 17:52	12/07/20 14:51	1
Methylene Chloride	<0.0018		0.0047	0.0018	mg/Kg	✳	12/01/20 17:52	12/07/20 14:51	1
4-Methyl-2-pentanone (MIBK)	<0.0014		0.0047	0.0014	mg/Kg	✳	12/01/20 17:52	12/07/20 14:51	1
Methyl tert-butyl ether	<0.00055		0.0019	0.00055	mg/Kg	✳	12/01/20 17:52	12/07/20 14:51	1
Styrene	<0.00056		0.0019	0.00056	mg/Kg	✳	12/01/20 17:52	12/07/20 14:51	1
1,1,2,2-Tetrachloroethane	<0.00060		0.0019	0.00060	mg/Kg	✳	12/01/20 17:52	12/07/20 14:51	1
Tetrachloroethene	<0.00064		0.0019	0.00064	mg/Kg	✳	12/01/20 17:52	12/07/20 14:51	1
Toluene	<0.00047		0.0019	0.00047	mg/Kg	✳	12/01/20 17:52	12/07/20 14:51	1
trans-1,2-Dichloroethene	<0.00083		0.0019	0.00083	mg/Kg	✳	12/01/20 17:52	12/07/20 14:51	1
trans-1,3-Dichloropropene	<0.00066		0.0019	0.00066	mg/Kg	✳	12/01/20 17:52	12/07/20 14:51	1
1,1,1-Trichloroethane	<0.00063		0.0019	0.00063	mg/Kg	✳	12/01/20 17:52	12/07/20 14:51	1
1,1,2-Trichloroethane	<0.00080		0.0019	0.00080	mg/Kg	✳	12/01/20 17:52	12/07/20 14:51	1
Trichloroethene	<0.00063		0.0019	0.00063	mg/Kg	✳	12/01/20 17:52	12/07/20 14:51	1
Vinyl acetate	<0.0016		0.0047	0.0016	mg/Kg	✳	12/01/20 17:52	12/07/20 14:51	1
Vinyl chloride	<0.00083		0.0019	0.00083	mg/Kg	✳	12/01/20 17:52	12/07/20 14:51	1
Xylenes, Total	<0.00060		0.0037	0.00060	mg/Kg	✳	12/01/20 17:52	12/07/20 14:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		75 - 131	12/01/20 17:52	12/07/20 14:51	1
Dibromofluoromethane	102		75 - 126	12/01/20 17:52	12/07/20 14:51	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 134	12/01/20 17:52	12/07/20 14:51	1
Toluene-d8 (Surr)	88		75 - 124	12/01/20 17:52	12/07/20 14:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.0091	J	0.040	0.0072	mg/Kg	✳	12/03/20 08:38	12/04/20 00:03	1
Acenaphthylene	<0.0053		0.040	0.0053	mg/Kg	✳	12/03/20 08:38	12/04/20 00:03	1
Anthracene	0.020	J	0.040	0.0067	mg/Kg	✳	12/03/20 08:38	12/04/20 00:03	1
Benzo[a]anthracene	0.11		0.040	0.0054	mg/Kg	✳	12/03/20 08:38	12/04/20 00:03	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Client Sample ID: 3138V-6-B07 (0-1.3)

Lab Sample ID: 500-191785-9

Date Collected: 12/01/20 11:30

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.13		0.040	0.0078	mg/Kg	☼	12/03/20 08:38	12/04/20 00:03	1
Benzo[b]fluoranthene	0.18		0.040	0.0087	mg/Kg	☼	12/03/20 08:38	12/04/20 00:03	1
Benzo[g,h,i]perylene	0.060		0.040	0.013	mg/Kg	☼	12/03/20 08:38	12/04/20 00:03	1
Benzo[k]fluoranthene	0.070		0.040	0.012	mg/Kg	☼	12/03/20 08:38	12/04/20 00:03	1
Bis(2-chloroethoxy)methane	<0.041		0.20	0.041	mg/Kg	☼	12/03/20 08:38	12/04/20 00:03	1
Bis(2-chloroethyl)ether	<0.060		0.20	0.060	mg/Kg	☼	12/03/20 08:38	12/04/20 00:03	1
Bis(2-ethylhexyl) phthalate	<0.074		0.20	0.074	mg/Kg	☼	12/03/20 08:38	12/04/20 00:03	1
4-Bromophenyl phenyl ether	<0.053		0.20	0.053	mg/Kg	☼	12/03/20 08:38	12/04/20 00:03	1
Butyl benzyl phthalate	<0.077		0.20	0.077	mg/Kg	☼	12/03/20 08:38	12/04/20 00:03	1
Carbazole	<0.10		0.20	0.10	mg/Kg	☼	12/03/20 08:38	12/04/20 00:03	1
4-Chloroaniline	<0.19		0.81	0.19	mg/Kg	☼	12/03/20 08:38	12/04/20 00:03	1
4-Chloro-3-methylphenol	<0.14		0.40	0.14	mg/Kg	☼	12/03/20 08:38	12/04/20 00:03	1
2-Chloronaphthalene	<0.044		0.20	0.044	mg/Kg	☼	12/03/20 08:38	12/04/20 00:03	1
2-Chlorophenol	<0.069		0.20	0.069	mg/Kg	☼	12/03/20 08:38	12/04/20 00:03	1
4-Chlorophenyl phenyl ether	<0.047		0.20	0.047	mg/Kg	☼	12/03/20 08:38	12/04/20 00:03	1
Chrysene	0.13		0.040	0.011	mg/Kg	☼	12/03/20 08:38	12/04/20 00:03	1
Dibenz(a,h)anthracene	0.022	J	0.040	0.0078	mg/Kg	☼	12/03/20 08:38	12/04/20 00:03	1
Dibenzofuran	<0.047		0.20	0.047	mg/Kg	☼	12/03/20 08:38	12/04/20 00:03	1
1,2-Dichlorobenzene	<0.048		0.20	0.048	mg/Kg	☼	12/03/20 08:38	12/04/20 00:03	1
1,3-Dichlorobenzene	<0.045		0.20	0.045	mg/Kg	☼	12/03/20 08:38	12/04/20 00:03	1
1,4-Dichlorobenzene	<0.052		0.20	0.052	mg/Kg	☼	12/03/20 08:38	12/04/20 00:03	1
3,3'-Dichlorobenzidine	<0.056		0.20	0.056	mg/Kg	☼	12/03/20 08:38	12/04/20 00:03	1
2,4-Dichlorophenol	<0.096		0.40	0.096	mg/Kg	☼	12/03/20 08:38	12/04/20 00:03	1
Diethyl phthalate	<0.068		0.20	0.068	mg/Kg	☼	12/03/20 08:38	12/04/20 00:03	1
2,4-Dimethylphenol	<0.15		0.40	0.15	mg/Kg	☼	12/03/20 08:38	12/04/20 00:03	1
Dimethyl phthalate	<0.053		0.20	0.053	mg/Kg	☼	12/03/20 08:38	12/04/20 00:03	1
Di-n-butyl phthalate	<0.061		0.20	0.061	mg/Kg	☼	12/03/20 08:38	12/04/20 00:03	1
4,6-Dinitro-2-methylphenol	<0.32		0.81	0.32	mg/Kg	☼	12/03/20 08:38	12/04/20 00:03	1
2,4-Dinitrophenol	<0.71		0.81	0.71	mg/Kg	☼	12/03/20 08:38	12/04/20 00:03	1
2,4-Dinitrotoluene	<0.064		0.20	0.064	mg/Kg	☼	12/03/20 08:38	12/04/20 00:03	1
2,6-Dinitrotoluene	<0.079		0.20	0.079	mg/Kg	☼	12/03/20 08:38	12/04/20 00:03	1
Di-n-octyl phthalate	<0.066		0.20	0.066	mg/Kg	☼	12/03/20 08:38	12/04/20 00:03	1
Fluoranthene	0.25		0.040	0.0075	mg/Kg	☼	12/03/20 08:38	12/04/20 00:03	1
Fluorene	0.0070	J	0.040	0.0057	mg/Kg	☼	12/03/20 08:38	12/04/20 00:03	1
Hexachlorobenzene	<0.0093		0.081	0.0093	mg/Kg	☼	12/03/20 08:38	12/04/20 00:03	1
Hexachlorobutadiene	<0.063		0.20	0.063	mg/Kg	☼	12/03/20 08:38	12/04/20 00:03	1
Hexachlorocyclopentadiene	<0.23		0.81	0.23	mg/Kg	☼	12/03/20 08:38	12/04/20 00:03	1
Hexachloroethane	<0.061		0.20	0.061	mg/Kg	☼	12/03/20 08:38	12/04/20 00:03	1
Indeno[1,2,3-cd]pyrene	0.058		0.040	0.010	mg/Kg	☼	12/03/20 08:38	12/04/20 00:03	1
Isophorone	<0.045		0.20	0.045	mg/Kg	☼	12/03/20 08:38	12/04/20 00:03	1
2-Methylnaphthalene	<0.0074		0.081	0.0074	mg/Kg	☼	12/03/20 08:38	12/04/20 00:03	1
2-Methylphenol	<0.065		0.20	0.065	mg/Kg	☼	12/03/20 08:38	12/04/20 00:03	1
3 & 4 Methylphenol	<0.067		0.20	0.067	mg/Kg	☼	12/03/20 08:38	12/04/20 00:03	1
Naphthalene	<0.0062		0.040	0.0062	mg/Kg	☼	12/03/20 08:38	12/04/20 00:03	1
2-Nitroaniline	<0.054		0.20	0.054	mg/Kg	☼	12/03/20 08:38	12/04/20 00:03	1
3-Nitroaniline	<0.12		0.40	0.12	mg/Kg	☼	12/03/20 08:38	12/04/20 00:03	1
4-Nitroaniline	<0.17		0.40	0.17	mg/Kg	☼	12/03/20 08:38	12/04/20 00:03	1
Nitrobenzene	<0.010		0.040	0.010	mg/Kg	☼	12/03/20 08:38	12/04/20 00:03	1
2-Nitrophenol	<0.095		0.40	0.095	mg/Kg	☼	12/03/20 08:38	12/04/20 00:03	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Client Sample ID: 3138V-6-B07 (0-1.3)

Lab Sample ID: 500-191785-9

Date Collected: 12/01/20 11:30

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 82.1

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	☼	12/03/20 08:38	12/04/20 00:03	1
N-Nitrosodi-n-propylamine	<0.049		0.081	0.049	mg/Kg	☼	12/03/20 08:38	12/04/20 00:03	1
N-Nitrosodiphenylamine	<0.047		0.20	0.047	mg/Kg	☼	12/03/20 08:38	12/04/20 00:03	1
2,2'-oxybis[1-chloropropane]	<0.047		0.20	0.047	mg/Kg	☼	12/03/20 08:38	12/04/20 00:03	1
Pentachlorophenol	<0.65		0.81	0.65	mg/Kg	☼	12/03/20 08:38	12/04/20 00:03	1
Phenanthrene	0.11		0.040	0.0056	mg/Kg	☼	12/03/20 08:38	12/04/20 00:03	1
Phenol	<0.089		0.20	0.089	mg/Kg	☼	12/03/20 08:38	12/04/20 00:03	1
Pyrene	0.22		0.040	0.0080	mg/Kg	☼	12/03/20 08:38	12/04/20 00:03	1
1,2,4-Trichlorobenzene	<0.043		0.20	0.043	mg/Kg	☼	12/03/20 08:38	12/04/20 00:03	1
2,4,5-Trichlorophenol	<0.092		0.40	0.092	mg/Kg	☼	12/03/20 08:38	12/04/20 00:03	1
2,4,6-Trichlorophenol	<0.14		0.40	0.14	mg/Kg	☼	12/03/20 08:38	12/04/20 00:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	89		43 - 145				12/03/20 08:38	12/04/20 00:03	1
2-Fluorophenol	106		31 - 166				12/03/20 08:38	12/04/20 00:03	1
Nitrobenzene-d5	75		37 - 147				12/03/20 08:38	12/04/20 00:03	1
Phenol-d5	96		30 - 153				12/03/20 08:38	12/04/20 00:03	1
Terphenyl-d14	104		42 - 157				12/03/20 08:38	12/04/20 00:03	1
2,4,6-Tribromophenol	76		31 - 143				12/03/20 08:38	12/04/20 00:03	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.64	J	1.1	0.22	mg/Kg	☼	12/04/20 17:58	12/07/20 12:09	1
Arsenic	5.5		0.56	0.19	mg/Kg	☼	12/04/20 17:58	12/07/20 12:09	1
Barium	59		0.56	0.063	mg/Kg	☼	12/04/20 17:58	12/07/20 12:09	1
Beryllium	0.85		0.22	0.052	mg/Kg	☼	12/04/20 17:58	12/07/20 12:09	1
Cadmium	0.26		0.11	0.020	mg/Kg	☼	12/04/20 17:58	12/07/20 12:09	1
Chromium	19		0.56	0.28	mg/Kg	☼	12/04/20 17:58	12/07/20 12:09	1
Cobalt	12		0.28	0.073	mg/Kg	☼	12/04/20 17:58	12/07/20 12:09	1
Copper	24		0.56	0.16	mg/Kg	☼	12/04/20 17:58	12/07/20 12:09	1
Iron	24000	B	110	58	mg/Kg	☼	12/04/20 17:58	12/08/20 12:23	10
Lead	64		0.28	0.13	mg/Kg	☼	12/04/20 17:58	12/07/20 12:09	1
Magnesium	47000		56	28	mg/Kg	☼	12/04/20 17:58	12/09/20 11:27	10
Calcium	93000	B	110	19	mg/Kg	☼	12/04/20 17:58	12/08/20 12:23	10
Manganese	480		0.56	0.081	mg/Kg	☼	12/04/20 17:58	12/07/20 12:09	1
Nickel	29		0.56	0.16	mg/Kg	☼	12/04/20 17:58	12/07/20 12:09	1
Selenium	<0.33		0.56	0.33	mg/Kg	☼	12/04/20 17:58	12/07/20 12:09	1
Silver	<0.072		0.28	0.072	mg/Kg	☼	12/04/20 17:58	12/07/20 12:09	1
Thallium	<0.28		0.56	0.28	mg/Kg	☼	12/04/20 17:58	12/07/20 12:09	1
Vanadium	24		0.28	0.066	mg/Kg	☼	12/04/20 17:58	12/07/20 12:09	1
Zinc	80		1.1	0.49	mg/Kg	☼	12/04/20 17:58	12/07/20 12:09	1
Potassium	2900		28	9.9	mg/Kg	☼	12/04/20 17:58	12/07/20 12:09	1
Sodium	630	B	56	8.2	mg/Kg	☼	12/04/20 17:58	12/07/20 12:09	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		12/07/20 16:58	12/08/20 17:40	1
Barium	0.38	J	0.50	0.050	mg/L		12/07/20 16:58	12/08/20 17:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/07/20 16:58	12/08/20 17:40	1
Cadmium	0.0022	J	0.0050	0.0020	mg/L		12/07/20 16:58	12/08/20 17:40	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Client Sample ID: 3138V-6-B07 (0-1.3)

Lab Sample ID: 500-191785-9

Date Collected: 12/01/20 11:30

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	440		5.0	0.50	mg/L		12/07/20 16:58	12/08/20 17:40	1
Chromium	<0.010		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:40	1
Cobalt	<0.010		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:40	1
Copper	<0.010		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:40	1
Iron	<0.20		0.40	0.20	mg/L		12/07/20 16:58	12/08/20 17:40	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/07/20 16:58	12/08/20 17:40	1
Magnesium	85		2.5	0.50	mg/L		12/07/20 16:58	12/08/20 17:40	1
Manganese	0.37		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:40	1
Nickel	0.012	J	0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:40	1
Potassium	0.90	J	2.5	0.50	mg/L		12/07/20 16:58	12/08/20 17:40	1
Selenium	<0.020		0.050	0.020	mg/L		12/07/20 16:58	12/08/20 17:40	1
Silver	<0.010		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:40	1
Vanadium	<0.010		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:40	1
Zinc	<0.020		0.50	0.020	mg/L		12/07/20 16:58	12/08/20 17:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.12		0.025	0.010	mg/L		12/07/20 17:02	12/10/20 14:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/07/20 16:58	12/09/20 13:48	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/07/20 16:58	12/09/20 13:48	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/08/20 08:15	12/09/20 08:31	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.019	0.0064	mg/Kg	✱	12/07/20 13:35	12/08/20 10:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.14		0.27	0.14	mg/Kg	✱	12/07/20 10:47	12/07/20 16:31	1
pH	8.0		0.2	0.2	SU			12/08/20 14:45	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Client Sample ID: 3138V-6-B08 (0-1.3)

Lab Sample ID: 500-191785-10

Date Collected: 12/01/20 11:15

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 84.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0093	J	0.018	0.0078	mg/Kg	☼	12/01/20 17:52	12/07/20 15:17	1
Benzene	<0.00046		0.0018	0.00046	mg/Kg	☼	12/01/20 17:52	12/07/20 15:17	1
Bromodichloromethane	<0.00037		0.0018	0.00037	mg/Kg	☼	12/01/20 17:52	12/07/20 15:17	1
Bromoform	<0.00052		0.0018	0.00052	mg/Kg	☼	12/01/20 17:52	12/07/20 15:17	1
Bromomethane	<0.0017		0.0045	0.0017	mg/Kg	☼	12/01/20 17:52	12/07/20 15:17	1
2-Butanone (MEK)	<0.0020		0.0045	0.0020	mg/Kg	☼	12/01/20 17:52	12/07/20 15:17	1
Carbon disulfide	<0.00093		0.0045	0.00093	mg/Kg	☼	12/01/20 17:52	12/07/20 15:17	1
Carbon tetrachloride	<0.00052		0.0018	0.00052	mg/Kg	☼	12/01/20 17:52	12/07/20 15:17	1
Chlorobenzene	<0.00066		0.0018	0.00066	mg/Kg	☼	12/01/20 17:52	12/07/20 15:17	1
Chloroethane	<0.0013		0.0045	0.0013	mg/Kg	☼	12/01/20 17:52	12/07/20 15:17	1
Chloroform	<0.00062		0.0018	0.00062	mg/Kg	☼	12/01/20 17:52	12/07/20 15:17	1
Chloromethane	<0.0018		0.0045	0.0018	mg/Kg	☼	12/01/20 17:52	12/07/20 15:17	1
cis-1,2-Dichloroethene	<0.00050		0.0018	0.00050	mg/Kg	☼	12/01/20 17:52	12/07/20 15:17	1
cis-1,3-Dichloropropene	<0.00054		0.0018	0.00054	mg/Kg	☼	12/01/20 17:52	12/07/20 15:17	1
Dibromochloromethane	<0.00059		0.0018	0.00059	mg/Kg	☼	12/01/20 17:52	12/07/20 15:17	1
1,1-Dichloroethane	<0.00061		0.0018	0.00061	mg/Kg	☼	12/01/20 17:52	12/07/20 15:17	1
1,2-Dichloroethane	<0.0014		0.0045	0.0014	mg/Kg	☼	12/01/20 17:52	12/07/20 15:17	1
1,1-Dichloroethene	<0.00062		0.0018	0.00062	mg/Kg	☼	12/01/20 17:52	12/07/20 15:17	1
1,2-Dichloropropene	<0.00046		0.0018	0.00046	mg/Kg	☼	12/01/20 17:52	12/07/20 15:17	1
1,3-Dichloropropene, Total	<0.00063		0.0018	0.00063	mg/Kg	☼	12/01/20 17:52	12/07/20 15:17	1
Ethylbenzene	<0.00086		0.0018	0.00086	mg/Kg	☼	12/01/20 17:52	12/07/20 15:17	1
2-Hexanone	<0.0014		0.0045	0.0014	mg/Kg	☼	12/01/20 17:52	12/07/20 15:17	1
Methylene Chloride	<0.0018		0.0045	0.0018	mg/Kg	☼	12/01/20 17:52	12/07/20 15:17	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0045	0.0013	mg/Kg	☼	12/01/20 17:52	12/07/20 15:17	1
Methyl tert-butyl ether	<0.00053		0.0018	0.00053	mg/Kg	☼	12/01/20 17:52	12/07/20 15:17	1
Styrene	<0.00054		0.0018	0.00054	mg/Kg	☼	12/01/20 17:52	12/07/20 15:17	1
1,1,2,2-Tetrachloroethane	<0.00057		0.0018	0.00057	mg/Kg	☼	12/01/20 17:52	12/07/20 15:17	1
Tetrachloroethene	<0.00061		0.0018	0.00061	mg/Kg	☼	12/01/20 17:52	12/07/20 15:17	1
Toluene	<0.00045		0.0018	0.00045	mg/Kg	☼	12/01/20 17:52	12/07/20 15:17	1
trans-1,2-Dichloroethene	<0.00080		0.0018	0.00080	mg/Kg	☼	12/01/20 17:52	12/07/20 15:17	1
trans-1,3-Dichloropropene	<0.00063		0.0018	0.00063	mg/Kg	☼	12/01/20 17:52	12/07/20 15:17	1
1,1,1-Trichloroethane	<0.00060		0.0018	0.00060	mg/Kg	☼	12/01/20 17:52	12/07/20 15:17	1
1,1,2-Trichloroethane	<0.00077		0.0018	0.00077	mg/Kg	☼	12/01/20 17:52	12/07/20 15:17	1
Trichloroethene	<0.00061		0.0018	0.00061	mg/Kg	☼	12/01/20 17:52	12/07/20 15:17	1
Vinyl acetate	<0.0016		0.0045	0.0016	mg/Kg	☼	12/01/20 17:52	12/07/20 15:17	1
Vinyl chloride	<0.00079		0.0018	0.00079	mg/Kg	☼	12/01/20 17:52	12/07/20 15:17	1
Xylenes, Total	<0.00057		0.0036	0.00057	mg/Kg	☼	12/01/20 17:52	12/07/20 15:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		75 - 131	12/01/20 17:52	12/07/20 15:17	1
Dibromofluoromethane	102		75 - 126	12/01/20 17:52	12/07/20 15:17	1
1,2-Dichloroethane-d4 (Surr)	88		70 - 134	12/01/20 17:52	12/07/20 15:17	1
Toluene-d8 (Surr)	89		75 - 124	12/01/20 17:52	12/07/20 15:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0070		0.039	0.0070	mg/Kg	☼	12/03/20 08:38	12/05/20 17:55	1
Acenaphthylene	<0.0051		0.039	0.0051	mg/Kg	☼	12/03/20 08:38	12/05/20 17:55	1
Anthracene	0.012	J	0.039	0.0065	mg/Kg	☼	12/03/20 08:38	12/05/20 17:55	1
Benzo[a]anthracene	0.064		0.039	0.0052	mg/Kg	☼	12/03/20 08:38	12/05/20 17:55	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Client Sample ID: 3138V-6-B08 (0-1.3)

Lab Sample ID: 500-191785-10

Date Collected: 12/01/20 11:15

Matrix: Solid

Date Received: 12/01/20 17:01

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	0.066		0.039	0.0075	mg/Kg	☼	12/03/20 08:38	12/05/20 17:55	1
Benzo[b]fluoranthene	0.085		0.039	0.0084	mg/Kg	☼	12/03/20 08:38	12/05/20 17:55	1
Benzo[g,h,i]perylene	0.040		0.039	0.012	mg/Kg	☼	12/03/20 08:38	12/05/20 17:55	1
Benzo[k]fluoranthene	0.035	J	0.039	0.011	mg/Kg	☼	12/03/20 08:38	12/05/20 17:55	1
Bis(2-chloroethoxy)methane	<0.040		0.20	0.040	mg/Kg	☼	12/03/20 08:38	12/05/20 17:55	1
Bis(2-chloroethyl)ether	<0.058		0.20	0.058	mg/Kg	☼	12/03/20 08:38	12/05/20 17:55	1
Bis(2-ethylhexyl) phthalate	0.40		0.20	0.071	mg/Kg	☼	12/03/20 08:38	12/05/20 17:55	1
4-Bromophenyl phenyl ether	<0.051		0.20	0.051	mg/Kg	☼	12/03/20 08:38	12/05/20 17:55	1
Butyl benzyl phthalate	<0.074		0.20	0.074	mg/Kg	☼	12/03/20 08:38	12/05/20 17:55	1
Carbazole	<0.097		0.20	0.097	mg/Kg	☼	12/03/20 08:38	12/05/20 17:55	1
4-Chloroaniline	<0.18		0.78	0.18	mg/Kg	☼	12/03/20 08:38	12/05/20 17:55	1
4-Chloro-3-methylphenol	<0.13		0.39	0.13	mg/Kg	☼	12/03/20 08:38	12/05/20 17:55	1
2-Chloronaphthalene	<0.043		0.20	0.043	mg/Kg	☼	12/03/20 08:38	12/05/20 17:55	1
2-Chlorophenol	<0.066		0.20	0.066	mg/Kg	☼	12/03/20 08:38	12/05/20 17:55	1
4-Chlorophenyl phenyl ether	<0.045		0.20	0.045	mg/Kg	☼	12/03/20 08:38	12/05/20 17:55	1
Chrysene	0.074		0.039	0.011	mg/Kg	☼	12/03/20 08:38	12/05/20 17:55	1
Dibenz(a,h)anthracene	0.016	J	0.039	0.0075	mg/Kg	☼	12/03/20 08:38	12/05/20 17:55	1
Dibenzofuran	<0.045		0.20	0.045	mg/Kg	☼	12/03/20 08:38	12/05/20 17:55	1
1,2-Dichlorobenzene	<0.046		0.20	0.046	mg/Kg	☼	12/03/20 08:38	12/05/20 17:55	1
1,3-Dichlorobenzene	<0.044		0.20	0.044	mg/Kg	☼	12/03/20 08:38	12/05/20 17:55	1
1,4-Dichlorobenzene	<0.050		0.20	0.050	mg/Kg	☼	12/03/20 08:38	12/05/20 17:55	1
3,3'-Dichlorobenzidine	<0.054		0.20	0.054	mg/Kg	☼	12/03/20 08:38	12/05/20 17:55	1
2,4-Dichlorophenol	<0.092		0.39	0.092	mg/Kg	☼	12/03/20 08:38	12/05/20 17:55	1
Diethyl phthalate	<0.066		0.20	0.066	mg/Kg	☼	12/03/20 08:38	12/05/20 17:55	1
2,4-Dimethylphenol	<0.15		0.39	0.15	mg/Kg	☼	12/03/20 08:38	12/05/20 17:55	1
Dimethyl phthalate	<0.051		0.20	0.051	mg/Kg	☼	12/03/20 08:38	12/05/20 17:55	1
Di-n-butyl phthalate	<0.059		0.20	0.059	mg/Kg	☼	12/03/20 08:38	12/05/20 17:55	1
4,6-Dinitro-2-methylphenol	<0.31		0.78	0.31	mg/Kg	☼	12/03/20 08:38	12/05/20 17:55	1
2,4-Dinitrophenol	<0.68		0.78	0.68	mg/Kg	☼	12/03/20 08:38	12/05/20 17:55	1
2,4-Dinitrotoluene	<0.062		0.20	0.062	mg/Kg	☼	12/03/20 08:38	12/05/20 17:55	1
2,6-Dinitrotoluene	<0.076		0.20	0.076	mg/Kg	☼	12/03/20 08:38	12/05/20 17:55	1
Di-n-octyl phthalate	0.18	J	0.20	0.063	mg/Kg	☼	12/03/20 08:38	12/05/20 17:55	1
Fluoranthene	0.10		0.039	0.0072	mg/Kg	☼	12/03/20 08:38	12/05/20 17:55	1
Fluorene	0.0058	J	0.039	0.0055	mg/Kg	☼	12/03/20 08:38	12/05/20 17:55	1
Hexachlorobenzene	<0.0090		0.078	0.0090	mg/Kg	☼	12/03/20 08:38	12/05/20 17:55	1
Hexachlorobutadiene	<0.061		0.20	0.061	mg/Kg	☼	12/03/20 08:38	12/05/20 17:55	1
Hexachlorocyclopentadiene	<0.22		0.78	0.22	mg/Kg	☼	12/03/20 08:38	12/05/20 17:55	1
Hexachloroethane	<0.059		0.20	0.059	mg/Kg	☼	12/03/20 08:38	12/05/20 17:55	1
Indeno[1,2,3-cd]pyrene	0.037	J	0.039	0.010	mg/Kg	☼	12/03/20 08:38	12/05/20 17:55	1
Isophorone	<0.044		0.20	0.044	mg/Kg	☼	12/03/20 08:38	12/05/20 17:55	1
2-Methylnaphthalene	0.0075	J	0.078	0.0071	mg/Kg	☼	12/03/20 08:38	12/05/20 17:55	1
2-Methylphenol	<0.062		0.20	0.062	mg/Kg	☼	12/03/20 08:38	12/05/20 17:55	1
3 & 4 Methylphenol	<0.065		0.20	0.065	mg/Kg	☼	12/03/20 08:38	12/05/20 17:55	1
Naphthalene	<0.0060		0.039	0.0060	mg/Kg	☼	12/03/20 08:38	12/05/20 17:55	1
2-Nitroaniline	<0.052		0.20	0.052	mg/Kg	☼	12/03/20 08:38	12/05/20 17:55	1
3-Nitroaniline	<0.12		0.39	0.12	mg/Kg	☼	12/03/20 08:38	12/05/20 17:55	1
4-Nitroaniline	<0.16		0.39	0.16	mg/Kg	☼	12/03/20 08:38	12/05/20 17:55	1
Nitrobenzene	<0.0097		0.039	0.0097	mg/Kg	☼	12/03/20 08:38	12/05/20 17:55	1
2-Nitrophenol	<0.092		0.39	0.092	mg/Kg	☼	12/03/20 08:38	12/05/20 17:55	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Client Sample ID: 3138V-6-B08 (0-1.3)

Lab Sample ID: 500-191785-10

Date Collected: 12/01/20 11:15

Matrix: Solid

Date Received: 12/01/20 17:01

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		0.78	0.37	mg/Kg	☼	12/03/20 08:38	12/05/20 17:55	1
N-Nitrosodi-n-propylamine	<0.047		0.078	0.047	mg/Kg	☼	12/03/20 08:38	12/05/20 17:55	1
N-Nitrosodiphenylamine	<0.046		0.20	0.046	mg/Kg	☼	12/03/20 08:38	12/05/20 17:55	1
2,2'-oxybis[1-chloropropane]	<0.045		0.20	0.045	mg/Kg	☼	12/03/20 08:38	12/05/20 17:55	1
Pentachlorophenol	<0.62		0.78	0.62	mg/Kg	☼	12/03/20 08:38	12/05/20 17:55	1
Phenanthrene	0.11		0.039	0.0054	mg/Kg	☼	12/03/20 08:38	12/05/20 17:55	1
Phenol	<0.086		0.20	0.086	mg/Kg	☼	12/03/20 08:38	12/05/20 17:55	1
Pyrene	0.13		0.039	0.0077	mg/Kg	☼	12/03/20 08:38	12/05/20 17:55	1
1,2,4-Trichlorobenzene	<0.042		0.20	0.042	mg/Kg	☼	12/03/20 08:38	12/05/20 17:55	1
2,4,5-Trichlorophenol	<0.089		0.39	0.089	mg/Kg	☼	12/03/20 08:38	12/05/20 17:55	1
2,4,6-Trichlorophenol	<0.13		0.39	0.13	mg/Kg	☼	12/03/20 08:38	12/05/20 17:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	103		43 - 145				12/03/20 08:38	12/05/20 17:55	1
2-Fluorophenol	111		31 - 166				12/03/20 08:38	12/05/20 17:55	1
Nitrobenzene-d5	89		37 - 147				12/03/20 08:38	12/05/20 17:55	1
Phenol-d5	99		30 - 153				12/03/20 08:38	12/05/20 17:55	1
Terphenyl-d14	114		42 - 157				12/03/20 08:38	12/05/20 17:55	1
2,4,6-Tribromophenol	63		31 - 143				12/03/20 08:38	12/05/20 17:55	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.44	J	1.1	0.21	mg/Kg	☼	12/04/20 17:58	12/07/20 12:12	1
Arsenic	6.8		0.55	0.19	mg/Kg	☼	12/04/20 17:58	12/07/20 12:12	1
Barium	96		0.55	0.062	mg/Kg	☼	12/04/20 17:58	12/07/20 12:12	1
Beryllium	0.65		0.22	0.051	mg/Kg	☼	12/04/20 17:58	12/07/20 12:12	1
Cadmium	0.39		0.11	0.020	mg/Kg	☼	12/04/20 17:58	12/07/20 12:12	1
Chromium	12		0.55	0.27	mg/Kg	☼	12/04/20 17:58	12/07/20 12:12	1
Cobalt	14		0.27	0.072	mg/Kg	☼	12/04/20 17:58	12/07/20 12:12	1
Copper	20		0.55	0.15	mg/Kg	☼	12/04/20 17:58	12/07/20 12:12	1
Iron	23000	B	110	57	mg/Kg	☼	12/04/20 17:58	12/08/20 12:27	10
Lead	51		0.27	0.13	mg/Kg	☼	12/04/20 17:58	12/07/20 12:12	1
Magnesium	41000		55	27	mg/Kg	☼	12/04/20 17:58	12/09/20 11:30	10
Calcium	77000	B	110	19	mg/Kg	☼	12/04/20 17:58	12/08/20 12:27	10
Manganese	1100		0.55	0.079	mg/Kg	☼	12/04/20 17:58	12/07/20 12:12	1
Nickel	27		0.55	0.16	mg/Kg	☼	12/04/20 17:58	12/07/20 12:12	1
Selenium	0.45	J	0.55	0.32	mg/Kg	☼	12/04/20 17:58	12/07/20 12:12	1
Silver	<0.071		0.27	0.071	mg/Kg	☼	12/04/20 17:58	12/07/20 12:12	1
Thallium	<0.27		0.55	0.27	mg/Kg	☼	12/04/20 17:58	12/07/20 12:12	1
Vanadium	21		0.27	0.065	mg/Kg	☼	12/04/20 17:58	12/07/20 12:12	1
Zinc	100		1.1	0.48	mg/Kg	☼	12/04/20 17:58	12/07/20 12:12	1
Potassium	1500		27	9.7	mg/Kg	☼	12/04/20 17:58	12/07/20 12:12	1
Sodium	790	B	55	8.1	mg/Kg	☼	12/04/20 17:58	12/07/20 12:12	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		12/07/20 16:58	12/08/20 17:43	1
Barium	0.38	J	0.50	0.050	mg/L		12/07/20 16:58	12/08/20 17:43	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/07/20 16:58	12/08/20 17:43	1
Cadmium	0.0023	J	0.0050	0.0020	mg/L		12/07/20 16:58	12/08/20 17:43	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Client Sample ID: 3138V-6-B08 (0-1.3)

Lab Sample ID: 500-191785-10

Date Collected: 12/01/20 11:15

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 84.4

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		12/07/20 16:58	12/08/20 17:43	1
Chromium	<0.010		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:43	1
Cobalt	0.016	J	0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:43	1
Copper	<0.010		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:43	1
Iron	<0.20		0.40	0.20	mg/L		12/07/20 16:58	12/08/20 17:43	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/07/20 16:58	12/08/20 17:43	1
Magnesium	110		2.5	0.50	mg/L		12/07/20 16:58	12/08/20 17:43	1
Manganese	7.2		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:43	1
Nickel	0.020	J	0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:43	1
Potassium	3.4		2.5	0.50	mg/L		12/07/20 16:58	12/08/20 17:43	1
Selenium	<0.020		0.050	0.020	mg/L		12/07/20 16:58	12/08/20 17:43	1
Silver	<0.010		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:43	1
Vanadium	<0.010		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:43	1
Zinc	0.077	J	0.50	0.020	mg/L		12/07/20 16:58	12/08/20 17:43	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		12/07/20 17:02	12/10/20 15:00	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		12/07/20 16:58	12/09/20 13:50	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/07/20 16:58	12/09/20 13:50	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		12/08/20 08:15	12/09/20 08:33	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.018	0.0060	mg/Kg	✱	12/07/20 13:35	12/08/20 10:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.12		0.24	0.12	mg/Kg	✱	12/07/20 10:47	12/07/20 16:33	1
pH	8.3		0.2	0.2	SU			12/08/20 14:48	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Client Sample ID: 3138V-6-B09 (0-1.3)

Lab Sample ID: 500-191785-11

Date Collected: 12/01/20 10:55

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 79.7

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	☼	12/01/20 17:52	12/07/20 15:42	1
Benzene	<0.00046		0.0018	0.00046	mg/Kg	☼	12/01/20 17:52	12/07/20 15:42	1
Bromodichloromethane	<0.00037		0.0018	0.00037	mg/Kg	☼	12/01/20 17:52	12/07/20 15:42	1
Bromoform	<0.00052		0.0018	0.00052	mg/Kg	☼	12/01/20 17:52	12/07/20 15:42	1
Bromomethane	<0.0017		0.0045	0.0017	mg/Kg	☼	12/01/20 17:52	12/07/20 15:42	1
2-Butanone (MEK)	<0.0020		0.0045	0.0020	mg/Kg	☼	12/01/20 17:52	12/07/20 15:42	1
Carbon disulfide	<0.00093		0.0045	0.00093	mg/Kg	☼	12/01/20 17:52	12/07/20 15:42	1
Carbon tetrachloride	<0.00052		0.0018	0.00052	mg/Kg	☼	12/01/20 17:52	12/07/20 15:42	1
Chlorobenzene	<0.00066		0.0018	0.00066	mg/Kg	☼	12/01/20 17:52	12/07/20 15:42	1
Chloroethane	<0.0013		0.0045	0.0013	mg/Kg	☼	12/01/20 17:52	12/07/20 15:42	1
Chloroform	<0.00062		0.0018	0.00062	mg/Kg	☼	12/01/20 17:52	12/07/20 15:42	1
Chloromethane	<0.0018		0.0045	0.0018	mg/Kg	☼	12/01/20 17:52	12/07/20 15:42	1
cis-1,2-Dichloroethene	<0.00050		0.0018	0.00050	mg/Kg	☼	12/01/20 17:52	12/07/20 15:42	1
cis-1,3-Dichloropropene	<0.00054		0.0018	0.00054	mg/Kg	☼	12/01/20 17:52	12/07/20 15:42	1
Dibromochloromethane	<0.00059		0.0018	0.00059	mg/Kg	☼	12/01/20 17:52	12/07/20 15:42	1
1,1-Dichloroethane	<0.00061		0.0018	0.00061	mg/Kg	☼	12/01/20 17:52	12/07/20 15:42	1
1,2-Dichloroethane	<0.0014		0.0045	0.0014	mg/Kg	☼	12/01/20 17:52	12/07/20 15:42	1
1,1-Dichloroethene	<0.00062		0.0018	0.00062	mg/Kg	☼	12/01/20 17:52	12/07/20 15:42	1
1,2-Dichloropropene	<0.00046		0.0018	0.00046	mg/Kg	☼	12/01/20 17:52	12/07/20 15:42	1
1,3-Dichloropropene, Total	<0.00063		0.0018	0.00063	mg/Kg	☼	12/01/20 17:52	12/07/20 15:42	1
Ethylbenzene	<0.00086		0.0018	0.00086	mg/Kg	☼	12/01/20 17:52	12/07/20 15:42	1
2-Hexanone	<0.0014		0.0045	0.0014	mg/Kg	☼	12/01/20 17:52	12/07/20 15:42	1
Methylene Chloride	<0.0018		0.0045	0.0018	mg/Kg	☼	12/01/20 17:52	12/07/20 15:42	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0045	0.0013	mg/Kg	☼	12/01/20 17:52	12/07/20 15:42	1
Methyl tert-butyl ether	<0.00053		0.0018	0.00053	mg/Kg	☼	12/01/20 17:52	12/07/20 15:42	1
Styrene	<0.00054		0.0018	0.00054	mg/Kg	☼	12/01/20 17:52	12/07/20 15:42	1
1,1,2,2-Tetrachloroethane	<0.00057		0.0018	0.00057	mg/Kg	☼	12/01/20 17:52	12/07/20 15:42	1
Tetrachloroethene	<0.00061		0.0018	0.00061	mg/Kg	☼	12/01/20 17:52	12/07/20 15:42	1
Toluene	<0.00045		0.0018	0.00045	mg/Kg	☼	12/01/20 17:52	12/07/20 15:42	1
trans-1,2-Dichloroethene	<0.00079		0.0018	0.00079	mg/Kg	☼	12/01/20 17:52	12/07/20 15:42	1
trans-1,3-Dichloropropene	<0.00063		0.0018	0.00063	mg/Kg	☼	12/01/20 17:52	12/07/20 15:42	1
1,1,1-Trichloroethane	<0.00060		0.0018	0.00060	mg/Kg	☼	12/01/20 17:52	12/07/20 15:42	1
1,1,2-Trichloroethane	<0.00077		0.0018	0.00077	mg/Kg	☼	12/01/20 17:52	12/07/20 15:42	1
Trichloroethene	<0.00061		0.0018	0.00061	mg/Kg	☼	12/01/20 17:52	12/07/20 15:42	1
Vinyl acetate	<0.0016		0.0045	0.0016	mg/Kg	☼	12/01/20 17:52	12/07/20 15:42	1
Vinyl chloride	<0.00079		0.0018	0.00079	mg/Kg	☼	12/01/20 17:52	12/07/20 15:42	1
Xylenes, Total	<0.00057		0.0036	0.00057	mg/Kg	☼	12/01/20 17:52	12/07/20 15:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		75 - 131	12/01/20 17:52	12/07/20 15:42	1
Dibromofluoromethane	101		75 - 126	12/01/20 17:52	12/07/20 15:42	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 134	12/01/20 17:52	12/07/20 15:42	1
Toluene-d8 (Surr)	87		75 - 124	12/01/20 17:52	12/07/20 15:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.015	J	0.040	0.0073	mg/Kg	☼	12/03/20 08:38	12/05/20 18:24	1
Acenaphthylene	<0.0054		0.040	0.0054	mg/Kg	☼	12/03/20 08:38	12/05/20 18:24	1
Anthracene	0.032	J	0.040	0.0068	mg/Kg	☼	12/03/20 08:38	12/05/20 18:24	1
Benzo[a]anthracene	0.19		0.040	0.0055	mg/Kg	☼	12/03/20 08:38	12/05/20 18:24	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Client Sample ID: 3138V-6-B09 (0-1.3)

Lab Sample ID: 500-191785-11

Date Collected: 12/01/20 10:55

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 79.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.24		0.040	0.0079	mg/Kg	☼	12/03/20 08:38	12/05/20 18:24	1
Benzo[b]fluoranthene	0.32		0.040	0.0088	mg/Kg	☼	12/03/20 08:38	12/05/20 18:24	1
Benzo[g,h,i]perylene	0.14		0.040	0.013	mg/Kg	☼	12/03/20 08:38	12/05/20 18:24	1
Benzo[k]fluoranthene	0.12		0.040	0.012	mg/Kg	☼	12/03/20 08:38	12/05/20 18:24	1
Bis(2-chloroethoxy)methane	<0.042		0.20	0.042	mg/Kg	☼	12/03/20 08:38	12/05/20 18:24	1
Bis(2-chloroethyl)ether	<0.061		0.20	0.061	mg/Kg	☼	12/03/20 08:38	12/05/20 18:24	1
Bis(2-ethylhexyl) phthalate	<0.074		0.20	0.074	mg/Kg	☼	12/03/20 08:38	12/05/20 18:24	1
4-Bromophenyl phenyl ether	<0.054		0.20	0.054	mg/Kg	☼	12/03/20 08:38	12/05/20 18:24	1
Butyl benzyl phthalate	<0.077		0.20	0.077	mg/Kg	☼	12/03/20 08:38	12/05/20 18:24	1
Carbazole	<0.10		0.20	0.10	mg/Kg	☼	12/03/20 08:38	12/05/20 18:24	1
4-Chloroaniline	<0.19		0.82	0.19	mg/Kg	☼	12/03/20 08:38	12/05/20 18:24	1
4-Chloro-3-methylphenol	<0.14		0.40	0.14	mg/Kg	☼	12/03/20 08:38	12/05/20 18:24	1
2-Chloronaphthalene	<0.045		0.20	0.045	mg/Kg	☼	12/03/20 08:38	12/05/20 18:24	1
2-Chlorophenol	<0.069		0.20	0.069	mg/Kg	☼	12/03/20 08:38	12/05/20 18:24	1
4-Chlorophenyl phenyl ether	<0.047		0.20	0.047	mg/Kg	☼	12/03/20 08:38	12/05/20 18:24	1
Chrysene	0.22		0.040	0.011	mg/Kg	☼	12/03/20 08:38	12/05/20 18:24	1
Dibenz(a,h)anthracene	0.038 J		0.040	0.0079	mg/Kg	☼	12/03/20 08:38	12/05/20 18:24	1
Dibenzofuran	<0.048		0.20	0.048	mg/Kg	☼	12/03/20 08:38	12/05/20 18:24	1
1,2-Dichlorobenzene	<0.049		0.20	0.049	mg/Kg	☼	12/03/20 08:38	12/05/20 18:24	1
1,3-Dichlorobenzene	<0.046		0.20	0.046	mg/Kg	☼	12/03/20 08:38	12/05/20 18:24	1
1,4-Dichlorobenzene	<0.052		0.20	0.052	mg/Kg	☼	12/03/20 08:38	12/05/20 18:24	1
3,3'-Dichlorobenzidine	<0.057		0.20	0.057	mg/Kg	☼	12/03/20 08:38	12/05/20 18:24	1
2,4-Dichlorophenol	<0.097		0.40	0.097	mg/Kg	☼	12/03/20 08:38	12/05/20 18:24	1
Diethyl phthalate	<0.069		0.20	0.069	mg/Kg	☼	12/03/20 08:38	12/05/20 18:24	1
2,4-Dimethylphenol	<0.15		0.40	0.15	mg/Kg	☼	12/03/20 08:38	12/05/20 18:24	1
Dimethyl phthalate	<0.053		0.20	0.053	mg/Kg	☼	12/03/20 08:38	12/05/20 18:24	1
Di-n-butyl phthalate	<0.062		0.20	0.062	mg/Kg	☼	12/03/20 08:38	12/05/20 18:24	1
4,6-Dinitro-2-methylphenol	<0.33		0.82	0.33	mg/Kg	☼	12/03/20 08:38	12/05/20 18:24	1
2,4-Dinitrophenol	<0.72		0.82	0.72	mg/Kg	☼	12/03/20 08:38	12/05/20 18:24	1
2,4-Dinitrotoluene	<0.065		0.20	0.065	mg/Kg	☼	12/03/20 08:38	12/05/20 18:24	1
2,6-Dinitrotoluene	<0.080		0.20	0.080	mg/Kg	☼	12/03/20 08:38	12/05/20 18:24	1
Di-n-octyl phthalate	<0.066		0.20	0.066	mg/Kg	☼	12/03/20 08:38	12/05/20 18:24	1
Fluoranthene	0.34		0.040	0.0075	mg/Kg	☼	12/03/20 08:38	12/05/20 18:24	1
Fluorene	0.0088 J		0.040	0.0057	mg/Kg	☼	12/03/20 08:38	12/05/20 18:24	1
Hexachlorobenzene	<0.0094		0.082	0.0094	mg/Kg	☼	12/03/20 08:38	12/05/20 18:24	1
Hexachlorobutadiene	<0.064		0.20	0.064	mg/Kg	☼	12/03/20 08:38	12/05/20 18:24	1
Hexachlorocyclopentadiene	<0.23		0.82	0.23	mg/Kg	☼	12/03/20 08:38	12/05/20 18:24	1
Hexachloroethane	<0.062		0.20	0.062	mg/Kg	☼	12/03/20 08:38	12/05/20 18:24	1
Indeno[1,2,3-cd]pyrene	0.12		0.040	0.011	mg/Kg	☼	12/03/20 08:38	12/05/20 18:24	1
Isophorone	<0.046		0.20	0.046	mg/Kg	☼	12/03/20 08:38	12/05/20 18:24	1
2-Methylnaphthalene	0.0086 J		0.082	0.0075	mg/Kg	☼	12/03/20 08:38	12/05/20 18:24	1
2-Methylphenol	<0.065		0.20	0.065	mg/Kg	☼	12/03/20 08:38	12/05/20 18:24	1
3 & 4 Methylphenol	<0.068		0.20	0.068	mg/Kg	☼	12/03/20 08:38	12/05/20 18:24	1
Naphthalene	<0.0063		0.040	0.0063	mg/Kg	☼	12/03/20 08:38	12/05/20 18:24	1
2-Nitroaniline	<0.055		0.20	0.055	mg/Kg	☼	12/03/20 08:38	12/05/20 18:24	1
3-Nitroaniline	<0.13		0.40	0.13	mg/Kg	☼	12/03/20 08:38	12/05/20 18:24	1
4-Nitroaniline	<0.17		0.40	0.17	mg/Kg	☼	12/03/20 08:38	12/05/20 18:24	1
Nitrobenzene	<0.010		0.040	0.010	mg/Kg	☼	12/03/20 08:38	12/05/20 18:24	1
2-Nitrophenol	<0.096		0.40	0.096	mg/Kg	☼	12/03/20 08:38	12/05/20 18:24	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Client Sample ID: 3138V-6-B09 (0-1.3)

Lab Sample ID: 500-191785-11

Date Collected: 12/01/20 10:55

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 79.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.39		0.82	0.39	mg/Kg	☼	12/03/20 08:38	12/05/20 18:24	1
N-Nitrosodi-n-propylamine	<0.050		0.082	0.050	mg/Kg	☼	12/03/20 08:38	12/05/20 18:24	1
N-Nitrosodiphenylamine	<0.048		0.20	0.048	mg/Kg	☼	12/03/20 08:38	12/05/20 18:24	1
2,2'-oxybis[1-chloropropane]	<0.047		0.20	0.047	mg/Kg	☼	12/03/20 08:38	12/05/20 18:24	1
Pentachlorophenol	<0.65		0.82	0.65	mg/Kg	☼	12/03/20 08:38	12/05/20 18:24	1
Phenanthrene	0.19		0.040	0.0057	mg/Kg	☼	12/03/20 08:38	12/05/20 18:24	1
Phenol	<0.090		0.20	0.090	mg/Kg	☼	12/03/20 08:38	12/05/20 18:24	1
Pyrene	0.43		0.040	0.0081	mg/Kg	☼	12/03/20 08:38	12/05/20 18:24	1
1,2,4-Trichlorobenzene	<0.044		0.20	0.044	mg/Kg	☼	12/03/20 08:38	12/05/20 18:24	1
2,4,5-Trichlorophenol	<0.093		0.40	0.093	mg/Kg	☼	12/03/20 08:38	12/05/20 18:24	1
2,4,6-Trichlorophenol	<0.14		0.40	0.14	mg/Kg	☼	12/03/20 08:38	12/05/20 18:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	91		43 - 145				12/03/20 08:38	12/05/20 18:24	1
2-Fluorophenol	94		31 - 166				12/03/20 08:38	12/05/20 18:24	1
Nitrobenzene-d5	74		37 - 147				12/03/20 08:38	12/05/20 18:24	1
Phenol-d5	88		30 - 153				12/03/20 08:38	12/05/20 18:24	1
Terphenyl-d14	107		42 - 157				12/03/20 08:38	12/05/20 18:24	1
2,4,6-Tribromophenol	35		31 - 143				12/03/20 08:38	12/05/20 18:24	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.74	J	1.2	0.22	mg/Kg	☼	12/04/20 17:58	12/07/20 12:16	1
Arsenic	7.2		0.58	0.20	mg/Kg	☼	12/04/20 17:58	12/07/20 12:16	1
Barium	90		0.58	0.066	mg/Kg	☼	12/04/20 17:58	12/07/20 12:16	1
Beryllium	1.0		0.23	0.054	mg/Kg	☼	12/04/20 17:58	12/07/20 12:16	1
Cadmium	0.44		0.12	0.021	mg/Kg	☼	12/04/20 17:58	12/07/20 12:16	1
Chromium	23		0.58	0.29	mg/Kg	☼	12/04/20 17:58	12/07/20 12:16	1
Cobalt	15		0.29	0.076	mg/Kg	☼	12/04/20 17:58	12/07/20 12:16	1
Copper	26		0.58	0.16	mg/Kg	☼	12/04/20 17:58	12/07/20 12:16	1
Iron	23000	B	12	6.0	mg/Kg	☼	12/04/20 17:58	12/07/20 12:16	1
Lead	99		0.29	0.13	mg/Kg	☼	12/04/20 17:58	12/07/20 12:16	1
Magnesium	14000		5.8	2.9	mg/Kg	☼	12/04/20 17:58	12/07/20 12:16	1
Calcium	17000	B	12	2.0	mg/Kg	☼	12/04/20 17:58	12/07/20 12:16	1
Manganese	770		0.58	0.084	mg/Kg	☼	12/04/20 17:58	12/07/20 12:16	1
Nickel	32		0.58	0.17	mg/Kg	☼	12/04/20 17:58	12/07/20 12:16	1
Selenium	0.49	J	0.58	0.34	mg/Kg	☼	12/04/20 17:58	12/07/20 12:16	1
Silver	<0.075		0.29	0.075	mg/Kg	☼	12/04/20 17:58	12/07/20 12:16	1
Thallium	0.55	J	0.58	0.29	mg/Kg	☼	12/04/20 17:58	12/07/20 12:16	1
Vanadium	32		0.29	0.068	mg/Kg	☼	12/04/20 17:58	12/07/20 12:16	1
Zinc	110		1.2	0.51	mg/Kg	☼	12/04/20 17:58	12/07/20 12:16	1
Potassium	2700		29	10	mg/Kg	☼	12/04/20 17:58	12/07/20 12:16	1
Sodium	1500	B	58	8.6	mg/Kg	☼	12/04/20 17:58	12/07/20 12:16	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		12/07/20 16:58	12/08/20 20:53	1
Barium	0.34	J	0.50	0.050	mg/L		12/07/20 16:58	12/08/20 20:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/07/20 16:58	12/08/20 20:53	1
Cadmium	0.0040	J	0.0050	0.0020	mg/L		12/07/20 16:58	12/08/20 20:53	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Client Sample ID: 3138V-6-B09 (0-1.3)

Lab Sample ID: 500-191785-11

Date Collected: 12/01/20 10:55

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 79.7

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		12/07/20 16:58	12/08/20 20:53	1
Chromium	<0.010		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 20:53	1
Cobalt	<0.010		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 20:53	1
Copper	<0.010		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 20:53	1
Iron	<0.20		0.40	0.20	mg/L		12/07/20 16:58	12/08/20 20:53	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/07/20 16:58	12/08/20 20:53	1
Magnesium	140		2.5	0.50	mg/L		12/07/20 16:58	12/08/20 20:53	1
Manganese	0.27		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 20:53	1
Nickel	0.011	J	0.025	0.010	mg/L		12/07/20 16:58	12/08/20 20:53	1
Potassium	1.0	J	2.5	0.50	mg/L		12/07/20 16:58	12/08/20 20:53	1
Selenium	<0.020		0.050	0.020	mg/L		12/07/20 16:58	12/08/20 20:53	1
Silver	<0.010		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 20:53	1
Vanadium	<0.010		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 20:53	1
Zinc	0.070	J ^	0.50	0.020	mg/L		12/07/20 16:58	12/08/20 20:53	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		12/07/20 17:02	12/10/20 15:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/07/20 16:58	12/09/20 13:52	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/07/20 16:58	12/09/20 13:52	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/08/20 08:15	12/09/20 08:35	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034		0.020	0.0066	mg/Kg	☼	12/07/20 13:35	12/08/20 10:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.14		0.27	0.14	mg/Kg	☼	12/07/20 10:47	12/07/20 16:35	1
pH	8.7		0.2	0.2	SU			12/08/20 14:50	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Client Sample ID: 3138V-6-B10 (0-1.3)

Lab Sample ID: 500-191785-12

Date Collected: 12/01/20 10:30

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 78.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.011	J	0.018	0.0078	mg/Kg	☼	12/01/20 17:52	12/07/20 16:08	1
Benzene	<0.00046		0.0018	0.00046	mg/Kg	☼	12/01/20 17:52	12/07/20 16:08	1
Bromodichloromethane	<0.00037		0.0018	0.00037	mg/Kg	☼	12/01/20 17:52	12/07/20 16:08	1
Bromoform	<0.00052		0.0018	0.00052	mg/Kg	☼	12/01/20 17:52	12/07/20 16:08	1
Bromomethane	<0.0017		0.0045	0.0017	mg/Kg	☼	12/01/20 17:52	12/07/20 16:08	1
2-Butanone (MEK)	0.0028	J	0.0045	0.0020	mg/Kg	☼	12/01/20 17:52	12/07/20 16:08	1
Carbon disulfide	<0.00093		0.0045	0.00093	mg/Kg	☼	12/01/20 17:52	12/07/20 16:08	1
Carbon tetrachloride	<0.00052		0.0018	0.00052	mg/Kg	☼	12/01/20 17:52	12/07/20 16:08	1
Chlorobenzene	<0.00066		0.0018	0.00066	mg/Kg	☼	12/01/20 17:52	12/07/20 16:08	1
Chloroethane	<0.0013		0.0045	0.0013	mg/Kg	☼	12/01/20 17:52	12/07/20 16:08	1
Chloroform	<0.00062		0.0018	0.00062	mg/Kg	☼	12/01/20 17:52	12/07/20 16:08	1
Chloromethane	<0.0018		0.0045	0.0018	mg/Kg	☼	12/01/20 17:52	12/07/20 16:08	1
cis-1,2-Dichloroethene	<0.00050		0.0018	0.00050	mg/Kg	☼	12/01/20 17:52	12/07/20 16:08	1
cis-1,3-Dichloropropene	<0.00054		0.0018	0.00054	mg/Kg	☼	12/01/20 17:52	12/07/20 16:08	1
Dibromochloromethane	<0.00059		0.0018	0.00059	mg/Kg	☼	12/01/20 17:52	12/07/20 16:08	1
1,1-Dichloroethane	<0.00061		0.0018	0.00061	mg/Kg	☼	12/01/20 17:52	12/07/20 16:08	1
1,2-Dichloroethane	<0.0014		0.0045	0.0014	mg/Kg	☼	12/01/20 17:52	12/07/20 16:08	1
1,1-Dichloroethene	<0.00062		0.0018	0.00062	mg/Kg	☼	12/01/20 17:52	12/07/20 16:08	1
1,2-Dichloropropene	<0.00046		0.0018	0.00046	mg/Kg	☼	12/01/20 17:52	12/07/20 16:08	1
1,3-Dichloropropene, Total	<0.00063		0.0018	0.00063	mg/Kg	☼	12/01/20 17:52	12/07/20 16:08	1
Ethylbenzene	<0.00086		0.0018	0.00086	mg/Kg	☼	12/01/20 17:52	12/07/20 16:08	1
2-Hexanone	<0.0014		0.0045	0.0014	mg/Kg	☼	12/01/20 17:52	12/07/20 16:08	1
Methylene Chloride	<0.0018		0.0045	0.0018	mg/Kg	☼	12/01/20 17:52	12/07/20 16:08	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0045	0.0013	mg/Kg	☼	12/01/20 17:52	12/07/20 16:08	1
Methyl tert-butyl ether	<0.00053		0.0018	0.00053	mg/Kg	☼	12/01/20 17:52	12/07/20 16:08	1
Styrene	<0.00054		0.0018	0.00054	mg/Kg	☼	12/01/20 17:52	12/07/20 16:08	1
1,1,2,2-Tetrachloroethane	<0.00057		0.0018	0.00057	mg/Kg	☼	12/01/20 17:52	12/07/20 16:08	1
Tetrachloroethene	<0.00061		0.0018	0.00061	mg/Kg	☼	12/01/20 17:52	12/07/20 16:08	1
Toluene	<0.00045		0.0018	0.00045	mg/Kg	☼	12/01/20 17:52	12/07/20 16:08	1
trans-1,2-Dichloroethene	<0.00080		0.0018	0.00080	mg/Kg	☼	12/01/20 17:52	12/07/20 16:08	1
trans-1,3-Dichloropropene	<0.00063		0.0018	0.00063	mg/Kg	☼	12/01/20 17:52	12/07/20 16:08	1
1,1,1-Trichloroethane	<0.00060		0.0018	0.00060	mg/Kg	☼	12/01/20 17:52	12/07/20 16:08	1
1,1,2-Trichloroethane	<0.00077		0.0018	0.00077	mg/Kg	☼	12/01/20 17:52	12/07/20 16:08	1
Trichloroethene	<0.00061		0.0018	0.00061	mg/Kg	☼	12/01/20 17:52	12/07/20 16:08	1
Vinyl acetate	<0.0016		0.0045	0.0016	mg/Kg	☼	12/01/20 17:52	12/07/20 16:08	1
Vinyl chloride	<0.00079		0.0018	0.00079	mg/Kg	☼	12/01/20 17:52	12/07/20 16:08	1
Xylenes, Total	<0.00057		0.0036	0.00057	mg/Kg	☼	12/01/20 17:52	12/07/20 16:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		75 - 131	12/01/20 17:52	12/07/20 16:08	1
Dibromofluoromethane	101		75 - 126	12/01/20 17:52	12/07/20 16:08	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 134	12/01/20 17:52	12/07/20 16:08	1
Toluene-d8 (Surr)	86		75 - 124	12/01/20 17:52	12/07/20 16:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0075		0.041	0.0075	mg/Kg	☼	12/03/20 08:38	12/05/20 18:52	1
Acenaphthylene	<0.0055		0.041	0.0055	mg/Kg	☼	12/03/20 08:38	12/05/20 18:52	1
Anthracene	0.010	J	0.041	0.0070	mg/Kg	☼	12/03/20 08:38	12/05/20 18:52	1
Benzo[a]anthracene	0.052		0.041	0.0056	mg/Kg	☼	12/03/20 08:38	12/05/20 18:52	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Client Sample ID: 3138V-6-B10 (0-1.3)

Lab Sample ID: 500-191785-12

Date Collected: 12/01/20 10:30

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 78.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.064		0.041	0.0081	mg/Kg	☼	12/03/20 08:38	12/05/20 18:52	1
Benzo[b]fluoranthene	0.091		0.041	0.0090	mg/Kg	☼	12/03/20 08:38	12/05/20 18:52	1
Benzo[g,h,i]perylene	0.042		0.041	0.013	mg/Kg	☼	12/03/20 08:38	12/05/20 18:52	1
Benzo[k]fluoranthene	0.030	J	0.041	0.012	mg/Kg	☼	12/03/20 08:38	12/05/20 18:52	1
Bis(2-chloroethoxy)methane	<0.042		0.21	0.042	mg/Kg	☼	12/03/20 08:38	12/05/20 18:52	1
Bis(2-chloroethyl)ether	<0.062		0.21	0.062	mg/Kg	☼	12/03/20 08:38	12/05/20 18:52	1
Bis(2-ethylhexyl) phthalate	<0.076		0.21	0.076	mg/Kg	☼	12/03/20 08:38	12/05/20 18:52	1
4-Bromophenyl phenyl ether	<0.055		0.21	0.055	mg/Kg	☼	12/03/20 08:38	12/05/20 18:52	1
Butyl benzyl phthalate	<0.079		0.21	0.079	mg/Kg	☼	12/03/20 08:38	12/05/20 18:52	1
Carbazole	<0.10		0.21	0.10	mg/Kg	☼	12/03/20 08:38	12/05/20 18:52	1
4-Chloroaniline	<0.20		0.84	0.20	mg/Kg	☼	12/03/20 08:38	12/05/20 18:52	1
4-Chloro-3-methylphenol	<0.14		0.41	0.14	mg/Kg	☼	12/03/20 08:38	12/05/20 18:52	1
2-Chloronaphthalene	<0.046		0.21	0.046	mg/Kg	☼	12/03/20 08:38	12/05/20 18:52	1
2-Chlorophenol	<0.071		0.21	0.071	mg/Kg	☼	12/03/20 08:38	12/05/20 18:52	1
4-Chlorophenyl phenyl ether	<0.049		0.21	0.049	mg/Kg	☼	12/03/20 08:38	12/05/20 18:52	1
Chrysene	0.062		0.041	0.011	mg/Kg	☼	12/03/20 08:38	12/05/20 18:52	1
Dibenz(a,h)anthracene	<0.0080		0.041	0.0080	mg/Kg	☼	12/03/20 08:38	12/05/20 18:52	1
Dibenzofuran	<0.049		0.21	0.049	mg/Kg	☼	12/03/20 08:38	12/05/20 18:52	1
1,2-Dichlorobenzene	<0.050		0.21	0.050	mg/Kg	☼	12/03/20 08:38	12/05/20 18:52	1
1,3-Dichlorobenzene	<0.047		0.21	0.047	mg/Kg	☼	12/03/20 08:38	12/05/20 18:52	1
1,4-Dichlorobenzene	<0.053		0.21	0.053	mg/Kg	☼	12/03/20 08:38	12/05/20 18:52	1
3,3'-Dichlorobenzidine	<0.058		0.21	0.058	mg/Kg	☼	12/03/20 08:38	12/05/20 18:52	1
2,4-Dichlorophenol	<0.099		0.41	0.099	mg/Kg	☼	12/03/20 08:38	12/05/20 18:52	1
Diethyl phthalate	<0.071		0.21	0.071	mg/Kg	☼	12/03/20 08:38	12/05/20 18:52	1
2,4-Dimethylphenol	<0.16		0.41	0.16	mg/Kg	☼	12/03/20 08:38	12/05/20 18:52	1
Dimethyl phthalate	<0.054		0.21	0.054	mg/Kg	☼	12/03/20 08:38	12/05/20 18:52	1
Di-n-butyl phthalate	<0.063		0.21	0.063	mg/Kg	☼	12/03/20 08:38	12/05/20 18:52	1
4,6-Dinitro-2-methylphenol	<0.33		0.84	0.33	mg/Kg	☼	12/03/20 08:38	12/05/20 18:52	1
2,4-Dinitrophenol	<0.73		0.84	0.73	mg/Kg	☼	12/03/20 08:38	12/05/20 18:52	1
2,4-Dinitrotoluene	<0.066		0.21	0.066	mg/Kg	☼	12/03/20 08:38	12/05/20 18:52	1
2,6-Dinitrotoluene	<0.082		0.21	0.082	mg/Kg	☼	12/03/20 08:38	12/05/20 18:52	1
Di-n-octyl phthalate	<0.068		0.21	0.068	mg/Kg	☼	12/03/20 08:38	12/05/20 18:52	1
Fluoranthene	0.083		0.041	0.0077	mg/Kg	☼	12/03/20 08:38	12/05/20 18:52	1
Fluorene	<0.0058		0.041	0.0058	mg/Kg	☼	12/03/20 08:38	12/05/20 18:52	1
Hexachlorobenzene	<0.0096		0.084	0.0096	mg/Kg	☼	12/03/20 08:38	12/05/20 18:52	1
Hexachlorobutadiene	<0.065		0.21	0.065	mg/Kg	☼	12/03/20 08:38	12/05/20 18:52	1
Hexachlorocyclopentadiene	<0.24		0.84	0.24	mg/Kg	☼	12/03/20 08:38	12/05/20 18:52	1
Hexachloroethane	<0.063		0.21	0.063	mg/Kg	☼	12/03/20 08:38	12/05/20 18:52	1
Indeno[1,2,3-cd]pyrene	0.036	J	0.041	0.011	mg/Kg	☼	12/03/20 08:38	12/05/20 18:52	1
Isophorone	<0.047		0.21	0.047	mg/Kg	☼	12/03/20 08:38	12/05/20 18:52	1
2-Methylnaphthalene	<0.0077		0.084	0.0077	mg/Kg	☼	12/03/20 08:38	12/05/20 18:52	1
2-Methylphenol	<0.067		0.21	0.067	mg/Kg	☼	12/03/20 08:38	12/05/20 18:52	1
3 & 4 Methylphenol	<0.069		0.21	0.069	mg/Kg	☼	12/03/20 08:38	12/05/20 18:52	1
Naphthalene	<0.0064		0.041	0.0064	mg/Kg	☼	12/03/20 08:38	12/05/20 18:52	1
2-Nitroaniline	<0.056		0.21	0.056	mg/Kg	☼	12/03/20 08:38	12/05/20 18:52	1
3-Nitroaniline	<0.13		0.41	0.13	mg/Kg	☼	12/03/20 08:38	12/05/20 18:52	1
4-Nitroaniline	<0.17		0.41	0.17	mg/Kg	☼	12/03/20 08:38	12/05/20 18:52	1
Nitrobenzene	<0.010		0.041	0.010	mg/Kg	☼	12/03/20 08:38	12/05/20 18:52	1
2-Nitrophenol	<0.098		0.41	0.098	mg/Kg	☼	12/03/20 08:38	12/05/20 18:52	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Client Sample ID: 3138V-6-B10 (0-1.3)

Lab Sample ID: 500-191785-12

Date Collected: 12/01/20 10:30

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 78.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.40		0.84	0.40	mg/Kg	☼	12/03/20 08:38	12/05/20 18:52	1
N-Nitrosodi-n-propylamine	<0.051		0.084	0.051	mg/Kg	☼	12/03/20 08:38	12/05/20 18:52	1
N-Nitrosodiphenylamine	<0.049		0.21	0.049	mg/Kg	☼	12/03/20 08:38	12/05/20 18:52	1
2,2'-oxybis[1-chloropropane]	<0.048		0.21	0.048	mg/Kg	☼	12/03/20 08:38	12/05/20 18:52	1
Pentachlorophenol	<0.67		0.84	0.67	mg/Kg	☼	12/03/20 08:38	12/05/20 18:52	1
Phenanthrene	0.049		0.041	0.0058	mg/Kg	☼	12/03/20 08:38	12/05/20 18:52	1
Phenol	<0.092		0.21	0.092	mg/Kg	☼	12/03/20 08:38	12/05/20 18:52	1
Pyrene	0.10		0.041	0.0083	mg/Kg	☼	12/03/20 08:38	12/05/20 18:52	1
1,2,4-Trichlorobenzene	<0.045		0.21	0.045	mg/Kg	☼	12/03/20 08:38	12/05/20 18:52	1
2,4,5-Trichlorophenol	<0.095		0.41	0.095	mg/Kg	☼	12/03/20 08:38	12/05/20 18:52	1
2,4,6-Trichlorophenol	<0.14		0.41	0.14	mg/Kg	☼	12/03/20 08:38	12/05/20 18:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	98		43 - 145				12/03/20 08:38	12/05/20 18:52	1
2-Fluorophenol	104		31 - 166				12/03/20 08:38	12/05/20 18:52	1
Nitrobenzene-d5	83		37 - 147				12/03/20 08:38	12/05/20 18:52	1
Phenol-d5	89		30 - 153				12/03/20 08:38	12/05/20 18:52	1
Terphenyl-d14	109		42 - 157				12/03/20 08:38	12/05/20 18:52	1
2,4,6-Tribromophenol	46		31 - 143				12/03/20 08:38	12/05/20 18:52	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.59	J	1.2	0.24	mg/Kg	☼	12/04/20 17:58	12/07/20 12:19	1
Arsenic	6.6		0.62	0.21	mg/Kg	☼	12/04/20 17:58	12/07/20 12:19	1
Barium	79		0.62	0.071	mg/Kg	☼	12/04/20 17:58	12/07/20 12:19	1
Beryllium	0.88		0.25	0.058	mg/Kg	☼	12/04/20 17:58	12/07/20 12:19	1
Cadmium	0.75		0.12	0.022	mg/Kg	☼	12/04/20 17:58	12/07/20 12:19	1
Chromium	20		0.62	0.31	mg/Kg	☼	12/04/20 17:58	12/07/20 12:19	1
Cobalt	12		0.31	0.081	mg/Kg	☼	12/04/20 17:58	12/07/20 12:19	1
Copper	28		0.62	0.17	mg/Kg	☼	12/04/20 17:58	12/07/20 12:19	1
Iron	21000	B	12	6.4	mg/Kg	☼	12/04/20 17:58	12/07/20 12:19	1
Lead	130		0.31	0.14	mg/Kg	☼	12/04/20 17:58	12/07/20 12:19	1
Magnesium	16000		6.2	3.1	mg/Kg	☼	12/04/20 17:58	12/07/20 12:19	1
Calcium	24000	B	12	2.1	mg/Kg	☼	12/04/20 17:58	12/07/20 12:19	1
Manganese	500		0.62	0.090	mg/Kg	☼	12/04/20 17:58	12/07/20 12:19	1
Nickel	27		0.62	0.18	mg/Kg	☼	12/04/20 17:58	12/07/20 12:19	1
Selenium	0.44	J	0.62	0.36	mg/Kg	☼	12/04/20 17:58	12/07/20 12:19	1
Silver	<0.080		0.31	0.080	mg/Kg	☼	12/04/20 17:58	12/07/20 12:19	1
Thallium	<0.31		0.62	0.31	mg/Kg	☼	12/04/20 17:58	12/07/20 12:19	1
Vanadium	29		0.31	0.073	mg/Kg	☼	12/04/20 17:58	12/07/20 12:19	1
Zinc	110		1.2	0.54	mg/Kg	☼	12/04/20 17:58	12/07/20 12:19	1
Potassium	2400		31	11	mg/Kg	☼	12/04/20 17:58	12/07/20 12:19	1
Sodium	2200	B	62	9.2	mg/Kg	☼	12/04/20 17:58	12/07/20 12:19	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		12/07/20 16:58	12/08/20 17:53	1
Barium	0.39	J	0.50	0.050	mg/L		12/07/20 16:58	12/08/20 17:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/07/20 16:58	12/08/20 17:53	1
Cadmium	0.0038	J	0.0050	0.0020	mg/L		12/07/20 16:58	12/08/20 17:53	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Client Sample ID: 3138V-6-B10 (0-1.3)

Lab Sample ID: 500-191785-12

Date Collected: 12/01/20 10:30

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 78.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	210		5.0	0.50	mg/L		12/07/20 16:58	12/08/20 17:53	1
Chromium	<0.010		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:53	1
Cobalt	0.029		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:53	1
Copper	<0.010		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:53	1
Iron	<0.20		0.40	0.20	mg/L		12/07/20 16:58	12/08/20 17:53	1
Lead	0.022		0.0075	0.0075	mg/L		12/07/20 16:58	12/08/20 17:53	1
Magnesium	90		2.5	0.50	mg/L		12/07/20 16:58	12/08/20 17:53	1
Manganese	7.7		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:53	1
Nickel	0.020	J	0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:53	1
Potassium	1.5	J	2.5	0.50	mg/L		12/07/20 16:58	12/08/20 17:53	1
Selenium	<0.020		0.050	0.020	mg/L		12/07/20 16:58	12/08/20 17:53	1
Silver	<0.010		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:53	1
Vanadium	<0.010		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 17:53	1
Zinc	0.079	J	0.50	0.020	mg/L		12/07/20 16:58	12/08/20 17:53	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.31		0.0075	0.0075	mg/L		12/07/20 17:02	12/08/20 14:23	1
Manganese	0.98		0.025	0.010	mg/L		12/07/20 17:02	12/10/20 15:16	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		12/07/20 16:58	12/09/20 13:54	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/07/20 16:58	12/09/20 13:54	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/08/20 08:15	12/09/20 08:41	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.044		0.021	0.0070	mg/Kg	✱	12/07/20 13:35	12/08/20 11:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.22	J	0.26	0.13	mg/Kg	✱	12/07/20 10:47	12/07/20 16:36	1
pH	7.6		0.2	0.2	SU			12/08/20 14:53	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

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.
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 - Lake County - WO 073

Job ID: 500-191785-1

GC/MS VOA

Prep Batch: 574852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191785-1	3138V-6-B01 (0-1.3)	Total/NA	Solid	5035	
500-191785-2	3138V-6-B02 (0-1.3)	Total/NA	Solid	5035	
500-191785-3	3138V-6-B03 (0-1.3)	Total/NA	Solid	5035	
500-191785-4	3138V-6-B04 (0-6)	Total/NA	Solid	5035	
500-191785-5	3138V-6-B04 (6-11.3)	Total/NA	Solid	5035	
500-191785-6	3138V-6-B05 (0-1.3)	Total/NA	Solid	5035	
500-191785-7	3138V-6-B05 (0-1.3) Dup	Total/NA	Solid	5035	
500-191785-8	3138V-6-B06 (0-1.3)	Total/NA	Solid	5035	
500-191785-9	3138V-6-B07 (0-1.3)	Total/NA	Solid	5035	
500-191785-10	3138V-6-B08 (0-1.3)	Total/NA	Solid	5035	
500-191785-11	3138V-6-B09 (0-1.3)	Total/NA	Solid	5035	
500-191785-12	3138V-6-B10 (0-1.3)	Total/NA	Solid	5035	

Analysis Batch: 575521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191785-1	3138V-6-B01 (0-1.3)	Total/NA	Solid	8260B	574852
500-191785-2	3138V-6-B02 (0-1.3)	Total/NA	Solid	8260B	574852
500-191785-3	3138V-6-B03 (0-1.3)	Total/NA	Solid	8260B	574852
MB 500-575521/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-575521/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-575521/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 575544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191785-4	3138V-6-B04 (0-6)	Total/NA	Solid	8260B	574852
500-191785-5	3138V-6-B04 (6-11.3)	Total/NA	Solid	8260B	574852
500-191785-7	3138V-6-B05 (0-1.3) Dup	Total/NA	Solid	8260B	574852
500-191785-8	3138V-6-B06 (0-1.3)	Total/NA	Solid	8260B	574852
500-191785-9	3138V-6-B07 (0-1.3)	Total/NA	Solid	8260B	574852
500-191785-10	3138V-6-B08 (0-1.3)	Total/NA	Solid	8260B	574852
500-191785-11	3138V-6-B09 (0-1.3)	Total/NA	Solid	8260B	574852
500-191785-12	3138V-6-B10 (0-1.3)	Total/NA	Solid	8260B	574852
MB 500-575544/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-575544/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-575544/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 575756

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191785-6	3138V-6-B05 (0-1.3)	Total/NA	Solid	8260B	574852

GC/MS Semi VOA

Prep Batch: 575123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191785-1	3138V-6-B01 (0-1.3)	Total/NA	Solid	3541	
500-191785-2	3138V-6-B02 (0-1.3)	Total/NA	Solid	3541	
500-191785-3	3138V-6-B03 (0-1.3)	Total/NA	Solid	3541	
500-191785-4	3138V-6-B04 (0-6)	Total/NA	Solid	3541	
500-191785-5	3138V-6-B04 (6-11.3)	Total/NA	Solid	3541	
500-191785-6	3138V-6-B05 (0-1.3)	Total/NA	Solid	3541	
500-191785-7	3138V-6-B05 (0-1.3) Dup	Total/NA	Solid	3541	

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

GC/MS Semi VOA (Continued)

Prep Batch: 575123 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191785-8	3138V-6-B06 (0-1.3)	Total/NA	Solid	3541	
500-191785-9	3138V-6-B07 (0-1.3)	Total/NA	Solid	3541	
500-191785-10	3138V-6-B08 (0-1.3)	Total/NA	Solid	3541	
500-191785-11	3138V-6-B09 (0-1.3)	Total/NA	Solid	3541	
500-191785-12	3138V-6-B10 (0-1.3)	Total/NA	Solid	3541	
MB 500-575123/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-575123/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 575249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191785-3	3138V-6-B03 (0-1.3)	Total/NA	Solid	8270D	575123
500-191785-4	3138V-6-B04 (0-6)	Total/NA	Solid	8270D	575123
500-191785-5	3138V-6-B04 (6-11.3)	Total/NA	Solid	8270D	575123
500-191785-7	3138V-6-B05 (0-1.3) Dup	Total/NA	Solid	8270D	575123
500-191785-8	3138V-6-B06 (0-1.3)	Total/NA	Solid	8270D	575123
500-191785-9	3138V-6-B07 (0-1.3)	Total/NA	Solid	8270D	575123

Analysis Batch: 575255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-575123/1-A	Method Blank	Total/NA	Solid	8270D	575123
LCS 500-575123/2-A	Lab Control Sample	Total/NA	Solid	8270D	575123

Analysis Batch: 575504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191785-1	3138V-6-B01 (0-1.3)	Total/NA	Solid	8270D	575123
500-191785-2	3138V-6-B02 (0-1.3)	Total/NA	Solid	8270D	575123
500-191785-6	3138V-6-B05 (0-1.3)	Total/NA	Solid	8270D	575123
500-191785-10	3138V-6-B08 (0-1.3)	Total/NA	Solid	8270D	575123
500-191785-11	3138V-6-B09 (0-1.3)	Total/NA	Solid	8270D	575123
500-191785-12	3138V-6-B10 (0-1.3)	Total/NA	Solid	8270D	575123

Metals

Leach Batch: 575406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191785-1	3138V-6-B01 (0-1.3)	TCLP	Solid	1311	
500-191785-2	3138V-6-B02 (0-1.3)	TCLP	Solid	1311	
500-191785-3	3138V-6-B03 (0-1.3)	TCLP	Solid	1311	
500-191785-4	3138V-6-B04 (0-6)	TCLP	Solid	1311	
500-191785-5	3138V-6-B04 (6-11.3)	TCLP	Solid	1311	
500-191785-6	3138V-6-B05 (0-1.3)	TCLP	Solid	1311	
500-191785-7	3138V-6-B05 (0-1.3) Dup	TCLP	Solid	1311	
500-191785-8	3138V-6-B06 (0-1.3)	TCLP	Solid	1311	
500-191785-9	3138V-6-B07 (0-1.3)	TCLP	Solid	1311	
500-191785-10	3138V-6-B08 (0-1.3)	TCLP	Solid	1311	
500-191785-11	3138V-6-B09 (0-1.3)	TCLP	Solid	1311	
500-191785-12	3138V-6-B10 (0-1.3)	TCLP	Solid	1311	
LB 500-575406/1-B	Method Blank	TCLP	Solid	1311	
LB 500-575406/1-C	Method Blank	TCLP	Solid	1311	
500-191785-6 MS	3138V-6-B05 (0-1.3)	TCLP	Solid	1311	
500-191785-12 MS	3138V-6-B10 (0-1.3)	TCLP	Solid	1311	

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Metals (Continued)

Leach Batch: 575406 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191785-6 DU	3138V-6-B05 (0-1.3)	TCLP	Solid	1311	
500-191785-12 DU	3138V-6-B10 (0-1.3)	TCLP	Solid	1311	

Leach Batch: 575408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191785-1	3138V-6-B01 (0-1.3)	SPLP East	Solid	1312	
500-191785-2	3138V-6-B02 (0-1.3)	SPLP East	Solid	1312	
500-191785-3	3138V-6-B03 (0-1.3)	SPLP East	Solid	1312	
500-191785-4	3138V-6-B04 (0-6)	SPLP East	Solid	1312	
500-191785-5	3138V-6-B04 (6-11.3)	SPLP East	Solid	1312	
500-191785-6	3138V-6-B05 (0-1.3)	SPLP East	Solid	1312	
500-191785-7	3138V-6-B05 (0-1.3) Dup	SPLP East	Solid	1312	
500-191785-8	3138V-6-B06 (0-1.3)	SPLP East	Solid	1312	
500-191785-9	3138V-6-B07 (0-1.3)	SPLP East	Solid	1312	
500-191785-10	3138V-6-B08 (0-1.3)	SPLP East	Solid	1312	
500-191785-11	3138V-6-B09 (0-1.3)	SPLP East	Solid	1312	
500-191785-12	3138V-6-B10 (0-1.3)	SPLP East	Solid	1312	
LB 500-575408/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 575443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191785-1	3138V-6-B01 (0-1.3)	Total/NA	Solid	3050B	
500-191785-2	3138V-6-B02 (0-1.3)	Total/NA	Solid	3050B	
500-191785-3	3138V-6-B03 (0-1.3)	Total/NA	Solid	3050B	
500-191785-4	3138V-6-B04 (0-6)	Total/NA	Solid	3050B	
500-191785-5	3138V-6-B04 (6-11.3)	Total/NA	Solid	3050B	
500-191785-6	3138V-6-B05 (0-1.3)	Total/NA	Solid	3050B	
500-191785-7	3138V-6-B05 (0-1.3) Dup	Total/NA	Solid	3050B	
500-191785-8	3138V-6-B06 (0-1.3)	Total/NA	Solid	3050B	
500-191785-9	3138V-6-B07 (0-1.3)	Total/NA	Solid	3050B	
500-191785-10	3138V-6-B08 (0-1.3)	Total/NA	Solid	3050B	
500-191785-11	3138V-6-B09 (0-1.3)	Total/NA	Solid	3050B	
500-191785-12	3138V-6-B10 (0-1.3)	Total/NA	Solid	3050B	
MB 500-575443/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-575443/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 575625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191785-1	3138V-6-B01 (0-1.3)	Total/NA	Solid	7471B	
500-191785-2	3138V-6-B02 (0-1.3)	Total/NA	Solid	7471B	
500-191785-3	3138V-6-B03 (0-1.3)	Total/NA	Solid	7471B	
500-191785-4	3138V-6-B04 (0-6)	Total/NA	Solid	7471B	
500-191785-5	3138V-6-B04 (6-11.3)	Total/NA	Solid	7471B	
500-191785-6	3138V-6-B05 (0-1.3)	Total/NA	Solid	7471B	
500-191785-7	3138V-6-B05 (0-1.3) Dup	Total/NA	Solid	7471B	
500-191785-8	3138V-6-B06 (0-1.3)	Total/NA	Solid	7471B	
500-191785-9	3138V-6-B07 (0-1.3)	Total/NA	Solid	7471B	
500-191785-10	3138V-6-B08 (0-1.3)	Total/NA	Solid	7471B	
500-191785-11	3138V-6-B09 (0-1.3)	Total/NA	Solid	7471B	
500-191785-12	3138V-6-B10 (0-1.3)	Total/NA	Solid	7471B	
MB 500-575625/12-A	Method Blank	Total/NA	Solid	7471B	

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Metals (Continued)

Prep Batch: 575625 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-575625/13-A	Lab Control Sample	Total/NA	Solid	7471B	
500-191785-8 MS	3138V-6-B06 (0-1.3)	Total/NA	Solid	7471B	
500-191785-8 MSD	3138V-6-B06 (0-1.3)	Total/NA	Solid	7471B	
500-191785-8 DU	3138V-6-B06 (0-1.3)	Total/NA	Solid	7471B	

Prep Batch: 575694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191785-1	3138V-6-B01 (0-1.3)	TCLP	Solid	3010A	575406
500-191785-2	3138V-6-B02 (0-1.3)	TCLP	Solid	3010A	575406
500-191785-3	3138V-6-B03 (0-1.3)	TCLP	Solid	3010A	575406
500-191785-4	3138V-6-B04 (0-6)	TCLP	Solid	3010A	575406
500-191785-5	3138V-6-B04 (6-11.3)	TCLP	Solid	3010A	575406
500-191785-6	3138V-6-B05 (0-1.3)	TCLP	Solid	3010A	575406
500-191785-7	3138V-6-B05 (0-1.3) Dup	TCLP	Solid	3010A	575406
500-191785-8	3138V-6-B06 (0-1.3)	TCLP	Solid	3010A	575406
500-191785-9	3138V-6-B07 (0-1.3)	TCLP	Solid	3010A	575406
500-191785-10	3138V-6-B08 (0-1.3)	TCLP	Solid	3010A	575406
500-191785-11	3138V-6-B09 (0-1.3)	TCLP	Solid	3010A	575406
500-191785-12	3138V-6-B10 (0-1.3)	TCLP	Solid	3010A	575406
LB 500-575406/1-B	Method Blank	TCLP	Solid	3010A	575406
LCS 500-575694/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-191785-12 MS	3138V-6-B10 (0-1.3)	TCLP	Solid	3010A	575406
500-191785-12 DU	3138V-6-B10 (0-1.3)	TCLP	Solid	3010A	575406

Prep Batch: 575697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191785-1	3138V-6-B01 (0-1.3)	SPLP East	Solid	3010A	575408
500-191785-2	3138V-6-B02 (0-1.3)	SPLP East	Solid	3010A	575408
500-191785-3	3138V-6-B03 (0-1.3)	SPLP East	Solid	3010A	575408
500-191785-4	3138V-6-B04 (0-6)	SPLP East	Solid	3010A	575408
500-191785-5	3138V-6-B04 (6-11.3)	SPLP East	Solid	3010A	575408
500-191785-6	3138V-6-B05 (0-1.3)	SPLP East	Solid	3010A	575408
500-191785-7	3138V-6-B05 (0-1.3) Dup	SPLP East	Solid	3010A	575408
500-191785-8	3138V-6-B06 (0-1.3)	SPLP East	Solid	3010A	575408
500-191785-9	3138V-6-B07 (0-1.3)	SPLP East	Solid	3010A	575408
500-191785-10	3138V-6-B08 (0-1.3)	SPLP East	Solid	3010A	575408
500-191785-11	3138V-6-B09 (0-1.3)	SPLP East	Solid	3010A	575408
500-191785-12	3138V-6-B10 (0-1.3)	SPLP East	Solid	3010A	575408
LB 500-575408/1-B	Method Blank	SPLP East	Solid	3010A	575408
LCS 500-575697/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 575788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191785-1	3138V-6-B01 (0-1.3)	TCLP	Solid	7470A	575406
500-191785-2	3138V-6-B02 (0-1.3)	TCLP	Solid	7470A	575406
500-191785-3	3138V-6-B03 (0-1.3)	TCLP	Solid	7470A	575406
500-191785-4	3138V-6-B04 (0-6)	TCLP	Solid	7470A	575406
500-191785-5	3138V-6-B04 (6-11.3)	TCLP	Solid	7470A	575406
500-191785-6	3138V-6-B05 (0-1.3)	TCLP	Solid	7470A	575406
500-191785-7	3138V-6-B05 (0-1.3) Dup	TCLP	Solid	7470A	575406
500-191785-8	3138V-6-B06 (0-1.3)	TCLP	Solid	7470A	575406

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Metals (Continued)

Prep Batch: 575788 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191785-9	3138V-6-B07 (0-1.3)	TCLP	Solid	7470A	575406
500-191785-10	3138V-6-B08 (0-1.3)	TCLP	Solid	7470A	575406
500-191785-11	3138V-6-B09 (0-1.3)	TCLP	Solid	7470A	575406
500-191785-12	3138V-6-B10 (0-1.3)	TCLP	Solid	7470A	575406
LB 500-575406/1-C	Method Blank	TCLP	Solid	7470A	575406
MB 500-575788/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-575788/14-A	Lab Control Sample	Total/NA	Solid	7470A	
500-191785-6 MS	3138V-6-B05 (0-1.3)	TCLP	Solid	7470A	575406
500-191785-6 DU	3138V-6-B05 (0-1.3)	TCLP	Solid	7470A	575406

Analysis Batch: 575790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191785-1	3138V-6-B01 (0-1.3)	Total/NA	Solid	6010B	575443
500-191785-2	3138V-6-B02 (0-1.3)	Total/NA	Solid	6010B	575443
500-191785-3	3138V-6-B03 (0-1.3)	Total/NA	Solid	6010B	575443
500-191785-4	3138V-6-B04 (0-6)	Total/NA	Solid	6010B	575443
500-191785-5	3138V-6-B04 (6-11.3)	Total/NA	Solid	6010B	575443
500-191785-6	3138V-6-B05 (0-1.3)	Total/NA	Solid	6010B	575443
500-191785-7	3138V-6-B05 (0-1.3) Dup	Total/NA	Solid	6010B	575443
500-191785-8	3138V-6-B06 (0-1.3)	Total/NA	Solid	6010B	575443
500-191785-9	3138V-6-B07 (0-1.3)	Total/NA	Solid	6010B	575443
500-191785-10	3138V-6-B08 (0-1.3)	Total/NA	Solid	6010B	575443
500-191785-11	3138V-6-B09 (0-1.3)	Total/NA	Solid	6010B	575443
500-191785-12	3138V-6-B10 (0-1.3)	Total/NA	Solid	6010B	575443
MB 500-575443/1-A	Method Blank	Total/NA	Solid	6010B	575443
LCS 500-575443/2-A	Lab Control Sample	Total/NA	Solid	6010B	575443

Analysis Batch: 575833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191785-1	3138V-6-B01 (0-1.3)	Total/NA	Solid	7471B	575625
500-191785-2	3138V-6-B02 (0-1.3)	Total/NA	Solid	7471B	575625
500-191785-3	3138V-6-B03 (0-1.3)	Total/NA	Solid	7471B	575625
500-191785-4	3138V-6-B04 (0-6)	Total/NA	Solid	7471B	575625
500-191785-5	3138V-6-B04 (6-11.3)	Total/NA	Solid	7471B	575625
500-191785-6	3138V-6-B05 (0-1.3)	Total/NA	Solid	7471B	575625
500-191785-7	3138V-6-B05 (0-1.3) Dup	Total/NA	Solid	7471B	575625
500-191785-8	3138V-6-B06 (0-1.3)	Total/NA	Solid	7471B	575625
500-191785-9	3138V-6-B07 (0-1.3)	Total/NA	Solid	7471B	575625
500-191785-10	3138V-6-B08 (0-1.3)	Total/NA	Solid	7471B	575625
500-191785-11	3138V-6-B09 (0-1.3)	Total/NA	Solid	7471B	575625
500-191785-12	3138V-6-B10 (0-1.3)	Total/NA	Solid	7471B	575625
MB 500-575625/12-A	Method Blank	Total/NA	Solid	7471B	575625
LCS 500-575625/13-A	Lab Control Sample	Total/NA	Solid	7471B	575625
500-191785-8 MS	3138V-6-B06 (0-1.3)	Total/NA	Solid	7471B	575625
500-191785-8 MSD	3138V-6-B06 (0-1.3)	Total/NA	Solid	7471B	575625
500-191785-8 DU	3138V-6-B06 (0-1.3)	Total/NA	Solid	7471B	575625

Analysis Batch: 575869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191785-9	3138V-6-B07 (0-1.3)	Total/NA	Solid	6010B	575443
500-191785-10	3138V-6-B08 (0-1.3)	Total/NA	Solid	6010B	575443

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Metals

Analysis Batch: 575870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191785-1	3138V-6-B01 (0-1.3)	SPLP East	Solid	6010B	575697
500-191785-8	3138V-6-B06 (0-1.3)	SPLP East	Solid	6010B	575697
500-191785-12	3138V-6-B10 (0-1.3)	SPLP East	Solid	6010B	575697
LB 500-575408/1-B	Method Blank	SPLP East	Solid	6010B	575697
LCS 500-575697/2-A	Lab Control Sample	Total/NA	Solid	6010B	575697

Analysis Batch: 575996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191785-1	3138V-6-B01 (0-1.3)	TCLP	Solid	6010B	575694
500-191785-2	3138V-6-B02 (0-1.3)	TCLP	Solid	6010B	575694
500-191785-3	3138V-6-B03 (0-1.3)	TCLP	Solid	6010B	575694
500-191785-4	3138V-6-B04 (0-6)	TCLP	Solid	6010B	575694
500-191785-5	3138V-6-B04 (6-11.3)	TCLP	Solid	6010B	575694
500-191785-6	3138V-6-B05 (0-1.3)	TCLP	Solid	6010B	575694
500-191785-7	3138V-6-B05 (0-1.3) Dup	TCLP	Solid	6010B	575694
500-191785-8	3138V-6-B06 (0-1.3)	TCLP	Solid	6010B	575694
500-191785-9	3138V-6-B07 (0-1.3)	TCLP	Solid	6010B	575694
500-191785-10	3138V-6-B08 (0-1.3)	TCLP	Solid	6010B	575694
500-191785-11	3138V-6-B09 (0-1.3)	TCLP	Solid	6010B	575694
500-191785-12	3138V-6-B10 (0-1.3)	TCLP	Solid	6010B	575694
LB 500-575406/1-B	Method Blank	TCLP	Solid	6010B	575694
LCS 500-575694/2-A	Lab Control Sample	Total/NA	Solid	6010B	575694
500-191785-12 MS	3138V-6-B10 (0-1.3)	TCLP	Solid	6010B	575694
500-191785-12 DU	3138V-6-B10 (0-1.3)	TCLP	Solid	6010B	575694

Analysis Batch: 576014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191785-1	3138V-6-B01 (0-1.3)	TCLP	Solid	7470A	575788
500-191785-2	3138V-6-B02 (0-1.3)	TCLP	Solid	7470A	575788
500-191785-3	3138V-6-B03 (0-1.3)	TCLP	Solid	7470A	575788
500-191785-4	3138V-6-B04 (0-6)	TCLP	Solid	7470A	575788
500-191785-5	3138V-6-B04 (6-11.3)	TCLP	Solid	7470A	575788
500-191785-6	3138V-6-B05 (0-1.3)	TCLP	Solid	7470A	575788
500-191785-7	3138V-6-B05 (0-1.3) Dup	TCLP	Solid	7470A	575788
500-191785-8	3138V-6-B06 (0-1.3)	TCLP	Solid	7470A	575788
500-191785-9	3138V-6-B07 (0-1.3)	TCLP	Solid	7470A	575788
500-191785-10	3138V-6-B08 (0-1.3)	TCLP	Solid	7470A	575788
500-191785-11	3138V-6-B09 (0-1.3)	TCLP	Solid	7470A	575788
500-191785-12	3138V-6-B10 (0-1.3)	TCLP	Solid	7470A	575788
LB 500-575406/1-C	Method Blank	TCLP	Solid	7470A	575788
MB 500-575788/12-A	Method Blank	Total/NA	Solid	7470A	575788
LCS 500-575788/14-A	Lab Control Sample	Total/NA	Solid	7470A	575788
500-191785-6 MS	3138V-6-B05 (0-1.3)	TCLP	Solid	7470A	575788
500-191785-6 DU	3138V-6-B05 (0-1.3)	TCLP	Solid	7470A	575788

Analysis Batch: 576069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191785-9	3138V-6-B07 (0-1.3)	Total/NA	Solid	6010B	575443
500-191785-10	3138V-6-B08 (0-1.3)	Total/NA	Solid	6010B	575443

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Metals

Analysis Batch: 576084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191785-1	3138V-6-B01 (0-1.3)	TCLP	Solid	6020A	575694
500-191785-2	3138V-6-B02 (0-1.3)	TCLP	Solid	6020A	575694
500-191785-3	3138V-6-B03 (0-1.3)	TCLP	Solid	6020A	575694
500-191785-4	3138V-6-B04 (0-6)	TCLP	Solid	6020A	575694
500-191785-5	3138V-6-B04 (6-11.3)	TCLP	Solid	6020A	575694
500-191785-6	3138V-6-B05 (0-1.3)	TCLP	Solid	6020A	575694
500-191785-7	3138V-6-B05 (0-1.3) Dup	TCLP	Solid	6020A	575694
500-191785-8	3138V-6-B06 (0-1.3)	TCLP	Solid	6020A	575694
500-191785-9	3138V-6-B07 (0-1.3)	TCLP	Solid	6020A	575694
500-191785-10	3138V-6-B08 (0-1.3)	TCLP	Solid	6020A	575694
500-191785-11	3138V-6-B09 (0-1.3)	TCLP	Solid	6020A	575694
500-191785-12	3138V-6-B10 (0-1.3)	TCLP	Solid	6020A	575694
LB 500-575406/1-B	Method Blank	TCLP	Solid	6020A	575694
LCS 500-575694/2-A	Lab Control Sample	Total/NA	Solid	6020A	575694
500-191785-12 MS	3138V-6-B10 (0-1.3)	TCLP	Solid	6020A	575694
500-191785-12 DU	3138V-6-B10 (0-1.3)	TCLP	Solid	6020A	575694

Analysis Batch: 576368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191785-1	3138V-6-B01 (0-1.3)	SPLP East	Solid	6010B	575697
500-191785-2	3138V-6-B02 (0-1.3)	SPLP East	Solid	6010B	575697
500-191785-3	3138V-6-B03 (0-1.3)	SPLP East	Solid	6010B	575697
500-191785-4	3138V-6-B04 (0-6)	SPLP East	Solid	6010B	575697
500-191785-5	3138V-6-B04 (6-11.3)	SPLP East	Solid	6010B	575697
500-191785-6	3138V-6-B05 (0-1.3)	SPLP East	Solid	6010B	575697
500-191785-7	3138V-6-B05 (0-1.3) Dup	SPLP East	Solid	6010B	575697
500-191785-8	3138V-6-B06 (0-1.3)	SPLP East	Solid	6010B	575697
500-191785-9	3138V-6-B07 (0-1.3)	SPLP East	Solid	6010B	575697
500-191785-10	3138V-6-B08 (0-1.3)	SPLP East	Solid	6010B	575697
500-191785-11	3138V-6-B09 (0-1.3)	SPLP East	Solid	6010B	575697
500-191785-12	3138V-6-B10 (0-1.3)	SPLP East	Solid	6010B	575697
LB 500-575408/1-B	Method Blank	SPLP East	Solid	6010B	575697
LCS 500-575697/2-A	Lab Control Sample	Total/NA	Solid	6010B	575697

General Chemistry

Prep Batch: 575621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191785-1	3138V-6-B01 (0-1.3)	Total/NA	Solid	9010C	
500-191785-2	3138V-6-B02 (0-1.3)	Total/NA	Solid	9010C	
500-191785-3	3138V-6-B03 (0-1.3)	Total/NA	Solid	9010C	
500-191785-4	3138V-6-B04 (0-6)	Total/NA	Solid	9010C	
500-191785-5	3138V-6-B04 (6-11.3)	Total/NA	Solid	9010C	
500-191785-6	3138V-6-B05 (0-1.3)	Total/NA	Solid	9010C	
500-191785-7	3138V-6-B05 (0-1.3) Dup	Total/NA	Solid	9010C	
500-191785-8	3138V-6-B06 (0-1.3)	Total/NA	Solid	9010C	
500-191785-9	3138V-6-B07 (0-1.3)	Total/NA	Solid	9010C	
500-191785-10	3138V-6-B08 (0-1.3)	Total/NA	Solid	9010C	
500-191785-11	3138V-6-B09 (0-1.3)	Total/NA	Solid	9010C	
500-191785-12	3138V-6-B10 (0-1.3)	Total/NA	Solid	9010C	
MB 500-575621/1-A	Method Blank	Total/NA	Solid	9010C	

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

General Chemistry (Continued)

Prep Batch: 575621 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
HLCS 500-575621/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 500-575621/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 500-575621/4-A	Lab Control Sample	Total/NA	Solid	9010C	

Analysis Batch: 575680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191785-1	3138V-6-B01 (0-1.3)	Total/NA	Solid	Moisture	
500-191785-2	3138V-6-B02 (0-1.3)	Total/NA	Solid	Moisture	
500-191785-3	3138V-6-B03 (0-1.3)	Total/NA	Solid	Moisture	
500-191785-4	3138V-6-B04 (0-6)	Total/NA	Solid	Moisture	
500-191785-5	3138V-6-B04 (6-11.3)	Total/NA	Solid	Moisture	
500-191785-6	3138V-6-B05 (0-1.3)	Total/NA	Solid	Moisture	
500-191785-7	3138V-6-B05 (0-1.3) Dup	Total/NA	Solid	Moisture	
500-191785-8	3138V-6-B06 (0-1.3)	Total/NA	Solid	Moisture	
500-191785-9	3138V-6-B07 (0-1.3)	Total/NA	Solid	Moisture	
500-191785-10	3138V-6-B08 (0-1.3)	Total/NA	Solid	Moisture	
500-191785-11	3138V-6-B09 (0-1.3)	Total/NA	Solid	Moisture	
500-191785-12	3138V-6-B10 (0-1.3)	Total/NA	Solid	Moisture	
500-191785-9 DU	3138V-6-B07 (0-1.3)	Total/NA	Solid	Moisture	

Analysis Batch: 575693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191785-1	3138V-6-B01 (0-1.3)	Total/NA	Solid	9012B	575621
500-191785-2	3138V-6-B02 (0-1.3)	Total/NA	Solid	9012B	575621
500-191785-3	3138V-6-B03 (0-1.3)	Total/NA	Solid	9012B	575621
500-191785-4	3138V-6-B04 (0-6)	Total/NA	Solid	9012B	575621
500-191785-5	3138V-6-B04 (6-11.3)	Total/NA	Solid	9012B	575621
500-191785-6	3138V-6-B05 (0-1.3)	Total/NA	Solid	9012B	575621
500-191785-7	3138V-6-B05 (0-1.3) Dup	Total/NA	Solid	9012B	575621
500-191785-8	3138V-6-B06 (0-1.3)	Total/NA	Solid	9012B	575621
500-191785-9	3138V-6-B07 (0-1.3)	Total/NA	Solid	9012B	575621
500-191785-10	3138V-6-B08 (0-1.3)	Total/NA	Solid	9012B	575621
500-191785-11	3138V-6-B09 (0-1.3)	Total/NA	Solid	9012B	575621
500-191785-12	3138V-6-B10 (0-1.3)	Total/NA	Solid	9012B	575621
MB 500-575621/1-A	Method Blank	Total/NA	Solid	9012B	575621
HLCS 500-575621/2-A	Lab Control Sample	Total/NA	Solid	9012B	575621
LCS 500-575621/3-A	Lab Control Sample	Total/NA	Solid	9012B	575621
LLCS 500-575621/4-A	Lab Control Sample	Total/NA	Solid	9012B	575621

Analysis Batch: 576068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191785-1	3138V-6-B01 (0-1.3)	Total/NA	Solid	9045D	
500-191785-2	3138V-6-B02 (0-1.3)	Total/NA	Solid	9045D	
500-191785-3	3138V-6-B03 (0-1.3)	Total/NA	Solid	9045D	
500-191785-4	3138V-6-B04 (0-6)	Total/NA	Solid	9045D	
500-191785-5	3138V-6-B04 (6-11.3)	Total/NA	Solid	9045D	
500-191785-6	3138V-6-B05 (0-1.3)	Total/NA	Solid	9045D	
500-191785-7	3138V-6-B05 (0-1.3) Dup	Total/NA	Solid	9045D	
500-191785-8	3138V-6-B06 (0-1.3)	Total/NA	Solid	9045D	
500-191785-9	3138V-6-B07 (0-1.3)	Total/NA	Solid	9045D	
500-191785-10	3138V-6-B08 (0-1.3)	Total/NA	Solid	9045D	

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

General Chemistry (Continued)

Analysis Batch: 576068 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191785-11	3138V-6-B09 (0-1.3)	Total/NA	Solid	9045D	
500-191785-12	3138V-6-B10 (0-1.3)	Total/NA	Solid	9045D	
LCS 500-576068/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-576068/3	Lab Control Sample Dup	Total/NA	Solid	9045D	
500-191785-F-6 DU	500-191785-F-6 DU	Total/NA	Solid	9045D	

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Surrogate Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (75-131)	DBFM (75-126)	DCA (70-134)	TOL (75-124)
500-191785-1	3138V-6-B01 (0-1.3)	91	109	93	87
500-191785-2	3138V-6-B02 (0-1.3)	93	105	95	86
500-191785-3	3138V-6-B03 (0-1.3)	92	111	97	88
500-191785-4	3138V-6-B04 (0-6)	100	99	92	87
500-191785-5	3138V-6-B04 (6-11.3)	102	98	88	90
500-191785-6	3138V-6-B05 (0-1.3)	99	104	91	87
500-191785-7	3138V-6-B05 (0-1.3) Dup	100	98	88	89
500-191785-8	3138V-6-B06 (0-1.3)	99	101	91	87
500-191785-9	3138V-6-B07 (0-1.3)	100	102	89	88
500-191785-10	3138V-6-B08 (0-1.3)	98	102	88	89
500-191785-11	3138V-6-B09 (0-1.3)	104	101	89	87
500-191785-12	3138V-6-B10 (0-1.3)	102	101	90	86
LCS 500-575521/4	Lab Control Sample	87	98	78	94
LCS 500-575544/4	Lab Control Sample	95	91	77	91
LCSD 500-575521/5	Lab Control Sample Dup	89	96	77	93
LCSD 500-575544/5	Lab Control Sample Dup	92	91	79	91
MB 500-575521/7	Method Blank	90	103	84	88
MB 500-575544/7	Method Blank	98	97	82	90

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
 DBFM = Dibromofluoromethane
 DCA = 1,2-Dichloroethane-d4 (Surr)
 TOL = Toluene-d8 (Surr)

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

Matrix: Solid

Prep Type: Total/NA

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)
500-191785-1	3138V-6-B01 (0-1.3)	93	100	75	86	96	52
500-191785-2	3138V-6-B02 (0-1.3)	89	90	73	78	100	43
500-191785-3	3138V-6-B03 (0-1.3)	81	96	69	82	103	80
500-191785-4	3138V-6-B04 (0-6)	91	109	78	96	106	67
500-191785-5	3138V-6-B04 (6-11.3)	87	104	76	92	107	85
500-191785-6	3138V-6-B05 (0-1.3)	93	102	80	92	115	31
500-191785-7	3138V-6-B05 (0-1.3) Dup	83	101	72	91	106	59
500-191785-8	3138V-6-B06 (0-1.3)	90	110	78	98	103	93
500-191785-9	3138V-6-B07 (0-1.3)	89	106	75	96	104	76
500-191785-10	3138V-6-B08 (0-1.3)	103	111	89	99	114	63
500-191785-11	3138V-6-B09 (0-1.3)	91	94	74	88	107	35
500-191785-12	3138V-6-B10 (0-1.3)	98	104	83	89	109	46
LCS 500-575123/2-A	Lab Control Sample	85	96	88	92	94	91
MB 500-575123/1-A	Method Blank	85	104	90	98	110	64

Surrogate Legend

FBP = 2-Fluorobiphenyl
 2FP = 2-Fluorophenol
 NBZ = Nitrobenzene-d5
 PHL = Phenol-d5

Surrogate Summary

Client: Terracon Consulting Eng & Scientists

Project/Site: IDOT - Lake County - WO 073

TPHL = Terphenyl-d14

TBP = 2,4,6-Tribromophenol

Job ID: 500-191785-1

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

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

Lab Sample ID: MB 500-575521/7

Matrix: Solid

Analysis Batch: 575521

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			12/06/20 13:12	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg			12/06/20 13:12	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg			12/06/20 13:12	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg			12/06/20 13:12	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg			12/06/20 13:12	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			12/06/20 13:12	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg			12/06/20 13:12	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg			12/06/20 13:12	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg			12/06/20 13:12	1
Chloroethane	<0.0015		0.0050	0.0015	mg/Kg			12/06/20 13:12	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg			12/06/20 13:12	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg			12/06/20 13:12	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg			12/06/20 13:12	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg			12/06/20 13:12	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg			12/06/20 13:12	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg			12/06/20 13:12	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg			12/06/20 13:12	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg			12/06/20 13:12	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			12/06/20 13:12	1
1,3-Dichloropropane, Total	<0.00070		0.0020	0.00070	mg/Kg			12/06/20 13:12	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg			12/06/20 13:12	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg			12/06/20 13:12	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg			12/06/20 13:12	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg			12/06/20 13:12	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg			12/06/20 13:12	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg			12/06/20 13:12	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg			12/06/20 13:12	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg			12/06/20 13:12	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg			12/06/20 13:12	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg			12/06/20 13:12	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg			12/06/20 13:12	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg			12/06/20 13:12	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg			12/06/20 13:12	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg			12/06/20 13:12	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg			12/06/20 13:12	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg			12/06/20 13:12	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg			12/06/20 13:12	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	90		75 - 131		12/06/20 13:12	1
Dibromofluoromethane	103		75 - 126		12/06/20 13:12	1
1,2-Dichloroethane-d4 (Surr)	84		70 - 134		12/06/20 13:12	1
Toluene-d8 (Surr)	88		75 - 124		12/06/20 13:12	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

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

Lab Sample ID: LCS 500-575521/4
Matrix: Solid
Analysis Batch: 575521

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	0.0483		mg/Kg		97	40 - 150
Benzene	0.0500	0.0506		mg/Kg		101	70 - 125
Bromodichloromethane	0.0500	0.0476		mg/Kg		95	67 - 129
Bromoform	0.0500	0.0498		mg/Kg		100	68 - 136
Bromomethane	0.0500	0.0418		mg/Kg		84	70 - 130
2-Butanone (MEK)	0.0500	0.0345		mg/Kg		69	47 - 138
Carbon disulfide	0.0500	0.0569		mg/Kg		114	70 - 129
Carbon tetrachloride	0.0500	0.0593		mg/Kg		119	75 - 125
Chlorobenzene	0.0500	0.0517		mg/Kg		103	50 - 150
Chloroethane	0.0500	0.0527		mg/Kg		105	75 - 125
Chloroform	0.0500	0.0505		mg/Kg		101	57 - 135
Chloromethane	0.0500	0.0492		mg/Kg		98	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0522		mg/Kg		104	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0419		mg/Kg		84	70 - 125
Dibromochloromethane	0.0500	0.0499		mg/Kg		100	69 - 125
1,1-Dichloroethane	0.0500	0.0559		mg/Kg		112	70 - 125
1,2-Dichloroethane	0.0500	0.0433		mg/Kg		87	70 - 130
1,1-Dichloroethene	0.0500	0.0569		mg/Kg		114	70 - 120
1,2-Dichloropropane	0.0500	0.0513		mg/Kg		103	70 - 125
Ethylbenzene	0.0500	0.0538		mg/Kg		108	61 - 136
2-Hexanone	0.0500	0.0370		mg/Kg		74	48 - 146
Methylene Chloride	0.0500	0.0493		mg/Kg		99	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0362		mg/Kg		72	50 - 148
Methyl tert-butyl ether	0.0500	0.0378		mg/Kg		76	50 - 140
Styrene	0.0500	0.0518		mg/Kg		104	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0403		mg/Kg		81	70 - 122
Tetrachloroethene	0.0500	0.0553		mg/Kg		111	70 - 124
Toluene	0.0500	0.0514		mg/Kg		103	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0572		mg/Kg		114	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0390		mg/Kg		78	70 - 125
1,1,1-Trichloroethane	0.0500	0.0558		mg/Kg		112	70 - 128
1,1,2-Trichloroethane	0.0500	0.0436		mg/Kg		87	70 - 125
Trichloroethene	0.0500	0.0539		mg/Kg		108	70 - 125
Vinyl acetate	0.0500	0.0397		mg/Kg		79	40 - 153
Vinyl chloride	0.0500	0.0455		mg/Kg		91	70 - 125
Xylenes, Total	0.100	0.103		mg/Kg		103	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	87		75 - 131
Dibromofluoromethane	98		75 - 126
1,2-Dichloroethane-d4 (Surr)	78		70 - 134
Toluene-d8 (Surr)	94		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

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

Lab Sample ID: LCSD 500-575521/5
Matrix: Solid
Analysis Batch: 575521

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	0.0489		mg/Kg		98	40 - 150	1	30
Benzene	0.0500	0.0531		mg/Kg		106	70 - 125	5	30
Bromodichloromethane	0.0500	0.0499		mg/Kg		100	67 - 129	5	30
Bromoform	0.0500	0.0495		mg/Kg		99	68 - 136	1	30
Bromomethane	0.0500	0.0458		mg/Kg		92	70 - 130	9	30
2-Butanone (MEK)	0.0500	0.0313		mg/Kg		63	47 - 138	10	30
Carbon disulfide	0.0500	0.0598		mg/Kg		120	70 - 129	5	30
Carbon tetrachloride	0.0500	0.0633	*	mg/Kg		127	75 - 125	7	30
Chlorobenzene	0.0500	0.0520		mg/Kg		104	50 - 150	1	30
Chloroethane	0.0500	0.0566		mg/Kg		113	75 - 125	7	30
Chloroform	0.0500	0.0530		mg/Kg		106	57 - 135	5	30
Chloromethane	0.0500	0.0509		mg/Kg		102	70 - 125	3	30
cis-1,2-Dichloroethene	0.0500	0.0545		mg/Kg		109	70 - 125	4	30
cis-1,3-Dichloropropene	0.0500	0.0428		mg/Kg		86	70 - 125	2	30
Dibromochloromethane	0.0500	0.0502		mg/Kg		100	69 - 125	1	30
1,1-Dichloroethane	0.0500	0.0587		mg/Kg		117	70 - 125	5	30
1,2-Dichloroethane	0.0500	0.0449		mg/Kg		90	70 - 130	4	30
1,1-Dichloroethene	0.0500	0.0601		mg/Kg		120	70 - 120	5	30
1,2-Dichloropropane	0.0500	0.0521		mg/Kg		104	70 - 125	1	30
Ethylbenzene	0.0500	0.0551		mg/Kg		110	61 - 136	2	30
2-Hexanone	0.0500	0.0391		mg/Kg		78	48 - 146	6	30
Methylene Chloride	0.0500	0.0523		mg/Kg		105	70 - 126	6	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0364		mg/Kg		73	50 - 148	0	30
Methyl tert-butyl ether	0.0500	0.0411		mg/Kg		82	50 - 140	8	30
Styrene	0.0500	0.0524		mg/Kg		105	70 - 125	1	30
1,1,2,2-Tetrachloroethane	0.0500	0.0431		mg/Kg		86	70 - 122	7	30
Tetrachloroethene	0.0500	0.0571		mg/Kg		114	70 - 124	3	30
Toluene	0.0500	0.0526		mg/Kg		105	70 - 125	2	30
trans-1,2-Dichloroethene	0.0500	0.0596		mg/Kg		119	70 - 125	4	30
trans-1,3-Dichloropropene	0.0500	0.0398		mg/Kg		80	70 - 125	2	30
1,1,1-Trichloroethane	0.0500	0.0587		mg/Kg		117	70 - 128	5	30
1,1,2-Trichloroethane	0.0500	0.0442		mg/Kg		88	70 - 125	1	30
Trichloroethene	0.0500	0.0554		mg/Kg		111	70 - 125	3	30
Vinyl acetate	0.0500	0.0410		mg/Kg		82	40 - 153	3	30
Vinyl chloride	0.0500	0.0474		mg/Kg		95	70 - 125	4	30
Xylenes, Total	0.100	0.105		mg/Kg		105	53 - 147	3	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	89		75 - 131
Dibromofluoromethane	96		75 - 126
1,2-Dichloroethane-d4 (Surr)	77		70 - 134
Toluene-d8 (Surr)	93		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

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

Lab Sample ID: MB 500-575544/7
Matrix: Solid
Analysis Batch: 575544

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			12/07/20 11:02	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg			12/07/20 11:02	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg			12/07/20 11:02	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg			12/07/20 11:02	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg			12/07/20 11:02	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			12/07/20 11:02	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg			12/07/20 11:02	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg			12/07/20 11:02	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg			12/07/20 11:02	1
Chloroethane	<0.0015		0.0050	0.0015	mg/Kg			12/07/20 11:02	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg			12/07/20 11:02	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg			12/07/20 11:02	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg			12/07/20 11:02	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg			12/07/20 11:02	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg			12/07/20 11:02	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg			12/07/20 11:02	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg			12/07/20 11:02	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg			12/07/20 11:02	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			12/07/20 11:02	1
1,3-Dichloropropane, Total	<0.00070		0.0020	0.00070	mg/Kg			12/07/20 11:02	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg			12/07/20 11:02	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg			12/07/20 11:02	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg			12/07/20 11:02	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg			12/07/20 11:02	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg			12/07/20 11:02	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg			12/07/20 11:02	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg			12/07/20 11:02	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg			12/07/20 11:02	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg			12/07/20 11:02	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg			12/07/20 11:02	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg			12/07/20 11:02	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg			12/07/20 11:02	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg			12/07/20 11:02	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg			12/07/20 11:02	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg			12/07/20 11:02	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg			12/07/20 11:02	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg			12/07/20 11:02	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	98		75 - 131		12/07/20 11:02	1
Dibromofluoromethane	97		75 - 126		12/07/20 11:02	1
1,2-Dichloroethane-d4 (Surr)	82		70 - 134		12/07/20 11:02	1
Toluene-d8 (Surr)	90		75 - 124		12/07/20 11:02	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

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

Lab Sample ID: LCS 500-575544/4

Matrix: Solid

Analysis Batch: 575544

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	0.0404		mg/Kg		81	40 - 150
Benzene	0.0500	0.0533		mg/Kg		107	70 - 125
Bromodichloromethane	0.0500	0.0499		mg/Kg		100	67 - 129
Bromoform	0.0500	0.0518		mg/Kg		104	68 - 136
Bromomethane	0.0500	0.0450		mg/Kg		90	70 - 130
2-Butanone (MEK)	0.0500	0.0376		mg/Kg		75	47 - 138
Carbon disulfide	0.0500	0.0563		mg/Kg		113	70 - 129
Carbon tetrachloride	0.0500	0.0614		mg/Kg		123	75 - 125
Chlorobenzene	0.0500	0.0544		mg/Kg		109	50 - 150
Chloroethane	0.0500	0.0562		mg/Kg		112	75 - 125
Chloroform	0.0500	0.0516		mg/Kg		103	57 - 135
Chloromethane	0.0500	0.0583		mg/Kg		117	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0532		mg/Kg		106	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0450		mg/Kg		90	70 - 125
Dibromochloromethane	0.0500	0.0527		mg/Kg		105	69 - 125
1,1-Dichloroethane	0.0500	0.0571		mg/Kg		114	70 - 125
1,2-Dichloroethane	0.0500	0.0453		mg/Kg		91	70 - 130
1,1-Dichloroethene	0.0500	0.0569		mg/Kg		114	70 - 120
1,2-Dichloropropane	0.0500	0.0542		mg/Kg		108	70 - 125
Ethylbenzene	0.0500	0.0572		mg/Kg		114	61 - 136
2-Hexanone	0.0500	0.0365		mg/Kg		73	48 - 146
Methylene Chloride	0.0500	0.0481		mg/Kg		96	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0365		mg/Kg		73	50 - 148
Methyl tert-butyl ether	0.0500	0.0378		mg/Kg		76	50 - 140
Styrene	0.0500	0.0551		mg/Kg		110	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0432		mg/Kg		86	70 - 122
Tetrachloroethene	0.0500	0.0592		mg/Kg		118	70 - 124
Toluene	0.0500	0.0541		mg/Kg		108	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0577		mg/Kg		115	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0430		mg/Kg		86	70 - 125
1,1,1-Trichloroethane	0.0500	0.0573		mg/Kg		115	70 - 128
1,1,2-Trichloroethane	0.0500	0.0468		mg/Kg		94	70 - 125
Trichloroethene	0.0500	0.0588		mg/Kg		118	70 - 125
Vinyl acetate	0.0500	0.0398		mg/Kg		80	40 - 153
Vinyl chloride	0.0500	0.0505		mg/Kg		101	70 - 125
Xylenes, Total	0.100	0.105		mg/Kg		105	53 - 147

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		75 - 131
Dibromofluoromethane	91		75 - 126
1,2-Dichloroethane-d4 (Surr)	77		70 - 134
Toluene-d8 (Surr)	91		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

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

Lab Sample ID: LCSD 500-575544/5
Matrix: Solid
Analysis Batch: 575544

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	0.0386		mg/Kg		77	40 - 150	4	30
Benzene	0.0500	0.0526		mg/Kg		105	70 - 125	1	30
Bromodichloromethane	0.0500	0.0509		mg/Kg		102	67 - 129	2	30
Bromoform	0.0500	0.0515		mg/Kg		103	68 - 136	0	30
Bromomethane	0.0500	0.0450		mg/Kg		90	70 - 130	0	30
2-Butanone (MEK)	0.0500	0.0356		mg/Kg		71	47 - 138	6	30
Carbon disulfide	0.0500	0.0552		mg/Kg		110	70 - 129	2	30
Carbon tetrachloride	0.0500	0.0598		mg/Kg		120	75 - 125	3	30
Chlorobenzene	0.0500	0.0534		mg/Kg		107	50 - 150	2	30
Chloroethane	0.0500	0.0562		mg/Kg		112	75 - 125	0	30
Chloroform	0.0500	0.0505		mg/Kg		101	57 - 135	2	30
Chloromethane	0.0500	0.0576		mg/Kg		115	70 - 125	1	30
cis-1,2-Dichloroethene	0.0500	0.0524		mg/Kg		105	70 - 125	2	30
cis-1,3-Dichloropropene	0.0500	0.0449		mg/Kg		90	70 - 125	0	30
Dibromochloromethane	0.0500	0.0527		mg/Kg		105	69 - 125	0	30
1,1-Dichloroethane	0.0500	0.0552		mg/Kg		110	70 - 125	3	30
1,2-Dichloroethane	0.0500	0.0455		mg/Kg		91	70 - 130	0	30
1,1-Dichloroethene	0.0500	0.0548		mg/Kg		110	70 - 120	4	30
1,2-Dichloropropane	0.0500	0.0532		mg/Kg		106	70 - 125	2	30
Ethylbenzene	0.0500	0.0558		mg/Kg		112	61 - 136	2	30
2-Hexanone	0.0500	0.0377		mg/Kg		75	48 - 146	3	30
Methylene Chloride	0.0500	0.0488		mg/Kg		98	70 - 126	1	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0356		mg/Kg		71	50 - 148	2	30
Methyl tert-butyl ether	0.0500	0.0387		mg/Kg		77	50 - 140	2	30
Styrene	0.0500	0.0525		mg/Kg		105	70 - 125	5	30
1,1,2,2-Tetrachloroethane	0.0500	0.0443		mg/Kg		89	70 - 122	2	30
Tetrachloroethene	0.0500	0.0582		mg/Kg		116	70 - 124	2	30
Toluene	0.0500	0.0533		mg/Kg		107	70 - 125	1	30
trans-1,2-Dichloroethene	0.0500	0.0553		mg/Kg		111	70 - 125	4	30
trans-1,3-Dichloropropene	0.0500	0.0424		mg/Kg		85	70 - 125	1	30
1,1,1-Trichloroethane	0.0500	0.0565		mg/Kg		113	70 - 128	1	30
1,1,2-Trichloroethane	0.0500	0.0478		mg/Kg		96	70 - 125	2	30
Trichloroethene	0.0500	0.0577		mg/Kg		115	70 - 125	2	30
Vinyl acetate	0.0500	0.0425		mg/Kg		85	40 - 153	7	30
Vinyl chloride	0.0500	0.0497		mg/Kg		99	70 - 125	2	30
Xylenes, Total	0.100	0.103		mg/Kg		103	53 - 147	3	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	92		75 - 131
Dibromofluoromethane	91		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 - Lake County - WO 073

Job ID: 500-191785-1

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

Lab Sample ID: MB 500-575123/1-A

Matrix: Solid

Analysis Batch: 575255

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 575123

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	<0.0060		0.033	0.0060	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
Acenaphthylene	<0.0044		0.033	0.0044	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
Anthracene	<0.0056		0.033	0.0056	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
Benzo[a]anthracene	<0.0045		0.033	0.0045	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
Benzo[a]pyrene	<0.0064		0.033	0.0064	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
Benzo[b]fluoranthene	<0.0072		0.033	0.0072	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
Benzo[g,h,i]perylene	<0.011		0.033	0.011	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
Benzo[k]fluoranthene	<0.0098		0.033	0.0098	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
Bis(2-chloroethoxy)methane	<0.034		0.17	0.034	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
Bis(2-chloroethyl)ether	<0.050		0.17	0.050	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
Bis(2-ethylhexyl) phthalate	<0.061		0.17	0.061	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
4-Bromophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
Butyl benzyl phthalate	<0.063		0.17	0.063	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
Carbazole	<0.083		0.17	0.083	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
4-Chloroaniline	<0.16		0.67	0.16	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
4-Chloro-3-methylphenol	<0.11		0.33	0.11	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
2-Chloronaphthalene	<0.037		0.17	0.037	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
2-Chlorophenol	<0.057		0.17	0.057	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
4-Chlorophenyl phenyl ether	<0.039		0.17	0.039	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
Chrysene	<0.0091		0.033	0.0091	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
Dibenz(a,h)anthracene	<0.0064		0.033	0.0064	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
Dibenzofuran	<0.039		0.17	0.039	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
1,2-Dichlorobenzene	<0.040		0.17	0.040	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
1,3-Dichlorobenzene	<0.037		0.17	0.037	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
1,4-Dichlorobenzene	<0.043		0.17	0.043	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
3,3'-Dichlorobenzidine	<0.047		0.17	0.047	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
2,4-Dichlorophenol	<0.079		0.33	0.079	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
Diethyl phthalate	<0.056		0.17	0.056	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
2,4-Dimethylphenol	<0.13		0.33	0.13	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
Dimethyl phthalate	<0.043		0.17	0.043	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
Di-n-butyl phthalate	<0.051		0.17	0.051	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
4,6-Dinitro-2-methylphenol	<0.27		0.67	0.27	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
2,4-Dinitrophenol	<0.59		0.67	0.59	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
2,4-Dinitrotoluene	<0.053		0.17	0.053	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
2,6-Dinitrotoluene	<0.065		0.17	0.065	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
Di-n-octyl phthalate	<0.054		0.17	0.054	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
Fluoranthene	<0.0062		0.033	0.0062	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
Fluorene	<0.0047		0.033	0.0047	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
Hexachlorobenzene	<0.0077		0.067	0.0077	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
Hexachlorobutadiene	<0.052		0.17	0.052	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
Hexachlorocyclopentadiene	<0.19		0.67	0.19	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
Hexachloroethane	<0.051		0.17	0.051	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
Indeno[1,2,3-cd]pyrene	<0.0086		0.033	0.0086	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
Isophorone	<0.037		0.17	0.037	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
2-Methylnaphthalene	<0.0061		0.067	0.0061	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
2-Methylphenol	<0.053		0.17	0.053	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
3 & 4 Methylphenol	<0.055		0.17	0.055	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
Naphthalene	<0.0051		0.033	0.0051	mg/Kg		12/03/20 08:38	12/03/20 20:16	1

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

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

Lab Sample ID: MB 500-575123/1-A
Matrix: Solid
Analysis Batch: 575255

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575123

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	<0.045		0.17	0.045	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
3-Nitroaniline	<0.10		0.33	0.10	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
4-Nitroaniline	<0.14		0.33	0.14	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
Nitrobenzene	<0.0083		0.033	0.0083	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
2-Nitrophenol	<0.079		0.33	0.079	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
4-Nitrophenol	<0.32		0.67	0.32	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
N-Nitrosodi-n-propylamine	<0.041		0.067	0.041	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
N-Nitrosodiphenylamine	<0.039		0.17	0.039	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
2,2'-oxybis[1-chloropropane]	<0.039		0.17	0.039	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
Pentachlorophenol	<0.53		0.67	0.53	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
Phenanthrene	<0.0046		0.033	0.0046	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
Phenol	<0.074		0.17	0.074	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
Pyrene	<0.0066		0.033	0.0066	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
1,2,4-Trichlorobenzene	<0.036		0.17	0.036	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
2,4,5-Trichlorophenol	<0.076		0.33	0.076	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
2,4,6-Trichlorophenol	<0.11		0.33	0.11	mg/Kg		12/03/20 08:38	12/03/20 20:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	85		43 - 145	12/03/20 08:38	12/03/20 20:16	1
2-Fluorophenol	104		31 - 166	12/03/20 08:38	12/03/20 20:16	1
Nitrobenzene-d5	90		37 - 147	12/03/20 08:38	12/03/20 20:16	1
Phenol-d5	98		30 - 153	12/03/20 08:38	12/03/20 20:16	1
Terphenyl-d14	110		42 - 157	12/03/20 08:38	12/03/20 20:16	1
2,4,6-Tribromophenol	64		31 - 143	12/03/20 08:38	12/03/20 20:16	1

Lab Sample ID: LCS 500-575123/2-A
Matrix: Solid
Analysis Batch: 575255

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575123

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1.33	1.20		mg/Kg		90	65 - 124
Acenaphthylene	1.33	1.18		mg/Kg		88	68 - 120
Anthracene	1.33	1.20		mg/Kg		90	70 - 114
Benzo[a]anthracene	1.33	1.20		mg/Kg		90	67 - 122
Benzo[a]pyrene	1.33	1.27		mg/Kg		95	65 - 133
Benzo[b]fluoranthene	1.33	1.27		mg/Kg		95	69 - 129
Benzo[g,h,i]perylene	1.33	1.26		mg/Kg		95	72 - 131
Benzo[k]fluoranthene	1.33	1.24		mg/Kg		93	68 - 127
Bis(2-chloroethoxy)methane	1.33	1.23		mg/Kg		92	60 - 112
Bis(2-chloroethyl)ether	1.33	1.23		mg/Kg		92	55 - 111
Bis(2-ethylhexyl) phthalate	1.33	1.28		mg/Kg		96	72 - 131
4-Bromophenyl phenyl ether	1.33	1.21		mg/Kg		91	68 - 118
Butyl benzyl phthalate	1.33	1.28		mg/Kg		96	71 - 129
Carbazole	1.33	1.19		mg/Kg		90	65 - 142
4-Chloroaniline	1.33	1.11		mg/Kg		83	30 - 150
4-Chloro-3-methylphenol	1.33	1.26		mg/Kg		94	65 - 122
2-Chloronaphthalene	1.33	1.19		mg/Kg		89	69 - 114
2-Chlorophenol	1.33	1.26		mg/Kg		95	64 - 110

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

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

Lab Sample ID: LCS 500-575123/2-A

Matrix: Solid

Analysis Batch: 575255

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 575123

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorophenyl phenyl ether	1.33	1.22		mg/Kg		92	62 - 119
Chrysene	1.33	1.20		mg/Kg		90	63 - 120
Dibenz(a,h)anthracene	1.33	1.33		mg/Kg		100	64 - 131
Dibenzofuran	1.33	1.19		mg/Kg		90	66 - 115
1,2-Dichlorobenzene	1.33	1.21		mg/Kg		90	62 - 110
1,3-Dichlorobenzene	1.33	1.18		mg/Kg		88	65 - 124
1,4-Dichlorobenzene	1.33	1.17		mg/Kg		88	61 - 110
3,3'-Dichlorobenzidine	1.33	0.888		mg/Kg		67	35 - 128
2,4-Dichlorophenol	1.33	1.22		mg/Kg		92	58 - 120
Diethyl phthalate	1.33	1.21		mg/Kg		91	58 - 120
2,4-Dimethylphenol	1.33	1.23		mg/Kg		92	60 - 110
Dimethyl phthalate	1.33	1.21		mg/Kg		91	69 - 116
Di-n-butyl phthalate	1.33	1.21		mg/Kg		90	65 - 120
4,6-Dinitro-2-methylphenol	2.67	1.06		mg/Kg		40	10 - 110
2,4-Dinitrophenol	2.67	0.698		mg/Kg		26	10 - 100
2,4-Dinitrotoluene	1.33	1.25		mg/Kg		94	69 - 124
2,6-Dinitrotoluene	1.33	1.27		mg/Kg		95	70 - 123
Di-n-octyl phthalate	1.33	1.21		mg/Kg		91	68 - 134
Fluoranthene	1.33	1.18		mg/Kg		89	62 - 120
Fluorene	1.33	1.22		mg/Kg		91	62 - 120
Hexachlorobenzene	1.33	1.31		mg/Kg		98	63 - 124
Hexachlorobutadiene	1.33	1.26		mg/Kg		95	56 - 120
Hexachlorocyclopentadiene	1.33	0.815		mg/Kg		61	10 - 133
Hexachloroethane	1.33	1.18		mg/Kg		88	60 - 114
Indeno[1,2,3-cd]pyrene	1.33	1.29		mg/Kg		97	68 - 130
Isophorone	1.33	1.27		mg/Kg		95	55 - 110
2-Methylnaphthalene	1.33	1.21		mg/Kg		91	69 - 112
2-Methylphenol	1.33	1.28		mg/Kg		96	60 - 120
3 & 4 Methylphenol	1.33	1.25		mg/Kg		94	57 - 120
Naphthalene	1.33	1.19		mg/Kg		89	63 - 110
2-Nitroaniline	1.33	1.20		mg/Kg		90	57 - 124
3-Nitroaniline	1.33	0.882		mg/Kg		66	40 - 122
4-Nitroaniline	1.33	1.13		mg/Kg		85	60 - 160
Nitrobenzene	1.33	1.24		mg/Kg		93	60 - 116
2-Nitrophenol	1.33	1.23		mg/Kg		93	60 - 120
4-Nitrophenol	2.67	2.53		mg/Kg		95	30 - 122
N-Nitrosodi-n-propylamine	1.33	1.31		mg/Kg		98	56 - 118
N-Nitrosodiphenylamine	1.33	1.19		mg/Kg		89	65 - 112
2,2'-oxybis[1-chloropropane]	1.33	1.36		mg/Kg		102	40 - 124
Pentachlorophenol	2.67	1.84		mg/Kg		69	13 - 112
Phenanthrene	1.33	1.20		mg/Kg		90	62 - 120
Phenol	1.33	1.26		mg/Kg		95	56 - 122
Pyrene	1.33	1.24		mg/Kg		93	61 - 128
1,2,4-Trichlorobenzene	1.33	1.24		mg/Kg		93	66 - 117
2,4,5-Trichlorophenol	1.33	1.19		mg/Kg		90	50 - 120
2,4,6-Trichlorophenol	1.33	1.21		mg/Kg		91	57 - 120

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

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

Lab Sample ID: LCS 500-575123/2-A
Matrix: Solid
Analysis Batch: 575255

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575123

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	85		43 - 145
2-Fluorophenol	96		31 - 166
Nitrobenzene-d5	88		37 - 147
Phenol-d5	92		30 - 153
Terphenyl-d14	94		42 - 157
2,4,6-Tribromophenol	91		31 - 143

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-575443/1-A
Matrix: Solid
Analysis Batch: 575790

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575443

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.39		2.0	0.39	mg/Kg		12/04/20 17:58	12/07/20 11:02	1
Arsenic	<0.34		1.0	0.34	mg/Kg		12/04/20 17:58	12/07/20 11:02	1
Barium	<0.11		1.0	0.11	mg/Kg		12/04/20 17:58	12/07/20 11:02	1
Beryllium	<0.093		0.40	0.093	mg/Kg		12/04/20 17:58	12/07/20 11:02	1
Cadmium	<0.036		0.20	0.036	mg/Kg		12/04/20 17:58	12/07/20 11:02	1
Chromium	<0.50		1.0	0.50	mg/Kg		12/04/20 17:58	12/07/20 11:02	1
Cobalt	<0.13		0.50	0.13	mg/Kg		12/04/20 17:58	12/07/20 11:02	1
Copper	<0.28		1.0	0.28	mg/Kg		12/04/20 17:58	12/07/20 11:02	1
Iron	15.9	J	20	10	mg/Kg		12/04/20 17:58	12/07/20 11:02	1
Lead	<0.23		0.50	0.23	mg/Kg		12/04/20 17:58	12/07/20 11:02	1
Magnesium	<5.0		10	5.0	mg/Kg		12/04/20 17:58	12/07/20 11:02	1
Calcium	3.71	J	20	3.4	mg/Kg		12/04/20 17:58	12/07/20 11:02	1
Manganese	<0.15		1.0	0.15	mg/Kg		12/04/20 17:58	12/07/20 11:02	1
Nickel	<0.29		1.0	0.29	mg/Kg		12/04/20 17:58	12/07/20 11:02	1
Selenium	<0.59		1.0	0.59	mg/Kg		12/04/20 17:58	12/07/20 11:02	1
Silver	<0.13		0.50	0.13	mg/Kg		12/04/20 17:58	12/07/20 11:02	1
Thallium	<0.50		1.0	0.50	mg/Kg		12/04/20 17:58	12/07/20 11:02	1
Vanadium	<0.12		0.50	0.12	mg/Kg		12/04/20 17:58	12/07/20 11:02	1
Zinc	<0.88		2.0	0.88	mg/Kg		12/04/20 17:58	12/07/20 11:02	1
Potassium	<18		50	18	mg/Kg		12/04/20 17:58	12/07/20 11:02	1
Sodium	22.4	J	100	15	mg/Kg		12/04/20 17:58	12/07/20 11:02	1

Lab Sample ID: LCS 500-575443/2-A
Matrix: Solid
Analysis Batch: 575790

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575443

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
Antimony	50.0	41.9		mg/Kg		84		80 - 120
Arsenic	10.0	9.07		mg/Kg		91		80 - 120
Barium	200	186		mg/Kg		93		80 - 120
Beryllium	5.00	4.48		mg/Kg		90		80 - 120
Cadmium	5.00	4.46		mg/Kg		89		80 - 120
Chromium	20.0	18.5		mg/Kg		93		80 - 120
Cobalt	50.0	46.5		mg/Kg		93		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 - Lake County - WO 073

Job ID: 500-191785-1

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

Lab Sample ID: LCS 500-575443/2-A
Matrix: Solid
Analysis Batch: 575790

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575443

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	100	104		mg/Kg		104	80 - 120
Lead	10.0	8.89		mg/Kg		89	80 - 120
Magnesium	1000	878		mg/Kg		88	80 - 120
Calcium	1000	903		mg/Kg		90	80 - 120
Manganese	50.0	44.8		mg/Kg		90	80 - 120
Nickel	50.0	46.3		mg/Kg		93	80 - 120
Selenium	10.0	8.07		mg/Kg		81	80 - 120
Silver	5.00	4.37		mg/Kg		87	80 - 120
Thallium	10.0	9.29		mg/Kg		93	80 - 120
Vanadium	50.0	46.6		mg/Kg		93	80 - 120
Zinc	50.0	45.2		mg/Kg		90	80 - 120
Potassium	1000	919		mg/Kg		92	80 - 120
Sodium	1000	945		mg/Kg		95	80 - 120

Lab Sample ID: LCS 500-575694/2-A
Matrix: Solid
Analysis Batch: 575996

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575694

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.108		mg/L		108	80 - 120
Barium	0.500	0.494	J	mg/L		99	80 - 120
Beryllium	0.0500	0.0504		mg/L		101	80 - 120
Cadmium	0.0500	0.0555		mg/L		111	80 - 120
Chromium	0.200	0.197		mg/L		98	80 - 120
Cobalt	0.500	0.528		mg/L		106	80 - 120
Copper	0.250	0.267		mg/L		107	80 - 120
Iron	1.00	1.03		mg/L		103	80 - 120
Lead	0.100	0.0954		mg/L		95	80 - 120
Magnesium	10.0	9.46		mg/L		95	80 - 120
Calcium	10.0	10.3		mg/L		103	80 - 120
Manganese	0.500	0.487		mg/L		97	80 - 120
Nickel	0.500	0.525		mg/L		105	80 - 120
Selenium	0.100	0.104		mg/L		104	80 - 120
Silver	0.0500	0.0547		mg/L		109	80 - 120
Vanadium	0.500	0.498		mg/L		100	80 - 120
Zinc	0.500	0.581		mg/L		116	80 - 120
Potassium	10.0	11.7		mg/L		117	80 - 120

Lab Sample ID: LCS 500-575697/2-A
Matrix: Solid
Analysis Batch: 575870

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575697

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.0500	0.0476		mg/L		95	80 - 120
Iron	1.00	1.05		mg/L		105	80 - 120
Lead	0.100	0.0929		mg/L		93	80 - 120

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

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

Lab Sample ID: LCS 500-575697/2-A
Matrix: Solid
Analysis Batch: 576368

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575697
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Manganese	0.500	0.466		mg/L		93	80 - 120

Lab Sample ID: LB 500-575406/1-B
Matrix: Solid
Analysis Batch: 575996

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 575694

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		12/07/20 16:58	12/08/20 16:34	1
Barium	<0.050		0.50	0.050	mg/L		12/07/20 16:58	12/08/20 16:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/07/20 16:58	12/08/20 16:34	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		12/07/20 16:58	12/08/20 16:34	1
Chromium	<0.010		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 16:34	1
Cobalt	<0.010		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 16:34	1
Copper	<0.010		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 16:34	1
Iron	<0.20		0.40	0.20	mg/L		12/07/20 16:58	12/08/20 16:34	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/07/20 16:58	12/08/20 16:34	1
Magnesium	<0.50		2.5	0.50	mg/L		12/07/20 16:58	12/08/20 16:34	1
Calcium	<0.50		5.0	0.50	mg/L		12/07/20 16:58	12/08/20 16:34	1
Manganese	<0.010		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 16:34	1
Nickel	<0.010		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 16:34	1
Selenium	<0.020		0.050	0.020	mg/L		12/07/20 16:58	12/08/20 16:34	1
Silver	<0.010		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 16:34	1
Vanadium	<0.010		0.025	0.010	mg/L		12/07/20 16:58	12/08/20 16:34	1
Zinc	<0.020		0.50	0.020	mg/L		12/07/20 16:58	12/08/20 16:34	1
Potassium	<0.50		2.5	0.50	mg/L		12/07/20 16:58	12/08/20 16:34	1

Lab Sample ID: 500-191785-12 MS
Matrix: Solid
Analysis Batch: 575996

Client Sample ID: 3138V-6-B10 (0-1.3)
Prep Type: TCLP
Prep Batch: 575694
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Arsenic	<0.010		0.100	0.113		mg/L		113	75 - 125
Barium	0.39	J	0.500	0.877		mg/L		97	75 - 125
Beryllium	<0.0040		0.0500	0.0485		mg/L		97	75 - 125
Cadmium	0.0038	J	0.0500	0.0597		mg/L		112	75 - 125
Chromium	<0.010		0.200	0.190		mg/L		95	75 - 125
Cobalt	0.029		0.500	0.551		mg/L		104	75 - 125
Copper	<0.010		0.250	0.274		mg/L		110	75 - 125
Iron	<0.20		1.00	1.06		mg/L		106	75 - 125
Lead	0.022		0.100	0.126		mg/L		103	75 - 125
Magnesium	90		10.0	99.5	4	mg/L		94	75 - 125
Calcium	210		10.0	219	4	mg/L		100	75 - 125
Manganese	7.7		0.500	8.16	4	mg/L		93	75 - 125
Nickel	0.020	J	0.500	0.529		mg/L		102	75 - 125
Selenium	<0.020		0.100	0.109		mg/L		109	75 - 125
Silver	<0.010		0.0500	0.0561		mg/L		112	75 - 125
Vanadium	<0.010		0.500	0.493		mg/L		99	75 - 125
Zinc	0.079	J	0.500	0.624		mg/L		109	75 - 125
Potassium	1.5	J	10.0	13.4		mg/L		119	75 - 125

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Method: 6010B - Metals (ICP)

Lab Sample ID: 500-191785-12 DU
Matrix: Solid
Analysis Batch: 575996

Client Sample ID: 3138V-6-B10 (0-1.3)
Prep Type: TCLP
Prep Batch: 575694

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Arsenic	<0.010		<0.010		mg/L		NC	20
Barium	0.39	J	0.389	J	mg/L		0.8	20
Beryllium	<0.0040		<0.0040		mg/L		NC	20
Cadmium	0.0038	J	0.00372	J	mg/L		2	20
Chromium	<0.010		<0.010		mg/L		NC	20
Cobalt	0.029		0.0294		mg/L		1	20
Copper	<0.010		<0.010		mg/L		NC	20
Iron	<0.20		<0.20		mg/L		NC	20
Lead	0.022		0.0225		mg/L		0.2	20
Magnesium	90		89.1		mg/L		1	20
Calcium	210		207		mg/L		0.8	20
Manganese	7.7		7.63		mg/L		0.9	20
Nickel	0.020	J	0.0203	J	mg/L		0.8	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	0.079	J	0.0784	J	mg/L		0.3	20
Potassium	1.5	J	1.47	J	mg/L		2	20

Lab Sample ID: LB 500-575408/1-B
Matrix: Solid
Analysis Batch: 575870

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 575697

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Cadmium	<0.0020		0.0050	0.0020	mg/L		12/07/20 17:02	12/08/20 13:32	1
Iron	<0.20		0.40	0.20	mg/L		12/07/20 17:02	12/08/20 13:32	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/07/20 17:02	12/08/20 13:32	1

Lab Sample ID: LB 500-575408/1-B
Matrix: Solid
Analysis Batch: 576368

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 575697

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Manganese	<0.010		0.025	0.010	mg/L		12/07/20 17:02	12/10/20 14:17	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-575694/2-A
Matrix: Solid
Analysis Batch: 576084

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575694

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	0.100	0.102		mg/L		102	80 - 120

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

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

Lab Sample ID: LB 500-575406/1-B
Matrix: Solid
Analysis Batch: 576084

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 575694

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0060		0.0060	0.0060	mg/L		12/07/20 16:58	12/09/20 13:23	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/07/20 16:58	12/09/20 13:23	1

Lab Sample ID: 500-191785-12 MS
Matrix: Solid
Analysis Batch: 576084

Client Sample ID: 3138V-6-B10 (0-1.3)
Prep Type: TCLP
Prep Batch: 575694

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
Antimony	<0.0060		0.500	0.473		mg/L		95	75 - 125
Thallium	<0.0020		0.100	0.102		mg/L		102	75 - 125

Lab Sample ID: 500-191785-12 DU
Matrix: Solid
Analysis Batch: 576084

Client Sample ID: 3138V-6-B10 (0-1.3)
Prep Type: TCLP
Prep Batch: 575694

Analyte	Sample Result	Sample Qualifier	DU DU		Unit	D	RPD	RPD Limit
			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 500-575788/12-A
Matrix: Solid
Analysis Batch: 576014

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575788

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020		0.00020	0.00020	mg/L		12/08/20 08:15	12/09/20 07:52	1

Lab Sample ID: LCS 500-575788/14-A
Matrix: Solid
Analysis Batch: 576014

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575788

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Mercury	0.00200	0.00200		mg/L		100	80 - 120

Lab Sample ID: LB 500-575406/1-C
Matrix: Solid
Analysis Batch: 576014

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 575788

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020		0.00020	0.00020	mg/L		12/08/20 08:15	12/09/20 07:54	1

Lab Sample ID: 500-191785-6 MS
Matrix: Solid
Analysis Batch: 576014

Client Sample ID: 3138V-6-B05 (0-1.3)
Prep Type: TCLP
Prep Batch: 575788

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
Mercury	<0.00020		0.00100	0.000924		mg/L		92	75 - 125

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Method: 7470A - TCLP Mercury (Continued)

Lab Sample ID: 500-191785-6 DU
 Matrix: Solid
 Analysis Batch: 576014

Client Sample ID: 3138V-6-B05 (0-1.3)
 Prep Type: TCLP
 Prep Batch: 575788

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 500-575625/12-A
 Matrix: Solid
 Analysis Batch: 575833

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 575625

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		12/07/20 13:35	12/08/20 10:19	1

Lab Sample ID: LCS 500-575625/13-A
 Matrix: Solid
 Analysis Batch: 575833

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 575625
 %Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.181		mg/Kg		108	80 - 120

Lab Sample ID: 500-191785-8 MS
 Matrix: Solid
 Analysis Batch: 575833

Client Sample ID: 3138V-6-B06 (0-1.3)
 Prep Type: Total/NA
 Prep Batch: 575625
 %Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	0.037		0.0949	0.118		mg/Kg	⊛	85	75 - 125

Lab Sample ID: 500-191785-8 MSD
 Matrix: Solid
 Analysis Batch: 575833

Client Sample ID: 3138V-6-B06 (0-1.3)
 Prep Type: Total/NA
 Prep Batch: 575625
 %Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.037		0.0948	0.118		mg/Kg	⊛	85	75 - 125	0	20

Lab Sample ID: 500-191785-8 DU
 Matrix: Solid
 Analysis Batch: 575833

Client Sample ID: 3138V-6-B06 (0-1.3)
 Prep Type: Total/NA
 Prep Batch: 575625

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	0.037		0.0387		mg/Kg	⊛	4	20

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

Lab Sample ID: MB 500-575621/1-A
 Matrix: Solid
 Analysis Batch: 575693

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 575621

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.12		0.24	0.12	mg/Kg		12/07/20 10:47	12/07/20 15:38	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

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

Lab Sample ID: HLCS 500-575621/2-A
Matrix: Solid
Analysis Batch: 575693

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575621
 %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 500-575621/3-A
Matrix: Solid
Analysis Batch: 575693

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575621
 %Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	2.40	2.46		mg/Kg		102	85 - 115

Lab Sample ID: LLCS 500-575621/4-A
Matrix: Solid
Analysis Batch: 575693

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575621
 %Rec.

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	1.20	1.46		mg/Kg		121	75 - 125

Method: 9045D - pH

Lab Sample ID: 500-191785-F-6 DU
Matrix: Solid
Analysis Batch: 576068

Client Sample ID: 500-191785-F-6 DU
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH			8.1		SU			

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Client Sample ID: 3138V-6-B01 (0-1.3)

Lab Sample ID: 500-191785-1

Date Collected: 12/01/20 14:30

Matrix: Solid

Date Received: 12/01/20 17:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			575408	12/04/20 13:00	CMS	TAL CHI
SPLP East	Prep	3010A			575697	12/07/20 17:02	BDE	TAL CHI
SPLP East	Analysis	6010B		1	575870	12/08/20 13:38	EEN	TAL CHI
SPLP East	Leach	1312			575408	12/04/20 13:00	CMS	TAL CHI
SPLP East	Prep	3010A			575697	12/07/20 17:02	BDE	TAL CHI
SPLP East	Analysis	6010B		1	576368	12/10/20 14:32	EEN	TAL CHI
TCLP	Leach	1311			575406	12/04/20 13:00	CMS	TAL CHI
TCLP	Prep	3010A			575694	12/07/20 16:58	BDE	TAL CHI
TCLP	Analysis	6010B		1	575996	12/08/20 17:14	JJB	TAL CHI
TCLP	Leach	1311			575406	12/04/20 13:00	CMS	TAL CHI
TCLP	Prep	3010A			575694	12/07/20 16:58	BDE	TAL CHI
TCLP	Analysis	6020A		1	576084	12/09/20 13:27	FXG	TAL CHI
TCLP	Leach	1311			575406	12/04/20 13:00	CMS	TAL CHI
TCLP	Prep	7470A			575788	12/08/20 08:15	MJG	TAL CHI
TCLP	Analysis	7470A		1	576014	12/09/20 08:00	MJG	TAL CHI
Total/NA	Analysis	9045D		1	576068	12/08/20 13:08	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	575680	12/07/20 15:10	LWN	TAL CHI

Client Sample ID: 3138V-6-B01 (0-1.3)

Lab Sample ID: 500-191785-1

Date Collected: 12/01/20 14:30

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 77.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			574852	12/01/20 17:52	WRE	TAL CHI
Total/NA	Analysis	8260B		1	575521	12/06/20 20:24	PMF	TAL CHI
Total/NA	Prep	3541			575123	12/03/20 08:38	BSO	TAL CHI
Total/NA	Analysis	8270D		1	575504	12/05/20 20:17	AJD	TAL CHI
Total/NA	Prep	3050B			575443	12/04/20 17:58	BDE	TAL CHI
Total/NA	Analysis	6010B		1	575790	12/07/20 11:38	EEN	TAL CHI
Total/NA	Prep	7471B			575625	12/07/20 13:35	MJG	TAL CHI
Total/NA	Analysis	7471B		1	575833	12/08/20 10:26	MJG	TAL CHI
Total/NA	Prep	9010C			575621	12/07/20 10:47	PSP	TAL CHI
Total/NA	Analysis	9012B		1	575693	12/07/20 16:03	PSP	TAL CHI

Client Sample ID: 3138V-6-B02 (0-1.3)

Lab Sample ID: 500-191785-2

Date Collected: 12/01/20 14:10

Matrix: Solid

Date Received: 12/01/20 17:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			575408	12/04/20 13:00	CMS	TAL CHI
SPLP East	Prep	3010A			575697	12/07/20 17:02	BDE	TAL CHI
SPLP East	Analysis	6010B		1	576368	12/10/20 14:36	EEN	TAL CHI
TCLP	Leach	1311			575406	12/04/20 13:00	CMS	TAL CHI
TCLP	Prep	3010A			575694	12/07/20 16:58	BDE	TAL CHI
TCLP	Analysis	6010B		1	575996	12/08/20 17:17	JJB	TAL CHI

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Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Client Sample ID: 3138V-6-B02 (0-1.3)

Lab Sample ID: 500-191785-2

Date Collected: 12/01/20 14:10

Matrix: Solid

Date Received: 12/01/20 17:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			575406	12/04/20 13:00	CMS	TAL CHI
TCLP	Prep	3010A			575694	12/07/20 16:58	BDE	TAL CHI
TCLP	Analysis	6020A		1	576084	12/09/20 13:29	FXG	TAL CHI
TCLP	Leach	1311			575406	12/04/20 13:00	CMS	TAL CHI
TCLP	Prep	7470A			575788	12/08/20 08:15	MJG	TAL CHI
TCLP	Analysis	7470A		1	576014	12/09/20 08:02	MJG	TAL CHI
Total/NA	Analysis	9045D		1	576068	12/08/20 13:11	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	575680	12/07/20 15:10	LWN	TAL CHI

Client Sample ID: 3138V-6-B02 (0-1.3)

Lab Sample ID: 500-191785-2

Date Collected: 12/01/20 14:10

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 76.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			574852	12/01/20 17:52	WRE	TAL CHI
Total/NA	Analysis	8260B		1	575521	12/06/20 20:50	PMF	TAL CHI
Total/NA	Prep	3541			575123	12/03/20 08:38	BSO	TAL CHI
Total/NA	Analysis	8270D		1	575504	12/05/20 19:49	AJD	TAL CHI
Total/NA	Prep	3050B			575443	12/04/20 17:58	BDE	TAL CHI
Total/NA	Analysis	6010B		1	575790	12/07/20 11:41	EEN	TAL CHI
Total/NA	Prep	7471B			575625	12/07/20 13:35	MJG	TAL CHI
Total/NA	Analysis	7471B		1	575833	12/08/20 10:28	MJG	TAL CHI
Total/NA	Prep	9010C			575621	12/07/20 10:47	PSP	TAL CHI
Total/NA	Analysis	9012B		1	575693	12/07/20 16:05	PSP	TAL CHI

Client Sample ID: 3138V-6-B03 (0-1.3)

Lab Sample ID: 500-191785-3

Date Collected: 12/01/20 13:45

Matrix: Solid

Date Received: 12/01/20 17:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			575408	12/04/20 13:00	CMS	TAL CHI
SPLP East	Prep	3010A			575697	12/07/20 17:02	BDE	TAL CHI
SPLP East	Analysis	6010B		1	576368	12/10/20 14:39	EEN	TAL CHI
TCLP	Leach	1311			575406	12/04/20 13:00	CMS	TAL CHI
TCLP	Prep	3010A			575694	12/07/20 16:58	BDE	TAL CHI
TCLP	Analysis	6010B		1	575996	12/08/20 17:20	JJB	TAL CHI
TCLP	Leach	1311			575406	12/04/20 13:00	CMS	TAL CHI
TCLP	Prep	3010A			575694	12/07/20 16:58	BDE	TAL CHI
TCLP	Analysis	6020A		1	576084	12/09/20 13:31	FXG	TAL CHI
TCLP	Leach	1311			575406	12/04/20 13:00	CMS	TAL CHI
TCLP	Prep	7470A			575788	12/08/20 08:15	MJG	TAL CHI
TCLP	Analysis	7470A		1	576014	12/09/20 08:04	MJG	TAL CHI
Total/NA	Analysis	9045D		1	576068	12/08/20 13:14	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	575680	12/07/20 15:10	LWN	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Client Sample ID: 3138V-6-B03 (0-1.3)

Lab Sample ID: 500-191785-3

Date Collected: 12/01/20 13:45

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 78.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			574852	12/01/20 17:52	WRE	TAL CHI
Total/NA	Analysis	8260B		1	575521	12/06/20 21:16	PMF	TAL CHI
Total/NA	Prep	3541			575123	12/03/20 08:38	BSO	TAL CHI
Total/NA	Analysis	8270D		1	575249	12/03/20 21:34	NRJ	TAL CHI
Total/NA	Prep	3050B			575443	12/04/20 17:58	BDE	TAL CHI
Total/NA	Analysis	6010B		1	575790	12/07/20 11:44	EEN	TAL CHI
Total/NA	Prep	7471B			575625	12/07/20 13:35	MJG	TAL CHI
Total/NA	Analysis	7471B		1	575833	12/08/20 10:30	MJG	TAL CHI
Total/NA	Prep	9010C			575621	12/07/20 10:47	PSP	TAL CHI
Total/NA	Analysis	9012B		1	575693	12/07/20 16:07	PSP	TAL CHI

Client Sample ID: 3138V-6-B04 (0-6)

Lab Sample ID: 500-191785-4

Date Collected: 12/01/20 13:10

Matrix: Solid

Date Received: 12/01/20 17:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			575408	12/04/20 13:00	CMS	TAL CHI
SPLP East	Prep	3010A			575697	12/07/20 17:02	BDE	TAL CHI
SPLP East	Analysis	6010B		1	576368	12/10/20 14:42	EEN	TAL CHI
TCLP	Leach	1311			575406	12/04/20 13:00	CMS	TAL CHI
TCLP	Prep	3010A			575694	12/07/20 16:58	BDE	TAL CHI
TCLP	Analysis	6010B		1	575996	12/08/20 17:24	JJB	TAL CHI
TCLP	Leach	1311			575406	12/04/20 13:00	CMS	TAL CHI
TCLP	Prep	3010A			575694	12/07/20 16:58	BDE	TAL CHI
TCLP	Analysis	6020A		1	576084	12/09/20 13:34	FXG	TAL CHI
TCLP	Leach	1311			575406	12/04/20 13:00	CMS	TAL CHI
TCLP	Prep	7470A			575788	12/08/20 08:15	MJG	TAL CHI
TCLP	Analysis	7470A		1	576014	12/09/20 08:16	MJG	TAL CHI
Total/NA	Analysis	9045D		1	576068	12/08/20 13:16	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	575680	12/07/20 15:10	LWN	TAL CHI

Client Sample ID: 3138V-6-B04 (0-6)

Lab Sample ID: 500-191785-4

Date Collected: 12/01/20 13:10

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 78.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			574852	12/01/20 17:52	WRE	TAL CHI
Total/NA	Analysis	8260B		1	575544	12/07/20 12:44	PMF	TAL CHI
Total/NA	Prep	3541			575123	12/03/20 08:38	BSO	TAL CHI
Total/NA	Analysis	8270D		1	575249	12/03/20 22:04	NRJ	TAL CHI
Total/NA	Prep	3050B			575443	12/04/20 17:58	BDE	TAL CHI
Total/NA	Analysis	6010B		1	575790	12/07/20 11:47	EEN	TAL CHI
Total/NA	Prep	7471B			575625	12/07/20 13:35	MJG	TAL CHI
Total/NA	Analysis	7471B		1	575833	12/08/20 10:32	MJG	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Client Sample ID: 3138V-6-B04 (0-6)

Lab Sample ID: 500-191785-4

Date Collected: 12/01/20 13:10

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 78.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	9010C			575621	12/07/20 10:47	PSP	TAL CHI
Total/NA	Analysis	9012B		1	575693	12/07/20 16:20	PSP	TAL CHI

Client Sample ID: 3138V-6-B04 (6-11.3)

Lab Sample ID: 500-191785-5

Date Collected: 12/01/20 13:15

Matrix: Solid

Date Received: 12/01/20 17:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			575408	12/04/20 13:00	CMS	TAL CHI
SPLP East	Prep	3010A			575697	12/07/20 17:02	BDE	TAL CHI
SPLP East	Analysis	6010B		1	576368	12/10/20 14:45	EEN	TAL CHI
TCLP	Leach	1311			575406	12/04/20 13:00	CMS	TAL CHI
TCLP	Prep	3010A			575694	12/07/20 16:58	BDE	TAL CHI
TCLP	Analysis	6010B		1	575996	12/08/20 17:27	JJB	TAL CHI
TCLP	Leach	1311			575406	12/04/20 13:00	CMS	TAL CHI
TCLP	Prep	3010A			575694	12/07/20 16:58	BDE	TAL CHI
TCLP	Analysis	6020A		1	576084	12/09/20 13:36	FXG	TAL CHI
TCLP	Leach	1311			575406	12/04/20 13:00	CMS	TAL CHI
TCLP	Prep	7470A			575788	12/08/20 08:15	MJG	TAL CHI
TCLP	Analysis	7470A		1	576014	12/09/20 08:18	MJG	TAL CHI
Total/NA	Analysis	9045D		1	576068	12/08/20 13:19	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	575680	12/07/20 15:10	LWN	TAL CHI

Client Sample ID: 3138V-6-B04 (6-11.3)

Lab Sample ID: 500-191785-5

Date Collected: 12/01/20 13:15

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 74.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			574852	12/01/20 17:52	WRE	TAL CHI
Total/NA	Analysis	8260B		1	575544	12/07/20 13:10	PMF	TAL CHI
Total/NA	Prep	3541			575123	12/03/20 08:38	BSO	TAL CHI
Total/NA	Analysis	8270D		1	575249	12/03/20 22:34	NRJ	TAL CHI
Total/NA	Prep	3050B			575443	12/04/20 17:58	BDE	TAL CHI
Total/NA	Analysis	6010B		1	575790	12/07/20 11:50	EEN	TAL CHI
Total/NA	Prep	7471B			575625	12/07/20 13:35	MJG	TAL CHI
Total/NA	Analysis	7471B		1	575833	12/08/20 10:34	MJG	TAL CHI
Total/NA	Prep	9010C			575621	12/07/20 10:47	PSP	TAL CHI
Total/NA	Analysis	9012B		1	575693	12/07/20 16:22	PSP	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Client Sample ID: 3138V-6-B05 (0-1.3)

Lab Sample ID: 500-191785-6

Date Collected: 12/01/20 12:25

Matrix: Solid

Date Received: 12/01/20 17:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			575408	12/04/20 13:00	CMS	TAL CHI
SPLP East	Prep	3010A			575697	12/07/20 17:02	BDE	TAL CHI
SPLP East	Analysis	6010B		1	576368	12/10/20 14:48	EEN	TAL CHI
TCLP	Leach	1311			575406	12/04/20 13:00	CMS	TAL CHI
TCLP	Prep	3010A			575694	12/07/20 16:58	BDE	TAL CHI
TCLP	Analysis	6010B		1	575996	12/08/20 17:30	JJB	TAL CHI
TCLP	Leach	1311			575406	12/04/20 13:00	CMS	TAL CHI
TCLP	Prep	3010A			575694	12/07/20 16:58	BDE	TAL CHI
TCLP	Analysis	6020A		1	576084	12/09/20 13:38	FXG	TAL CHI
TCLP	Leach	1311			575406	12/04/20 13:00	CMS	TAL CHI
TCLP	Prep	7470A			575788	12/08/20 08:15	MJG	TAL CHI
TCLP	Analysis	7470A		1	576014	12/09/20 08:20	MJG	TAL CHI
Total/NA	Analysis	9045D		1	576068	12/08/20 14:35	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	575680	12/07/20 15:10	LWN	TAL CHI

Client Sample ID: 3138V-6-B05 (0-1.3)

Lab Sample ID: 500-191785-6

Date Collected: 12/01/20 12:25

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 76.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			574852	12/01/20 17:52	WRE	TAL CHI
Total/NA	Analysis	8260B		1	575756	12/08/20 16:34	JDD	TAL CHI
Total/NA	Prep	3541			575123	12/03/20 08:38	BSO	TAL CHI
Total/NA	Analysis	8270D		1	575504	12/05/20 17:27	AJD	TAL CHI
Total/NA	Prep	3050B			575443	12/04/20 17:58	BDE	TAL CHI
Total/NA	Analysis	6010B		1	575790	12/07/20 12:00	EEN	TAL CHI
Total/NA	Prep	7471B			575625	12/07/20 13:35	MJG	TAL CHI
Total/NA	Analysis	7471B		1	575833	12/08/20 10:36	MJG	TAL CHI
Total/NA	Prep	9010C			575621	12/07/20 10:47	PSP	TAL CHI
Total/NA	Analysis	9012B		1	575693	12/07/20 16:23	PSP	TAL CHI

Client Sample ID: 3138V-6-B05 (0-1.3) Dup

Lab Sample ID: 500-191785-7

Date Collected: 12/01/20 12:30

Matrix: Solid

Date Received: 12/01/20 17:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			575408	12/04/20 13:00	CMS	TAL CHI
SPLP East	Prep	3010A			575697	12/07/20 17:02	BDE	TAL CHI
SPLP East	Analysis	6010B		1	576368	12/10/20 14:51	EEN	TAL CHI
TCLP	Leach	1311			575406	12/04/20 13:00	CMS	TAL CHI
TCLP	Prep	3010A			575694	12/07/20 16:58	BDE	TAL CHI
TCLP	Analysis	6010B		1	575996	12/08/20 17:33	JJB	TAL CHI
TCLP	Leach	1311			575406	12/04/20 13:00	CMS	TAL CHI
TCLP	Prep	3010A			575694	12/07/20 16:58	BDE	TAL CHI
TCLP	Analysis	6020A		1	576084	12/09/20 13:40	FXG	TAL CHI

Eurofins TestAmerica, Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Client Sample ID: 3138V-6-B05 (0-1.3) Dup

Lab Sample ID: 500-191785-7

Date Collected: 12/01/20 12:30

Matrix: Solid

Date Received: 12/01/20 17:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			575406	12/04/20 13:00	CMS	TAL CHI
TCLP	Prep	7470A			575788	12/08/20 08:15	MJG	TAL CHI
TCLP	Analysis	7470A		1	576014	12/09/20 08:26	MJG	TAL CHI
Total/NA	Analysis	9045D		1	576068	12/08/20 14:40	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	575680	12/07/20 15:10	LWN	TAL CHI

Client Sample ID: 3138V-6-B05 (0-1.3) Dup

Lab Sample ID: 500-191785-7

Date Collected: 12/01/20 12:30

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 78.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			574852	12/01/20 17:52	WRE	TAL CHI
Total/NA	Analysis	8260B		1	575544	12/07/20 14:01	PMF	TAL CHI
Total/NA	Prep	3541			575123	12/03/20 08:38	BSO	TAL CHI
Total/NA	Analysis	8270D		1	575249	12/03/20 23:03	NRJ	TAL CHI
Total/NA	Prep	3050B			575443	12/04/20 17:58	BDE	TAL CHI
Total/NA	Analysis	6010B		1	575790	12/07/20 12:03	EEN	TAL CHI
Total/NA	Prep	7471B			575625	12/07/20 13:35	MJG	TAL CHI
Total/NA	Analysis	7471B		1	575833	12/08/20 10:43	MJG	TAL CHI
Total/NA	Prep	9010C			575621	12/07/20 10:47	PSP	TAL CHI
Total/NA	Analysis	9012B		1	575693	12/07/20 16:25	PSP	TAL CHI

Client Sample ID: 3138V-6-B06 (0-1.3)

Lab Sample ID: 500-191785-8

Date Collected: 12/01/20 12:00

Matrix: Solid

Date Received: 12/01/20 17:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			575408	12/04/20 13:00	CMS	TAL CHI
SPLP East	Prep	3010A			575697	12/07/20 17:02	BDE	TAL CHI
SPLP East	Analysis	6010B		1	575870	12/08/20 14:07	EEN	TAL CHI
SPLP East	Leach	1312			575408	12/04/20 13:00	CMS	TAL CHI
SPLP East	Prep	3010A			575697	12/07/20 17:02	BDE	TAL CHI
SPLP East	Analysis	6010B		1	576368	12/10/20 14:54	EEN	TAL CHI
TCLP	Leach	1311			575406	12/04/20 13:00	CMS	TAL CHI
TCLP	Prep	3010A			575694	12/07/20 16:58	BDE	TAL CHI
TCLP	Analysis	6010B		1	575996	12/08/20 17:37	JJB	TAL CHI
TCLP	Leach	1311			575406	12/04/20 13:00	CMS	TAL CHI
TCLP	Prep	3010A			575694	12/07/20 16:58	BDE	TAL CHI
TCLP	Analysis	6020A		1	576084	12/09/20 13:42	FXG	TAL CHI
TCLP	Leach	1311			575406	12/04/20 13:00	CMS	TAL CHI
TCLP	Prep	7470A			575788	12/08/20 08:15	MJG	TAL CHI
TCLP	Analysis	7470A		1	576014	12/09/20 08:28	MJG	TAL CHI
Total/NA	Analysis	9045D		1	576068	12/08/20 14:43	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	575680	12/07/20 15:10	LWN	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Client Sample ID: 3138V-6-B06 (0-1.3)

Lab Sample ID: 500-191785-8

Date Collected: 12/01/20 12:00

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 80.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			574852	12/01/20 17:52	WRE	TAL CHI
Total/NA	Analysis	8260B		1	575544	12/07/20 14:26	PMF	TAL CHI
Total/NA	Prep	3541			575123	12/03/20 08:38	BSO	TAL CHI
Total/NA	Analysis	8270D		1	575249	12/03/20 23:33	NRJ	TAL CHI
Total/NA	Prep	3050B			575443	12/04/20 17:58	BDE	TAL CHI
Total/NA	Analysis	6010B		1	575790	12/07/20 12:06	EEN	TAL CHI
Total/NA	Prep	7471B			575625	12/07/20 13:35	MJG	TAL CHI
Total/NA	Analysis	7471B		1	575833	12/08/20 10:45	MJG	TAL CHI
Total/NA	Prep	9010C			575621	12/07/20 10:47	PSP	TAL CHI
Total/NA	Analysis	9012B		1	575693	12/07/20 16:29	PSP	TAL CHI

Client Sample ID: 3138V-6-B07 (0-1.3)

Lab Sample ID: 500-191785-9

Date Collected: 12/01/20 11:30

Matrix: Solid

Date Received: 12/01/20 17:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			575408	12/04/20 13:00	CMS	TAL CHI
SPLP East	Prep	3010A			575697	12/07/20 17:02	BDE	TAL CHI
SPLP East	Analysis	6010B		1	576368	12/10/20 14:57	EEN	TAL CHI
TCLP	Leach	1311			575406	12/04/20 13:00	CMS	TAL CHI
TCLP	Prep	3010A			575694	12/07/20 16:58	BDE	TAL CHI
TCLP	Analysis	6010B		1	575996	12/08/20 17:40	JJB	TAL CHI
TCLP	Leach	1311			575406	12/04/20 13:00	CMS	TAL CHI
TCLP	Prep	3010A			575694	12/07/20 16:58	BDE	TAL CHI
TCLP	Analysis	6020A		1	576084	12/09/20 13:48	FXG	TAL CHI
TCLP	Leach	1311			575406	12/04/20 13:00	CMS	TAL CHI
TCLP	Prep	7470A			575788	12/08/20 08:15	MJG	TAL CHI
TCLP	Analysis	7470A		1	576014	12/09/20 08:31	MJG	TAL CHI
Total/NA	Analysis	9045D		1	576068	12/08/20 14:45	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	575680	12/07/20 15:10	LWN	TAL CHI

Client Sample ID: 3138V-6-B07 (0-1.3)

Lab Sample ID: 500-191785-9

Date Collected: 12/01/20 11:30

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 82.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			574852	12/01/20 17:52	WRE	TAL CHI
Total/NA	Analysis	8260B		1	575544	12/07/20 14:51	PMF	TAL CHI
Total/NA	Prep	3541			575123	12/03/20 08:38	BSO	TAL CHI
Total/NA	Analysis	8270D		1	575249	12/04/20 00:03	NRJ	TAL CHI
Total/NA	Prep	3050B			575443	12/04/20 17:58	BDE	TAL CHI
Total/NA	Analysis	6010B		1	575790	12/07/20 12:09	EEN	TAL CHI
Total/NA	Prep	3050B			575443	12/04/20 17:58	BDE	TAL CHI
Total/NA	Analysis	6010B		10	575869	12/08/20 12:23	EEN	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Client Sample ID: 3138V-6-B07 (0-1.3)

Lab Sample ID: 500-191785-9

Date Collected: 12/01/20 11:30

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 82.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			575443	12/04/20 17:58	BDE	TAL CHI
Total/NA	Analysis	6010B		10	576069	12/09/20 11:27	EEN	TAL CHI
Total/NA	Prep	7471B			575625	12/07/20 13:35	MJG	TAL CHI
Total/NA	Analysis	7471B		1	575833	12/08/20 10:53	MJG	TAL CHI
Total/NA	Prep	9010C			575621	12/07/20 10:47	PSP	TAL CHI
Total/NA	Analysis	9012B		1	575693	12/07/20 16:31	PSP	TAL CHI

Client Sample ID: 3138V-6-B08 (0-1.3)

Lab Sample ID: 500-191785-10

Date Collected: 12/01/20 11:15

Matrix: Solid

Date Received: 12/01/20 17:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			575408	12/04/20 13:00	CMS	TAL CHI
SPLP East	Prep	3010A			575697	12/07/20 17:02	BDE	TAL CHI
SPLP East	Analysis	6010B		1	576368	12/10/20 15:00	EEN	TAL CHI
TCLP	Leach	1311			575406	12/04/20 13:00	CMS	TAL CHI
TCLP	Prep	3010A			575694	12/07/20 16:58	BDE	TAL CHI
TCLP	Analysis	6010B		1	575996	12/08/20 17:43	JJB	TAL CHI
TCLP	Leach	1311			575406	12/04/20 13:00	CMS	TAL CHI
TCLP	Prep	3010A			575694	12/07/20 16:58	BDE	TAL CHI
TCLP	Analysis	6020A		1	576084	12/09/20 13:50	FXG	TAL CHI
TCLP	Leach	1311			575406	12/04/20 13:00	CMS	TAL CHI
TCLP	Prep	7470A			575788	12/08/20 08:15	MJG	TAL CHI
TCLP	Analysis	7470A		1	576014	12/09/20 08:33	MJG	TAL CHI
Total/NA	Analysis	9045D		1	576068	12/08/20 14:48	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	575680	12/07/20 15:10	LWN	TAL CHI

Client Sample ID: 3138V-6-B08 (0-1.3)

Lab Sample ID: 500-191785-10

Date Collected: 12/01/20 11:15

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 84.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			574852	12/01/20 17:52	WRE	TAL CHI
Total/NA	Analysis	8260B		1	575544	12/07/20 15:17	PMF	TAL CHI
Total/NA	Prep	3541			575123	12/03/20 08:38	BSO	TAL CHI
Total/NA	Analysis	8270D		1	575504	12/05/20 17:55	AJD	TAL CHI
Total/NA	Prep	3050B			575443	12/04/20 17:58	BDE	TAL CHI
Total/NA	Analysis	6010B		1	575790	12/07/20 12:12	EEN	TAL CHI
Total/NA	Prep	3050B			575443	12/04/20 17:58	BDE	TAL CHI
Total/NA	Analysis	6010B		10	575869	12/08/20 12:27	EEN	TAL CHI
Total/NA	Prep	3050B			575443	12/04/20 17:58	BDE	TAL CHI
Total/NA	Analysis	6010B		10	576069	12/09/20 11:30	EEN	TAL CHI
Total/NA	Prep	7471B			575625	12/07/20 13:35	MJG	TAL CHI
Total/NA	Analysis	7471B		1	575833	12/08/20 10:55	MJG	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Client Sample ID: 3138V-6-B08 (0-1.3)

Lab Sample ID: 500-191785-10

Date Collected: 12/01/20 11:15

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 84.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	9010C			575621	12/07/20 10:47	PSP	TAL CHI
Total/NA	Analysis	9012B		1	575693	12/07/20 16:33	PSP	TAL CHI

Client Sample ID: 3138V-6-B09 (0-1.3)

Lab Sample ID: 500-191785-11

Date Collected: 12/01/20 10:55

Matrix: Solid

Date Received: 12/01/20 17:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			575408	12/04/20 13:00	CMS	TAL CHI
SPLP East	Prep	3010A			575697	12/07/20 17:02	BDE	TAL CHI
SPLP East	Analysis	6010B		1	576368	12/10/20 15:13	EEN	TAL CHI
TCLP	Leach	1311			575406	12/04/20 13:00	CMS	TAL CHI
TCLP	Prep	3010A			575694	12/07/20 16:58	BDE	TAL CHI
TCLP	Analysis	6010B		1	575996	12/08/20 20:53	JJB	TAL CHI
TCLP	Leach	1311			575406	12/04/20 13:00	CMS	TAL CHI
TCLP	Prep	3010A			575694	12/07/20 16:58	BDE	TAL CHI
TCLP	Analysis	6020A		1	576084	12/09/20 13:52	FXG	TAL CHI
TCLP	Leach	1311			575406	12/04/20 13:00	CMS	TAL CHI
TCLP	Prep	7470A			575788	12/08/20 08:15	MJG	TAL CHI
TCLP	Analysis	7470A		1	576014	12/09/20 08:35	MJG	TAL CHI
Total/NA	Analysis	9045D		1	576068	12/08/20 14:50	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	575680	12/07/20 15:10	LWN	TAL CHI

Client Sample ID: 3138V-6-B09 (0-1.3)

Lab Sample ID: 500-191785-11

Date Collected: 12/01/20 10:55

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 79.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			574852	12/01/20 17:52	WRE	TAL CHI
Total/NA	Analysis	8260B		1	575544	12/07/20 15:42	PMF	TAL CHI
Total/NA	Prep	3541			575123	12/03/20 08:38	BSO	TAL CHI
Total/NA	Analysis	8270D		1	575504	12/05/20 18:24	AJD	TAL CHI
Total/NA	Prep	3050B			575443	12/04/20 17:58	BDE	TAL CHI
Total/NA	Analysis	6010B		1	575790	12/07/20 12:16	EEN	TAL CHI
Total/NA	Prep	7471B			575625	12/07/20 13:35	MJG	TAL CHI
Total/NA	Analysis	7471B		1	575833	12/08/20 10:58	MJG	TAL CHI
Total/NA	Prep	9010C			575621	12/07/20 10:47	PSP	TAL CHI
Total/NA	Analysis	9012B		1	575693	12/07/20 16:35	PSP	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191785-1

Client Sample ID: 3138V-6-B10 (0-1.3)

Lab Sample ID: 500-191785-12

Date Collected: 12/01/20 10:30

Matrix: Solid

Date Received: 12/01/20 17:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			575408	12/04/20 13:00	CMS	TAL CHI
SPLP East	Prep	3010A			575697	12/07/20 17:02	BDE	TAL CHI
SPLP East	Analysis	6010B		1	575870	12/08/20 14:23	EEN	TAL CHI
SPLP East	Leach	1312			575408	12/04/20 13:00	CMS	TAL CHI
SPLP East	Prep	3010A			575697	12/07/20 17:02	BDE	TAL CHI
SPLP East	Analysis	6010B		1	576368	12/10/20 15:16	EEN	TAL CHI
TCLP	Leach	1311			575406	12/04/20 13:00	CMS	TAL CHI
TCLP	Prep	3010A			575694	12/07/20 16:58	BDE	TAL CHI
TCLP	Analysis	6010B		1	575996	12/08/20 17:53	JJB	TAL CHI
TCLP	Leach	1311			575406	12/04/20 13:00	CMS	TAL CHI
TCLP	Prep	3010A			575694	12/07/20 16:58	BDE	TAL CHI
TCLP	Analysis	6020A		1	576084	12/09/20 13:54	FXG	TAL CHI
TCLP	Leach	1311			575406	12/04/20 13:00	CMS	TAL CHI
TCLP	Prep	7470A			575788	12/08/20 08:15	MJG	TAL CHI
TCLP	Analysis	7470A		1	576014	12/09/20 08:41	MJG	TAL CHI
Total/NA	Analysis	9045D		1	576068	12/08/20 14:53	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	575680	12/07/20 15:10	LWN	TAL CHI

Client Sample ID: 3138V-6-B10 (0-1.3)

Lab Sample ID: 500-191785-12

Date Collected: 12/01/20 10:30

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 78.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			574852	12/01/20 17:52	WRE	TAL CHI
Total/NA	Analysis	8260B		1	575544	12/07/20 16:08	PMF	TAL CHI
Total/NA	Prep	3541			575123	12/03/20 08:38	BSO	TAL CHI
Total/NA	Analysis	8270D		1	575504	12/05/20 18:52	AJD	TAL CHI
Total/NA	Prep	3050B			575443	12/04/20 17:58	BDE	TAL CHI
Total/NA	Analysis	6010B		1	575790	12/07/20 12:19	EEN	TAL CHI
Total/NA	Prep	7471B			575625	12/07/20 13:35	MJG	TAL CHI
Total/NA	Analysis	7471B		1	575833	12/08/20 11:00	MJG	TAL CHI
Total/NA	Prep	9010C			575621	12/07/20 10:47	PSP	TAL CHI
Total/NA	Analysis	9012B		1	575693	12/07/20 16:36	PSP	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 - Lake County - WO 073

Job ID: 500-191785-1

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
- 15

Address: _____

Regulatory Program: DW NPDES RCRA Other:

TAL-8210

Client Contact Company Name: <u>TERRACON</u> Address: <u>192 Pletcher Blvd</u> City/State/Zip: <u>Calendula Heights, NC</u> Phone: <u>630-445-0160</u> Fax: _____ Project Name: <u>11207011N</u> Site: <u>11207011N</u> P O # _____		Project Manager: <u>Rich O'Brien @ Terracon</u> Tel/Email: <u>Matt Weiss @ Terracon, Inc</u>		Site Contact: _____ Lab Contact: _____		Date: <u>12/01/2020</u> Carrier: _____		COC No: _____ of _____ COCs Sampler: <u>D. GPT</u> For Lab Use Only: Walk-in Client: _____ Lab Sampling: _____ Job / SDG No.: <u>500-191785</u>															
Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input checked="" type="checkbox"/> WORKING DAYS TAT if different from Below <input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Filtered Sample (Y/N) Perform MS/MSD (Y/N) <u>100's</u> <u>500's</u> <u>Total 23 Inorganics</u> <u>Tell 23 Inorganics</u> <u>SPUD 23 Inorganics</u>		 500-191785 COC		Sample Specific Notes: _____																	
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)																
1 3/38V-6-B01 (0-1.3)	12/01/20	1430	G	Soil	6	N	N	X	X	X	X												
2 3/38V-6-B02 (0-1.3)	12/01/20	1410	G	Soil	6	N	N	X	X	X	X												
3 3/38V-6-B03 (0-1.3)	12/01/20	1345	G	Soil	6	N	N	X	X	X	X												
4 3/38V-6-B04 (0-6)	12/01/20	1310	G	Soil	6	N	N	X	X	X	X												
5 3/38V-6-B04 (6-11.3)	12/01/20	1315	G	Soil	6	N	N	X	X	X	X												
6 3/38V-6-B05 (0-1.3)	12/01/20	1225	G	Soil	6	N	N	X	X	X	X												
7 3/38V-6-B05 Dup (0-1.3)	12/01/20	1230	G	Soil	6	N	N	X	X	X	X												
8 3/38V-6-B06 (0-1.3)	12/01/20	1200	G	Soil	6	N	N	X	X	X	X												
9 3/38V-6-B07 (0-1.3)	12/01/20	1130	G	Soil	6	N	N	X	X	X	X												
10 3/38V-6-B08 (0-1.3)	12/01/20	1115	G	Soil	6	N	N	X	X	X	X												
11 3/38V-6-B09 (0-1.3)	12/01/20	1055	G	Soil	6	N	N	X	X	X	X												
12 3/38V-6-B10 (0-1.3)	12/01/20	1030	G	Soil	6	N	N	X	X	X	X												
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____						Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample. <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months											
Special Instructions/QC Requirements & Comments: <u>* NO Aluminum</u> <u>* Hold SPUD 23 Inorganics per Terracon Instructions 3.1 to 0.9, 0.6 to -0.1</u>																							
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No				Custody Seal No.: <u>1620</u>				Cooler Temp. (°C): Obs'd: _____ Corr'd: _____				Therm ID No.: _____											
Relinquished by: <u>[Signature]</u>				Company: <u>Terracon</u>				Date/Time: <u>12/01/2020</u>				Received by: <u>[Signature]</u>				Company: <u>ETA</u>				Date/Time: <u>12/1/20 1620</u>			
Relinquished by: <u>[Signature]</u>				Company: <u>ETA</u>				Date/Time: <u>12/1/20/201</u>				Received by: _____				Company: _____				Date/Time: _____			
Relinquished by: _____				Company: _____				Date/Time: _____				Received in Laboratory by: <u>Stephanie Hernandez</u>				Company: <u>ETA-CHI</u>				Date/Time: <u>12/1/20 1701</u>			

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-191785-1

Login Number: 191785

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Hernandez, Stephanie

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	0.9,-0.1 Samples not frozen
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 346-US Rte 41, N/o Rte 173 - S/o Rockland Rd Office Phone Number, if available: _____

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

US Rte 41 (Southbound) IDOT STA 382+50 to 392+50 (ISGS Site 3138V-7)

City: Gurnee State: IL Zip Code: 60031

County: Lake Township: Warren

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

Latitude: 42.39768 Longitude: - 87.93046

(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.): 248

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)]:

Soils from borings B03 and B04 were sampled adjacent to ISGS Site No 3138V-7.
See Exhibits 3 and 4, 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]:

Eurofins TestAmerica, Chicago - Lab Report No J191732-1.

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

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

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

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

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

Matt Weiss
Printed Name:

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

2/20/24
Date:



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

Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3138V-7-B03 (0-1.3)	3138V-7-B04 (0-1.3)
		Chicago	MSAs		Sample Depth (feet)	(0-1.3)	(0-1.3)
					Date Collected	11/30/2020	11/30/2020
Volatile Organic Analytical Parameters							
Acetone	mg/kg	---	---	25		<0.0079	0.012
Semivolatile Organic Analytical Parameters							
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.015	0.029
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.034	0.035
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.052	0.048
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.018	0.029
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.019	0.022
Chrysene	mg/kg	1.2	2.7	88		0.036	0.035
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		<0.0078	0.0097
Fluoranthene	mg/kg	2.7	4.1	3100		0.046	0.046
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.017	0.025
Phenanthrene	mg/kg	1.3	2.5	210		0.022	0.026
Pyrene	mg/kg	1.9	3.0	2300		0.051	0.052
Inorganic Analytical Parameters							
Arsenic	mg/kg	---	13	11.3		6.4	4.6
Barium	mg/kg	---	110	1500		63	27
Cadmium	mg/kg	---	0.6	5.2		0.42	0.37
Chromium, total	mg/kg	---	16.2	21		20	8.8
Lead	mg/kg	---	36	107		59	37
Mercury	mg/kg	---	0.06	0.89		0.027	0.013
Selenium	mg/kg	---	0.48	1.3		<0.34	<0.31
Silver	mg/kg	---	0.55	4.4		<0.074	<0.068
Antimony	mg/kg	---	4.0	5		0.76	0.55
Beryllium	mg/kg	---	0.59	22		0.91	0.35
Calcium	mg/kg	---	9,300	---		75000	71000
Cobalt	mg/kg	---	8.9	20		16	5.4
Copper	mg/kg	---	19.6	2900		30	25
Cyanide	mg/kg	---	0.51	---		<0.14	<0.13
Iron	mg/kg	---	15,900	15000		20000	11000
Magnesium	mg/kg	---	4,820	325000		30000	31000
Manganese	mg/kg	---	636	630		450	290
Nickel	mg/kg	---	18	100		36	14
Potassium	mg/kg	---	1,268	---		2900	920
Sodium	mg/kg	---	130	---		1500	610
Thallium	mg/kg	---	0.32	2.6		<0.29	<0.26
Vanadium	mg/kg	---	25.2	550		25	15
Zinc	mg/kg	---	95	5100		88	56
pH			6.25	9		8.4	8.6

Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3138V-7-B03 (0-1.3)	3138V-7-B04 (0-1.3)
		Chicago	MSAs		Sample Depth (feet)	(0-1.3)	(0-1.3)
					Date Collected	11/30/2020	11/30/2020
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	---	---	---		--	0.31
Magnesium,SPLP	mg/L	---	---	---		--	--
Manganese,SPLP	mg/L	---	---	---		1.3	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	<0.010
Barium,TCLP	mg/L	---	---	---		0.37	0.46
Cadmium,TCLP	mg/L	---	---	---		<0.0020	0.0021
Chromium,TCLP	mg/L	---	---	---		<0.010	<0.010
Lead,TCLP	mg/L	---	---	---		<0.0075	0.012
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	---	---	---		520	450
Cobalt,TCLP	mg/L	---	---	---		<0.010	0.021
Copper,TCLP	mg/L	---	---	---		<0.010	<0.010
Cyanide,TCLP	mg/L	---	---	---		--	--
Iron,TCLP	mg/L	---	---	---		<0.20	<0.20
Magnesium,TCLP	mg/L	---	---	---		27	56
Manganese,TCLP	mg/L	---	---	---		0.83	3.7
Nickel,TCLP	mg/L	---	---	---		0.011	0.029
Potassium,TCLP	mg/L	---	---	---		1.0	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	0.053

ANALYTICAL REPORT

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

Laboratory Job ID: 500-191732-1
Client Project/Site: IDOT - Lake County - WO 073

For:

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

Attn: Mr. Matthew Weiss



Authorized for release by:
12/9/2020 2:47:47 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 - Lake County - WO 073

Job ID: 500-191732-1

Job ID: 500-191732-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-191732-1

Receipt

The samples were received on 11/30/2020 5:15 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.0° C and 1.7° C.

GC/MS VOA

Method 8260B: The laboratory control sample (LCS) for 575078 recovered outside control limits for the following analytes: Carbon tetrachloride. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported. 3138V-7-B01 (0-1.3) (500-191732-1), 3138V-7-B02 (0-6) (500-191732-2) and 3138V-7-B02 (6-11.3) (500-191732-3)

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

GC/MS Semi VOA

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

Metals

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

General Chemistry

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

Organic Prep

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

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191732-1

Client Sample ID: 3138V-7-B01 (0-1.3)

Lab Sample ID: 500-191732-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0091	J	0.018	0.0078	mg/Kg	1	✳	8260B	Total/NA
Benzo[a]anthracene	0.0069	J	0.043	0.0058	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.0087	J	0.043	0.0084	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.011	J	0.043	0.0093	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.015	J	0.043	0.0080	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.0068	J	0.043	0.0060	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.014	J	0.043	0.0086	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.65	J	1.2	0.23	mg/Kg	1	✳	6010B	Total/NA
Arsenic	8.9		0.60	0.21	mg/Kg	1	✳	6010B	Total/NA
Barium	81		0.60	0.069	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.88		0.24	0.056	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.28	B	0.12	0.022	mg/Kg	1	✳	6010B	Total/NA
Chromium	19		0.60	0.30	mg/Kg	1	✳	6010B	Total/NA
Cobalt	18		0.30	0.079	mg/Kg	1	✳	6010B	Total/NA
Copper	22		0.60	0.17	mg/Kg	1	✳	6010B	Total/NA
Iron	23000		12	6.3	mg/Kg	1	✳	6010B	Total/NA
Lead	20		0.30	0.14	mg/Kg	1	✳	6010B	Total/NA
Magnesium	8300		6.0	3.0	mg/Kg	1	✳	6010B	Total/NA
Calcium	9200		12	2.0	mg/Kg	1	✳	6010B	Total/NA
Manganese	800		0.60	0.087	mg/Kg	1	✳	6010B	Total/NA
Nickel	41		0.60	0.18	mg/Kg	1	✳	6010B	Total/NA
Vanadium	32		0.30	0.071	mg/Kg	1	✳	6010B	Total/NA
Zinc	57		1.2	0.53	mg/Kg	1	✳	6010B	Total/NA
Potassium	1900		30	11	mg/Kg	1	✳	6010B	Total/NA
Sodium	1900		60	8.9	mg/Kg	1	✳	6010B	Total/NA
Barium	0.31	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	220		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	92		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	3.1		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.017	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.91	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.3		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.027		0.020	0.0066	mg/Kg	1	✳	7471B	Total/NA
pH	8.0		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3138V-7-B02 (0-6)

Lab Sample ID: 500-191732-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.71	J	1.1	0.21	mg/Kg	1	✳	6010B	Total/NA
Arsenic	7.5		0.55	0.19	mg/Kg	1	✳	6010B	Total/NA
Barium	36		0.55	0.063	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.90		0.22	0.051	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.30	B	0.11	0.020	mg/Kg	1	✳	6010B	Total/NA
Chromium	20		0.55	0.27	mg/Kg	1	✳	6010B	Total/NA
Cobalt	12		0.27	0.072	mg/Kg	1	✳	6010B	Total/NA
Copper	21		0.55	0.15	mg/Kg	1	✳	6010B	Total/NA
Iron	20000		11	5.7	mg/Kg	1	✳	6010B	Total/NA
Lead	12		0.27	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	33000		5.5	2.7	mg/Kg	1	✳	6010B	Total/NA
Calcium	82000		55	9.3	mg/Kg	5	✳	6010B	Total/NA
Manganese	340		0.55	0.080	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 - Lake County - WO 073

Job ID: 500-191732-1

Client Sample ID: 3138V-7-B02 (0-6) (Continued)

Lab Sample ID: 500-191732-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	35		0.55	0.16	mg/Kg	1	☼	6010B	Total/NA
Vanadium	25		0.27	0.065	mg/Kg	1	☼	6010B	Total/NA
Zinc	57		1.1	0.48	mg/Kg	1	☼	6010B	Total/NA
Potassium	3800		27	9.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	650		55	8.1	mg/Kg	1	☼	6010B	Total/NA
Barium	0.35	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	590		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	38		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.6		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.010	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.1		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.99		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.013	J	0.020	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	7.9		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3138V-7-B02 (6-11.3)

Lab Sample ID: 500-191732-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	0.019	J	0.041	0.0081	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.016	J	0.041	0.0090	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.017	J	0.041	0.013	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.016	J	0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.88	J	1.2	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.7		0.59	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	91		0.59	0.068	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.99		0.24	0.055	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.31	B	0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Chromium	21		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	19		0.30	0.078	mg/Kg	1	☼	6010B	Total/NA
Copper	20		0.59	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	22000		12	6.2	mg/Kg	1	☼	6010B	Total/NA
Lead	21		0.30	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	15000		5.9	2.9	mg/Kg	1	☼	6010B	Total/NA
Calcium	22000		12	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	900		0.59	0.086	mg/Kg	1	☼	6010B	Total/NA
Nickel	36		0.59	0.17	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.34	J	0.59	0.30	mg/Kg	1	☼	6010B	Total/NA
Vanadium	28		0.30	0.070	mg/Kg	1	☼	6010B	Total/NA
Zinc	64		1.2	0.52	mg/Kg	1	☼	6010B	Total/NA
Potassium	2700		30	11	mg/Kg	1	☼	6010B	Total/NA
Sodium	1100		59	8.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.39	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	370		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	110		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	3.1		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.2	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.6		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.026		0.019	0.0063	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.16	J	0.28	0.14	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 - Lake County - WO 073

Job ID: 500-191732-1

Client Sample ID: 3138V-7-B03 (0-1.3)

Lab Sample ID: 500-191732-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.015	J	0.040	0.0054	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.034	J	0.040	0.0078	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.052		0.040	0.0087	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.018	J	0.040	0.013	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.019	J	0.040	0.012	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.036	J	0.040	0.011	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.046		0.040	0.0075	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.017	J	0.040	0.010	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.022	J	0.040	0.0056	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.051		0.040	0.0080	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.76	J	1.2	0.22	mg/Kg	1	✳	6010B	Total/NA
Arsenic	6.4		0.58	0.20	mg/Kg	1	✳	6010B	Total/NA
Barium	63		0.58	0.066	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.91		0.23	0.054	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.42	B	0.12	0.021	mg/Kg	1	✳	6010B	Total/NA
Chromium	20		0.58	0.28	mg/Kg	1	✳	6010B	Total/NA
Cobalt	16		0.29	0.075	mg/Kg	1	✳	6010B	Total/NA
Copper	30		0.58	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	20000		12	6.0	mg/Kg	1	✳	6010B	Total/NA
Lead	59		0.29	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	30000		5.8	2.9	mg/Kg	1	✳	6010B	Total/NA
Calcium	75000		58	9.8	mg/Kg	5	✳	6010B	Total/NA
Manganese	450		0.58	0.083	mg/Kg	1	✳	6010B	Total/NA
Nickel	36		0.58	0.17	mg/Kg	1	✳	6010B	Total/NA
Vanadium	25		0.29	0.068	mg/Kg	1	✳	6010B	Total/NA
Zinc	88		1.2	0.51	mg/Kg	1	✳	6010B	Total/NA
Potassium	2900		29	10	mg/Kg	1	✳	6010B	Total/NA
Sodium	1500		58	8.5	mg/Kg	1	✳	6010B	Total/NA
Barium	0.37	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	520		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	27		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.83		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.0	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.3		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.027		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: 3138V-7-B04 (0-1.3)

Lab Sample ID: 500-191732-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.012	J	0.018	0.0077	mg/Kg	1	✳	8260B	Total/NA
Benzo[a]anthracene	0.029	J	0.038	0.0051	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.035	J	0.038	0.0073	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.048		0.038	0.0082	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.029	J	0.038	0.012	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.022	J	0.038	0.011	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.035	J	0.038	0.010	mg/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	0.0097	J	0.038	0.0073	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.046		0.038	0.0070	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.025	J	0.038	0.0098	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 - Lake County - WO 073

Job ID: 500-191732-1

Client Sample ID: 3138V-7-B04 (0-1.3) (Continued)

Lab Sample ID: 500-191732-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Phenanthrene	0.026	J	0.038	0.0053	mg/Kg	1	✳		8270D	Total/NA
Pyrene	0.052		0.038	0.0075	mg/Kg	1	✳		8270D	Total/NA
Antimony	0.55	J	1.1	0.21	mg/Kg	1	✳		6010B	Total/NA
Arsenic	4.6		0.53	0.18	mg/Kg	1	✳		6010B	Total/NA
Barium	27		0.53	0.060	mg/Kg	1	✳		6010B	Total/NA
Beryllium	0.35		0.21	0.049	mg/Kg	1	✳		6010B	Total/NA
Cadmium	0.37	B	0.11	0.019	mg/Kg	1	✳		6010B	Total/NA
Chromium	8.8		0.53	0.26	mg/Kg	1	✳		6010B	Total/NA
Cobalt	5.4		0.26	0.069	mg/Kg	1	✳		6010B	Total/NA
Copper	25		0.53	0.15	mg/Kg	1	✳		6010B	Total/NA
Iron	11000		11	5.5	mg/Kg	1	✳		6010B	Total/NA
Lead	37		0.26	0.12	mg/Kg	1	✳		6010B	Total/NA
Magnesium	31000		5.3	2.6	mg/Kg	1	✳		6010B	Total/NA
Calcium	71000		53	9.0	mg/Kg	5	✳		6010B	Total/NA
Manganese	290		0.53	0.077	mg/Kg	1	✳		6010B	Total/NA
Nickel	14		0.53	0.15	mg/Kg	1	✳		6010B	Total/NA
Vanadium	15		0.26	0.062	mg/Kg	1	✳		6010B	Total/NA
Zinc	56		1.1	0.46	mg/Kg	1	✳		6010B	Total/NA
Potassium	920		26	9.4	mg/Kg	1	✳		6010B	Total/NA
Sodium	610		53	7.8	mg/Kg	1	✳		6010B	Total/NA
Barium	0.46	J	0.50	0.050	mg/L	1			6010B	TCLP
Cadmium	0.0021	J	0.0050	0.0020	mg/L	1			6010B	TCLP
Calcium	450		5.0	0.50	mg/L	1			6010B	TCLP
Cobalt	0.021	J	0.025	0.010	mg/L	1			6010B	TCLP
Lead	0.012		0.0075	0.0075	mg/L	1			6010B	TCLP
Magnesium	56		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	3.7		0.025	0.010	mg/L	1			6010B	TCLP
Nickel	0.029		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	1.6	J	2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.053	J B	0.50	0.020	mg/L	1			6010B	TCLP
Lead	0.31		0.0075	0.0075	mg/L	1			6010B	SPLP East
Manganese	0.83		0.025	0.010	mg/L	1			6010B	SPLP East
Mercury	0.013	J	0.018	0.0060	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

Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191732-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6010B	SPLP Metals	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9012B	Cyanide, Total and/or Amenable	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
1311	TCLP Extraction	SW846	TAL CHI
1312	SPLP Extraction	SW846	TAL CHI
3010A	Preparation, Total Metals	SW846	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL CHI
7471B	Preparation, Mercury	SW846	TAL CHI
9010C	Cyanide, Distillation	SW846	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191732-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-191732-1	3138V-7-B01 (0-1.3)	Solid	11/30/20 12:45	11/30/20 17:15	
500-191732-2	3138V-7-B02 (0-6)	Solid	11/30/20 13:20	11/30/20 17:15	
500-191732-3	3138V-7-B02 (6-11.3)	Solid	11/30/20 13:30	11/30/20 17:15	
500-191732-4	3138V-7-B03 (0-1.3)	Solid	11/30/20 13:50	11/30/20 17:15	
500-191732-5	3138V-7-B04 (0-1.3)	Solid	11/30/20 14:20	11/30/20 17:15	

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191732-1

Client Sample ID: 3138V-7-B01 (0-1.3)

Lab Sample ID: 500-191732-1

Date Collected: 11/30/20 12:45

Matrix: Solid

Date Received: 11/30/20 17:15

Percent Solids: 76.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0091	J	0.018	0.0078	mg/Kg	☼	12/01/20 17:52	12/03/20 15:27	1
Benzene	<0.00046		0.0018	0.00046	mg/Kg	☼	12/01/20 17:52	12/03/20 15:27	1
Bromodichloromethane	<0.00037		0.0018	0.00037	mg/Kg	☼	12/01/20 17:52	12/03/20 15:27	1
Bromoform	<0.00053		0.0018	0.00053	mg/Kg	☼	12/01/20 17:52	12/03/20 15:27	1
Bromomethane	<0.0017		0.0045	0.0017	mg/Kg	☼	12/01/20 17:52	12/03/20 15:27	1
2-Butanone (MEK)	<0.0020		0.0045	0.0020	mg/Kg	☼	12/01/20 17:52	12/03/20 15:27	1
Carbon disulfide	<0.00094		0.0045	0.00094	mg/Kg	☼	12/01/20 17:52	12/03/20 15:27	1
Carbon tetrachloride	<0.00052	*	0.0018	0.00052	mg/Kg	☼	12/01/20 17:52	12/03/20 15:27	1
Chlorobenzene	<0.00066		0.0018	0.00066	mg/Kg	☼	12/01/20 17:52	12/03/20 15:27	1
Chloroethane	<0.0013		0.0045	0.0013	mg/Kg	☼	12/01/20 17:52	12/03/20 15:27	1
Chloroform	<0.00062		0.0018	0.00062	mg/Kg	☼	12/01/20 17:52	12/03/20 15:27	1
Chloromethane	<0.0018		0.0045	0.0018	mg/Kg	☼	12/01/20 17:52	12/03/20 15:27	1
cis-1,2-Dichloroethene	<0.00050		0.0018	0.00050	mg/Kg	☼	12/01/20 17:52	12/03/20 15:27	1
cis-1,3-Dichloropropene	<0.00054		0.0018	0.00054	mg/Kg	☼	12/01/20 17:52	12/03/20 15:27	1
Dibromochloromethane	<0.00059		0.0018	0.00059	mg/Kg	☼	12/01/20 17:52	12/03/20 15:27	1
1,1-Dichloroethane	<0.00062		0.0018	0.00062	mg/Kg	☼	12/01/20 17:52	12/03/20 15:27	1
1,2-Dichloroethane	<0.0014		0.0045	0.0014	mg/Kg	☼	12/01/20 17:52	12/03/20 15:27	1
1,1-Dichloroethene	<0.00062		0.0018	0.00062	mg/Kg	☼	12/01/20 17:52	12/03/20 15:27	1
1,2-Dichloropropene	<0.00047		0.0018	0.00047	mg/Kg	☼	12/01/20 17:52	12/03/20 15:27	1
1,3-Dichloropropene, Total	<0.00063		0.0018	0.00063	mg/Kg	☼	12/01/20 17:52	12/03/20 15:27	1
Ethylbenzene	<0.00086		0.0018	0.00086	mg/Kg	☼	12/01/20 17:52	12/03/20 15:27	1
2-Hexanone	<0.0014		0.0045	0.0014	mg/Kg	☼	12/01/20 17:52	12/03/20 15:27	1
Methylene Chloride	<0.0018		0.0045	0.0018	mg/Kg	☼	12/01/20 17:52	12/03/20 15:27	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0045	0.0013	mg/Kg	☼	12/01/20 17:52	12/03/20 15:27	1
Methyl tert-butyl ether	<0.00053		0.0018	0.00053	mg/Kg	☼	12/01/20 17:52	12/03/20 15:27	1
Styrene	<0.00054		0.0018	0.00054	mg/Kg	☼	12/01/20 17:52	12/03/20 15:27	1
1,1,2,2-Tetrachloroethane	<0.00058		0.0018	0.00058	mg/Kg	☼	12/01/20 17:52	12/03/20 15:27	1
Tetrachloroethene	<0.00061		0.0018	0.00061	mg/Kg	☼	12/01/20 17:52	12/03/20 15:27	1
Toluene	<0.00045		0.0018	0.00045	mg/Kg	☼	12/01/20 17:52	12/03/20 15:27	1
trans-1,2-Dichloroethene	<0.00080		0.0018	0.00080	mg/Kg	☼	12/01/20 17:52	12/03/20 15:27	1
trans-1,3-Dichloropropene	<0.00063		0.0018	0.00063	mg/Kg	☼	12/01/20 17:52	12/03/20 15:27	1
1,1,1-Trichloroethane	<0.00060		0.0018	0.00060	mg/Kg	☼	12/01/20 17:52	12/03/20 15:27	1
1,1,2-Trichloroethane	<0.00077		0.0018	0.00077	mg/Kg	☼	12/01/20 17:52	12/03/20 15:27	1
Trichloroethene	<0.00061		0.0018	0.00061	mg/Kg	☼	12/01/20 17:52	12/03/20 15:27	1
Vinyl acetate	<0.0016		0.0045	0.0016	mg/Kg	☼	12/01/20 17:52	12/03/20 15:27	1
Vinyl chloride	<0.00080		0.0018	0.00080	mg/Kg	☼	12/01/20 17:52	12/03/20 15:27	1
Xylenes, Total	<0.00058		0.0036	0.00058	mg/Kg	☼	12/01/20 17:52	12/03/20 15:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		75 - 131	12/01/20 17:52	12/03/20 15:27	1
Dibromofluoromethane	106		75 - 126	12/01/20 17:52	12/03/20 15:27	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	12/01/20 17:52	12/03/20 15:27	1
Toluene-d8 (Surr)	87		75 - 124	12/01/20 17:52	12/03/20 15:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0078		0.043	0.0078	mg/Kg	☼	12/02/20 17:54	12/03/20 13:37	1
Acenaphthylene	<0.0057		0.043	0.0057	mg/Kg	☼	12/02/20 17:54	12/03/20 13:37	1
Anthracene	<0.0072		0.043	0.0072	mg/Kg	☼	12/02/20 17:54	12/03/20 13:37	1
Benzo[a]anthracene	0.0069	J	0.043	0.0058	mg/Kg	☼	12/02/20 17:54	12/03/20 13:37	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191732-1

Client Sample ID: 3138V-7-B01 (0-1.3)

Lab Sample ID: 500-191732-1

Date Collected: 11/30/20 12:45

Matrix: Solid

Date Received: 11/30/20 17:15

Percent Solids: 76.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.0087	J	0.043	0.0084	mg/Kg	☼	12/02/20 17:54	12/03/20 13:37	1
Benzo[b]fluoranthene	0.011	J	0.043	0.0093	mg/Kg	☼	12/02/20 17:54	12/03/20 13:37	1
Benzo[g,h,i]perylene	<0.014		0.043	0.014	mg/Kg	☼	12/02/20 17:54	12/03/20 13:37	1
Benzo[k]fluoranthene	<0.013		0.043	0.013	mg/Kg	☼	12/02/20 17:54	12/03/20 13:37	1
Bis(2-chloroethoxy)methane	<0.044		0.22	0.044	mg/Kg	☼	12/02/20 17:54	12/03/20 13:37	1
Bis(2-chloroethyl)ether	<0.065		0.22	0.065	mg/Kg	☼	12/02/20 17:54	12/03/20 13:37	1
Bis(2-ethylhexyl) phthalate	<0.079		0.22	0.079	mg/Kg	☼	12/02/20 17:54	12/03/20 13:37	1
4-Bromophenyl phenyl ether	<0.057		0.22	0.057	mg/Kg	☼	12/02/20 17:54	12/03/20 13:37	1
Butyl benzyl phthalate	<0.082		0.22	0.082	mg/Kg	☼	12/02/20 17:54	12/03/20 13:37	1
Carbazole	<0.11		0.22	0.11	mg/Kg	☼	12/02/20 17:54	12/03/20 13:37	1
4-Chloroaniline	<0.20		0.87	0.20	mg/Kg	☼	12/02/20 17:54	12/03/20 13:37	1
4-Chloro-3-methylphenol	<0.15		0.43	0.15	mg/Kg	☼	12/02/20 17:54	12/03/20 13:37	1
2-Chloronaphthalene	<0.048		0.22	0.048	mg/Kg	☼	12/02/20 17:54	12/03/20 13:37	1
2-Chlorophenol	<0.074		0.22	0.074	mg/Kg	☼	12/02/20 17:54	12/03/20 13:37	1
4-Chlorophenyl phenyl ether	<0.051		0.22	0.051	mg/Kg	☼	12/02/20 17:54	12/03/20 13:37	1
Chrysene	<0.012		0.043	0.012	mg/Kg	☼	12/02/20 17:54	12/03/20 13:37	1
Dibenz(a,h)anthracene	<0.0084		0.043	0.0084	mg/Kg	☼	12/02/20 17:54	12/03/20 13:37	1
Dibenzofuran	<0.051		0.22	0.051	mg/Kg	☼	12/02/20 17:54	12/03/20 13:37	1
1,2-Dichlorobenzene	<0.052		0.22	0.052	mg/Kg	☼	12/02/20 17:54	12/03/20 13:37	1
1,3-Dichlorobenzene	<0.049		0.22	0.049	mg/Kg	☼	12/02/20 17:54	12/03/20 13:37	1
1,4-Dichlorobenzene	<0.056		0.22	0.056	mg/Kg	☼	12/02/20 17:54	12/03/20 13:37	1
3,3'-Dichlorobenzidine	<0.061		0.22	0.061	mg/Kg	☼	12/02/20 17:54	12/03/20 13:37	1
2,4-Dichlorophenol	<0.10		0.43	0.10	mg/Kg	☼	12/02/20 17:54	12/03/20 13:37	1
Diethyl phthalate	<0.073		0.22	0.073	mg/Kg	☼	12/02/20 17:54	12/03/20 13:37	1
2,4-Dimethylphenol	<0.16		0.43	0.16	mg/Kg	☼	12/02/20 17:54	12/03/20 13:37	1
Dimethyl phthalate	<0.057		0.22	0.057	mg/Kg	☼	12/02/20 17:54	12/03/20 13:37	1
Di-n-butyl phthalate	<0.066		0.22	0.066	mg/Kg	☼	12/02/20 17:54	12/03/20 13:37	1
4,6-Dinitro-2-methylphenol	<0.35		0.87	0.35	mg/Kg	☼	12/02/20 17:54	12/03/20 13:37	1
2,4-Dinitrophenol	<0.76		0.87	0.76	mg/Kg	☼	12/02/20 17:54	12/03/20 13:37	1
2,4-Dinitrotoluene	<0.069		0.22	0.069	mg/Kg	☼	12/02/20 17:54	12/03/20 13:37	1
2,6-Dinitrotoluene	<0.085		0.22	0.085	mg/Kg	☼	12/02/20 17:54	12/03/20 13:37	1
Di-n-octyl phthalate	<0.071		0.22	0.071	mg/Kg	☼	12/02/20 17:54	12/03/20 13:37	1
Fluoranthene	0.015	J	0.043	0.0080	mg/Kg	☼	12/02/20 17:54	12/03/20 13:37	1
Fluorene	<0.0061		0.043	0.0061	mg/Kg	☼	12/02/20 17:54	12/03/20 13:37	1
Hexachlorobenzene	<0.010		0.087	0.010	mg/Kg	☼	12/02/20 17:54	12/03/20 13:37	1
Hexachlorobutadiene	<0.068		0.22	0.068	mg/Kg	☼	12/02/20 17:54	12/03/20 13:37	1
Hexachlorocyclopentadiene	<0.25		0.87	0.25	mg/Kg	☼	12/02/20 17:54	12/03/20 13:37	1
Hexachloroethane	<0.066		0.22	0.066	mg/Kg	☼	12/02/20 17:54	12/03/20 13:37	1
Indeno[1,2,3-cd]pyrene	<0.011		0.043	0.011	mg/Kg	☼	12/02/20 17:54	12/03/20 13:37	1
Isophorone	<0.049		0.22	0.049	mg/Kg	☼	12/02/20 17:54	12/03/20 13:37	1
2-Methylnaphthalene	<0.0080		0.087	0.0080	mg/Kg	☼	12/02/20 17:54	12/03/20 13:37	1
2-Methylphenol	<0.069		0.22	0.069	mg/Kg	☼	12/02/20 17:54	12/03/20 13:37	1
3 & 4 Methylphenol	<0.072		0.22	0.072	mg/Kg	☼	12/02/20 17:54	12/03/20 13:37	1
Naphthalene	<0.0067		0.043	0.0067	mg/Kg	☼	12/02/20 17:54	12/03/20 13:37	1
2-Nitroaniline	<0.058		0.22	0.058	mg/Kg	☼	12/02/20 17:54	12/03/20 13:37	1
3-Nitroaniline	<0.13		0.43	0.13	mg/Kg	☼	12/02/20 17:54	12/03/20 13:37	1
4-Nitroaniline	<0.18		0.43	0.18	mg/Kg	☼	12/02/20 17:54	12/03/20 13:37	1
Nitrobenzene	<0.011		0.043	0.011	mg/Kg	☼	12/02/20 17:54	12/03/20 13:37	1
2-Nitrophenol	<0.10		0.43	0.10	mg/Kg	☼	12/02/20 17:54	12/03/20 13:37	1

Euofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191732-1

Client Sample ID: 3138V-7-B01 (0-1.3)

Lab Sample ID: 500-191732-1

Date Collected: 11/30/20 12:45

Matrix: Solid

Date Received: 11/30/20 17:15

Percent Solids: 76.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.41		0.87	0.41	mg/Kg	☼	12/02/20 17:54	12/03/20 13:37	1
N-Nitrosodi-n-propylamine	<0.053		0.087	0.053	mg/Kg	☼	12/02/20 17:54	12/03/20 13:37	1
N-Nitrosodiphenylamine	<0.051		0.22	0.051	mg/Kg	☼	12/02/20 17:54	12/03/20 13:37	1
2,2'-oxybis[1-chloropropane]	<0.050		0.22	0.050	mg/Kg	☼	12/02/20 17:54	12/03/20 13:37	1
Pentachlorophenol	<0.69		0.87	0.69	mg/Kg	☼	12/02/20 17:54	12/03/20 13:37	1
Phenanthrene	0.0068	J	0.043	0.0060	mg/Kg	☼	12/02/20 17:54	12/03/20 13:37	1
Phenol	<0.096		0.22	0.096	mg/Kg	☼	12/02/20 17:54	12/03/20 13:37	1
Pyrene	0.014	J	0.043	0.0086	mg/Kg	☼	12/02/20 17:54	12/03/20 13:37	1
1,2,4-Trichlorobenzene	<0.047		0.22	0.047	mg/Kg	☼	12/02/20 17:54	12/03/20 13:37	1
2,4,5-Trichlorophenol	<0.099		0.43	0.099	mg/Kg	☼	12/02/20 17:54	12/03/20 13:37	1
2,4,6-Trichlorophenol	<0.15		0.43	0.15	mg/Kg	☼	12/02/20 17:54	12/03/20 13:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	70		43 - 145				12/02/20 17:54	12/03/20 13:37	1
2-Fluorophenol	84		31 - 166				12/02/20 17:54	12/03/20 13:37	1
Nitrobenzene-d5	77		37 - 147				12/02/20 17:54	12/03/20 13:37	1
Phenol-d5	87		30 - 153				12/02/20 17:54	12/03/20 13:37	1
Terphenyl-d14	86		42 - 157				12/02/20 17:54	12/03/20 13:37	1
2,4,6-Tribromophenol	67		31 - 143				12/02/20 17:54	12/03/20 13:37	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.65	J	1.2	0.23	mg/Kg	☼	12/03/20 17:53	12/04/20 11:14	1
Arsenic	8.9		0.60	0.21	mg/Kg	☼	12/03/20 17:53	12/04/20 11:14	1
Barium	81		0.60	0.069	mg/Kg	☼	12/03/20 17:53	12/04/20 11:14	1
Beryllium	0.88		0.24	0.056	mg/Kg	☼	12/03/20 17:53	12/04/20 11:14	1
Cadmium	0.28	B	0.12	0.022	mg/Kg	☼	12/03/20 17:53	12/04/20 11:14	1
Chromium	19		0.60	0.30	mg/Kg	☼	12/03/20 17:53	12/04/20 11:14	1
Cobalt	18		0.30	0.079	mg/Kg	☼	12/03/20 17:53	12/04/20 11:14	1
Copper	22		0.60	0.17	mg/Kg	☼	12/03/20 17:53	12/04/20 11:14	1
Iron	23000		12	6.3	mg/Kg	☼	12/03/20 17:53	12/04/20 11:14	1
Lead	20		0.30	0.14	mg/Kg	☼	12/03/20 17:53	12/04/20 11:14	1
Magnesium	8300		6.0	3.0	mg/Kg	☼	12/03/20 17:53	12/04/20 11:14	1
Calcium	9200		12	2.0	mg/Kg	☼	12/03/20 17:53	12/04/20 11:14	1
Manganese	800		0.60	0.087	mg/Kg	☼	12/03/20 17:53	12/04/20 11:14	1
Nickel	41		0.60	0.18	mg/Kg	☼	12/03/20 17:53	12/04/20 11:14	1
Selenium	<0.35		0.60	0.35	mg/Kg	☼	12/03/20 17:53	12/04/20 11:14	1
Silver	<0.078		0.30	0.078	mg/Kg	☼	12/03/20 17:53	12/04/20 11:14	1
Thallium	<0.30		0.60	0.30	mg/Kg	☼	12/03/20 17:53	12/04/20 11:14	1
Vanadium	32		0.30	0.071	mg/Kg	☼	12/03/20 17:53	12/04/20 11:14	1
Zinc	57		1.2	0.53	mg/Kg	☼	12/03/20 17:53	12/04/20 11:14	1
Potassium	1900		30	11	mg/Kg	☼	12/03/20 17:53	12/04/20 11:14	1
Sodium	1900		60	8.9	mg/Kg	☼	12/03/20 17:53	12/04/20 11:14	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		12/04/20 16:44	12/07/20 11:54	1
Barium	0.31	J	0.50	0.050	mg/L		12/04/20 16:44	12/07/20 11:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/04/20 16:44	12/07/20 11:54	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		12/04/20 16:44	12/07/20 11:54	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191732-1

Client Sample ID: 3138V-7-B01 (0-1.3)

Lab Sample ID: 500-191732-1

Date Collected: 11/30/20 12:45

Matrix: Solid

Date Received: 11/30/20 17:15

Percent Solids: 76.6

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		12/04/20 16:44	12/07/20 11:54	1
Chromium	<0.010		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 11:54	1
Cobalt	<0.010		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 11:54	1
Copper	<0.010		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 11:54	1
Iron	<0.20		0.40	0.20	mg/L		12/04/20 16:44	12/07/20 11:54	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/04/20 16:44	12/07/20 11:54	1
Magnesium	92		2.5	0.50	mg/L		12/04/20 16:44	12/07/20 11:54	1
Manganese	3.1		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 11:54	1
Nickel	0.017	J	0.025	0.010	mg/L		12/04/20 16:44	12/07/20 11:54	1
Potassium	0.91	J	2.5	0.50	mg/L		12/04/20 16:44	12/07/20 11:54	1
Selenium	<0.020		0.050	0.020	mg/L		12/04/20 16:44	12/07/20 11:54	1
Silver	<0.010		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 11:54	1
Vanadium	<0.010		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 11:54	1
Zinc	<0.020		0.50	0.020	mg/L		12/04/20 16:44	12/07/20 11:54	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		12/04/20 16:45	12/07/20 10:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/04/20 16:44	12/07/20 15:31	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/04/20 16:44	12/07/20 15:31	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		12/07/20 09:05	12/08/20 07:52	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.020	0.0066	mg/Kg	☼	12/04/20 13:25	12/07/20 10:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.16		0.33	0.16	mg/Kg	☼	12/04/20 14:54	12/04/20 17:03	1
pH	8.0		0.2	0.2	SU			12/03/20 18:09	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191732-1

Client Sample ID: 3138V-7-B02 (0-6)

Lab Sample ID: 500-191732-2

Date Collected: 11/30/20 13:20

Matrix: Solid

Date Received: 11/30/20 17:15

Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0079		0.018	0.0079	mg/Kg	✳	12/01/20 17:52	12/03/20 15:53	1
Benzene	<0.00046		0.0018	0.00046	mg/Kg	✳	12/01/20 17:52	12/03/20 15:53	1
Bromodichloromethane	<0.00037		0.0018	0.00037	mg/Kg	✳	12/01/20 17:52	12/03/20 15:53	1
Bromoform	<0.00053		0.0018	0.00053	mg/Kg	✳	12/01/20 17:52	12/03/20 15:53	1
Bromomethane	<0.0017		0.0045	0.0017	mg/Kg	✳	12/01/20 17:52	12/03/20 15:53	1
2-Butanone (MEK)	<0.0020		0.0045	0.0020	mg/Kg	✳	12/01/20 17:52	12/03/20 15:53	1
Carbon disulfide	<0.00095		0.0045	0.00095	mg/Kg	✳	12/01/20 17:52	12/03/20 15:53	1
Carbon tetrachloride	<0.00053 *		0.0018	0.00053	mg/Kg	✳	12/01/20 17:52	12/03/20 15:53	1
Chlorobenzene	<0.00067		0.0018	0.00067	mg/Kg	✳	12/01/20 17:52	12/03/20 15:53	1
Chloroethane	<0.0013		0.0045	0.0013	mg/Kg	✳	12/01/20 17:52	12/03/20 15:53	1
Chloroform	<0.00063		0.0018	0.00063	mg/Kg	✳	12/01/20 17:52	12/03/20 15:53	1
Chloromethane	<0.0018		0.0045	0.0018	mg/Kg	✳	12/01/20 17:52	12/03/20 15:53	1
cis-1,2-Dichloroethene	<0.00051		0.0018	0.00051	mg/Kg	✳	12/01/20 17:52	12/03/20 15:53	1
cis-1,3-Dichloropropene	<0.00055		0.0018	0.00055	mg/Kg	✳	12/01/20 17:52	12/03/20 15:53	1
Dibromochloromethane	<0.00059		0.0018	0.00059	mg/Kg	✳	12/01/20 17:52	12/03/20 15:53	1
1,1-Dichloroethane	<0.00062		0.0018	0.00062	mg/Kg	✳	12/01/20 17:52	12/03/20 15:53	1
1,2-Dichloroethane	<0.0014		0.0045	0.0014	mg/Kg	✳	12/01/20 17:52	12/03/20 15:53	1
1,1-Dichloroethene	<0.00063		0.0018	0.00063	mg/Kg	✳	12/01/20 17:52	12/03/20 15:53	1
1,2-Dichloropropene	<0.00047		0.0018	0.00047	mg/Kg	✳	12/01/20 17:52	12/03/20 15:53	1
1,3-Dichloropropene, Total	<0.00064		0.0018	0.00064	mg/Kg	✳	12/01/20 17:52	12/03/20 15:53	1
Ethylbenzene	<0.00087		0.0018	0.00087	mg/Kg	✳	12/01/20 17:52	12/03/20 15:53	1
2-Hexanone	<0.0014		0.0045	0.0014	mg/Kg	✳	12/01/20 17:52	12/03/20 15:53	1
Methylene Chloride	<0.0018		0.0045	0.0018	mg/Kg	✳	12/01/20 17:52	12/03/20 15:53	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0045	0.0013	mg/Kg	✳	12/01/20 17:52	12/03/20 15:53	1
Methyl tert-butyl ether	<0.00053		0.0018	0.00053	mg/Kg	✳	12/01/20 17:52	12/03/20 15:53	1
Styrene	<0.00055		0.0018	0.00055	mg/Kg	✳	12/01/20 17:52	12/03/20 15:53	1
1,1,2,2-Tetrachloroethane	<0.00058		0.0018	0.00058	mg/Kg	✳	12/01/20 17:52	12/03/20 15:53	1
Tetrachloroethene	<0.00062		0.0018	0.00062	mg/Kg	✳	12/01/20 17:52	12/03/20 15:53	1
Toluene	<0.00046		0.0018	0.00046	mg/Kg	✳	12/01/20 17:52	12/03/20 15:53	1
trans-1,2-Dichloroethene	<0.00081		0.0018	0.00081	mg/Kg	✳	12/01/20 17:52	12/03/20 15:53	1
trans-1,3-Dichloropropene	<0.00064		0.0018	0.00064	mg/Kg	✳	12/01/20 17:52	12/03/20 15:53	1
1,1,1-Trichloroethane	<0.00061		0.0018	0.00061	mg/Kg	✳	12/01/20 17:52	12/03/20 15:53	1
1,1,2-Trichloroethane	<0.00078		0.0018	0.00078	mg/Kg	✳	12/01/20 17:52	12/03/20 15:53	1
Trichloroethene	<0.00061		0.0018	0.00061	mg/Kg	✳	12/01/20 17:52	12/03/20 15:53	1
Vinyl acetate	<0.0016		0.0045	0.0016	mg/Kg	✳	12/01/20 17:52	12/03/20 15:53	1
Vinyl chloride	<0.00080		0.0018	0.00080	mg/Kg	✳	12/01/20 17:52	12/03/20 15:53	1
Xylenes, Total	<0.00058		0.0036	0.00058	mg/Kg	✳	12/01/20 17:52	12/03/20 15:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		75 - 131	12/01/20 17:52	12/03/20 15:53	1
Dibromofluoromethane	99		75 - 126	12/01/20 17:52	12/03/20 15:53	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 134	12/01/20 17:52	12/03/20 15:53	1
Toluene-d8 (Surr)	89		75 - 124	12/01/20 17:52	12/03/20 15:53	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	✳	12/02/20 17:54	12/03/20 11:56	1
Acenaphthylene	<0.0053		0.040	0.0053	mg/Kg	✳	12/02/20 17:54	12/03/20 11:56	1
Anthracene	<0.0067		0.040	0.0067	mg/Kg	✳	12/02/20 17:54	12/03/20 11:56	1
Benzo[a]anthracene	<0.0054		0.040	0.0054	mg/Kg	✳	12/02/20 17:54	12/03/20 11:56	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191732-1

Client Sample ID: 3138V-7-B02 (0-6)

Lab Sample ID: 500-191732-2

Date Collected: 11/30/20 13:20

Matrix: Solid

Date Received: 11/30/20 17:15

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	<0.0077		0.040	0.0077	mg/Kg	☆	12/02/20 17:54	12/03/20 11:56	1
Benzo[b]fluoranthene	<0.0086		0.040	0.0086	mg/Kg	☆	12/02/20 17:54	12/03/20 11:56	1
Benzo[g,h,i]perylene	<0.013	F1	0.040	0.013	mg/Kg	☆	12/02/20 17:54	12/03/20 11:56	1
Benzo[k]fluoranthene	<0.012		0.040	0.012	mg/Kg	☆	12/02/20 17:54	12/03/20 11:56	1
Bis(2-chloroethoxy)methane	<0.041		0.20	0.041	mg/Kg	☆	12/02/20 17:54	12/03/20 11:56	1
Bis(2-chloroethyl)ether	<0.060	F1	0.20	0.060	mg/Kg	☆	12/02/20 17:54	12/03/20 11:56	1
Bis(2-ethylhexyl) phthalate	<0.073		0.20	0.073	mg/Kg	☆	12/02/20 17:54	12/03/20 11:56	1
4-Bromophenyl phenyl ether	<0.053		0.20	0.053	mg/Kg	☆	12/02/20 17:54	12/03/20 11:56	1
Butyl benzyl phthalate	<0.076		0.20	0.076	mg/Kg	☆	12/02/20 17:54	12/03/20 11:56	1
Carbazole	<0.10		0.20	0.10	mg/Kg	☆	12/02/20 17:54	12/03/20 11:56	1
4-Chloroaniline	<0.19		0.80	0.19	mg/Kg	☆	12/02/20 17:54	12/03/20 11:56	1
4-Chloro-3-methylphenol	<0.14		0.40	0.14	mg/Kg	☆	12/02/20 17:54	12/03/20 11:56	1
2-Chloronaphthalene	<0.044		0.20	0.044	mg/Kg	☆	12/02/20 17:54	12/03/20 11:56	1
2-Chlorophenol	<0.068		0.20	0.068	mg/Kg	☆	12/02/20 17:54	12/03/20 11:56	1
4-Chlorophenyl phenyl ether	<0.047		0.20	0.047	mg/Kg	☆	12/02/20 17:54	12/03/20 11:56	1
Chrysene	<0.011		0.040	0.011	mg/Kg	☆	12/02/20 17:54	12/03/20 11:56	1
Dibenz(a,h)anthracene	<0.0077	F1	0.040	0.0077	mg/Kg	☆	12/02/20 17:54	12/03/20 11:56	1
Dibenzofuran	<0.047		0.20	0.047	mg/Kg	☆	12/02/20 17:54	12/03/20 11:56	1
1,2-Dichlorobenzene	<0.048	F1	0.20	0.048	mg/Kg	☆	12/02/20 17:54	12/03/20 11:56	1
1,3-Dichlorobenzene	<0.045	F1	0.20	0.045	mg/Kg	☆	12/02/20 17:54	12/03/20 11:56	1
1,4-Dichlorobenzene	<0.051	F1	0.20	0.051	mg/Kg	☆	12/02/20 17:54	12/03/20 11:56	1
3,3'-Dichlorobenzidine	<0.056		0.20	0.056	mg/Kg	☆	12/02/20 17:54	12/03/20 11:56	1
2,4-Dichlorophenol	<0.095		0.40	0.095	mg/Kg	☆	12/02/20 17:54	12/03/20 11:56	1
Diethyl phthalate	<0.068		0.20	0.068	mg/Kg	☆	12/02/20 17:54	12/03/20 11:56	1
2,4-Dimethylphenol	<0.15		0.40	0.15	mg/Kg	☆	12/02/20 17:54	12/03/20 11:56	1
Dimethyl phthalate	<0.052		0.20	0.052	mg/Kg	☆	12/02/20 17:54	12/03/20 11:56	1
Di-n-butyl phthalate	<0.061		0.20	0.061	mg/Kg	☆	12/02/20 17:54	12/03/20 11:56	1
4,6-Dinitro-2-methylphenol	<0.32		0.80	0.32	mg/Kg	☆	12/02/20 17:54	12/03/20 11:56	1
2,4-Dinitrophenol	<0.70		0.80	0.70	mg/Kg	☆	12/02/20 17:54	12/03/20 11:56	1
2,4-Dinitrotoluene	<0.063		0.20	0.063	mg/Kg	☆	12/02/20 17:54	12/03/20 11:56	1
2,6-Dinitrotoluene	<0.078		0.20	0.078	mg/Kg	☆	12/02/20 17:54	12/03/20 11:56	1
Di-n-octyl phthalate	<0.065		0.20	0.065	mg/Kg	☆	12/02/20 17:54	12/03/20 11:56	1
Fluoranthene	<0.0074		0.040	0.0074	mg/Kg	☆	12/02/20 17:54	12/03/20 11:56	1
Fluorene	<0.0056		0.040	0.0056	mg/Kg	☆	12/02/20 17:54	12/03/20 11:56	1
Hexachlorobenzene	<0.0092		0.080	0.0092	mg/Kg	☆	12/02/20 17:54	12/03/20 11:56	1
Hexachlorobutadiene	<0.063		0.20	0.063	mg/Kg	☆	12/02/20 17:54	12/03/20 11:56	1
Hexachlorocyclopentadiene	<0.23		0.80	0.23	mg/Kg	☆	12/02/20 17:54	12/03/20 11:56	1
Hexachloroethane	<0.061	F1	0.20	0.061	mg/Kg	☆	12/02/20 17:54	12/03/20 11:56	1
Indeno[1,2,3-cd]pyrene	<0.010	F1	0.040	0.010	mg/Kg	☆	12/02/20 17:54	12/03/20 11:56	1
Isophorone	<0.045		0.20	0.045	mg/Kg	☆	12/02/20 17:54	12/03/20 11:56	1
2-Methylnaphthalene	<0.0073	F1	0.080	0.0073	mg/Kg	☆	12/02/20 17:54	12/03/20 11:56	1
2-Methylphenol	<0.064		0.20	0.064	mg/Kg	☆	12/02/20 17:54	12/03/20 11:56	1
3 & 4 Methylphenol	<0.066		0.20	0.066	mg/Kg	☆	12/02/20 17:54	12/03/20 11:56	1
Naphthalene	<0.0061		0.040	0.0061	mg/Kg	☆	12/02/20 17:54	12/03/20 11:56	1
2-Nitroaniline	<0.054		0.20	0.054	mg/Kg	☆	12/02/20 17:54	12/03/20 11:56	1
3-Nitroaniline	<0.12		0.40	0.12	mg/Kg	☆	12/02/20 17:54	12/03/20 11:56	1
4-Nitroaniline	<0.17		0.40	0.17	mg/Kg	☆	12/02/20 17:54	12/03/20 11:56	1
Nitrobenzene	<0.0099		0.040	0.0099	mg/Kg	☆	12/02/20 17:54	12/03/20 11:56	1
2-Nitrophenol	<0.094		0.40	0.094	mg/Kg	☆	12/02/20 17:54	12/03/20 11:56	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191732-1

Client Sample ID: 3138V-7-B02 (0-6)

Lab Sample ID: 500-191732-2

Date Collected: 11/30/20 13:20

Matrix: Solid

Date Received: 11/30/20 17:15

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	☼	12/02/20 17:54	12/03/20 11:56	1
N-Nitrosodi-n-propylamine	<0.049		0.080	0.049	mg/Kg	☼	12/02/20 17:54	12/03/20 11:56	1
N-Nitrosodiphenylamine	<0.047		0.20	0.047	mg/Kg	☼	12/02/20 17:54	12/03/20 11:56	1
2,2'-oxybis[1-chloropropane]	<0.046		0.20	0.046	mg/Kg	☼	12/02/20 17:54	12/03/20 11:56	1
Pentachlorophenol	<0.64		0.80	0.64	mg/Kg	☼	12/02/20 17:54	12/03/20 11:56	1
Phenanthrene	<0.0056		0.040	0.0056	mg/Kg	☼	12/02/20 17:54	12/03/20 11:56	1
Phenol	<0.089		0.20	0.089	mg/Kg	☼	12/02/20 17:54	12/03/20 11:56	1
Pyrene	<0.0079		0.040	0.0079	mg/Kg	☼	12/02/20 17:54	12/03/20 11:56	1
1,2,4-Trichlorobenzene	<0.043	F1	0.20	0.043	mg/Kg	☼	12/02/20 17:54	12/03/20 11:56	1
2,4,5-Trichlorophenol	<0.091		0.40	0.091	mg/Kg	☼	12/02/20 17:54	12/03/20 11:56	1
2,4,6-Trichlorophenol	<0.14		0.40	0.14	mg/Kg	☼	12/02/20 17:54	12/03/20 11:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	71		43 - 145				12/02/20 17:54	12/03/20 11:56	1
2-Fluorophenol	76		31 - 166				12/02/20 17:54	12/03/20 11:56	1
Nitrobenzene-d5	69		37 - 147				12/02/20 17:54	12/03/20 11:56	1
Phenol-d5	77		30 - 153				12/02/20 17:54	12/03/20 11:56	1
Terphenyl-d14	83		42 - 157				12/02/20 17:54	12/03/20 11:56	1
2,4,6-Tribromophenol	72		31 - 143				12/02/20 17:54	12/03/20 11:56	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.71	J	1.1	0.21	mg/Kg	☼	12/03/20 17:53	12/04/20 11:17	1
Arsenic	7.5		0.55	0.19	mg/Kg	☼	12/03/20 17:53	12/04/20 11:17	1
Barium	36		0.55	0.063	mg/Kg	☼	12/03/20 17:53	12/04/20 11:17	1
Beryllium	0.90		0.22	0.051	mg/Kg	☼	12/03/20 17:53	12/04/20 11:17	1
Cadmium	0.30	B	0.11	0.020	mg/Kg	☼	12/03/20 17:53	12/04/20 11:17	1
Chromium	20		0.55	0.27	mg/Kg	☼	12/03/20 17:53	12/04/20 11:17	1
Cobalt	12		0.27	0.072	mg/Kg	☼	12/03/20 17:53	12/04/20 11:17	1
Copper	21		0.55	0.15	mg/Kg	☼	12/03/20 17:53	12/04/20 11:17	1
Iron	20000		11	5.7	mg/Kg	☼	12/03/20 17:53	12/04/20 11:17	1
Lead	12		0.27	0.13	mg/Kg	☼	12/03/20 17:53	12/04/20 11:17	1
Magnesium	33000		5.5	2.7	mg/Kg	☼	12/03/20 17:53	12/04/20 11:17	1
Calcium	82000		55	9.3	mg/Kg	☼	12/03/20 17:53	12/04/20 15:01	5
Manganese	340		0.55	0.080	mg/Kg	☼	12/03/20 17:53	12/04/20 11:17	1
Nickel	35		0.55	0.16	mg/Kg	☼	12/03/20 17:53	12/04/20 11:17	1
Selenium	<0.32		0.55	0.32	mg/Kg	☼	12/03/20 17:53	12/04/20 11:17	1
Silver	<0.071		0.27	0.071	mg/Kg	☼	12/03/20 17:53	12/04/20 11:17	1
Thallium	<0.27		0.55	0.27	mg/Kg	☼	12/03/20 17:53	12/04/20 11:17	1
Vanadium	25		0.27	0.065	mg/Kg	☼	12/03/20 17:53	12/04/20 11:17	1
Zinc	57		1.1	0.48	mg/Kg	☼	12/03/20 17:53	12/04/20 11:17	1
Potassium	3800		27	9.7	mg/Kg	☼	12/03/20 17:53	12/04/20 11:17	1
Sodium	650		55	8.1	mg/Kg	☼	12/03/20 17:53	12/04/20 11:17	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		12/04/20 16:44	12/07/20 12:08	1
Barium	0.35	J	0.50	0.050	mg/L		12/04/20 16:44	12/07/20 12:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/04/20 16:44	12/07/20 12:08	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		12/04/20 16:44	12/07/20 12:08	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191732-1

Client Sample ID: 3138V-7-B02 (0-6)

Lab Sample ID: 500-191732-2

Date Collected: 11/30/20 13:20

Matrix: Solid

Date Received: 11/30/20 17:15

Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	590		5.0	0.50	mg/L		12/04/20 16:44	12/07/20 12:08	1
Chromium	<0.010		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:08	1
Cobalt	<0.010		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:08	1
Copper	<0.010		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:08	1
Iron	<0.20		0.40	0.20	mg/L		12/04/20 16:44	12/07/20 12:08	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/04/20 16:44	12/07/20 12:08	1
Magnesium	38		2.5	0.50	mg/L		12/04/20 16:44	12/07/20 12:08	1
Manganese	1.6		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:08	1
Nickel	0.010	J	0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:08	1
Potassium	3.1		2.5	0.50	mg/L		12/04/20 16:44	12/07/20 12:08	1
Selenium	<0.020		0.050	0.020	mg/L		12/04/20 16:44	12/07/20 12:08	1
Silver	<0.010		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:08	1
Vanadium	<0.010		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:08	1
Zinc	<0.020		0.50	0.020	mg/L		12/04/20 16:44	12/07/20 12:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.99		0.025	0.010	mg/L		12/04/20 16:45	12/07/20 10:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/04/20 16:44	12/07/20 15:35	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/04/20 16:44	12/07/20 15:35	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		12/07/20 09:05	12/08/20 07:54	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	J	0.020	0.0065	mg/Kg	☼	12/04/20 13:25	12/07/20 10:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.15		0.29	0.15	mg/Kg	☼	12/04/20 14:54	12/04/20 17:05	1
pH	7.9		0.2	0.2	SU			12/03/20 18:12	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191732-1

Client Sample ID: 3138V-7-B02 (6-11.3)

Lab Sample ID: 500-191732-3

Date Collected: 11/30/20 13:30

Matrix: Solid

Date Received: 11/30/20 17:15

Percent Solids: 79.1

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	☼	12/01/20 17:52	12/03/20 16:18	1
Benzene	<0.00043		0.0017	0.00043	mg/Kg	☼	12/01/20 17:52	12/03/20 16:18	1
Bromodichloromethane	<0.00034		0.0017	0.00034	mg/Kg	☼	12/01/20 17:52	12/03/20 16:18	1
Bromoform	<0.00049		0.0017	0.00049	mg/Kg	☼	12/01/20 17:52	12/03/20 16:18	1
Bromomethane	<0.0016		0.0042	0.0016	mg/Kg	☼	12/01/20 17:52	12/03/20 16:18	1
2-Butanone (MEK)	<0.0019		0.0042	0.0019	mg/Kg	☼	12/01/20 17:52	12/03/20 16:18	1
Carbon disulfide	<0.00088		0.0042	0.00088	mg/Kg	☼	12/01/20 17:52	12/03/20 16:18	1
Carbon tetrachloride	<0.00049 *		0.0017	0.00049	mg/Kg	☼	12/01/20 17:52	12/03/20 16:18	1
Chlorobenzene	<0.00062		0.0017	0.00062	mg/Kg	☼	12/01/20 17:52	12/03/20 16:18	1
Chloroethane	<0.0012		0.0042	0.0012	mg/Kg	☼	12/01/20 17:52	12/03/20 16:18	1
Chloroform	<0.00059		0.0017	0.00059	mg/Kg	☼	12/01/20 17:52	12/03/20 16:18	1
Chloromethane	<0.0017		0.0042	0.0017	mg/Kg	☼	12/01/20 17:52	12/03/20 16:18	1
cis-1,2-Dichloroethene	<0.00047		0.0017	0.00047	mg/Kg	☼	12/01/20 17:52	12/03/20 16:18	1
cis-1,3-Dichloropropene	<0.00051		0.0017	0.00051	mg/Kg	☼	12/01/20 17:52	12/03/20 16:18	1
Dibromochloromethane	<0.00055		0.0017	0.00055	mg/Kg	☼	12/01/20 17:52	12/03/20 16:18	1
1,1-Dichloroethane	<0.00058		0.0017	0.00058	mg/Kg	☼	12/01/20 17:52	12/03/20 16:18	1
1,2-Dichloroethane	<0.0013		0.0042	0.0013	mg/Kg	☼	12/01/20 17:52	12/03/20 16:18	1
1,1-Dichloroethene	<0.00058		0.0017	0.00058	mg/Kg	☼	12/01/20 17:52	12/03/20 16:18	1
1,2-Dichloropropene	<0.00044		0.0017	0.00044	mg/Kg	☼	12/01/20 17:52	12/03/20 16:18	1
1,3-Dichloropropene, Total	<0.00059		0.0017	0.00059	mg/Kg	☼	12/01/20 17:52	12/03/20 16:18	1
Ethylbenzene	<0.00081		0.0017	0.00081	mg/Kg	☼	12/01/20 17:52	12/03/20 16:18	1
2-Hexanone	<0.0013		0.0042	0.0013	mg/Kg	☼	12/01/20 17:52	12/03/20 16:18	1
Methylene Chloride	<0.0017		0.0042	0.0017	mg/Kg	☼	12/01/20 17:52	12/03/20 16:18	1
4-Methyl-2-pentanone (MIBK)	<0.0012		0.0042	0.0012	mg/Kg	☼	12/01/20 17:52	12/03/20 16:18	1
Methyl tert-butyl ether	<0.00050		0.0017	0.00050	mg/Kg	☼	12/01/20 17:52	12/03/20 16:18	1
Styrene	<0.00051		0.0017	0.00051	mg/Kg	☼	12/01/20 17:52	12/03/20 16:18	1
1,1,2,2-Tetrachloroethane	<0.00054		0.0017	0.00054	mg/Kg	☼	12/01/20 17:52	12/03/20 16:18	1
Tetrachloroethene	<0.00057		0.0017	0.00057	mg/Kg	☼	12/01/20 17:52	12/03/20 16:18	1
Toluene	<0.00043		0.0017	0.00043	mg/Kg	☼	12/01/20 17:52	12/03/20 16:18	1
trans-1,2-Dichloroethene	<0.00075		0.0017	0.00075	mg/Kg	☼	12/01/20 17:52	12/03/20 16:18	1
trans-1,3-Dichloropropene	<0.00059		0.0017	0.00059	mg/Kg	☼	12/01/20 17:52	12/03/20 16:18	1
1,1,1-Trichloroethane	<0.00057		0.0017	0.00057	mg/Kg	☼	12/01/20 17:52	12/03/20 16:18	1
1,1,2-Trichloroethane	<0.00072		0.0017	0.00072	mg/Kg	☼	12/01/20 17:52	12/03/20 16:18	1
Trichloroethene	<0.00057		0.0017	0.00057	mg/Kg	☼	12/01/20 17:52	12/03/20 16:18	1
Vinyl acetate	<0.0015		0.0042	0.0015	mg/Kg	☼	12/01/20 17:52	12/03/20 16:18	1
Vinyl chloride	<0.00075		0.0017	0.00075	mg/Kg	☼	12/01/20 17:52	12/03/20 16:18	1
Xylenes, Total	<0.00054		0.0034	0.00054	mg/Kg	☼	12/01/20 17:52	12/03/20 16:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		75 - 131	12/01/20 17:52	12/03/20 16:18	1
Dibromofluoromethane	106		75 - 126	12/01/20 17:52	12/03/20 16:18	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	12/01/20 17:52	12/03/20 16:18	1
Toluene-d8 (Surr)	88		75 - 124	12/01/20 17:52	12/03/20 16:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0075		0.041	0.0075	mg/Kg	☼	12/02/20 17:54	12/03/20 15:18	1
Acenaphthylene	<0.0055		0.041	0.0055	mg/Kg	☼	12/02/20 17:54	12/03/20 15:18	1
Anthracene	<0.0069		0.041	0.0069	mg/Kg	☼	12/02/20 17:54	12/03/20 15:18	1
Benzo[a]anthracene	<0.0056		0.041	0.0056	mg/Kg	☼	12/02/20 17:54	12/03/20 15:18	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191732-1

Client Sample ID: 3138V-7-B02 (6-11.3)

Lab Sample ID: 500-191732-3

Date Collected: 11/30/20 13:30

Matrix: Solid

Date Received: 11/30/20 17:15

Percent Solids: 79.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.019	J	0.041	0.0081	mg/Kg	☼	12/02/20 17:54	12/03/20 15:18	1
Benzo[b]fluoranthene	0.016	J	0.041	0.0090	mg/Kg	☼	12/02/20 17:54	12/03/20 15:18	1
Benzo[g,h,i]perylene	0.017	J	0.041	0.013	mg/Kg	☼	12/02/20 17:54	12/03/20 15:18	1
Benzo[k]fluoranthene	<0.012		0.041	0.012	mg/Kg	☼	12/02/20 17:54	12/03/20 15:18	1
Bis(2-chloroethoxy)methane	<0.042		0.21	0.042	mg/Kg	☼	12/02/20 17:54	12/03/20 15:18	1
Bis(2-chloroethyl)ether	<0.062		0.21	0.062	mg/Kg	☼	12/02/20 17:54	12/03/20 15:18	1
Bis(2-ethylhexyl) phthalate	<0.076		0.21	0.076	mg/Kg	☼	12/02/20 17:54	12/03/20 15:18	1
4-Bromophenyl phenyl ether	<0.055		0.21	0.055	mg/Kg	☼	12/02/20 17:54	12/03/20 15:18	1
Butyl benzyl phthalate	<0.079		0.21	0.079	mg/Kg	☼	12/02/20 17:54	12/03/20 15:18	1
Carbazole	<0.10		0.21	0.10	mg/Kg	☼	12/02/20 17:54	12/03/20 15:18	1
4-Chloroaniline	<0.20		0.84	0.20	mg/Kg	☼	12/02/20 17:54	12/03/20 15:18	1
4-Chloro-3-methylphenol	<0.14		0.41	0.14	mg/Kg	☼	12/02/20 17:54	12/03/20 15:18	1
2-Chloronaphthalene	<0.046		0.21	0.046	mg/Kg	☼	12/02/20 17:54	12/03/20 15:18	1
2-Chlorophenol	<0.071		0.21	0.071	mg/Kg	☼	12/02/20 17:54	12/03/20 15:18	1
4-Chlorophenyl phenyl ether	<0.049		0.21	0.049	mg/Kg	☼	12/02/20 17:54	12/03/20 15:18	1
Chrysene	<0.011		0.041	0.011	mg/Kg	☼	12/02/20 17:54	12/03/20 15:18	1
Dibenz(a,h)anthracene	<0.0080		0.041	0.0080	mg/Kg	☼	12/02/20 17:54	12/03/20 15:18	1
Dibenzofuran	<0.049		0.21	0.049	mg/Kg	☼	12/02/20 17:54	12/03/20 15:18	1
1,2-Dichlorobenzene	<0.050		0.21	0.050	mg/Kg	☼	12/02/20 17:54	12/03/20 15:18	1
1,3-Dichlorobenzene	<0.047		0.21	0.047	mg/Kg	☼	12/02/20 17:54	12/03/20 15:18	1
1,4-Dichlorobenzene	<0.053		0.21	0.053	mg/Kg	☼	12/02/20 17:54	12/03/20 15:18	1
3,3'-Dichlorobenzidine	<0.058		0.21	0.058	mg/Kg	☼	12/02/20 17:54	12/03/20 15:18	1
2,4-Dichlorophenol	<0.099		0.41	0.099	mg/Kg	☼	12/02/20 17:54	12/03/20 15:18	1
Diethyl phthalate	<0.070		0.21	0.070	mg/Kg	☼	12/02/20 17:54	12/03/20 15:18	1
2,4-Dimethylphenol	<0.16		0.41	0.16	mg/Kg	☼	12/02/20 17:54	12/03/20 15:18	1
Dimethyl phthalate	<0.054		0.21	0.054	mg/Kg	☼	12/02/20 17:54	12/03/20 15:18	1
Di-n-butyl phthalate	<0.063		0.21	0.063	mg/Kg	☼	12/02/20 17:54	12/03/20 15:18	1
4,6-Dinitro-2-methylphenol	<0.33		0.84	0.33	mg/Kg	☼	12/02/20 17:54	12/03/20 15:18	1
2,4-Dinitrophenol	<0.73		0.84	0.73	mg/Kg	☼	12/02/20 17:54	12/03/20 15:18	1
2,4-Dinitrotoluene	<0.066		0.21	0.066	mg/Kg	☼	12/02/20 17:54	12/03/20 15:18	1
2,6-Dinitrotoluene	<0.082		0.21	0.082	mg/Kg	☼	12/02/20 17:54	12/03/20 15:18	1
Di-n-octyl phthalate	<0.068		0.21	0.068	mg/Kg	☼	12/02/20 17:54	12/03/20 15:18	1
Fluoranthene	<0.0077		0.041	0.0077	mg/Kg	☼	12/02/20 17:54	12/03/20 15:18	1
Fluorene	<0.0058		0.041	0.0058	mg/Kg	☼	12/02/20 17:54	12/03/20 15:18	1
Hexachlorobenzene	<0.0096		0.084	0.0096	mg/Kg	☼	12/02/20 17:54	12/03/20 15:18	1
Hexachlorobutadiene	<0.065		0.21	0.065	mg/Kg	☼	12/02/20 17:54	12/03/20 15:18	1
Hexachlorocyclopentadiene	<0.24		0.84	0.24	mg/Kg	☼	12/02/20 17:54	12/03/20 15:18	1
Hexachloroethane	<0.063		0.21	0.063	mg/Kg	☼	12/02/20 17:54	12/03/20 15:18	1
Indeno[1,2,3-cd]pyrene	0.016	J	0.041	0.011	mg/Kg	☼	12/02/20 17:54	12/03/20 15:18	1
Isophorone	<0.047		0.21	0.047	mg/Kg	☼	12/02/20 17:54	12/03/20 15:18	1
2-Methylnaphthalene	<0.0077		0.084	0.0077	mg/Kg	☼	12/02/20 17:54	12/03/20 15:18	1
2-Methylphenol	<0.067		0.21	0.067	mg/Kg	☼	12/02/20 17:54	12/03/20 15:18	1
3 & 4 Methylphenol	<0.069		0.21	0.069	mg/Kg	☼	12/02/20 17:54	12/03/20 15:18	1
Naphthalene	<0.0064		0.041	0.0064	mg/Kg	☼	12/02/20 17:54	12/03/20 15:18	1
2-Nitroaniline	<0.056		0.21	0.056	mg/Kg	☼	12/02/20 17:54	12/03/20 15:18	1
3-Nitroaniline	<0.13		0.41	0.13	mg/Kg	☼	12/02/20 17:54	12/03/20 15:18	1
4-Nitroaniline	<0.17		0.41	0.17	mg/Kg	☼	12/02/20 17:54	12/03/20 15:18	1
Nitrobenzene	<0.010		0.041	0.010	mg/Kg	☼	12/02/20 17:54	12/03/20 15:18	1
2-Nitrophenol	<0.098		0.41	0.098	mg/Kg	☼	12/02/20 17:54	12/03/20 15:18	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191732-1

Client Sample ID: 3138V-7-B02 (6-11.3)

Lab Sample ID: 500-191732-3

Date Collected: 11/30/20 13:30

Matrix: Solid

Date Received: 11/30/20 17:15

Percent Solids: 79.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.40		0.84	0.40	mg/Kg	☼	12/02/20 17:54	12/03/20 15:18	1
N-Nitrosodi-n-propylamine	<0.051		0.084	0.051	mg/Kg	☼	12/02/20 17:54	12/03/20 15:18	1
N-Nitrosodiphenylamine	<0.049		0.21	0.049	mg/Kg	☼	12/02/20 17:54	12/03/20 15:18	1
2,2'-oxybis[1-chloropropane]	<0.048		0.21	0.048	mg/Kg	☼	12/02/20 17:54	12/03/20 15:18	1
Pentachlorophenol	<0.67		0.84	0.67	mg/Kg	☼	12/02/20 17:54	12/03/20 15:18	1
Phenanthrene	<0.0058		0.041	0.0058	mg/Kg	☼	12/02/20 17:54	12/03/20 15:18	1
Phenol	<0.092		0.21	0.092	mg/Kg	☼	12/02/20 17:54	12/03/20 15:18	1
Pyrene	<0.0083		0.041	0.0083	mg/Kg	☼	12/02/20 17:54	12/03/20 15:18	1
1,2,4-Trichlorobenzene	<0.045		0.21	0.045	mg/Kg	☼	12/02/20 17:54	12/03/20 15:18	1
2,4,5-Trichlorophenol	<0.095		0.41	0.095	mg/Kg	☼	12/02/20 17:54	12/03/20 15:18	1
2,4,6-Trichlorophenol	<0.14		0.41	0.14	mg/Kg	☼	12/02/20 17:54	12/03/20 15:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	71		43 - 145				12/02/20 17:54	12/03/20 15:18	1
2-Fluorophenol	79		31 - 166				12/02/20 17:54	12/03/20 15:18	1
Nitrobenzene-d5	73		37 - 147				12/02/20 17:54	12/03/20 15:18	1
Phenol-d5	81		30 - 153				12/02/20 17:54	12/03/20 15:18	1
Terphenyl-d14	86		42 - 157				12/02/20 17:54	12/03/20 15:18	1
2,4,6-Tribromophenol	63		31 - 143				12/02/20 17:54	12/03/20 15:18	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.88	J	1.2	0.23	mg/Kg	☼	12/03/20 17:53	12/04/20 11:21	1
Arsenic	6.7		0.59	0.20	mg/Kg	☼	12/03/20 17:53	12/04/20 11:21	1
Barium	91		0.59	0.068	mg/Kg	☼	12/03/20 17:53	12/04/20 11:21	1
Beryllium	0.99		0.24	0.055	mg/Kg	☼	12/03/20 17:53	12/04/20 11:21	1
Cadmium	0.31	B	0.12	0.021	mg/Kg	☼	12/03/20 17:53	12/04/20 11:21	1
Chromium	21		0.59	0.29	mg/Kg	☼	12/03/20 17:53	12/04/20 11:21	1
Cobalt	19		0.30	0.078	mg/Kg	☼	12/03/20 17:53	12/04/20 11:21	1
Copper	20		0.59	0.17	mg/Kg	☼	12/03/20 17:53	12/04/20 11:21	1
Iron	22000		12	6.2	mg/Kg	☼	12/03/20 17:53	12/04/20 11:21	1
Lead	21		0.30	0.14	mg/Kg	☼	12/03/20 17:53	12/04/20 11:21	1
Magnesium	15000		5.9	2.9	mg/Kg	☼	12/03/20 17:53	12/04/20 11:21	1
Calcium	22000		12	2.0	mg/Kg	☼	12/03/20 17:53	12/04/20 11:21	1
Manganese	900		0.59	0.086	mg/Kg	☼	12/03/20 17:53	12/04/20 11:21	1
Nickel	36		0.59	0.17	mg/Kg	☼	12/03/20 17:53	12/04/20 11:21	1
Selenium	<0.35		0.59	0.35	mg/Kg	☼	12/03/20 17:53	12/04/20 11:21	1
Silver	<0.077		0.30	0.077	mg/Kg	☼	12/03/20 17:53	12/04/20 11:21	1
Thallium	0.34	J	0.59	0.30	mg/Kg	☼	12/03/20 17:53	12/04/20 11:21	1
Vanadium	28		0.30	0.070	mg/Kg	☼	12/03/20 17:53	12/04/20 11:21	1
Zinc	64		1.2	0.52	mg/Kg	☼	12/03/20 17:53	12/04/20 11:21	1
Potassium	2700		30	11	mg/Kg	☼	12/03/20 17:53	12/04/20 11:21	1
Sodium	1100		59	8.8	mg/Kg	☼	12/03/20 17:53	12/04/20 11:21	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		12/04/20 16:44	12/07/20 12:11	1
Barium	0.39	J	0.50	0.050	mg/L		12/04/20 16:44	12/07/20 12:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/04/20 16:44	12/07/20 12:11	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		12/04/20 16:44	12/07/20 12:11	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191732-1

Client Sample ID: 3138V-7-B02 (6-11.3)

Lab Sample ID: 500-191732-3

Date Collected: 11/30/20 13:30

Matrix: Solid

Date Received: 11/30/20 17:15

Percent Solids: 79.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	370		5.0	0.50	mg/L		12/04/20 16:44	12/07/20 12:11	1
Chromium	<0.010		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:11	1
Cobalt	<0.010		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:11	1
Copper	<0.010		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:11	1
Iron	<0.20		0.40	0.20	mg/L		12/04/20 16:44	12/07/20 12:11	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/04/20 16:44	12/07/20 12:11	1
Magnesium	110		2.5	0.50	mg/L		12/04/20 16:44	12/07/20 12:11	1
Manganese	3.1		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:11	1
Nickel	<0.010		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:11	1
Potassium	1.2 J		2.5	0.50	mg/L		12/04/20 16:44	12/07/20 12:11	1
Selenium	<0.020		0.050	0.020	mg/L		12/04/20 16:44	12/07/20 12:11	1
Silver	<0.010		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:11	1
Vanadium	<0.010		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:11	1
Zinc	<0.020		0.50	0.020	mg/L		12/04/20 16:44	12/07/20 12:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.6		0.025	0.010	mg/L		12/04/20 16:45	12/07/20 10:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/04/20 16:44	12/07/20 15:38	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/04/20 16:44	12/07/20 15:38	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/07/20 09:05	12/08/20 07:56	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	☼	12/04/20 13:25	12/07/20 10:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.16 J		0.28	0.14	mg/Kg	☼	12/04/20 14:54	12/04/20 17:07	1
pH	8.3		0.2	0.2	SU			12/03/20 18:15	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191732-1

Client Sample ID: 3138V-7-B03 (0-1.3)

Lab Sample ID: 500-191732-4

Date Collected: 11/30/20 13:50

Matrix: Solid

Date Received: 11/30/20 17:15

Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0079		0.018	0.0079	mg/Kg	✳	12/01/20 17:52	12/04/20 14:30	1
Benzene	<0.00046		0.0018	0.00046	mg/Kg	✳	12/01/20 17:52	12/04/20 14:30	1
Bromodichloromethane	<0.00037		0.0018	0.00037	mg/Kg	✳	12/01/20 17:52	12/04/20 14:30	1
Bromoform	<0.00053		0.0018	0.00053	mg/Kg	✳	12/01/20 17:52	12/04/20 14:30	1
Bromomethane	<0.0017		0.0045	0.0017	mg/Kg	✳	12/01/20 17:52	12/04/20 14:30	1
2-Butanone (MEK)	<0.0020		0.0045	0.0020	mg/Kg	✳	12/01/20 17:52	12/04/20 14:30	1
Carbon disulfide	<0.00094		0.0045	0.00094	mg/Kg	✳	12/01/20 17:52	12/04/20 14:30	1
Carbon tetrachloride	<0.00053		0.0018	0.00053	mg/Kg	✳	12/01/20 17:52	12/04/20 14:30	1
Chlorobenzene	<0.00067		0.0018	0.00067	mg/Kg	✳	12/01/20 17:52	12/04/20 14:30	1
Chloroethane	<0.0013		0.0045	0.0013	mg/Kg	✳	12/01/20 17:52	12/04/20 14:30	1
Chloroform	<0.00063		0.0018	0.00063	mg/Kg	✳	12/01/20 17:52	12/04/20 14:30	1
Chloromethane	<0.0018		0.0045	0.0018	mg/Kg	✳	12/01/20 17:52	12/04/20 14:30	1
cis-1,2-Dichloroethene	<0.00051		0.0018	0.00051	mg/Kg	✳	12/01/20 17:52	12/04/20 14:30	1
cis-1,3-Dichloropropene	<0.00055		0.0018	0.00055	mg/Kg	✳	12/01/20 17:52	12/04/20 14:30	1
Dibromochloromethane	<0.00059		0.0018	0.00059	mg/Kg	✳	12/01/20 17:52	12/04/20 14:30	1
1,1-Dichloroethane	<0.00062		0.0018	0.00062	mg/Kg	✳	12/01/20 17:52	12/04/20 14:30	1
1,2-Dichloroethane	<0.0014		0.0045	0.0014	mg/Kg	✳	12/01/20 17:52	12/04/20 14:30	1
1,1-Dichloroethene	<0.00062		0.0018	0.00062	mg/Kg	✳	12/01/20 17:52	12/04/20 14:30	1
1,2-Dichloropropene	<0.00047		0.0018	0.00047	mg/Kg	✳	12/01/20 17:52	12/04/20 14:30	1
1,3-Dichloropropene, Total	<0.00064		0.0018	0.00064	mg/Kg	✳	12/01/20 17:52	12/04/20 14:30	1
Ethylbenzene	<0.00087		0.0018	0.00087	mg/Kg	✳	12/01/20 17:52	12/04/20 14:30	1
2-Hexanone	<0.0014		0.0045	0.0014	mg/Kg	✳	12/01/20 17:52	12/04/20 14:30	1
Methylene Chloride	<0.0018		0.0045	0.0018	mg/Kg	✳	12/01/20 17:52	12/04/20 14:30	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0045	0.0013	mg/Kg	✳	12/01/20 17:52	12/04/20 14:30	1
Methyl tert-butyl ether	<0.00053		0.0018	0.00053	mg/Kg	✳	12/01/20 17:52	12/04/20 14:30	1
Styrene	<0.00055		0.0018	0.00055	mg/Kg	✳	12/01/20 17:52	12/04/20 14:30	1
1,1,2,2-Tetrachloroethane	<0.00058		0.0018	0.00058	mg/Kg	✳	12/01/20 17:52	12/04/20 14:30	1
Tetrachloroethene	<0.00062		0.0018	0.00062	mg/Kg	✳	12/01/20 17:52	12/04/20 14:30	1
Toluene	<0.00046		0.0018	0.00046	mg/Kg	✳	12/01/20 17:52	12/04/20 14:30	1
trans-1,2-Dichloroethene	<0.00080		0.0018	0.00080	mg/Kg	✳	12/01/20 17:52	12/04/20 14:30	1
trans-1,3-Dichloropropene	<0.00064		0.0018	0.00064	mg/Kg	✳	12/01/20 17:52	12/04/20 14:30	1
1,1,1-Trichloroethane	<0.00061		0.0018	0.00061	mg/Kg	✳	12/01/20 17:52	12/04/20 14:30	1
1,1,2-Trichloroethane	<0.00078		0.0018	0.00078	mg/Kg	✳	12/01/20 17:52	12/04/20 14:30	1
Trichloroethene	<0.00061		0.0018	0.00061	mg/Kg	✳	12/01/20 17:52	12/04/20 14:30	1
Vinyl acetate	<0.0016		0.0045	0.0016	mg/Kg	✳	12/01/20 17:52	12/04/20 14:30	1
Vinyl chloride	<0.00080		0.0018	0.00080	mg/Kg	✳	12/01/20 17:52	12/04/20 14:30	1
Xylenes, Total	<0.00058		0.0036	0.00058	mg/Kg	✳	12/01/20 17:52	12/04/20 14:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		75 - 131	12/01/20 17:52	12/04/20 14:30	1
Dibromofluoromethane	98		75 - 126	12/01/20 17:52	12/04/20 14:30	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 134	12/01/20 17:52	12/04/20 14:30	1
Toluene-d8 (Surr)	89		75 - 124	12/01/20 17:52	12/04/20 14:30	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	✳	12/02/20 17:54	12/03/20 16:34	1
Acenaphthylene	<0.0053		0.040	0.0053	mg/Kg	✳	12/02/20 17:54	12/03/20 16:34	1
Anthracene	<0.0067		0.040	0.0067	mg/Kg	✳	12/02/20 17:54	12/03/20 16:34	1
Benzo[a]anthracene	0.015	J	0.040	0.0054	mg/Kg	✳	12/02/20 17:54	12/03/20 16:34	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191732-1

Client Sample ID: 3138V-7-B03 (0-1.3)

Lab Sample ID: 500-191732-4

Date Collected: 11/30/20 13:50

Matrix: Solid

Date Received: 11/30/20 17:15

Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.034	J	0.040	0.0078	mg/Kg	☼	12/02/20 17:54	12/03/20 16:34	1
Benzo[b]fluoranthene	0.052		0.040	0.0087	mg/Kg	☼	12/02/20 17:54	12/03/20 16:34	1
Benzo[g,h,i]perylene	0.018	J	0.040	0.013	mg/Kg	☼	12/02/20 17:54	12/03/20 16:34	1
Benzo[k]fluoranthene	0.019	J	0.040	0.012	mg/Kg	☼	12/02/20 17:54	12/03/20 16:34	1
Bis(2-chloroethoxy)methane	<0.041		0.20	0.041	mg/Kg	☼	12/02/20 17:54	12/03/20 16:34	1
Bis(2-chloroethyl)ether	<0.060		0.20	0.060	mg/Kg	☼	12/02/20 17:54	12/03/20 16:34	1
Bis(2-ethylhexyl) phthalate	<0.073		0.20	0.073	mg/Kg	☼	12/02/20 17:54	12/03/20 16:34	1
4-Bromophenyl phenyl ether	<0.053		0.20	0.053	mg/Kg	☼	12/02/20 17:54	12/03/20 16:34	1
Butyl benzyl phthalate	<0.077		0.20	0.077	mg/Kg	☼	12/02/20 17:54	12/03/20 16:34	1
Carbazole	<0.10		0.20	0.10	mg/Kg	☼	12/02/20 17:54	12/03/20 16:34	1
4-Chloroaniline	<0.19		0.81	0.19	mg/Kg	☼	12/02/20 17:54	12/03/20 16:34	1
4-Chloro-3-methylphenol	<0.14		0.40	0.14	mg/Kg	☼	12/02/20 17:54	12/03/20 16:34	1
2-Chloronaphthalene	<0.044		0.20	0.044	mg/Kg	☼	12/02/20 17:54	12/03/20 16:34	1
2-Chlorophenol	<0.069		0.20	0.069	mg/Kg	☼	12/02/20 17:54	12/03/20 16:34	1
4-Chlorophenyl phenyl ether	<0.047		0.20	0.047	mg/Kg	☼	12/02/20 17:54	12/03/20 16:34	1
Chrysene	0.036	J	0.040	0.011	mg/Kg	☼	12/02/20 17:54	12/03/20 16:34	1
Dibenz(a,h)anthracene	<0.0078		0.040	0.0078	mg/Kg	☼	12/02/20 17:54	12/03/20 16:34	1
Dibenzofuran	<0.047		0.20	0.047	mg/Kg	☼	12/02/20 17:54	12/03/20 16:34	1
1,2-Dichlorobenzene	<0.048		0.20	0.048	mg/Kg	☼	12/02/20 17:54	12/03/20 16:34	1
1,3-Dichlorobenzene	<0.045		0.20	0.045	mg/Kg	☼	12/02/20 17:54	12/03/20 16:34	1
1,4-Dichlorobenzene	<0.052		0.20	0.052	mg/Kg	☼	12/02/20 17:54	12/03/20 16:34	1
3,3'-Dichlorobenzidine	<0.056		0.20	0.056	mg/Kg	☼	12/02/20 17:54	12/03/20 16:34	1
2,4-Dichlorophenol	<0.096		0.40	0.096	mg/Kg	☼	12/02/20 17:54	12/03/20 16:34	1
Diethyl phthalate	<0.068		0.20	0.068	mg/Kg	☼	12/02/20 17:54	12/03/20 16:34	1
2,4-Dimethylphenol	<0.15		0.40	0.15	mg/Kg	☼	12/02/20 17:54	12/03/20 16:34	1
Dimethyl phthalate	<0.053		0.20	0.053	mg/Kg	☼	12/02/20 17:54	12/03/20 16:34	1
Di-n-butyl phthalate	<0.061		0.20	0.061	mg/Kg	☼	12/02/20 17:54	12/03/20 16:34	1
4,6-Dinitro-2-methylphenol	<0.32		0.81	0.32	mg/Kg	☼	12/02/20 17:54	12/03/20 16:34	1
2,4-Dinitrophenol	<0.71		0.81	0.71	mg/Kg	☼	12/02/20 17:54	12/03/20 16:34	1
2,4-Dinitrotoluene	<0.064		0.20	0.064	mg/Kg	☼	12/02/20 17:54	12/03/20 16:34	1
2,6-Dinitrotoluene	<0.079		0.20	0.079	mg/Kg	☼	12/02/20 17:54	12/03/20 16:34	1
Di-n-octyl phthalate	<0.066		0.20	0.066	mg/Kg	☼	12/02/20 17:54	12/03/20 16:34	1
Fluoranthene	0.046		0.040	0.0075	mg/Kg	☼	12/02/20 17:54	12/03/20 16:34	1
Fluorene	<0.0057		0.040	0.0057	mg/Kg	☼	12/02/20 17:54	12/03/20 16:34	1
Hexachlorobenzene	<0.0093		0.081	0.0093	mg/Kg	☼	12/02/20 17:54	12/03/20 16:34	1
Hexachlorobutadiene	<0.063		0.20	0.063	mg/Kg	☼	12/02/20 17:54	12/03/20 16:34	1
Hexachlorocyclopentadiene	<0.23		0.81	0.23	mg/Kg	☼	12/02/20 17:54	12/03/20 16:34	1
Hexachloroethane	<0.061		0.20	0.061	mg/Kg	☼	12/02/20 17:54	12/03/20 16:34	1
Indeno[1,2,3-cd]pyrene	0.017	J	0.040	0.010	mg/Kg	☼	12/02/20 17:54	12/03/20 16:34	1
Isophorone	<0.045		0.20	0.045	mg/Kg	☼	12/02/20 17:54	12/03/20 16:34	1
2-Methylnaphthalene	<0.0074		0.081	0.0074	mg/Kg	☼	12/02/20 17:54	12/03/20 16:34	1
2-Methylphenol	<0.065		0.20	0.065	mg/Kg	☼	12/02/20 17:54	12/03/20 16:34	1
3 & 4 Methylphenol	<0.067		0.20	0.067	mg/Kg	☼	12/02/20 17:54	12/03/20 16:34	1
Naphthalene	<0.0062		0.040	0.0062	mg/Kg	☼	12/02/20 17:54	12/03/20 16:34	1
2-Nitroaniline	<0.054		0.20	0.054	mg/Kg	☼	12/02/20 17:54	12/03/20 16:34	1
3-Nitroaniline	<0.12		0.40	0.12	mg/Kg	☼	12/02/20 17:54	12/03/20 16:34	1
4-Nitroaniline	<0.17		0.40	0.17	mg/Kg	☼	12/02/20 17:54	12/03/20 16:34	1
Nitrobenzene	<0.010		0.040	0.010	mg/Kg	☼	12/02/20 17:54	12/03/20 16:34	1
2-Nitrophenol	<0.095		0.40	0.095	mg/Kg	☼	12/02/20 17:54	12/03/20 16:34	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191732-1

Client Sample ID: 3138V-7-B03 (0-1.3)

Lab Sample ID: 500-191732-4

Date Collected: 11/30/20 13:50

Matrix: Solid

Date Received: 11/30/20 17:15

Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.38		0.81	0.38	mg/Kg	☼	12/02/20 17:54	12/03/20 16:34	1
N-Nitrosodi-n-propylamine	<0.049		0.081	0.049	mg/Kg	☼	12/02/20 17:54	12/03/20 16:34	1
N-Nitrosodiphenylamine	<0.047		0.20	0.047	mg/Kg	☼	12/02/20 17:54	12/03/20 16:34	1
2,2'-oxybis[1-chloropropane]	<0.047		0.20	0.047	mg/Kg	☼	12/02/20 17:54	12/03/20 16:34	1
Pentachlorophenol	<0.65		0.81	0.65	mg/Kg	☼	12/02/20 17:54	12/03/20 16:34	1
Phenanthrene	0.022	J	0.040	0.0056	mg/Kg	☼	12/02/20 17:54	12/03/20 16:34	1
Phenol	<0.089		0.20	0.089	mg/Kg	☼	12/02/20 17:54	12/03/20 16:34	1
Pyrene	0.051		0.040	0.0080	mg/Kg	☼	12/02/20 17:54	12/03/20 16:34	1
1,2,4-Trichlorobenzene	<0.043		0.20	0.043	mg/Kg	☼	12/02/20 17:54	12/03/20 16:34	1
2,4,5-Trichlorophenol	<0.092		0.40	0.092	mg/Kg	☼	12/02/20 17:54	12/03/20 16:34	1
2,4,6-Trichlorophenol	<0.14		0.40	0.14	mg/Kg	☼	12/02/20 17:54	12/03/20 16:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	66		43 - 145				12/02/20 17:54	12/03/20 16:34	1
2-Fluorophenol	76		31 - 166				12/02/20 17:54	12/03/20 16:34	1
Nitrobenzene-d5	74		37 - 147				12/02/20 17:54	12/03/20 16:34	1
Phenol-d5	80		30 - 153				12/02/20 17:54	12/03/20 16:34	1
Terphenyl-d14	94		42 - 157				12/02/20 17:54	12/03/20 16:34	1
2,4,6-Tribromophenol	59		31 - 143				12/02/20 17:54	12/03/20 16:34	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	☼	12/03/20 17:53	12/04/20 11:24	1
Arsenic	6.4		0.58	0.20	mg/Kg	☼	12/03/20 17:53	12/04/20 11:24	1
Barium	63		0.58	0.066	mg/Kg	☼	12/03/20 17:53	12/04/20 11:24	1
Beryllium	0.91		0.23	0.054	mg/Kg	☼	12/03/20 17:53	12/04/20 11:24	1
Cadmium	0.42	B	0.12	0.021	mg/Kg	☼	12/03/20 17:53	12/04/20 11:24	1
Chromium	20		0.58	0.28	mg/Kg	☼	12/03/20 17:53	12/04/20 11:24	1
Cobalt	16		0.29	0.075	mg/Kg	☼	12/03/20 17:53	12/04/20 11:24	1
Copper	30		0.58	0.16	mg/Kg	☼	12/03/20 17:53	12/04/20 11:24	1
Iron	20000		12	6.0	mg/Kg	☼	12/03/20 17:53	12/04/20 11:24	1
Lead	59		0.29	0.13	mg/Kg	☼	12/03/20 17:53	12/04/20 11:24	1
Magnesium	30000		5.8	2.9	mg/Kg	☼	12/03/20 17:53	12/04/20 11:24	1
Calcium	75000		58	9.8	mg/Kg	☼	12/03/20 17:53	12/04/20 15:04	5
Manganese	450		0.58	0.083	mg/Kg	☼	12/03/20 17:53	12/04/20 11:24	1
Nickel	36		0.58	0.17	mg/Kg	☼	12/03/20 17:53	12/04/20 11:24	1
Selenium	<0.34		0.58	0.34	mg/Kg	☼	12/03/20 17:53	12/04/20 11:24	1
Silver	<0.074		0.29	0.074	mg/Kg	☼	12/03/20 17:53	12/04/20 11:24	1
Thallium	<0.29		0.58	0.29	mg/Kg	☼	12/03/20 17:53	12/04/20 11:24	1
Vanadium	25		0.29	0.068	mg/Kg	☼	12/03/20 17:53	12/04/20 11:24	1
Zinc	88		1.2	0.51	mg/Kg	☼	12/03/20 17:53	12/04/20 11:24	1
Potassium	2900		29	10	mg/Kg	☼	12/03/20 17:53	12/04/20 11:24	1
Sodium	1500		58	8.5	mg/Kg	☼	12/03/20 17:53	12/04/20 11:24	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		12/04/20 16:44	12/07/20 12:15	1
Barium	0.37	J	0.50	0.050	mg/L		12/04/20 16:44	12/07/20 12:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/04/20 16:44	12/07/20 12:15	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		12/04/20 16:44	12/07/20 12:15	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191732-1

Client Sample ID: 3138V-7-B03 (0-1.3)

Lab Sample ID: 500-191732-4

Date Collected: 11/30/20 13:50

Matrix: Solid

Date Received: 11/30/20 17:15

Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	520		5.0	0.50	mg/L		12/04/20 16:44	12/07/20 12:15	1
Chromium	<0.010		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:15	1
Cobalt	<0.010		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:15	1
Copper	<0.010		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:15	1
Iron	<0.20		0.40	0.20	mg/L		12/04/20 16:44	12/07/20 12:15	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/04/20 16:44	12/07/20 12:15	1
Magnesium	27		2.5	0.50	mg/L		12/04/20 16:44	12/07/20 12:15	1
Manganese	0.83		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:15	1
Nickel	0.011	J	0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:15	1
Potassium	1.0	J	2.5	0.50	mg/L		12/04/20 16:44	12/07/20 12:15	1
Selenium	<0.020		0.050	0.020	mg/L		12/04/20 16:44	12/07/20 12:15	1
Silver	<0.010		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:15	1
Vanadium	<0.010		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:15	1
Zinc	<0.020		0.50	0.020	mg/L		12/04/20 16:44	12/07/20 12:15	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		12/04/20 16:45	12/07/20 10:18	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		12/04/20 16:44	12/07/20 15:42	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/04/20 16:44	12/07/20 15:42	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/07/20 09:05	12/08/20 07:58	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.018	0.0061	mg/Kg	☼	12/04/20 13:25	12/07/20 10:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.14		0.29	0.14	mg/Kg	☼	12/04/20 14:54	12/04/20 17:08	1
pH	8.4		0.2	0.2	SU			12/03/20 18:17	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191732-1

Client Sample ID: 3138V-7-B04 (0-1.3)

Lab Sample ID: 500-191732-5

Date Collected: 11/30/20 14:20

Matrix: Solid

Date Received: 11/30/20 17:15

Percent Solids: 87.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.012	J	0.018	0.0077	mg/Kg	☼	12/01/20 17:52	12/04/20 14:56	1
Benzene	<0.00045		0.0018	0.00045	mg/Kg	☼	12/01/20 17:52	12/04/20 14:56	1
Bromodichloromethane	<0.00036		0.0018	0.00036	mg/Kg	☼	12/01/20 17:52	12/04/20 14:56	1
Bromoform	<0.00052		0.0018	0.00052	mg/Kg	☼	12/01/20 17:52	12/04/20 14:56	1
Bromomethane	<0.0017		0.0044	0.0017	mg/Kg	☼	12/01/20 17:52	12/04/20 14:56	1
2-Butanone (MEK)	<0.0020		0.0044	0.0020	mg/Kg	☼	12/01/20 17:52	12/04/20 14:56	1
Carbon disulfide	<0.00092		0.0044	0.00092	mg/Kg	☼	12/01/20 17:52	12/04/20 14:56	1
Carbon tetrachloride	<0.00051		0.0018	0.00051	mg/Kg	☼	12/01/20 17:52	12/04/20 14:56	1
Chlorobenzene	<0.00065		0.0018	0.00065	mg/Kg	☼	12/01/20 17:52	12/04/20 14:56	1
Chloroethane	<0.0013		0.0044	0.0013	mg/Kg	☼	12/01/20 17:52	12/04/20 14:56	1
Chloroform	<0.00061		0.0018	0.00061	mg/Kg	☼	12/01/20 17:52	12/04/20 14:56	1
Chloromethane	<0.0018		0.0044	0.0018	mg/Kg	☼	12/01/20 17:52	12/04/20 14:56	1
cis-1,2-Dichloroethene	<0.00049		0.0018	0.00049	mg/Kg	☼	12/01/20 17:52	12/04/20 14:56	1
cis-1,3-Dichloropropene	<0.00053		0.0018	0.00053	mg/Kg	☼	12/01/20 17:52	12/04/20 14:56	1
Dibromochloromethane	<0.00058		0.0018	0.00058	mg/Kg	☼	12/01/20 17:52	12/04/20 14:56	1
1,1-Dichloroethane	<0.00060		0.0018	0.00060	mg/Kg	☼	12/01/20 17:52	12/04/20 14:56	1
1,2-Dichloroethane	<0.0014		0.0044	0.0014	mg/Kg	☼	12/01/20 17:52	12/04/20 14:56	1
1,1-Dichloroethene	<0.00061		0.0018	0.00061	mg/Kg	☼	12/01/20 17:52	12/04/20 14:56	1
1,2-Dichloropropene	<0.00046		0.0018	0.00046	mg/Kg	☼	12/01/20 17:52	12/04/20 14:56	1
1,3-Dichloropropene, Total	<0.00062		0.0018	0.00062	mg/Kg	☼	12/01/20 17:52	12/04/20 14:56	1
Ethylbenzene	<0.00084		0.0018	0.00084	mg/Kg	☼	12/01/20 17:52	12/04/20 14:56	1
2-Hexanone	<0.0014		0.0044	0.0014	mg/Kg	☼	12/01/20 17:52	12/04/20 14:56	1
Methylene Chloride	<0.0017		0.0044	0.0017	mg/Kg	☼	12/01/20 17:52	12/04/20 14:56	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0044	0.0013	mg/Kg	☼	12/01/20 17:52	12/04/20 14:56	1
Methyl tert-butyl ether	<0.00052		0.0018	0.00052	mg/Kg	☼	12/01/20 17:52	12/04/20 14:56	1
Styrene	<0.00053		0.0018	0.00053	mg/Kg	☼	12/01/20 17:52	12/04/20 14:56	1
1,1,2,2-Tetrachloroethane	<0.00056		0.0018	0.00056	mg/Kg	☼	12/01/20 17:52	12/04/20 14:56	1
Tetrachloroethene	<0.00060		0.0018	0.00060	mg/Kg	☼	12/01/20 17:52	12/04/20 14:56	1
Toluene	<0.00045		0.0018	0.00045	mg/Kg	☼	12/01/20 17:52	12/04/20 14:56	1
trans-1,2-Dichloroethene	<0.00078		0.0018	0.00078	mg/Kg	☼	12/01/20 17:52	12/04/20 14:56	1
trans-1,3-Dichloropropene	<0.00062		0.0018	0.00062	mg/Kg	☼	12/01/20 17:52	12/04/20 14:56	1
1,1,1-Trichloroethane	<0.00059		0.0018	0.00059	mg/Kg	☼	12/01/20 17:52	12/04/20 14:56	1
1,1,2-Trichloroethane	<0.00076		0.0018	0.00076	mg/Kg	☼	12/01/20 17:52	12/04/20 14:56	1
Trichloroethene	<0.00060		0.0018	0.00060	mg/Kg	☼	12/01/20 17:52	12/04/20 14:56	1
Vinyl acetate	<0.0015		0.0044	0.0015	mg/Kg	☼	12/01/20 17:52	12/04/20 14:56	1
Vinyl chloride	<0.00078		0.0018	0.00078	mg/Kg	☼	12/01/20 17:52	12/04/20 14:56	1
Xylenes, Total	<0.00056		0.0035	0.00056	mg/Kg	☼	12/01/20 17:52	12/04/20 14:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		75 - 131	12/01/20 17:52	12/04/20 14:56	1
Dibromofluoromethane	99		75 - 126	12/01/20 17:52	12/04/20 14:56	1
1,2-Dichloroethane-d4 (Surr)	88		70 - 134	12/01/20 17:52	12/04/20 14:56	1
Toluene-d8 (Surr)	89		75 - 124	12/01/20 17:52	12/04/20 14:56	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	☼	12/02/20 17:54	12/03/20 18:46	1
Acenaphthylene	<0.0050		0.038	0.0050	mg/Kg	☼	12/02/20 17:54	12/03/20 18:46	1
Anthracene	<0.0063		0.038	0.0063	mg/Kg	☼	12/02/20 17:54	12/03/20 18:46	1
Benzo[a]anthracene	0.029	J	0.038	0.0051	mg/Kg	☼	12/02/20 17:54	12/03/20 18:46	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191732-1

Client Sample ID: 3138V-7-B04 (0-1.3)

Lab Sample ID: 500-191732-5

Date Collected: 11/30/20 14:20

Matrix: Solid

Date Received: 11/30/20 17:15

Percent Solids: 87.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.035	J	0.038	0.0073	mg/Kg	☼	12/02/20 17:54	12/03/20 18:46	1
Benzo[b]fluoranthene	0.048		0.038	0.0082	mg/Kg	☼	12/02/20 17:54	12/03/20 18:46	1
Benzo[g,h,i]perylene	0.029	J	0.038	0.012	mg/Kg	☼	12/02/20 17:54	12/03/20 18:46	1
Benzo[k]fluoranthene	0.022	J	0.038	0.011	mg/Kg	☼	12/02/20 17:54	12/03/20 18:46	1
Bis(2-chloroethoxy)methane	<0.039		0.19	0.039	mg/Kg	☼	12/02/20 17:54	12/03/20 18:46	1
Bis(2-chloroethyl)ether	<0.057		0.19	0.057	mg/Kg	☼	12/02/20 17:54	12/03/20 18:46	1
Bis(2-ethylhexyl) phthalate	<0.069		0.19	0.069	mg/Kg	☼	12/02/20 17:54	12/03/20 18:46	1
4-Bromophenyl phenyl ether	<0.050		0.19	0.050	mg/Kg	☼	12/02/20 17:54	12/03/20 18:46	1
Butyl benzyl phthalate	<0.072		0.19	0.072	mg/Kg	☼	12/02/20 17:54	12/03/20 18:46	1
Carbazole	<0.095		0.19	0.095	mg/Kg	☼	12/02/20 17:54	12/03/20 18:46	1
4-Chloroaniline	<0.18		0.76	0.18	mg/Kg	☼	12/02/20 17:54	12/03/20 18:46	1
4-Chloro-3-methylphenol	<0.13		0.38	0.13	mg/Kg	☼	12/02/20 17:54	12/03/20 18:46	1
2-Chloronaphthalene	<0.042		0.19	0.042	mg/Kg	☼	12/02/20 17:54	12/03/20 18:46	1
2-Chlorophenol	<0.065		0.19	0.065	mg/Kg	☼	12/02/20 17:54	12/03/20 18:46	1
4-Chlorophenyl phenyl ether	<0.044		0.19	0.044	mg/Kg	☼	12/02/20 17:54	12/03/20 18:46	1
Chrysene	0.035	J	0.038	0.010	mg/Kg	☼	12/02/20 17:54	12/03/20 18:46	1
Dibenz(a,h)anthracene	0.0097	J	0.038	0.0073	mg/Kg	☼	12/02/20 17:54	12/03/20 18:46	1
Dibenzofuran	<0.044		0.19	0.044	mg/Kg	☼	12/02/20 17:54	12/03/20 18:46	1
1,2-Dichlorobenzene	<0.045		0.19	0.045	mg/Kg	☼	12/02/20 17:54	12/03/20 18:46	1
1,3-Dichlorobenzene	<0.043		0.19	0.043	mg/Kg	☼	12/02/20 17:54	12/03/20 18:46	1
1,4-Dichlorobenzene	<0.049		0.19	0.049	mg/Kg	☼	12/02/20 17:54	12/03/20 18:46	1
3,3'-Dichlorobenzidine	<0.053		0.19	0.053	mg/Kg	☼	12/02/20 17:54	12/03/20 18:46	1
2,4-Dichlorophenol	<0.090		0.38	0.090	mg/Kg	☼	12/02/20 17:54	12/03/20 18:46	1
Diethyl phthalate	<0.064		0.19	0.064	mg/Kg	☼	12/02/20 17:54	12/03/20 18:46	1
2,4-Dimethylphenol	<0.14		0.38	0.14	mg/Kg	☼	12/02/20 17:54	12/03/20 18:46	1
Dimethyl phthalate	<0.049		0.19	0.049	mg/Kg	☼	12/02/20 17:54	12/03/20 18:46	1
Di-n-butyl phthalate	<0.058		0.19	0.058	mg/Kg	☼	12/02/20 17:54	12/03/20 18:46	1
4,6-Dinitro-2-methylphenol	<0.30		0.76	0.30	mg/Kg	☼	12/02/20 17:54	12/03/20 18:46	1
2,4-Dinitrophenol	<0.67		0.76	0.67	mg/Kg	☼	12/02/20 17:54	12/03/20 18:46	1
2,4-Dinitrotoluene	<0.060		0.19	0.060	mg/Kg	☼	12/02/20 17:54	12/03/20 18:46	1
2,6-Dinitrotoluene	<0.074		0.19	0.074	mg/Kg	☼	12/02/20 17:54	12/03/20 18:46	1
Di-n-octyl phthalate	<0.062		0.19	0.062	mg/Kg	☼	12/02/20 17:54	12/03/20 18:46	1
Fluoranthene	0.046		0.038	0.0070	mg/Kg	☼	12/02/20 17:54	12/03/20 18:46	1
Fluorene	<0.0053		0.038	0.0053	mg/Kg	☼	12/02/20 17:54	12/03/20 18:46	1
Hexachlorobenzene	<0.0088		0.076	0.0088	mg/Kg	☼	12/02/20 17:54	12/03/20 18:46	1
Hexachlorobutadiene	<0.060		0.19	0.060	mg/Kg	☼	12/02/20 17:54	12/03/20 18:46	1
Hexachlorocyclopentadiene	<0.22		0.76	0.22	mg/Kg	☼	12/02/20 17:54	12/03/20 18:46	1
Hexachloroethane	<0.058		0.19	0.058	mg/Kg	☼	12/02/20 17:54	12/03/20 18:46	1
Indeno[1,2,3-cd]pyrene	0.025	J	0.038	0.0098	mg/Kg	☼	12/02/20 17:54	12/03/20 18:46	1
Isophorone	<0.043		0.19	0.043	mg/Kg	☼	12/02/20 17:54	12/03/20 18:46	1
2-Methylnaphthalene	<0.0070		0.076	0.0070	mg/Kg	☼	12/02/20 17:54	12/03/20 18:46	1
2-Methylphenol	<0.061		0.19	0.061	mg/Kg	☼	12/02/20 17:54	12/03/20 18:46	1
3 & 4 Methylphenol	<0.063		0.19	0.063	mg/Kg	☼	12/02/20 17:54	12/03/20 18:46	1
Naphthalene	<0.0058		0.038	0.0058	mg/Kg	☼	12/02/20 17:54	12/03/20 18:46	1
2-Nitroaniline	<0.051		0.19	0.051	mg/Kg	☼	12/02/20 17:54	12/03/20 18:46	1
3-Nitroaniline	<0.12		0.38	0.12	mg/Kg	☼	12/02/20 17:54	12/03/20 18:46	1
4-Nitroaniline	<0.16		0.38	0.16	mg/Kg	☼	12/02/20 17:54	12/03/20 18:46	1
Nitrobenzene	<0.0095		0.038	0.0095	mg/Kg	☼	12/02/20 17:54	12/03/20 18:46	1
2-Nitrophenol	<0.090		0.38	0.090	mg/Kg	☼	12/02/20 17:54	12/03/20 18:46	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191732-1

Client Sample ID: 3138V-7-B04 (0-1.3)

Lab Sample ID: 500-191732-5

Date Collected: 11/30/20 14:20

Matrix: Solid

Date Received: 11/30/20 17:15

Percent Solids: 87.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.36		0.76	0.36	mg/Kg	✱	12/02/20 17:54	12/03/20 18:46	1
N-Nitrosodi-n-propylamine	<0.046		0.076	0.046	mg/Kg	✱	12/02/20 17:54	12/03/20 18:46	1
N-Nitrosodiphenylamine	<0.045		0.19	0.045	mg/Kg	✱	12/02/20 17:54	12/03/20 18:46	1
2,2'-oxybis[1-chloropropane]	<0.044		0.19	0.044	mg/Kg	✱	12/02/20 17:54	12/03/20 18:46	1
Pentachlorophenol	<0.61		0.76	0.61	mg/Kg	✱	12/02/20 17:54	12/03/20 18:46	1
Phenanthrene	0.026	J	0.038	0.0053	mg/Kg	✱	12/02/20 17:54	12/03/20 18:46	1
Phenol	<0.084		0.19	0.084	mg/Kg	✱	12/02/20 17:54	12/03/20 18:46	1
Pyrene	0.052		0.038	0.0075	mg/Kg	✱	12/02/20 17:54	12/03/20 18:46	1
1,2,4-Trichlorobenzene	<0.041		0.19	0.041	mg/Kg	✱	12/02/20 17:54	12/03/20 18:46	1
2,4,5-Trichlorophenol	<0.086		0.38	0.086	mg/Kg	✱	12/02/20 17:54	12/03/20 18:46	1
2,4,6-Trichlorophenol	<0.13		0.38	0.13	mg/Kg	✱	12/02/20 17:54	12/03/20 18:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	79		43 - 145				12/02/20 17:54	12/03/20 18:46	1
2-Fluorophenol	87		31 - 166				12/02/20 17:54	12/03/20 18:46	1
Nitrobenzene-d5	65		37 - 147				12/02/20 17:54	12/03/20 18:46	1
Phenol-d5	81		30 - 153				12/02/20 17:54	12/03/20 18:46	1
Terphenyl-d14	104		42 - 157				12/02/20 17:54	12/03/20 18:46	1
2,4,6-Tribromophenol	58		31 - 143				12/02/20 17:54	12/03/20 18:46	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.55	J	1.1	0.21	mg/Kg	✱	12/03/20 17:53	12/04/20 11:27	1
Arsenic	4.6		0.53	0.18	mg/Kg	✱	12/03/20 17:53	12/04/20 11:27	1
Barium	27		0.53	0.060	mg/Kg	✱	12/03/20 17:53	12/04/20 11:27	1
Beryllium	0.35		0.21	0.049	mg/Kg	✱	12/03/20 17:53	12/04/20 11:27	1
Cadmium	0.37	B	0.11	0.019	mg/Kg	✱	12/03/20 17:53	12/04/20 11:27	1
Chromium	8.8		0.53	0.26	mg/Kg	✱	12/03/20 17:53	12/04/20 11:27	1
Cobalt	5.4		0.26	0.069	mg/Kg	✱	12/03/20 17:53	12/04/20 11:27	1
Copper	25		0.53	0.15	mg/Kg	✱	12/03/20 17:53	12/04/20 11:27	1
Iron	11000		11	5.5	mg/Kg	✱	12/03/20 17:53	12/04/20 11:27	1
Lead	37		0.26	0.12	mg/Kg	✱	12/03/20 17:53	12/04/20 11:27	1
Magnesium	31000		5.3	2.6	mg/Kg	✱	12/03/20 17:53	12/04/20 11:27	1
Calcium	71000		53	9.0	mg/Kg	✱	12/03/20 17:53	12/04/20 15:07	5
Manganese	290		0.53	0.077	mg/Kg	✱	12/03/20 17:53	12/04/20 11:27	1
Nickel	14		0.53	0.15	mg/Kg	✱	12/03/20 17:53	12/04/20 11:27	1
Selenium	<0.31		0.53	0.31	mg/Kg	✱	12/03/20 17:53	12/04/20 11:27	1
Silver	<0.068		0.26	0.068	mg/Kg	✱	12/03/20 17:53	12/04/20 11:27	1
Thallium	<0.26		0.53	0.26	mg/Kg	✱	12/03/20 17:53	12/04/20 11:27	1
Vanadium	15		0.26	0.062	mg/Kg	✱	12/03/20 17:53	12/04/20 11:27	1
Zinc	56		1.1	0.46	mg/Kg	✱	12/03/20 17:53	12/04/20 11:27	1
Potassium	920		26	9.4	mg/Kg	✱	12/03/20 17:53	12/04/20 11:27	1
Sodium	610		53	7.8	mg/Kg	✱	12/03/20 17:53	12/04/20 11:27	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		12/04/20 16:44	12/07/20 12:18	1
Barium	0.46	J	0.50	0.050	mg/L		12/04/20 16:44	12/07/20 12:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/04/20 16:44	12/07/20 12:18	1
Cadmium	0.0021	J	0.0050	0.0020	mg/L		12/04/20 16:44	12/07/20 12:18	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191732-1

Client Sample ID: 3138V-7-B04 (0-1.3)

Lab Sample ID: 500-191732-5

Date Collected: 11/30/20 14:20

Matrix: Solid

Date Received: 11/30/20 17:15

Percent Solids: 87.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	450		5.0	0.50	mg/L		12/04/20 16:44	12/07/20 12:18	1
Chromium	<0.010		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:18	1
Cobalt	0.021	J	0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:18	1
Copper	<0.010		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:18	1
Iron	<0.20		0.40	0.20	mg/L		12/04/20 16:44	12/07/20 12:18	1
Lead	0.012		0.0075	0.0075	mg/L		12/04/20 16:44	12/07/20 12:18	1
Magnesium	56		2.5	0.50	mg/L		12/04/20 16:44	12/07/20 12:18	1
Manganese	3.7		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:18	1
Nickel	0.029		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:18	1
Potassium	1.6	J	2.5	0.50	mg/L		12/04/20 16:44	12/07/20 12:18	1
Selenium	<0.020		0.050	0.020	mg/L		12/04/20 16:44	12/07/20 12:18	1
Silver	<0.010		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:18	1
Vanadium	<0.010		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:18	1
Zinc	0.053	J B	0.50	0.020	mg/L		12/04/20 16:44	12/07/20 12:18	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.31		0.0075	0.0075	mg/L		12/04/20 16:45	12/07/20 10:22	1
Manganese	0.83		0.025	0.010	mg/L		12/04/20 16:45	12/07/20 10:22	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		12/04/20 16:44	12/07/20 15:45	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/04/20 16:44	12/07/20 15:45	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		12/07/20 09:05	12/08/20 08:00	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	J	0.018	0.0060	mg/Kg	✱	12/04/20 13:25	12/07/20 10:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.13		0.26	0.13	mg/Kg	✱	12/04/20 14:54	12/04/20 17:10	1
pH	8.6		0.2	0.2	SU			12/03/20 18:20	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191732-1

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.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

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

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 - Lake County - WO 073

Job ID: 500-191732-1

GC/MS VOA

Prep Batch: 574850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191732-1	3138V-7-B01 (0-1.3)	Total/NA	Solid	5035	
500-191732-2	3138V-7-B02 (0-6)	Total/NA	Solid	5035	
500-191732-3	3138V-7-B02 (6-11.3)	Total/NA	Solid	5035	
500-191732-4	3138V-7-B03 (0-1.3)	Total/NA	Solid	5035	
500-191732-5	3138V-7-B04 (0-1.3)	Total/NA	Solid	5035	

Analysis Batch: 575078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191732-1	3138V-7-B01 (0-1.3)	Total/NA	Solid	8260B	574850
500-191732-2	3138V-7-B02 (0-6)	Total/NA	Solid	8260B	574850
500-191732-3	3138V-7-B02 (6-11.3)	Total/NA	Solid	8260B	574850
MB 500-575078/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-575078/4	Lab Control Sample	Total/NA	Solid	8260B	

Analysis Batch: 575332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191732-4	3138V-7-B03 (0-1.3)	Total/NA	Solid	8260B	574850
500-191732-5	3138V-7-B04 (0-1.3)	Total/NA	Solid	8260B	574850
MB 500-575332/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-575332/4	Lab Control Sample	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 575040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191732-1	3138V-7-B01 (0-1.3)	Total/NA	Solid	3541	
500-191732-2	3138V-7-B02 (0-6)	Total/NA	Solid	3541	
500-191732-3	3138V-7-B02 (6-11.3)	Total/NA	Solid	3541	
500-191732-4	3138V-7-B03 (0-1.3)	Total/NA	Solid	3541	
500-191732-5	3138V-7-B04 (0-1.3)	Total/NA	Solid	3541	
MB 500-575040/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-575040/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-191732-2 MS	3138V-7-B02 (0-6)	Total/NA	Solid	3541	
500-191732-2 MSD	3138V-7-B02 (0-6)	Total/NA	Solid	3541	

Analysis Batch: 575109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191732-5	3138V-7-B04 (0-1.3)	Total/NA	Solid	8270D	575040

Analysis Batch: 575116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191732-1	3138V-7-B01 (0-1.3)	Total/NA	Solid	8270D	575040
500-191732-2	3138V-7-B02 (0-6)	Total/NA	Solid	8270D	575040
500-191732-3	3138V-7-B02 (6-11.3)	Total/NA	Solid	8270D	575040
500-191732-4	3138V-7-B03 (0-1.3)	Total/NA	Solid	8270D	575040
MB 500-575040/1-A	Method Blank	Total/NA	Solid	8270D	575040
LCS 500-575040/2-A	Lab Control Sample	Total/NA	Solid	8270D	575040
500-191732-2 MS	3138V-7-B02 (0-6)	Total/NA	Solid	8270D	575040
500-191732-2 MSD	3138V-7-B02 (0-6)	Total/NA	Solid	8270D	575040

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191732-1

Metals

Leach Batch: 575210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191732-1	3138V-7-B01 (0-1.3)	TCLP	Solid	1311	
500-191732-2	3138V-7-B02 (0-6)	TCLP	Solid	1311	
500-191732-3	3138V-7-B02 (6-11.3)	TCLP	Solid	1311	
500-191732-4	3138V-7-B03 (0-1.3)	TCLP	Solid	1311	
500-191732-5	3138V-7-B04 (0-1.3)	TCLP	Solid	1311	
LB 500-575210/1-B	Method Blank	TCLP	Solid	1311	
LB 500-575210/1-C	Method Blank	TCLP	Solid	1311	

Leach Batch: 575212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191732-1	3138V-7-B01 (0-1.3)	SPLP East	Solid	1312	
500-191732-2	3138V-7-B02 (0-6)	SPLP East	Solid	1312	
500-191732-3	3138V-7-B02 (6-11.3)	SPLP East	Solid	1312	
500-191732-4	3138V-7-B03 (0-1.3)	SPLP East	Solid	1312	
500-191732-5	3138V-7-B04 (0-1.3)	SPLP East	Solid	1312	
LB 500-575212/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 575262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191732-1	3138V-7-B01 (0-1.3)	Total/NA	Solid	3050B	
500-191732-2	3138V-7-B02 (0-6)	Total/NA	Solid	3050B	
500-191732-3	3138V-7-B02 (6-11.3)	Total/NA	Solid	3050B	
500-191732-4	3138V-7-B03 (0-1.3)	Total/NA	Solid	3050B	
500-191732-5	3138V-7-B04 (0-1.3)	Total/NA	Solid	3050B	
MB 500-575262/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-575262/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 575358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191732-1	3138V-7-B01 (0-1.3)	Total/NA	Solid	7471B	
500-191732-2	3138V-7-B02 (0-6)	Total/NA	Solid	7471B	
500-191732-3	3138V-7-B02 (6-11.3)	Total/NA	Solid	7471B	
500-191732-4	3138V-7-B03 (0-1.3)	Total/NA	Solid	7471B	
500-191732-5	3138V-7-B04 (0-1.3)	Total/NA	Solid	7471B	
MB 500-575358/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-575358/13-A	Lab Control Sample	Total/NA	Solid	7471B	
500-191732-3 MS	3138V-7-B02 (6-11.3)	Total/NA	Solid	7471B	
500-191732-3 MSD	3138V-7-B02 (6-11.3)	Total/NA	Solid	7471B	
500-191732-3 DU	3138V-7-B02 (6-11.3)	Total/NA	Solid	7471B	

Analysis Batch: 575404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191732-1	3138V-7-B01 (0-1.3)	Total/NA	Solid	6010B	575262
500-191732-2	3138V-7-B02 (0-6)	Total/NA	Solid	6010B	575262
500-191732-3	3138V-7-B02 (6-11.3)	Total/NA	Solid	6010B	575262
500-191732-4	3138V-7-B03 (0-1.3)	Total/NA	Solid	6010B	575262
500-191732-5	3138V-7-B04 (0-1.3)	Total/NA	Solid	6010B	575262
MB 500-575262/1-A	Method Blank	Total/NA	Solid	6010B	575262
LCS 500-575262/2-A	Lab Control Sample	Total/NA	Solid	6010B	575262

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191732-1

Metals

Prep Batch: 575434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191732-1	3138V-7-B01 (0-1.3)	TCLP	Solid	3010A	575210
500-191732-2	3138V-7-B02 (0-6)	TCLP	Solid	3010A	575210
500-191732-3	3138V-7-B02 (6-11.3)	TCLP	Solid	3010A	575210
500-191732-4	3138V-7-B03 (0-1.3)	TCLP	Solid	3010A	575210
500-191732-5	3138V-7-B04 (0-1.3)	TCLP	Solid	3010A	575210
LB 500-575210/1-B	Method Blank	TCLP	Solid	3010A	575210
LCS 500-575434/2-A	Lab Control Sample	Total/NA	Solid	3010A	
LCS 500-575434/2-A ^2	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 575435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191732-1	3138V-7-B01 (0-1.3)	SPLP East	Solid	3010A	575212
500-191732-2	3138V-7-B02 (0-6)	SPLP East	Solid	3010A	575212
500-191732-3	3138V-7-B02 (6-11.3)	SPLP East	Solid	3010A	575212
500-191732-4	3138V-7-B03 (0-1.3)	SPLP East	Solid	3010A	575212
500-191732-5	3138V-7-B04 (0-1.3)	SPLP East	Solid	3010A	575212
LB 500-575212/1-B	Method Blank	SPLP East	Solid	3010A	575212
LCS 500-575435/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 575581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191732-2	3138V-7-B02 (0-6)	Total/NA	Solid	6010B	575262
500-191732-4	3138V-7-B03 (0-1.3)	Total/NA	Solid	6010B	575262
500-191732-5	3138V-7-B04 (0-1.3)	Total/NA	Solid	6010B	575262
MRL 500-575581/15	Lab Control Sample	Total/NA	Solid	6010B	

Prep Batch: 575600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191732-1	3138V-7-B01 (0-1.3)	TCLP	Solid	7470A	575210
500-191732-2	3138V-7-B02 (0-6)	TCLP	Solid	7470A	575210
500-191732-3	3138V-7-B02 (6-11.3)	TCLP	Solid	7470A	575210
500-191732-4	3138V-7-B03 (0-1.3)	TCLP	Solid	7470A	575210
500-191732-5	3138V-7-B04 (0-1.3)	TCLP	Solid	7470A	575210
LB 500-575210/1-C	Method Blank	TCLP	Solid	7470A	575210
MB 500-575600/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-575600/15-A	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 575661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191732-1	3138V-7-B01 (0-1.3)	Total/NA	Solid	7471B	575358
500-191732-2	3138V-7-B02 (0-6)	Total/NA	Solid	7471B	575358
500-191732-3	3138V-7-B02 (6-11.3)	Total/NA	Solid	7471B	575358
500-191732-4	3138V-7-B03 (0-1.3)	Total/NA	Solid	7471B	575358
500-191732-5	3138V-7-B04 (0-1.3)	Total/NA	Solid	7471B	575358
MB 500-575358/12-A	Method Blank	Total/NA	Solid	7471B	575358
LCS 500-575358/13-A	Lab Control Sample	Total/NA	Solid	7471B	575358
500-191732-3 MS	3138V-7-B02 (6-11.3)	Total/NA	Solid	7471B	575358
500-191732-3 MSD	3138V-7-B02 (6-11.3)	Total/NA	Solid	7471B	575358
500-191732-3 DU	3138V-7-B02 (6-11.3)	Total/NA	Solid	7471B	575358

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191732-1

Metals

Analysis Batch: 575686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191732-1	3138V-7-B01 (0-1.3)	TCLP	Solid	6010B	575434
500-191732-2	3138V-7-B02 (0-6)	TCLP	Solid	6010B	575434
500-191732-3	3138V-7-B02 (6-11.3)	TCLP	Solid	6010B	575434
500-191732-4	3138V-7-B03 (0-1.3)	TCLP	Solid	6010B	575434
500-191732-5	3138V-7-B04 (0-1.3)	TCLP	Solid	6010B	575434
LB 500-575210/1-B	Method Blank	TCLP	Solid	6010B	575434
LCS 500-575434/2-A	Lab Control Sample	Total/NA	Solid	6010B	575434

Analysis Batch: 575790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191732-1	3138V-7-B01 (0-1.3)	SPLP East	Solid	6010B	575435
500-191732-2	3138V-7-B02 (0-6)	SPLP East	Solid	6010B	575435
500-191732-3	3138V-7-B02 (6-11.3)	SPLP East	Solid	6010B	575435
500-191732-4	3138V-7-B03 (0-1.3)	SPLP East	Solid	6010B	575435
500-191732-5	3138V-7-B04 (0-1.3)	SPLP East	Solid	6010B	575435
LB 500-575212/1-B	Method Blank	SPLP East	Solid	6010B	575435
LCS 500-575435/2-A	Lab Control Sample	Total/NA	Solid	6010B	575435

Analysis Batch: 575796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191732-1	3138V-7-B01 (0-1.3)	TCLP	Solid	7470A	575600
500-191732-2	3138V-7-B02 (0-6)	TCLP	Solid	7470A	575600
500-191732-3	3138V-7-B02 (6-11.3)	TCLP	Solid	7470A	575600
500-191732-4	3138V-7-B03 (0-1.3)	TCLP	Solid	7470A	575600
500-191732-5	3138V-7-B04 (0-1.3)	TCLP	Solid	7470A	575600
LB 500-575210/1-C	Method Blank	TCLP	Solid	7470A	575600
MB 500-575600/12-A	Method Blank	Total/NA	Solid	7470A	575600
LCS 500-575600/15-A	Lab Control Sample	Total/NA	Solid	7470A	575600

Analysis Batch: 575822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191732-1	3138V-7-B01 (0-1.3)	TCLP	Solid	6020A	575434
500-191732-2	3138V-7-B02 (0-6)	TCLP	Solid	6020A	575434
500-191732-3	3138V-7-B02 (6-11.3)	TCLP	Solid	6020A	575434
500-191732-4	3138V-7-B03 (0-1.3)	TCLP	Solid	6020A	575434
500-191732-5	3138V-7-B04 (0-1.3)	TCLP	Solid	6020A	575434
LB 500-575210/1-B	Method Blank	TCLP	Solid	6020A	575434
LCS 500-575434/2-A	Lab Control Sample	Total/NA	Solid	6020A	575434

Analysis Batch: 575870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-575434/2-A ^2	Lab Control Sample	Total/NA	Solid	6010B	575434

General Chemistry

Analysis Batch: 574939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191732-1	3138V-7-B01 (0-1.3)	Total/NA	Solid	Moisture	
500-191732-2	3138V-7-B02 (0-6)	Total/NA	Solid	Moisture	
500-191732-3	3138V-7-B02 (6-11.3)	Total/NA	Solid	Moisture	
500-191732-4	3138V-7-B03 (0-1.3)	Total/NA	Solid	Moisture	

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191732-1

General Chemistry (Continued)

Analysis Batch: 574939 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191732-5	3138V-7-B04 (0-1.3)	Total/NA	Solid	Moisture	

Analysis Batch: 575386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191732-1	3138V-7-B01 (0-1.3)	Total/NA	Solid	9045D	
500-191732-2	3138V-7-B02 (0-6)	Total/NA	Solid	9045D	
500-191732-3	3138V-7-B02 (6-11.3)	Total/NA	Solid	9045D	
500-191732-4	3138V-7-B03 (0-1.3)	Total/NA	Solid	9045D	
500-191732-5	3138V-7-B04 (0-1.3)	Total/NA	Solid	9045D	
LCS 500-575386/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-575386/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Prep Batch: 575405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191732-1	3138V-7-B01 (0-1.3)	Total/NA	Solid	9010C	
500-191732-2	3138V-7-B02 (0-6)	Total/NA	Solid	9010C	
500-191732-3	3138V-7-B02 (6-11.3)	Total/NA	Solid	9010C	
500-191732-4	3138V-7-B03 (0-1.3)	Total/NA	Solid	9010C	
500-191732-5	3138V-7-B04 (0-1.3)	Total/NA	Solid	9010C	
MB 500-575405/1-A	Method Blank	Total/NA	Solid	9010C	
HLCS 500-575405/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 500-575405/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 500-575405/4-A	Lab Control Sample	Total/NA	Solid	9010C	

Analysis Batch: 575442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191732-1	3138V-7-B01 (0-1.3)	Total/NA	Solid	9012B	575405
500-191732-2	3138V-7-B02 (0-6)	Total/NA	Solid	9012B	575405
500-191732-3	3138V-7-B02 (6-11.3)	Total/NA	Solid	9012B	575405
500-191732-4	3138V-7-B03 (0-1.3)	Total/NA	Solid	9012B	575405
500-191732-5	3138V-7-B04 (0-1.3)	Total/NA	Solid	9012B	575405
MB 500-575405/1-A	Method Blank	Total/NA	Solid	9012B	575405
HLCS 500-575405/2-A	Lab Control Sample	Total/NA	Solid	9012B	575405
LCS 500-575405/3-A	Lab Control Sample	Total/NA	Solid	9012B	575405
LLCS 500-575405/4-A	Lab Control Sample	Total/NA	Solid	9012B	575405

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191732-1

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)
500-191732-1	3138V-7-B01 (0-1.3)	98	106	96	87
500-191732-2	3138V-7-B02 (0-6)	98	99	89	89
500-191732-3	3138V-7-B02 (6-11.3)	95	106	94	88
500-191732-4	3138V-7-B03 (0-1.3)	101	98	89	89
500-191732-5	3138V-7-B04 (0-1.3)	102	99	88	89
LCS 500-575078/4	Lab Control Sample	93	92	76	92
LCS 500-575332/4	Lab Control Sample	91	90	76	93
MB 500-575078/7	Method Blank	95	94	80	89
MB 500-575332/7	Method Blank	99	93	81	90

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
 DBFM = Dibromofluoromethane
 DCA = 1,2-Dichloroethane-d4 (Surr)
 TOL = Toluene-d8 (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (43-145)	2FP (31-166)	NBZ (37-147)	PHL (30-153)	TPHL (42-157)	TBP (31-143)
500-191732-1	3138V-7-B01 (0-1.3)	70	84	77	87	86	67
500-191732-2	3138V-7-B02 (0-6)	71	76	69	77	83	72
500-191732-2 MS	3138V-7-B02 (0-6)	71	85	76	86	84	68
500-191732-2 MSD	3138V-7-B02 (0-6)	80	93	84	95	93	82
500-191732-3	3138V-7-B02 (6-11.3)	71	79	73	81	86	63
500-191732-4	3138V-7-B03 (0-1.3)	66	76	74	80	94	59
500-191732-5	3138V-7-B04 (0-1.3)	79	87	65	81	104	58
LCS 500-575040/2-A	Lab Control Sample	77	89	81	88	83	74
MB 500-575040/1-A	Method Blank	93	97	97	97	98	86

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 - Lake County - WO 073

Job ID: 500-191732-1

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

Lab Sample ID: MB 500-575078/7

Matrix: Solid

Analysis Batch: 575078

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			12/03/20 09:57	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg			12/03/20 09:57	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg			12/03/20 09:57	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg			12/03/20 09:57	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg			12/03/20 09:57	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			12/03/20 09:57	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg			12/03/20 09:57	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg			12/03/20 09:57	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg			12/03/20 09:57	1
Chloroethane	<0.0015		0.0050	0.0015	mg/Kg			12/03/20 09:57	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg			12/03/20 09:57	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg			12/03/20 09:57	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg			12/03/20 09:57	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg			12/03/20 09:57	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg			12/03/20 09:57	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg			12/03/20 09:57	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg			12/03/20 09:57	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg			12/03/20 09:57	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			12/03/20 09:57	1
1,3-Dichloropropane, Total	<0.00070		0.0020	0.00070	mg/Kg			12/03/20 09:57	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg			12/03/20 09:57	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg			12/03/20 09:57	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg			12/03/20 09:57	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg			12/03/20 09:57	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg			12/03/20 09:57	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg			12/03/20 09:57	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg			12/03/20 09:57	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg			12/03/20 09:57	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg			12/03/20 09:57	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg			12/03/20 09:57	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg			12/03/20 09:57	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg			12/03/20 09:57	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg			12/03/20 09:57	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg			12/03/20 09:57	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg			12/03/20 09:57	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg			12/03/20 09:57	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg			12/03/20 09:57	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	95		75 - 131		12/03/20 09:57	1
Dibromofluoromethane	94		75 - 126		12/03/20 09:57	1
1,2-Dichloroethane-d4 (Surr)	80		70 - 134		12/03/20 09:57	1
Toluene-d8 (Surr)	89		75 - 124		12/03/20 09:57	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191732-1

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

Lab Sample ID: LCS 500-575078/4

Matrix: Solid

Analysis Batch: 575078

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	0.0417		mg/Kg		83	40 - 150
Benzene	0.0500	0.0547		mg/Kg		109	70 - 125
Bromodichloromethane	0.0500	0.0530		mg/Kg		106	67 - 129
Bromoform	0.0500	0.0553		mg/Kg		111	68 - 136
Bromomethane	0.0500	0.0473		mg/Kg		95	70 - 130
2-Butanone (MEK)	0.0500	0.0360		mg/Kg		72	47 - 138
Carbon disulfide	0.0500	0.0514		mg/Kg		103	70 - 129
Carbon tetrachloride	0.0500	0.0632	*	mg/Kg		126	75 - 125
Chlorobenzene	0.0500	0.0574		mg/Kg		115	50 - 150
Chloroethane	0.0500	0.0594		mg/Kg		119	75 - 125
Chloroform	0.0500	0.0533		mg/Kg		107	57 - 135
Chloromethane	0.0500	0.0617		mg/Kg		123	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0535		mg/Kg		107	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0475		mg/Kg		95	70 - 125
Dibromochloromethane	0.0500	0.0557		mg/Kg		111	69 - 125
1,1-Dichloroethane	0.0500	0.0573		mg/Kg		115	70 - 125
1,2-Dichloroethane	0.0500	0.0474		mg/Kg		95	70 - 130
1,1-Dichloroethene	0.0500	0.0544		mg/Kg		109	70 - 120
1,2-Dichloropropane	0.0500	0.0565		mg/Kg		113	70 - 125
Ethylbenzene	0.0500	0.0595		mg/Kg		119	61 - 136
2-Hexanone	0.0500	0.0391		mg/Kg		78	48 - 146
Methylene Chloride	0.0500	0.0480		mg/Kg		96	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0390		mg/Kg		78	50 - 148
Methyl tert-butyl ether	0.0500	0.0396		mg/Kg		79	50 - 140
Styrene	0.0500	0.0573		mg/Kg		115	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0478		mg/Kg		96	70 - 122
Tetrachloroethene	0.0500	0.0615		mg/Kg		123	70 - 124
Toluene	0.0500	0.0567		mg/Kg		113	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0563		mg/Kg		113	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0445		mg/Kg		89	70 - 125
1,1,1-Trichloroethane	0.0500	0.0587		mg/Kg		117	70 - 128
1,1,2-Trichloroethane	0.0500	0.0507		mg/Kg		101	70 - 125
Trichloroethene	0.0500	0.0603		mg/Kg		121	70 - 125
Vinyl acetate	0.0500	0.0409		mg/Kg		82	40 - 153
Vinyl chloride	0.0500	0.0546		mg/Kg		109	70 - 125
Xylenes, Total	0.100	0.111		mg/Kg		111	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	93		75 - 131
Dibromofluoromethane	92		75 - 126
1,2-Dichloroethane-d4 (Surr)	76		70 - 134
Toluene-d8 (Surr)	92		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191732-1

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

Lab Sample ID: MB 500-575332/7
Matrix: Solid
Analysis Batch: 575332

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			12/04/20 11:32	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg			12/04/20 11:32	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg			12/04/20 11:32	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg			12/04/20 11:32	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg			12/04/20 11:32	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			12/04/20 11:32	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg			12/04/20 11:32	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg			12/04/20 11:32	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg			12/04/20 11:32	1
Chloroethane	<0.0015		0.0050	0.0015	mg/Kg			12/04/20 11:32	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg			12/04/20 11:32	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg			12/04/20 11:32	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg			12/04/20 11:32	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg			12/04/20 11:32	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg			12/04/20 11:32	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg			12/04/20 11:32	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg			12/04/20 11:32	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg			12/04/20 11:32	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			12/04/20 11:32	1
1,3-Dichloropropane, Total	<0.00070		0.0020	0.00070	mg/Kg			12/04/20 11:32	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg			12/04/20 11:32	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg			12/04/20 11:32	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg			12/04/20 11:32	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg			12/04/20 11:32	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg			12/04/20 11:32	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg			12/04/20 11:32	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg			12/04/20 11:32	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg			12/04/20 11:32	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg			12/04/20 11:32	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg			12/04/20 11:32	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg			12/04/20 11:32	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg			12/04/20 11:32	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg			12/04/20 11:32	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg			12/04/20 11:32	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg			12/04/20 11:32	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg			12/04/20 11:32	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg			12/04/20 11:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		75 - 131		12/04/20 11:32	1
Dibromofluoromethane	93		75 - 126		12/04/20 11:32	1
1,2-Dichloroethane-d4 (Surr)	81		70 - 134		12/04/20 11:32	1
Toluene-d8 (Surr)	90		75 - 124		12/04/20 11:32	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191732-1

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

Lab Sample ID: LCS 500-575332/4

Matrix: Solid

Analysis Batch: 575332

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	0.0408		mg/Kg		82	40 - 150
Benzene	0.0500	0.0507		mg/Kg		101	70 - 125
Bromodichloromethane	0.0500	0.0478		mg/Kg		96	67 - 129
Bromoform	0.0500	0.0487		mg/Kg		97	68 - 136
Bromomethane	0.0500	0.0429		mg/Kg		86	70 - 130
2-Butanone (MEK)	0.0500	0.0352		mg/Kg		70	47 - 138
Carbon disulfide	0.0500	0.0557		mg/Kg		111	70 - 129
Carbon tetrachloride	0.0500	0.0582		mg/Kg		116	75 - 125
Chlorobenzene	0.0500	0.0525		mg/Kg		105	50 - 150
Chloroethane	0.0500	0.0543		mg/Kg		109	75 - 125
Chloroform	0.0500	0.0505		mg/Kg		101	57 - 135
Chloromethane	0.0500	0.0562		mg/Kg		112	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0508		mg/Kg		102	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0434		mg/Kg		87	70 - 125
Dibromochloromethane	0.0500	0.0505		mg/Kg		101	69 - 125
1,1-Dichloroethane	0.0500	0.0551		mg/Kg		110	70 - 125
1,2-Dichloroethane	0.0500	0.0428		mg/Kg		86	70 - 130
1,1-Dichloroethene	0.0500	0.0542		mg/Kg		108	70 - 120
1,2-Dichloropropane	0.0500	0.0513		mg/Kg		103	70 - 125
Ethylbenzene	0.0500	0.0543		mg/Kg		109	61 - 136
2-Hexanone	0.0500	0.0382		mg/Kg		76	48 - 146
Methylene Chloride	0.0500	0.0462		mg/Kg		92	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0364		mg/Kg		73	50 - 148
Methyl tert-butyl ether	0.0500	0.0370		mg/Kg		74	50 - 140
Styrene	0.0500	0.0522		mg/Kg		104	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0410		mg/Kg		82	70 - 122
Tetrachloroethene	0.0500	0.0555		mg/Kg		111	70 - 124
Toluene	0.0500	0.0521		mg/Kg		104	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0549		mg/Kg		110	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0411		mg/Kg		82	70 - 125
1,1,1-Trichloroethane	0.0500	0.0549		mg/Kg		110	70 - 128
1,1,2-Trichloroethane	0.0500	0.0444		mg/Kg		89	70 - 125
Trichloroethene	0.0500	0.0546		mg/Kg		109	70 - 125
Vinyl acetate	0.0500	0.0376		mg/Kg		75	40 - 153
Vinyl chloride	0.0500	0.0486		mg/Kg		97	70 - 125
Xylenes, Total	0.100	0.101		mg/Kg		101	53 - 147

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		75 - 131
Dibromofluoromethane	90		75 - 126
1,2-Dichloroethane-d4 (Surr)	76		70 - 134
Toluene-d8 (Surr)	93		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191732-1

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

Lab Sample ID: MB 500-575040/1-A

Matrix: Solid

Analysis Batch: 575116

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 575040

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	<0.0060		0.033	0.0060	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
Acenaphthylene	<0.0044		0.033	0.0044	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
Anthracene	<0.0056		0.033	0.0056	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
Benzo[a]anthracene	<0.0045		0.033	0.0045	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
Benzo[a]pyrene	<0.0064		0.033	0.0064	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
Benzo[b]fluoranthene	<0.0072		0.033	0.0072	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
Benzo[g,h,i]perylene	<0.011		0.033	0.011	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
Benzo[k]fluoranthene	<0.0098		0.033	0.0098	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
Bis(2-chloroethoxy)methane	<0.034		0.17	0.034	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
Bis(2-chloroethyl)ether	<0.050		0.17	0.050	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
Bis(2-ethylhexyl) phthalate	<0.061		0.17	0.061	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
4-Bromophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
Butyl benzyl phthalate	<0.063		0.17	0.063	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
Carbazole	<0.083		0.17	0.083	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
4-Chloroaniline	<0.16		0.67	0.16	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
4-Chloro-3-methylphenol	<0.11		0.33	0.11	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
2-Chloronaphthalene	<0.037		0.17	0.037	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
2-Chlorophenol	<0.057		0.17	0.057	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
4-Chlorophenyl phenyl ether	<0.039		0.17	0.039	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
Chrysene	<0.0091		0.033	0.0091	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
Dibenz(a,h)anthracene	<0.0064		0.033	0.0064	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
Dibenzofuran	<0.039		0.17	0.039	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
1,2-Dichlorobenzene	<0.040		0.17	0.040	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
1,3-Dichlorobenzene	<0.037		0.17	0.037	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
1,4-Dichlorobenzene	<0.043		0.17	0.043	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
3,3'-Dichlorobenzidine	<0.047		0.17	0.047	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
2,4-Dichlorophenol	<0.079		0.33	0.079	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
Diethyl phthalate	<0.056		0.17	0.056	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
2,4-Dimethylphenol	<0.13		0.33	0.13	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
Dimethyl phthalate	<0.043		0.17	0.043	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
Di-n-butyl phthalate	<0.051		0.17	0.051	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
4,6-Dinitro-2-methylphenol	<0.27		0.67	0.27	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
2,4-Dinitrophenol	<0.59		0.67	0.59	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
2,4-Dinitrotoluene	<0.053		0.17	0.053	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
2,6-Dinitrotoluene	<0.065		0.17	0.065	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
Di-n-octyl phthalate	<0.054		0.17	0.054	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
Fluoranthene	<0.0062		0.033	0.0062	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
Fluorene	<0.0047		0.033	0.0047	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
Hexachlorobenzene	<0.0077		0.067	0.0077	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
Hexachlorobutadiene	<0.052		0.17	0.052	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
Hexachlorocyclopentadiene	<0.19		0.67	0.19	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
Hexachloroethane	<0.051		0.17	0.051	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
Indeno[1,2,3-cd]pyrene	<0.0086		0.033	0.0086	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
Isophorone	<0.037		0.17	0.037	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
2-Methylnaphthalene	<0.0061		0.067	0.0061	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
2-Methylphenol	<0.053		0.17	0.053	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
3 & 4 Methylphenol	<0.055		0.17	0.055	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
Naphthalene	<0.0051		0.033	0.0051	mg/Kg		12/02/20 17:54	12/03/20 10:40	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191732-1

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

Lab Sample ID: MB 500-575040/1-A
Matrix: Solid
Analysis Batch: 575116

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575040

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	<0.045		0.17	0.045	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
3-Nitroaniline	<0.10		0.33	0.10	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
4-Nitroaniline	<0.14		0.33	0.14	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
Nitrobenzene	<0.0083		0.033	0.0083	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
2-Nitrophenol	<0.079		0.33	0.079	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
4-Nitrophenol	<0.32		0.67	0.32	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
N-Nitrosodi-n-propylamine	<0.041		0.067	0.041	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
N-Nitrosodiphenylamine	<0.039		0.17	0.039	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
2,2'-oxybis[1-chloropropane]	<0.039		0.17	0.039	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
Pentachlorophenol	<0.53		0.67	0.53	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
Phenanthrene	<0.0046		0.033	0.0046	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
Phenol	<0.074		0.17	0.074	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
Pyrene	<0.0066		0.033	0.0066	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
1,2,4-Trichlorobenzene	<0.036		0.17	0.036	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
2,4,5-Trichlorophenol	<0.076		0.33	0.076	mg/Kg		12/02/20 17:54	12/03/20 10:40	1
2,4,6-Trichlorophenol	<0.11		0.33	0.11	mg/Kg		12/02/20 17:54	12/03/20 10:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	93		43 - 145	12/02/20 17:54	12/03/20 10:40	1
2-Fluorophenol	97		31 - 166	12/02/20 17:54	12/03/20 10:40	1
Nitrobenzene-d5	97		37 - 147	12/02/20 17:54	12/03/20 10:40	1
Phenol-d5	97		30 - 153	12/02/20 17:54	12/03/20 10:40	1
Terphenyl-d14	98		42 - 157	12/02/20 17:54	12/03/20 10:40	1
2,4,6-Tribromophenol	86		31 - 143	12/02/20 17:54	12/03/20 10:40	1

Lab Sample ID: LCS 500-575040/2-A
Matrix: Solid
Analysis Batch: 575116

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575040

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1.33	1.03		mg/Kg		77	65 - 124
Acenaphthylene	1.33	1.00		mg/Kg		75	68 - 120
Anthracene	1.33	1.07		mg/Kg		80	70 - 114
Benzo[a]anthracene	1.33	1.04		mg/Kg		78	67 - 122
Benzo[a]pyrene	1.33	1.12		mg/Kg		84	65 - 133
Benzo[b]fluoranthene	1.33	1.08		mg/Kg		81	69 - 129
Benzo[g,h,i]perylene	1.33	1.08		mg/Kg		81	72 - 131
Benzo[k]fluoranthene	1.33	1.09		mg/Kg		82	68 - 127
Bis(2-chloroethoxy)methane	1.33	1.09		mg/Kg		82	60 - 112
Bis(2-chloroethyl)ether	1.33	1.13		mg/Kg		85	55 - 111
Bis(2-ethylhexyl) phthalate	1.33	1.20		mg/Kg		90	72 - 131
4-Bromophenyl phenyl ether	1.33	1.09		mg/Kg		82	68 - 118
Butyl benzyl phthalate	1.33	1.17		mg/Kg		88	71 - 129
Carbazole	1.33	1.18		mg/Kg		89	65 - 142
4-Chloroaniline	1.33	0.980		mg/Kg		74	30 - 150
4-Chloro-3-methylphenol	1.33	1.07		mg/Kg		80	65 - 122
2-Chloronaphthalene	1.33	1.05		mg/Kg		78	69 - 114
2-Chlorophenol	1.33	1.02		mg/Kg		77	64 - 110

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191732-1

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

Lab Sample ID: LCS 500-575040/2-A
Matrix: Solid
Analysis Batch: 575116

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575040

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorophenyl phenyl ether	1.33	1.00		mg/Kg		75	62 - 119
Chrysene	1.33	1.10		mg/Kg		82	63 - 120
Dibenz(a,h)anthracene	1.33	1.11		mg/Kg		83	64 - 131
Dibenzofuran	1.33	1.02		mg/Kg		77	66 - 115
1,2-Dichlorobenzene	1.33	0.972		mg/Kg		73	62 - 110
1,3-Dichlorobenzene	1.33	0.940		mg/Kg		71	65 - 124
1,4-Dichlorobenzene	1.33	0.929		mg/Kg		70	61 - 110
3,3'-Dichlorobenzidine	1.33	0.888		mg/Kg		67	35 - 128
2,4-Dichlorophenol	1.33	1.07		mg/Kg		80	58 - 120
Diethyl phthalate	1.33	1.03		mg/Kg		78	58 - 120
2,4-Dimethylphenol	1.33	1.08		mg/Kg		81	60 - 110
Dimethyl phthalate	1.33	1.03		mg/Kg		77	69 - 116
Di-n-butyl phthalate	1.33	1.14		mg/Kg		86	65 - 120
4,6-Dinitro-2-methylphenol	2.67	1.02		mg/Kg		38	10 - 110
2,4-Dinitrophenol	2.67	0.684		mg/Kg		26	10 - 100
2,4-Dinitrotoluene	1.33	1.07		mg/Kg		80	69 - 124
2,6-Dinitrotoluene	1.33	1.04		mg/Kg		78	70 - 123
Di-n-octyl phthalate	1.33	1.15		mg/Kg		87	68 - 134
Fluoranthene	1.33	1.07		mg/Kg		80	62 - 120
Fluorene	1.33	1.01		mg/Kg		76	62 - 120
Hexachlorobenzene	1.33	0.968		mg/Kg		73	63 - 124
Hexachlorobutadiene	1.33	0.953		mg/Kg		71	56 - 120
Hexachlorocyclopentadiene	1.33	0.822		mg/Kg		62	10 - 133
Hexachloroethane	1.33	0.995		mg/Kg		75	60 - 114
Indeno[1,2,3-cd]pyrene	1.33	1.11		mg/Kg		83	68 - 130
Isophorone	1.33	1.08		mg/Kg		81	55 - 110
2-Methylnaphthalene	1.33	1.01		mg/Kg		76	69 - 112
2-Methylphenol	1.33	1.02		mg/Kg		77	60 - 120
3 & 4 Methylphenol	1.33	1.10		mg/Kg		83	57 - 120
Naphthalene	1.33	0.995		mg/Kg		75	63 - 110
2-Nitroaniline	1.33	1.16		mg/Kg		87	57 - 124
3-Nitroaniline	1.33	0.871		mg/Kg		65	40 - 122
4-Nitroaniline	1.33	1.04		mg/Kg		78	60 - 160
Nitrobenzene	1.33	1.06		mg/Kg		80	60 - 116
2-Nitrophenol	1.33	1.01		mg/Kg		76	60 - 120
4-Nitrophenol	2.67	2.31		mg/Kg		87	30 - 122
N-Nitrosodi-n-propylamine	1.33	1.14		mg/Kg		85	56 - 118
N-Nitrosodiphenylamine	1.33	1.12		mg/Kg		84	65 - 112
2,2'-oxybis[1-chloropropane]	1.33	1.17		mg/Kg		88	40 - 124
Pentachlorophenol	2.67	1.87		mg/Kg		70	13 - 112
Phenanthrene	1.33	1.06		mg/Kg		80	62 - 120
Phenol	1.33	1.10		mg/Kg		82	56 - 122
Pyrene	1.33	1.08		mg/Kg		81	61 - 128
1,2,4-Trichlorobenzene	1.33	0.994		mg/Kg		75	66 - 117
2,4,5-Trichlorophenol	1.33	1.06		mg/Kg		79	50 - 120
2,4,6-Trichlorophenol	1.33	1.08		mg/Kg		81	57 - 120

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191732-1

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

Lab Sample ID: LCS 500-575040/2-A
Matrix: Solid
Analysis Batch: 575116

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575040

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	77		43 - 145
2-Fluorophenol	89		31 - 166
Nitrobenzene-d5	81		37 - 147
Phenol-d5	88		30 - 153
Terphenyl-d14	83		42 - 157
2,4,6-Tribromophenol	74		31 - 143

Lab Sample ID: 500-191732-2 MS
Matrix: Solid
Analysis Batch: 575116

Client Sample ID: 3138V-7-B02 (0-6)
Prep Type: Total/NA
Prep Batch: 575040

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	Limits
				Result	Qualifier				
Acenaphthene	<0.0072		1.59	1.19		mg/Kg	☼	75	65 - 124
Acenaphthylene	<0.0053		1.59	1.15		mg/Kg	☼	73	68 - 120
Anthracene	<0.0067		1.59	1.29		mg/Kg	☼	81	70 - 114
Benzo[a]anthracene	<0.0054		1.59	1.27		mg/Kg	☼	80	67 - 122
Benzo[a]pyrene	<0.0077		1.59	1.30		mg/Kg	☼	82	65 - 133
Benzo[b]fluoranthene	<0.0086		1.59	1.38		mg/Kg	☼	87	69 - 129
Benzo[g,h,i]perylene	<0.013	F1	1.59	0.863	F1	mg/Kg	☼	54	72 - 131
Benzo[k]fluoranthene	<0.012		1.59	1.46		mg/Kg	☼	92	68 - 127
Bis(2-chloroethoxy)methane	<0.041		1.59	1.27		mg/Kg	☼	80	60 - 112
Bis(2-chloroethyl)ether	<0.060	F1	1.59	1.66		mg/Kg	☼	105	55 - 111
Bis(2-ethylhexyl) phthalate	<0.073		1.59	1.45		mg/Kg	☼	92	72 - 131
4-Bromophenyl phenyl ether	<0.053		1.59	1.26		mg/Kg	☼	80	68 - 118
Butyl benzyl phthalate	<0.076		1.59	1.38		mg/Kg	☼	87	71 - 129
Carbazole	<0.10		1.59	1.43		mg/Kg	☼	90	65 - 142
4-Chloroaniline	<0.19		1.59	1.13		mg/Kg	☼	71	30 - 150
4-Chloro-3-methylphenol	<0.14		1.59	1.23		mg/Kg	☼	77	65 - 122
2-Chloronaphthalene	<0.044		1.59	1.15		mg/Kg	☼	72	69 - 114
2-Chlorophenol	<0.068		1.59	1.16		mg/Kg	☼	73	64 - 110
4-Chlorophenyl phenyl ether	<0.047		1.59	1.20		mg/Kg	☼	76	62 - 119
Chrysene	<0.011		1.59	1.33		mg/Kg	☼	84	63 - 120
Dibenz(a,h)anthracene	<0.0077	F1	1.59	0.964	F1	mg/Kg	☼	61	64 - 131
Dibenzofuran	<0.047		1.59	1.20		mg/Kg	☼	76	66 - 115
1,2-Dichlorobenzene	<0.048	F1	1.59	0.898	F1	mg/Kg	☼	57	62 - 110
1,3-Dichlorobenzene	<0.045	F1	1.59	0.852	F1	mg/Kg	☼	54	60 - 110
1,4-Dichlorobenzene	<0.051	F1	1.59	0.857	F1	mg/Kg	☼	54	61 - 110
3,3'-Dichlorobenzidine	<0.056		1.59	0.763		mg/Kg	☼	48	35 - 128
2,4-Dichlorophenol	<0.095		1.59	1.20		mg/Kg	☼	76	58 - 120
Diethyl phthalate	<0.068		1.59	1.18		mg/Kg	☼	74	58 - 120
2,4-Dimethylphenol	<0.15		1.59	1.27		mg/Kg	☼	80	60 - 110
Dimethyl phthalate	<0.052		1.59	1.19		mg/Kg	☼	75	69 - 116
Di-n-butyl phthalate	<0.061		1.59	1.33		mg/Kg	☼	84	65 - 120
4,6-Dinitro-2-methylphenol	<0.32		3.17	1.35		mg/Kg	☼	43	10 - 110
2,4-Dinitrophenol	<0.70		3.17	0.900		mg/Kg	☼	28	10 - 100
2,4-Dinitrotoluene	<0.063		1.59	1.25		mg/Kg	☼	79	69 - 124
2,6-Dinitrotoluene	<0.078		1.59	1.23		mg/Kg	☼	78	70 - 123
Di-n-octyl phthalate	<0.065		1.59	1.41		mg/Kg	☼	89	68 - 134

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191732-1

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

Lab Sample ID: 500-191732-2 MS

Matrix: Solid

Analysis Batch: 575116

Client Sample ID: 3138V-7-B02 (0-6)

Prep Type: Total/NA

Prep Batch: 575040

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoranthene	<0.0074		1.59	1.27		mg/Kg	✱	80	62 - 120
Fluorene	<0.0056		1.59	1.21		mg/Kg	✱	76	62 - 120
Hexachlorobenzene	<0.0092		1.59	1.20		mg/Kg	✱	75	63 - 124
Hexachlorobutadiene	<0.063		1.59	0.900		mg/Kg	✱	57	56 - 120
Hexachlorocyclopentadiene	<0.23		1.59	0.398	J	mg/Kg	✱	25	10 - 133
Hexachloroethane	<0.061	F1	1.59	0.884	F1	mg/Kg	✱	56	60 - 114
Indeno[1,2,3-cd]pyrene	<0.010	F1	1.59	0.949	F1	mg/Kg	✱	60	68 - 130
Isophorone	<0.045		1.59	1.22		mg/Kg	✱	77	55 - 110
2-Methylnaphthalene	<0.0073	F1	1.59	1.07	F1	mg/Kg	✱	68	69 - 112
2-Methylphenol	<0.064		1.59	1.22		mg/Kg	✱	77	60 - 120
3 & 4 Methylphenol	<0.066		1.59	1.31		mg/Kg	✱	82	57 - 120
Naphthalene	<0.0061		1.59	1.03		mg/Kg	✱	65	63 - 110
2-Nitroaniline	<0.054		1.59	1.43		mg/Kg	✱	90	57 - 124
3-Nitroaniline	<0.12		1.59	0.873		mg/Kg	✱	55	40 - 122
4-Nitroaniline	<0.17		1.59	1.09		mg/Kg	✱	69	60 - 160
Nitrobenzene	<0.0099		1.59	1.15		mg/Kg	✱	73	60 - 116
2-Nitrophenol	<0.094		1.59	1.13		mg/Kg	✱	71	60 - 120
4-Nitrophenol	<0.38		3.17	2.54		mg/Kg	✱	80	30 - 122
N-Nitrosodi-n-propylamine	<0.049		1.59	1.30		mg/Kg	✱	82	56 - 118
N-Nitrosodiphenylamine	<0.047		1.59	1.34		mg/Kg	✱	85	65 - 112
2,2'-oxybis[1-chloropropane]	<0.046		1.59	1.28		mg/Kg	✱	81	40 - 124
Pentachlorophenol	<0.64		3.17	1.43		mg/Kg	✱	45	13 - 112
Phenanthrene	<0.0056		1.59	1.26		mg/Kg	✱	79	62 - 120
Phenol	<0.089		1.59	1.28		mg/Kg	✱	80	56 - 122
Pyrene	<0.0079		1.59	1.31		mg/Kg	✱	83	61 - 128
1,2,4-Trichlorobenzene	<0.043	F1	1.59	0.966	F1	mg/Kg	✱	61	66 - 117
2,4,5-Trichlorophenol	<0.091		1.59	1.16		mg/Kg	✱	73	50 - 120
2,4,6-Trichlorophenol	<0.14		1.59	1.16		mg/Kg	✱	73	57 - 120

Surrogate	MS %Recovery	MS Qualifier	MS Limits
2-Fluorobiphenyl	71		43 - 145
2-Fluorophenol	85		31 - 166
Nitrobenzene-d5	76		37 - 147
Phenol-d5	86		30 - 153
Terphenyl-d14	84		42 - 157
2,4,6-Tribromophenol	68		31 - 143

Lab Sample ID: 500-191732-2 MSD

Matrix: Solid

Analysis Batch: 575116

Client Sample ID: 3138V-7-B02 (0-6)

Prep Type: Total/NA

Prep Batch: 575040

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	<0.0072		1.60	1.37		mg/Kg	✱	86	65 - 124	14	30
Acenaphthylene	<0.0053		1.60	1.34		mg/Kg	✱	84	68 - 120	15	30
Anthracene	<0.0067		1.60	1.45		mg/Kg	✱	91	70 - 114	12	30
Benzo[a]anthracene	<0.0054		1.60	1.41		mg/Kg	✱	89	67 - 122	11	30
Benzo[a]pyrene	<0.0077		1.60	1.48		mg/Kg	✱	93	65 - 133	13	30
Benzo[b]fluoranthene	<0.0086		1.60	1.63		mg/Kg	✱	102	69 - 129	17	30

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191732-1

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

Lab Sample ID: 500-191732-2 MSD

Matrix: Solid

Analysis Batch: 575116

Client Sample ID: 3138V-7-B02 (0-6)

Prep Type: Total/NA

Prep Batch: 575040

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		
Benzo[g,h,i]perylene	<0.013	F1	1.60	0.989	F1	mg/Kg	☼	62	72 - 131	14	30
Benzo[k]fluoranthene	<0.012		1.60	1.57		mg/Kg	☼	98	68 - 127	7	30
Bis(2-chloroethoxy)methane	<0.041		1.60	1.40		mg/Kg	☼	88	60 - 112	10	30
Bis(2-chloroethyl)ether	<0.060	F1	1.60	1.85	F1	mg/Kg	☼	116	55 - 111	11	30
Bis(2-ethylhexyl) phthalate	<0.073		1.60	1.60		mg/Kg	☼	100	72 - 131	10	30
4-Bromophenyl phenyl ether	<0.053		1.60	1.43		mg/Kg	☼	90	68 - 118	13	30
Butyl benzyl phthalate	<0.076		1.60	1.54		mg/Kg	☼	96	71 - 129	11	30
Carbazole	<0.10		1.60	1.62		mg/Kg	☼	102	65 - 142	12	30
4-Chloroaniline	<0.19		1.60	1.29		mg/Kg	☼	80	30 - 150	13	30
4-Chloro-3-methylphenol	<0.14		1.60	1.38		mg/Kg	☼	86	65 - 122	12	30
2-Chloronaphthalene	<0.044		1.60	1.35		mg/Kg	☼	84	69 - 114	16	30
2-Chlorophenol	<0.068		1.60	1.29		mg/Kg	☼	81	64 - 110	11	30
4-Chlorophenyl phenyl ether	<0.047		1.60	1.36		mg/Kg	☼	85	62 - 119	12	30
Chrysene	<0.011		1.60	1.51		mg/Kg	☼	94	63 - 120	13	30
Dibenz(a,h)anthracene	<0.0077	F1	1.60	1.11		mg/Kg	☼	69	64 - 131	14	30
Dibenzofuran	<0.047		1.60	1.37		mg/Kg	☼	85	66 - 115	13	30
1,2-Dichlorobenzene	<0.048	F1	1.60	1.02		mg/Kg	☼	64	62 - 110	12	30
1,3-Dichlorobenzene	<0.045	F1	1.60	0.959		mg/Kg	☼	60	60 - 110	12	30
1,4-Dichlorobenzene	<0.051	F1	1.60	0.958	F1	mg/Kg	☼	60	61 - 110	11	30
3,3'-Dichlorobenzidine	<0.056		1.60	0.863		mg/Kg	☼	54	35 - 128	12	30
2,4-Dichlorophenol	<0.095		1.60	1.35		mg/Kg	☼	85	58 - 120	12	30
Diethyl phthalate	<0.068		1.60	1.36		mg/Kg	☼	85	58 - 120	14	30
2,4-Dimethylphenol	<0.15		1.60	1.40		mg/Kg	☼	87	60 - 110	10	30
Dimethyl phthalate	<0.052		1.60	1.37		mg/Kg	☼	86	69 - 116	15	30
Di-n-butyl phthalate	<0.061		1.60	1.48		mg/Kg	☼	93	65 - 120	11	30
4,6-Dinitro-2-methylphenol	<0.32		3.20	1.53		mg/Kg	☼	48	10 - 110	12	30
2,4-Dinitrophenol	<0.70		3.20	1.10		mg/Kg	☼	35	10 - 100	20	30
2,4-Dinitrotoluene	<0.063		1.60	1.44		mg/Kg	☼	90	69 - 124	14	30
2,6-Dinitrotoluene	<0.078		1.60	1.40		mg/Kg	☼	88	70 - 123	13	30
Di-n-octyl phthalate	<0.065		1.60	1.55		mg/Kg	☼	97	68 - 134	10	30
Fluoranthene	<0.0074		1.60	1.40		mg/Kg	☼	88	62 - 120	10	30
Fluorene	<0.0056		1.60	1.37		mg/Kg	☼	86	62 - 120	13	30
Hexachlorobenzene	<0.0092		1.60	1.32		mg/Kg	☼	82	63 - 124	10	30
Hexachlorobutadiene	<0.063		1.60	0.989		mg/Kg	☼	62	56 - 120	9	30
Hexachlorocyclopentadiene	<0.23		1.60	0.447	J	mg/Kg	☼	28	10 - 133	12	30
Hexachloroethane	<0.061	F1	1.60	0.985		mg/Kg	☼	62	60 - 114	11	30
Indeno[1,2,3-cd]pyrene	<0.010	F1	1.60	1.07	F1	mg/Kg	☼	67	68 - 130	12	30
Isophorone	<0.045		1.60	1.41		mg/Kg	☼	89	55 - 110	15	30
2-Methylnaphthalene	<0.0073	F1	1.60	1.22		mg/Kg	☼	76	69 - 112	13	30
2-Methylphenol	<0.064		1.60	1.37		mg/Kg	☼	86	60 - 120	12	30
3 & 4 Methylphenol	<0.066		1.60	1.49		mg/Kg	☼	93	57 - 120	13	30
Naphthalene	<0.0061		1.60	1.17		mg/Kg	☼	74	63 - 110	13	30
2-Nitroaniline	<0.054		1.60	1.65		mg/Kg	☼	103	57 - 124	14	30
3-Nitroaniline	<0.12		1.60	1.06		mg/Kg	☼	66	40 - 122	19	30
4-Nitroaniline	<0.17		1.60	1.24		mg/Kg	☼	78	60 - 160	13	30
Nitrobenzene	<0.0099		1.60	1.35		mg/Kg	☼	84	60 - 116	16	30
2-Nitrophenol	<0.094		1.60	1.31		mg/Kg	☼	82	60 - 120	15	30
4-Nitrophenol	<0.38		3.20	3.07		mg/Kg	☼	96	30 - 122	19	30
N-Nitrosodi-n-propylamine	<0.049		1.60	1.48		mg/Kg	☼	93	56 - 118	13	30

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191732-1

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

Lab Sample ID: 500-191732-2 MSD

Matrix: Solid

Analysis Batch: 575116

Client Sample ID: 3138V-7-B02 (0-6)

Prep Type: Total/NA

Prep Batch: 575040

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
N-Nitrosodiphenylamine	<0.047		1.60	1.47		mg/Kg	☼	92	65 - 112	9	30
2,2'-oxybis[1-chloropropane]	<0.046		1.60	1.45		mg/Kg	☼	91	40 - 124	12	30
Pentachlorophenol	<0.64		3.20	1.67		mg/Kg	☼	52	13 - 112	16	30
Phenanthrene	<0.0056		1.60	1.42		mg/Kg	☼	89	62 - 120	12	30
Phenol	<0.089		1.60	1.42		mg/Kg	☼	89	56 - 122	11	30
Pyrene	<0.0079		1.60	1.46		mg/Kg	☼	92	61 - 128	11	30
1,2,4-Trichlorobenzene	<0.043	F1	1.60	1.12		mg/Kg	☼	70	66 - 117	14	30
2,4,5-Trichlorophenol	<0.091		1.60	1.34		mg/Kg	☼	84	50 - 120	14	30
2,4,6-Trichlorophenol	<0.14		1.60	1.35		mg/Kg	☼	85	57 - 120	15	30

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
2-Fluorobiphenyl	80		43 - 145
2-Fluorophenol	93		31 - 166
Nitrobenzene-d5	84		37 - 147
Phenol-d5	95		30 - 153
Terphenyl-d14	93		42 - 157
2,4,6-Tribromophenol	82		31 - 143

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-575262/1-A

Matrix: Solid

Analysis Batch: 575404

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 575262

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.39		2.0	0.39	mg/Kg		12/03/20 17:53	12/04/20 10:32	1
Arsenic	<0.34		1.0	0.34	mg/Kg		12/03/20 17:53	12/04/20 10:32	1
Barium	<0.11		1.0	0.11	mg/Kg		12/03/20 17:53	12/04/20 10:32	1
Beryllium	<0.093		0.40	0.093	mg/Kg		12/03/20 17:53	12/04/20 10:32	1
Cadmium	0.0701	J	0.20	0.036	mg/Kg		12/03/20 17:53	12/04/20 10:32	1
Chromium	<0.50		1.0	0.50	mg/Kg		12/03/20 17:53	12/04/20 10:32	1
Cobalt	<0.13		0.50	0.13	mg/Kg		12/03/20 17:53	12/04/20 10:32	1
Copper	<0.28		1.0	0.28	mg/Kg		12/03/20 17:53	12/04/20 10:32	1
Iron	<10		20	10	mg/Kg		12/03/20 17:53	12/04/20 10:32	1
Lead	<0.23		0.50	0.23	mg/Kg		12/03/20 17:53	12/04/20 10:32	1
Magnesium	<5.0		10	5.0	mg/Kg		12/03/20 17:53	12/04/20 10:32	1
Calcium	<3.4		20	3.4	mg/Kg		12/03/20 17:53	12/04/20 10:32	1
Manganese	<0.15		1.0	0.15	mg/Kg		12/03/20 17:53	12/04/20 10:32	1
Nickel	<0.29		1.0	0.29	mg/Kg		12/03/20 17:53	12/04/20 10:32	1
Selenium	<0.59		1.0	0.59	mg/Kg		12/03/20 17:53	12/04/20 10:32	1
Silver	<0.13		0.50	0.13	mg/Kg		12/03/20 17:53	12/04/20 10:32	1
Thallium	<0.50		1.0	0.50	mg/Kg		12/03/20 17:53	12/04/20 10:32	1
Vanadium	<0.12		0.50	0.12	mg/Kg		12/03/20 17:53	12/04/20 10:32	1
Zinc	<0.88		2.0	0.88	mg/Kg		12/03/20 17:53	12/04/20 10:32	1
Potassium	<18		50	18	mg/Kg		12/03/20 17:53	12/04/20 10:32	1
Sodium	<15		100	15	mg/Kg		12/03/20 17:53	12/04/20 10:32	1

Euofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191732-1

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

Lab Sample ID: LCS 500-575262/2-A
Matrix: Solid
Analysis Batch: 575404

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575262

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	50.0	42.7		mg/Kg		85	80 - 120
Arsenic	10.0	9.23		mg/Kg		92	80 - 120
Barium	200	190		mg/Kg		95	80 - 120
Beryllium	5.00	4.59		mg/Kg		92	80 - 120
Cadmium	5.00	4.69		mg/Kg		94	80 - 120
Chromium	20.0	18.7		mg/Kg		94	80 - 120
Cobalt	50.0	48.1		mg/Kg		96	80 - 120
Copper	25.0	23.6		mg/Kg		94	80 - 120
Iron	100	99.7		mg/Kg		100	80 - 120
Lead	10.0	9.45		mg/Kg		94	80 - 120
Magnesium	1000	911		mg/Kg		91	80 - 120
Calcium	1000	939		mg/Kg		94	80 - 120
Manganese	50.0	46.4		mg/Kg		93	80 - 120
Nickel	50.0	47.8		mg/Kg		96	80 - 120
Selenium	10.0	8.25		mg/Kg		83	80 - 120
Silver	5.00	4.46		mg/Kg		89	80 - 120
Thallium	10.0	9.51		mg/Kg		95	80 - 120
Vanadium	50.0	48.1		mg/Kg		96	80 - 120
Zinc	50.0	49.5		mg/Kg		99	80 - 120
Potassium	1000	952		mg/Kg		95	80 - 120
Sodium	1000	973		mg/Kg		97	80 - 120

Lab Sample ID: LCS 500-575434/2-A
Matrix: Solid
Analysis Batch: 575686

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575434

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.100	0.0932		mg/L		93	80 - 120
Barium	0.500	0.440	J	mg/L		88	80 - 120
Beryllium	0.0500	0.0414		mg/L		83	80 - 120
Cadmium	0.0500	0.0420		mg/L		84	80 - 120
Chromium	0.200	0.163		mg/L		82	80 - 120
Cobalt	0.500	0.432		mg/L		86	80 - 120
Copper	0.250	0.218		mg/L		87	80 - 120
Iron	1.00	0.893		mg/L		89	80 - 120
Lead	0.100	0.0828		mg/L		83	80 - 120
Calcium	10.0	8.46		mg/L		85	80 - 120
Manganese	0.500	0.401		mg/L		80	80 - 120
Nickel	0.500	0.433		mg/L		87	80 - 120
Selenium	0.100	0.0899		mg/L		90	80 - 120
Silver	0.0500	0.0434		mg/L		87	80 - 120
Vanadium	0.500	0.427		mg/L		85	80 - 120
Zinc	0.500	0.488	J	mg/L		98	80 - 120
Potassium	10.0	10.2		mg/L		102	80 - 120

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191732-1

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

Lab Sample ID: LCS 500-575434/2-A ^2
Matrix: Solid
Analysis Batch: 575870

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575434
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Magnesium	10.0	8.34		mg/L		83	80 - 120

Lab Sample ID: LCS 500-575435/2-A
Matrix: Solid
Analysis Batch: 575790

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575435
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Lead	0.100	0.0811		mg/L		81	80 - 120
Manganese	0.500	0.402		mg/L		80	80 - 120

Lab Sample ID: MRL 500-575581/15
Matrix: Solid
Analysis Batch: 575581

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	Limits
Antimony	0.0200	0.0196	J	mg/L		98	70 - 130
Arsenic	0.0100	0.0107		mg/L		107	70 - 130
Barium	0.0100	0.00877	J	mg/L		88	70 - 130
Beryllium	0.00400	0.00376	J	mg/L		94	70 - 130
Cadmium	0.00200	0.00205		mg/L		102	70 - 130
Chromium	0.0100	0.00921	J	mg/L		92	70 - 130
Cobalt	0.00500	0.00491	J	mg/L		98	70 - 130
Copper	0.0100	0.0105		mg/L		105	70 - 130
Iron	0.200	0.182	J	mg/L		91	70 - 130
Lead	0.00500	0.00443	J	mg/L		89	70 - 130
Magnesium	0.100	0.104		mg/L		104	70 - 130
Calcium	0.200	0.201		mg/L		100	70 - 130
Manganese	0.0100	0.00939	J	mg/L		94	70 - 130
Nickel	0.0100	0.00956	J	mg/L		96	70 - 130
Selenium	0.0100	0.0119		mg/L		119	70 - 130
Silver	0.00500	0.00565		mg/L		113	70 - 130
Thallium	0.0100	0.00948	J	mg/L		95	70 - 130
Vanadium	0.00500	0.00434	J	mg/L		87	70 - 130
Zinc	0.0200	0.0199	J	mg/L		99	70 - 130
Potassium	0.500	0.401	J	mg/L		80	70 - 130
Sodium	1.00	1.00		mg/L		100	70 - 130

Lab Sample ID: LB 500-575210/1-B
Matrix: Solid
Analysis Batch: 575686

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 575434

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		12/04/20 16:44	12/07/20 11:48	1
Barium	<0.050		0.50	0.050	mg/L		12/04/20 16:44	12/07/20 11:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/04/20 16:44	12/07/20 11:48	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		12/04/20 16:44	12/07/20 11:48	1
Chromium	<0.010		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 11:48	1
Cobalt	<0.010		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 11:48	1
Copper	<0.010		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 11:48	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191732-1

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

Lab Sample ID: LB 500-575210/1-B
Matrix: Solid
Analysis Batch: 575686

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 575434

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.40	0.20	mg/L		12/04/20 16:44	12/07/20 11:48	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/04/20 16:44	12/07/20 11:48	1
Magnesium	<0.50		2.5	0.50	mg/L		12/04/20 16:44	12/07/20 11:48	1
Calcium	<0.50		5.0	0.50	mg/L		12/04/20 16:44	12/07/20 11:48	1
Manganese	<0.010		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 11:48	1
Nickel	<0.010		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 11:48	1
Selenium	<0.020		0.050	0.020	mg/L		12/04/20 16:44	12/07/20 11:48	1
Silver	<0.010		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 11:48	1
Vanadium	<0.010		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 11:48	1
Zinc	0.0247	J	0.50	0.020	mg/L		12/04/20 16:44	12/07/20 11:48	1
Potassium	<0.50		2.5	0.50	mg/L		12/04/20 16:44	12/07/20 11:48	1

Lab Sample ID: LB 500-575212/1-B
Matrix: Solid
Analysis Batch: 575790

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 575435

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		12/04/20 16:45	12/07/20 10:03	1
Manganese	<0.010		0.025	0.010	mg/L		12/04/20 16:45	12/07/20 10:03	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-575434/2-A
Matrix: Solid
Analysis Batch: 575822

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575434

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.414		mg/L		83	80 - 120
Thallium	0.100	0.0856		mg/L		86	80 - 120

Lab Sample ID: LB 500-575210/1-B
Matrix: Solid
Analysis Batch: 575822

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 575434

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/04/20 16:44	12/07/20 15:24	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/04/20 16:44	12/07/20 15:24	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-575600/12-A
Matrix: Solid
Analysis Batch: 575796

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575600

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/07/20 09:05	12/08/20 08:58	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191732-1

Method: 7470A - TCLP Mercury (Continued)

Lab Sample ID: LCS 500-575600/15-A
Matrix: Solid
Analysis Batch: 575796

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575600
 %Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00217		mg/L		108	80 - 120

Lab Sample ID: LB 500-575210/1-C
Matrix: Solid
Analysis Batch: 575796

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 575600

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/07/20 09:05	12/08/20 07:48	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-575358/12-A
Matrix: Solid
Analysis Batch: 575661

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575358

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		12/04/20 13:25	12/07/20 10:23	1

Lab Sample ID: LCS 500-575358/13-A
Matrix: Solid
Analysis Batch: 575661

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575358
 %Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.154		mg/Kg		92	80 - 120

Lab Sample ID: 500-191732-3 MS
Matrix: Solid
Analysis Batch: 575661

Client Sample ID: 3138V-7-B02 (6-11.3)
Prep Type: Total/NA
Prep Batch: 575358
 %Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	0.026		0.0948	0.112		mg/Kg	☼	91	75 - 125

Lab Sample ID: 500-191732-3 MSD
Matrix: Solid
Analysis Batch: 575661

Client Sample ID: 3138V-7-B02 (6-11.3)
Prep Type: Total/NA
Prep Batch: 575358
 %Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Mercury	0.026		0.0953	0.0995		mg/Kg	☼	77	75 - 125	12	20

Lab Sample ID: 500-191732-3 DU
Matrix: Solid
Analysis Batch: 575661

Client Sample ID: 3138V-7-B02 (6-11.3)
Prep Type: Total/NA
Prep Batch: 575358
 %Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	DU Result	DU Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Mercury	0.026			0.0294		mg/Kg	☼			10	20

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191732-1

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

Lab Sample ID: MB 500-575405/1-A
Matrix: Solid
Analysis Batch: 575442

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575405

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.12		0.24	0.12	mg/Kg		12/04/20 14:54	12/04/20 16:35	1

Lab Sample ID: HLCS 500-575405/2-A
Matrix: Solid
Analysis Batch: 575442

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575405

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	12.0	12.0		mg/Kg		100	90 - 110

Lab Sample ID: LCS 500-575405/3-A
Matrix: Solid
Analysis Batch: 575442

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575405

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	2.40	2.55		mg/Kg		106	85 - 115

Lab Sample ID: LLCS 500-575405/4-A
Matrix: Solid
Analysis Batch: 575442

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575405

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	1.20	1.25		mg/Kg		104	75 - 125

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191732-1

Client Sample ID: 3138V-7-B01 (0-1.3)

Lab Sample ID: 500-191732-1

Date Collected: 11/30/20 12:45

Matrix: Solid

Date Received: 11/30/20 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			575212	12/03/20 12:36	CMS	TAL CHI
SPLP East	Prep	3010A			575435	12/04/20 16:45	BDE	TAL CHI
SPLP East	Analysis	6010B		1	575790	12/07/20 10:09	EEN	TAL CHI
TCLP	Leach	1311			575210	12/03/20 12:36	CMS	TAL CHI
TCLP	Prep	3010A			575434	12/04/20 16:44	BDE	TAL CHI
TCLP	Analysis	6010B		1	575686	12/07/20 11:54	JJB	TAL CHI
TCLP	Leach	1311			575210	12/03/20 12:36	CMS	TAL CHI
TCLP	Prep	3010A			575434	12/04/20 16:44	BDE	TAL CHI
TCLP	Analysis	6020A		1	575822	12/07/20 15:31	FXG	TAL CHI
TCLP	Leach	1311			575210	12/03/20 12:36	CMS	TAL CHI
TCLP	Prep	7470A			575600	12/07/20 09:05	MJG	TAL CHI
TCLP	Analysis	7470A		1	575796	12/08/20 07:52	MJG	TAL CHI
Total/NA	Analysis	9045D		1	575386	12/03/20 18:09	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	574939	12/02/20 11:11	LWN	TAL CHI

Client Sample ID: 3138V-7-B01 (0-1.3)

Lab Sample ID: 500-191732-1

Date Collected: 11/30/20 12:45

Matrix: Solid

Date Received: 11/30/20 17:15

Percent Solids: 76.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			574850	12/01/20 17:52	WRE	TAL CHI
Total/NA	Analysis	8260B		1	575078	12/03/20 15:27	PMF	TAL CHI
Total/NA	Prep	3541			575040	12/02/20 17:54	ACK	TAL CHI
Total/NA	Analysis	8270D		1	575116	12/03/20 13:37	AJD	TAL CHI
Total/NA	Prep	3050B			575262	12/03/20 17:53	BDE	TAL CHI
Total/NA	Analysis	6010B		1	575404	12/04/20 11:14	JJB	TAL CHI
Total/NA	Prep	7471B			575358	12/04/20 13:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	575661	12/07/20 10:40	MJG	TAL CHI
Total/NA	Prep	9010C			575405	12/04/20 14:54	PSP	TAL CHI
Total/NA	Analysis	9012B		1	575442	12/04/20 17:03	PSP	TAL CHI

Client Sample ID: 3138V-7-B02 (0-6)

Lab Sample ID: 500-191732-2

Date Collected: 11/30/20 13:20

Matrix: Solid

Date Received: 11/30/20 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			575212	12/03/20 12:36	CMS	TAL CHI
SPLP East	Prep	3010A			575435	12/04/20 16:45	BDE	TAL CHI
SPLP East	Analysis	6010B		1	575790	12/07/20 10:12	EEN	TAL CHI
TCLP	Leach	1311			575210	12/03/20 12:36	CMS	TAL CHI
TCLP	Prep	3010A			575434	12/04/20 16:44	BDE	TAL CHI
TCLP	Analysis	6010B		1	575686	12/07/20 12:08	JJB	TAL CHI
TCLP	Leach	1311			575210	12/03/20 12:36	CMS	TAL CHI
TCLP	Prep	3010A			575434	12/04/20 16:44	BDE	TAL CHI
TCLP	Analysis	6020A		1	575822	12/07/20 15:35	FXG	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191732-1

Client Sample ID: 3138V-7-B02 (0-6)

Lab Sample ID: 500-191732-2

Date Collected: 11/30/20 13:20

Matrix: Solid

Date Received: 11/30/20 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			575210	12/03/20 12:36	CMS	TAL CHI
TCLP	Prep	7470A			575600	12/07/20 09:05	MJG	TAL CHI
TCLP	Analysis	7470A		1	575796	12/08/20 07:54	MJG	TAL CHI
Total/NA	Analysis	9045D		1	575386	12/03/20 18:12	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	574939	12/02/20 11:11	LWN	TAL CHI

Client Sample ID: 3138V-7-B02 (0-6)

Lab Sample ID: 500-191732-2

Date Collected: 11/30/20 13:20

Matrix: Solid

Date Received: 11/30/20 17:15

Percent Solids: 83.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			574850	12/01/20 17:52	WRE	TAL CHI
Total/NA	Analysis	8260B		1	575078	12/03/20 15:53	PMF	TAL CHI
Total/NA	Prep	3541			575040	12/02/20 17:54	ACK	TAL CHI
Total/NA	Analysis	8270D		1	575116	12/03/20 11:56	AJD	TAL CHI
Total/NA	Prep	3050B			575262	12/03/20 17:53	BDE	TAL CHI
Total/NA	Analysis	6010B		1	575404	12/04/20 11:17	JJB	TAL CHI
Total/NA	Prep	3050B			575262	12/03/20 17:53	BDE	TAL CHI
Total/NA	Analysis	6010B		5	575581	12/04/20 15:01	JJB	TAL CHI
Total/NA	Prep	7471B			575358	12/04/20 13:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	575661	12/07/20 10:47	MJG	TAL CHI
Total/NA	Prep	9010C			575405	12/04/20 14:54	PSP	TAL CHI
Total/NA	Analysis	9012B		1	575442	12/04/20 17:05	PSP	TAL CHI

Client Sample ID: 3138V-7-B02 (6-11.3)

Lab Sample ID: 500-191732-3

Date Collected: 11/30/20 13:30

Matrix: Solid

Date Received: 11/30/20 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			575212	12/03/20 12:36	CMS	TAL CHI
SPLP East	Prep	3010A			575435	12/04/20 16:45	BDE	TAL CHI
SPLP East	Analysis	6010B		1	575790	12/07/20 10:15	EEEN	TAL CHI
TCLP	Leach	1311			575210	12/03/20 12:36	CMS	TAL CHI
TCLP	Prep	3010A			575434	12/04/20 16:44	BDE	TAL CHI
TCLP	Analysis	6010B		1	575686	12/07/20 12:11	JJB	TAL CHI
TCLP	Leach	1311			575210	12/03/20 12:36	CMS	TAL CHI
TCLP	Prep	3010A			575434	12/04/20 16:44	BDE	TAL CHI
TCLP	Analysis	6020A		1	575822	12/07/20 15:38	FXG	TAL CHI
TCLP	Leach	1311			575210	12/03/20 12:36	CMS	TAL CHI
TCLP	Prep	7470A			575600	12/07/20 09:05	MJG	TAL CHI
TCLP	Analysis	7470A		1	575796	12/08/20 07:56	MJG	TAL CHI
Total/NA	Analysis	9045D		1	575386	12/03/20 18:15	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	574939	12/02/20 11:11	LWN	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191732-1

Client Sample ID: 3138V-7-B02 (6-11.3)

Lab Sample ID: 500-191732-3

Date Collected: 11/30/20 13:30

Matrix: Solid

Date Received: 11/30/20 17:15

Percent Solids: 79.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			574850	12/01/20 17:52	WRE	TAL CHI
Total/NA	Analysis	8260B		1	575078	12/03/20 16:18	PMF	TAL CHI
Total/NA	Prep	3541			575040	12/02/20 17:54	ACK	TAL CHI
Total/NA	Analysis	8270D		1	575116	12/03/20 15:18	AJD	TAL CHI
Total/NA	Prep	3050B			575262	12/03/20 17:53	BDE	TAL CHI
Total/NA	Analysis	6010B		1	575404	12/04/20 11:21	JJB	TAL CHI
Total/NA	Prep	7471B			575358	12/04/20 13:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	575661	12/07/20 10:49	MJG	TAL CHI
Total/NA	Prep	9010C			575405	12/04/20 14:54	PSP	TAL CHI
Total/NA	Analysis	9012B		1	575442	12/04/20 17:07	PSP	TAL CHI

Client Sample ID: 3138V-7-B03 (0-1.3)

Lab Sample ID: 500-191732-4

Date Collected: 11/30/20 13:50

Matrix: Solid

Date Received: 11/30/20 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			575212	12/03/20 12:36	CMS	TAL CHI
SPLP East	Prep	3010A			575435	12/04/20 16:45	BDE	TAL CHI
SPLP East	Analysis	6010B		1	575790	12/07/20 10:18	EEN	TAL CHI
TCLP	Leach	1311			575210	12/03/20 12:36	CMS	TAL CHI
TCLP	Prep	3010A			575434	12/04/20 16:44	BDE	TAL CHI
TCLP	Analysis	6010B		1	575686	12/07/20 12:15	JJB	TAL CHI
TCLP	Leach	1311			575210	12/03/20 12:36	CMS	TAL CHI
TCLP	Prep	3010A			575434	12/04/20 16:44	BDE	TAL CHI
TCLP	Analysis	6020A		1	575822	12/07/20 15:42	FXG	TAL CHI
TCLP	Leach	1311			575210	12/03/20 12:36	CMS	TAL CHI
TCLP	Prep	7470A			575600	12/07/20 09:05	MJG	TAL CHI
TCLP	Analysis	7470A		1	575796	12/08/20 07:58	MJG	TAL CHI
Total/NA	Analysis	9045D		1	575386	12/03/20 18:17	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	574939	12/02/20 11:11	LWN	TAL CHI

Client Sample ID: 3138V-7-B03 (0-1.3)

Lab Sample ID: 500-191732-4

Date Collected: 11/30/20 13:50

Matrix: Solid

Date Received: 11/30/20 17:15

Percent Solids: 82.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			574850	12/01/20 17:52	WRE	TAL CHI
Total/NA	Analysis	8260B		1	575332	12/04/20 14:30	PMF	TAL CHI
Total/NA	Prep	3541			575040	12/02/20 17:54	ACK	TAL CHI
Total/NA	Analysis	8270D		1	575116	12/03/20 16:34	AJD	TAL CHI
Total/NA	Prep	3050B			575262	12/03/20 17:53	BDE	TAL CHI
Total/NA	Analysis	6010B		1	575404	12/04/20 11:24	JJB	TAL CHI
Total/NA	Prep	3050B			575262	12/03/20 17:53	BDE	TAL CHI
Total/NA	Analysis	6010B		5	575581	12/04/20 15:04	JJB	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191732-1

Client Sample ID: 3138V-7-B03 (0-1.3)

Lab Sample ID: 500-191732-4

Date Collected: 11/30/20 13:50

Matrix: Solid

Date Received: 11/30/20 17:15

Percent Solids: 82.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			575358	12/04/20 13:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	575661	12/07/20 10:57	MJG	TAL CHI
Total/NA	Prep	9010C			575405	12/04/20 14:54	PSP	TAL CHI
Total/NA	Analysis	9012B		1	575442	12/04/20 17:08	PSP	TAL CHI

Client Sample ID: 3138V-7-B04 (0-1.3)

Lab Sample ID: 500-191732-5

Date Collected: 11/30/20 14:20

Matrix: Solid

Date Received: 11/30/20 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			575212	12/03/20 12:36	CMS	TAL CHI
SPLP East	Prep	3010A			575435	12/04/20 16:45	BDE	TAL CHI
SPLP East	Analysis	6010B		1	575790	12/07/20 10:22	EEN	TAL CHI
TCLP	Leach	1311			575210	12/03/20 12:36	CMS	TAL CHI
TCLP	Prep	3010A			575434	12/04/20 16:44	BDE	TAL CHI
TCLP	Analysis	6010B		1	575686	12/07/20 12:18	JJB	TAL CHI
TCLP	Leach	1311			575210	12/03/20 12:36	CMS	TAL CHI
TCLP	Prep	3010A			575434	12/04/20 16:44	BDE	TAL CHI
TCLP	Analysis	6020A		1	575822	12/07/20 15:45	FXG	TAL CHI
TCLP	Leach	1311			575210	12/03/20 12:36	CMS	TAL CHI
TCLP	Prep	7470A			575600	12/07/20 09:05	MJG	TAL CHI
TCLP	Analysis	7470A		1	575796	12/08/20 08:00	MJG	TAL CHI
Total/NA	Analysis	9045D		1	575386	12/03/20 18:20	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	574939	12/02/20 11:11	LWN	TAL CHI

Client Sample ID: 3138V-7-B04 (0-1.3)

Lab Sample ID: 500-191732-5

Date Collected: 11/30/20 14:20

Matrix: Solid

Date Received: 11/30/20 17:15

Percent Solids: 87.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			574850	12/01/20 17:52	WRE	TAL CHI
Total/NA	Analysis	8260B		1	575332	12/04/20 14:56	PMF	TAL CHI
Total/NA	Prep	3541			575040	12/02/20 17:54	ACK	TAL CHI
Total/NA	Analysis	8270D		1	575109	12/03/20 18:46	AJD	TAL CHI
Total/NA	Prep	3050B			575262	12/03/20 17:53	BDE	TAL CHI
Total/NA	Analysis	6010B		1	575404	12/04/20 11:27	JJB	TAL CHI
Total/NA	Prep	3050B			575262	12/03/20 17:53	BDE	TAL CHI
Total/NA	Analysis	6010B		5	575581	12/04/20 15:07	JJB	TAL CHI
Total/NA	Prep	7471B			575358	12/04/20 13:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	575661	12/07/20 10:59	MJG	TAL CHI
Total/NA	Prep	9010C			575405	12/04/20 14:54	PSP	TAL CHI
Total/NA	Analysis	9012B		1	575442	12/04/20 17:10	PSP	TAL CHI

Laboratory References:

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

Eurofins TestAmerica, Chicago

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191732-1

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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12

13

14

15

Address: _____

Regulatory Program: DW NPDES RCRA Other:

TAL-8210

Client Contact Company Name: <u>Terracon</u> Address: <u>192 Exchange Blvd</u> City/State/Zip: <u>Colendale Heights IL</u> Phone: <u>630-445-8160</u> Fax: _____ Project Name: <u>11207011N</u> Site: <u>11207011N</u> P O # _____		Project Manager: <u>Rich O'Brien @ Terracon</u> Tel/Email: <u>richobrien@terracon.com</u>		Site Contact: _____ Lab Contact: _____		Date: <u>11/30/20</u> Carrier: _____		COC No: _____ of _____ COCs Sampler: <u>D. G. F.</u> For Lab Use Only: Walk-in Client: _____ Lab Sampling: _____ Job / SDG No.: <u>500-191732</u>			
Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input checked="" type="checkbox"/> WORKING DAYS TAT if different from Below _____ <input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Sample Type (C=Comp, G=Grab) Matrix # of Cont.		Filtered Sample (Y/N) Perform MS / MSD (Y/N)		VOC's SVOC's Total PCB Inorganics / PH TCLP 23 Inorganics SPLP 23 Inorganics		Sample Identification: <u>500-191732 COC</u>		Sample Specific Notes: _____	
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____		Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample. <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months		Special Instructions/QC Requirements & Comments: <u>* NO Aluminan</u> <u>* Hold SPLP 23 Inorganics Per Terracon Instructions</u> <u>22-70, 039-1.7</u>		Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.: _____ Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____			
Relinquished by: <u>[Signature]</u> Company: <u>Terracon</u> Date/Time: <u>11/30/20 1620</u>		Relinquished by: <u>[Signature]</u> Company: <u>ETA</u> Date/Time: <u>11/30/20 1715</u>		Received by: <u>[Signature]</u> Company: <u>ETA</u> Date/Time: <u>11/30/20 1620</u>		Received by: <u>[Signature]</u> Company: <u>ETA</u> Date/Time: <u>12/1/20 0730</u>		Relinquished by: _____ Company: _____ Date/Time: _____		Received in Laboratory by: <u>[Signature]</u> Company: <u>ETA</u> Date/Time: <u>12/1/20 0730</u>	

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-191732-1

Login Number: 191732

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: James, Jeff A

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	0.0,1.7
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 346-US Rte 41, N/o Rt 173 - S/o Rockland Rd Office Phone Number, if available: _____

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

US Rte 41 (Southbound) IDOT STA 68+20 to 72+20 (ISGS Site 3138V-12)

City: Lake Forest State: IL Zip Code: 60045

County: Lake Township: West Deerfield

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

Latitude: 42.23008 Longitude: - 87.85365

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

EPA 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.): 294

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 3138V-12.

See Exhibit 6 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]:

Eurofins TestAmerica, Chicago - Lab Report No J191855-1.

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

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

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

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

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

Matt Weiss
Printed Name:

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

2/26/21
Date:



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

Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3138V-12-B02 (0-6.2)	3138V-12-B02 (0-6.2) DUP
		Chicago	MSAs		Sample Depth (feet)	(0-6.2)	(0-6.2)
					Date Collected	12/2/2020	12/2/2020
Volatile Organic Analytical Parameters							
Acetone	mg/kg	---	---	25		0.012	0.015
Semivolatile Organic Analytical Parameters							
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		<0.0079	0.014
Chrysene	mg/kg	1.2	2.7	88		<0.011	0.018
Phenanthrene	mg/kg	1.3	2.5	210		0.006	0.012
Pyrene	mg/kg	1.9	3.0	2300		0.0082	0.011
Inorganic Analytical Parameters							
Arsenic	mg/kg	---	13	11.3		5.6	4
Barium	mg/kg	---	110	1500		56	52
Cadmium	mg/kg	---	0.6	5.2		0.26	0.27
Chromium, total	mg/kg	---	16.2	21		19	19
Lead	mg/kg	---	36	107		12	13
Mercury	mg/kg	---	0.06	0.89		0.023	0.028
Selenium	mg/kg	---	0.48	1.3		<0.35	0.48
Silver	mg/kg	---	0.55	4.4		<0.076	<0.072
Antimony	mg/kg	---	4.0	5		0.68	0.68
Beryllium	mg/kg	---	0.59	22		0.8	0.83
Calcium	mg/kg	---	9,300	---		56000	62000
Cobalt	mg/kg	---	8.9	20		14	13
Copper	mg/kg	---	19.6	2900		21	22
Cyanide	mg/kg	---	0.51	---		<0.13	<0.14
Iron	mg/kg	---	15,900	15000		18000	18000
Magnesium	mg/kg	---	4,820	325000		30000	26000
Manganese	mg/kg	---	636	630		400	380
Nickel	mg/kg	---	18	100		33	33
Potassium	mg/kg	---	1,268	---		3600	3400
Sodium	mg/kg	---	130	---		780	850
Thallium	mg/kg	---	0.32	2.6		<0.30	0.28
Vanadium	mg/kg	---	25.2	550		22	23
Zinc	mg/kg	---	95	5100		55	59
pH			6.25	9		8.4	8.4

Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3138V-12-B02 (0-6.2)	3138V-12-B02 (0-6.2) DUP
		Chicago	MSAs		Sample Depth (feet)	(0-6.2)	(0-6.2)
					Date Collected	12/2/2020	12/2/2020
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	---	---	---		0.17	--
Magnesium,SPLP	mg/L	---	---	---		--	--
Manganese,SPLP	mg/L	---	---	---		2.3	2.2
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	---	---	---		0.53	0.6
Cadmium,TCLP	mg/L	---	---	---		0.0034	<0.0020
Chromium,TCLP	mg/L	---	---	---		<0.010	<0.010
Lead,TCLP	mg/L	---	---	---		0.013	<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	---	---	---		1000	530
Cobalt,TCLP	mg/L	---	---	---		0.036	<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	---	---	---		300	37
Manganese,TCLP	mg/L	---	---	---		6.5	3.2
Nickel,TCLP	mg/L	---	---	---		0.044	0.01
Potassium,TCLP	mg/L	---	---	---		1.9	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	---	---	---		0.031	<0.020

ANALYTICAL REPORT

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

Laboratory Job ID: 500-191855-1
Client Project/Site: IDOT - Lake County - WO 073

For:

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

Attn: Mr. Matthew Weiss



Authorized for release by:
12/14/2020 3:32:56 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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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191855-1

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
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.
V	Serial Dilution exceeds the control limits

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)

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191855-1

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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Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191855-1

Job ID: 500-191855-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-191855-1

Receipt

The samples were received on 12/2/2020 5:50 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.8° C and 1.6° C.

GC/MS VOA

Method 8260B: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for 575898 recovered outside control limits for the following analytes: Chloromethane and 1,1-Dichloroethane. These analytes were biased high in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 8260B: The laboratory control sample (LCS) for 576095 recovered outside control limits for Chloroethane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported. 3138V-12-B01 (0-1.3) (500-191855-1)

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

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 - Lake County - WO 073

Job ID: 500-191855-1

Client Sample ID: 3138V-12-B01 (0-1.3)

Lab Sample ID: 500-191855-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.0086	J	0.041	0.0074	mg/Kg	1	✳	8270D	Total/NA
Acenaphthylene	0.012	J	0.041	0.0054	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.038	J	0.041	0.0069	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.17		0.041	0.0056	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.20		0.041	0.0080	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.29		0.041	0.0089	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.074		0.041	0.013	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.12		0.041	0.012	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.22		0.041	0.011	mg/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	0.025	J	0.041	0.0080	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.33		0.041	0.0077	mg/Kg	1	✳	8270D	Total/NA
Fluorene	0.014	J	0.041	0.0058	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.078		0.041	0.011	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.19		0.041	0.0058	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.29		0.041	0.0082	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.88	J F1	1.2	0.23	mg/Kg	1	✳	6010B	Total/NA
Arsenic	6.5		0.59	0.20	mg/Kg	1	✳	6010B	Total/NA
Barium	64	V	0.59	0.067	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.83		0.24	0.055	mg/Kg	1	✳	6010B	Total/NA
Cadmium	1.2	B F1 V	0.12	0.021	mg/Kg	1	✳	6010B	Total/NA
Chromium	19	V	0.59	0.29	mg/Kg	1	✳	6010B	Total/NA
Cobalt	13		0.29	0.077	mg/Kg	1	✳	6010B	Total/NA
Copper	42	F1 F2	0.59	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	20000	V	12	6.1	mg/Kg	1	✳	6010B	Total/NA
Lead	220	F2	0.29	0.14	mg/Kg	1	✳	6010B	Total/NA
Magnesium	21000	F2 V	5.9	2.9	mg/Kg	1	✳	6010B	Total/NA
Calcium	32000	B F2 V	12	2.0	mg/Kg	1	✳	6010B	Total/NA
Manganese	490	V	0.59	0.085	mg/Kg	1	✳	6010B	Total/NA
Nickel	31		0.59	0.17	mg/Kg	1	✳	6010B	Total/NA
Selenium	0.43	J F1	0.59	0.35	mg/Kg	1	✳	6010B	Total/NA
Vanadium	25	V	0.29	0.069	mg/Kg	1	✳	6010B	Total/NA
Zinc	160	B F2	1.2	0.52	mg/Kg	1	✳	6010B	Total/NA
Potassium	2800	V	29	10	mg/Kg	1	✳	6010B	Total/NA
Sodium	1000	B F1 V	59	8.7	mg/Kg	1	✳	6010B	Total/NA
Barium	0.30	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0052		0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	330		5.0	0.50	mg/L	1		6010B	TCLP
Lead	0.0089		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	110		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.24		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.2	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.074	J	0.50	0.020	mg/L	1		6010B	TCLP
Cadmium	0.0037	J	0.0050	0.0020	mg/L	1		6010B	SPLP East
Lead	0.45		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.93		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.040		0.020	0.0067	mg/Kg	1	✳	7471B	Total/NA
Cyanide, Total	0.15	J	0.28	0.14	mg/Kg	1	✳	9012B	Total/NA
pH	8.5		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191855-1

Client Sample ID: 3138V-12-B02 (0-6.2)

Lab Sample ID: 500-191855-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.012	J	0.017	0.0076	mg/Kg	1	✳	8260B	Total/NA
Phenanthrene	0.0060	J	0.040	0.0057	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.0082	J	0.040	0.0081	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.68	J	1.2	0.23	mg/Kg	1	✳	6010B	Total/NA
Arsenic	5.6		0.59	0.20	mg/Kg	1	✳	6010B	Total/NA
Barium	56		0.59	0.067	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.80		0.24	0.055	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.26	B	0.12	0.021	mg/Kg	1	✳	6010B	Total/NA
Chromium	19		0.59	0.29	mg/Kg	1	✳	6010B	Total/NA
Cobalt	14		0.30	0.078	mg/Kg	1	✳	6010B	Total/NA
Copper	21		0.59	0.17	mg/Kg	1	✳	6010B	Total/NA
Iron	18000		12	6.2	mg/Kg	1	✳	6010B	Total/NA
Lead	12		0.30	0.14	mg/Kg	1	✳	6010B	Total/NA
Magnesium	30000		5.9	2.9	mg/Kg	1	✳	6010B	Total/NA
Calcium	56000	B	59	10	mg/Kg	5	✳	6010B	Total/NA
Manganese	400		0.59	0.086	mg/Kg	1	✳	6010B	Total/NA
Nickel	33		0.59	0.17	mg/Kg	1	✳	6010B	Total/NA
Vanadium	22		0.30	0.070	mg/Kg	1	✳	6010B	Total/NA
Zinc	55	B	1.2	0.52	mg/Kg	1	✳	6010B	Total/NA
Potassium	3600		30	10	mg/Kg	1	✳	6010B	Total/NA
Sodium	780	B	59	8.8	mg/Kg	1	✳	6010B	Total/NA
Barium	0.53		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0034	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	1000	B	25	2.5	mg/L	5		6010B	TCLP
Cobalt	0.036		0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.013		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	300		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	6.5		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.044		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.9	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.031	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.17		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	2.3		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.023		0.019	0.0064	mg/Kg	1	✳	7471B	Total/NA
pH	8.4		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3138V-12-B02 (0-6.2) Dup

Lab Sample ID: 500-191855-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.015	J	0.017	0.0075	mg/Kg	1	✳	8260B	Total/NA
Benzo[a]pyrene	0.014	J	0.040	0.0077	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.018	J	0.040	0.011	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.012	J	0.040	0.0056	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.011	J	0.040	0.0079	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.68	J	1.1	0.22	mg/Kg	1	✳	6010B	Total/NA
Arsenic	4.0		0.56	0.19	mg/Kg	1	✳	6010B	Total/NA
Barium	52		0.56	0.064	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.83		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	19		0.56	0.28	mg/Kg	1	✳	6010B	Total/NA
Cobalt	13		0.28	0.073	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 - Lake County - WO 073

Job ID: 500-191855-1

Client Sample ID: 3138V-12-B02 (0-6.2) Dup (Continued)

Lab Sample ID: 500-191855-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	22		0.56	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	18000		11	5.8	mg/Kg	1	✳	6010B	Total/NA
Lead	13		0.28	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	26000		5.6	2.8	mg/Kg	1	✳	6010B	Total/NA
Calcium	62000	B	56	9.5	mg/Kg	5	✳	6010B	Total/NA
Manganese	380		0.56	0.081	mg/Kg	1	✳	6010B	Total/NA
Nickel	33		0.56	0.16	mg/Kg	1	✳	6010B	Total/NA
Selenium	0.48	J	0.56	0.33	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.28	J	0.56	0.28	mg/Kg	1	✳	6010B	Total/NA
Vanadium	23		0.28	0.066	mg/Kg	1	✳	6010B	Total/NA
Zinc	59	B	1.1	0.49	mg/Kg	1	✳	6010B	Total/NA
Potassium	3400		28	9.9	mg/Kg	1	✳	6010B	Total/NA
Sodium	850	B	56	8.3	mg/Kg	1	✳	6010B	Total/NA
Barium	0.60		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	530		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	37		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	3.2		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.010	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.3	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	2.2		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.028		0.020	0.0066	mg/Kg	1	✳	7471B	Total/NA
pH	8.4		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3138V-12-B03 (0-1.3)

Lab Sample ID: 500-191855-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.011	J	0.040	0.0052	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.026	J	0.040	0.0067	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.12		0.040	0.0054	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.16		0.040	0.0077	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.22		0.040	0.0086	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.080		0.040	0.013	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.087		0.040	0.012	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.15		0.040	0.011	mg/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	0.019	J	0.040	0.0077	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.21		0.040	0.0074	mg/Kg	1	✳	8270D	Total/NA
Fluorene	0.0060	J	0.040	0.0056	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.069		0.040	0.010	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.096		0.040	0.0055	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.21		0.040	0.0079	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.90	J	1.2	0.23	mg/Kg	1	✳	6010B	Total/NA
Arsenic	6.7		0.59	0.20	mg/Kg	1	✳	6010B	Total/NA
Barium	55		0.59	0.067	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.86		0.24	0.055	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.91	B	0.12	0.021	mg/Kg	1	✳	6010B	Total/NA
Chromium	17		0.59	0.29	mg/Kg	1	✳	6010B	Total/NA
Cobalt	11		0.29	0.077	mg/Kg	1	✳	6010B	Total/NA
Copper	56		0.59	0.17	mg/Kg	1	✳	6010B	Total/NA
Iron	19000		12	6.1	mg/Kg	1	✳	6010B	Total/NA
Lead	320		0.29	0.14	mg/Kg	1	✳	6010B	Total/NA
Magnesium	26000		5.9	2.9	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 - Lake County - WO 073

Job ID: 500-191855-1

Client Sample ID: 3138V-12-B03 (0-1.3) (Continued)

Lab Sample ID: 500-191855-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	72000	B	59	10	mg/Kg	5	✳	6010B	Total/NA
Manganese	460		0.59	0.086	mg/Kg	1	✳	6010B	Total/NA
Nickel	29		0.59	0.17	mg/Kg	1	✳	6010B	Total/NA
Selenium	0.40	J	0.59	0.35	mg/Kg	1	✳	6010B	Total/NA
Vanadium	22		0.29	0.070	mg/Kg	1	✳	6010B	Total/NA
Zinc	270	B	1.2	0.52	mg/Kg	1	✳	6010B	Total/NA
Potassium	2300		29	10	mg/Kg	1	✳	6010B	Total/NA
Sodium	1300	B	59	8.7	mg/Kg	1	✳	6010B	Total/NA
Barium	0.39	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0085		0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	370		5.0	0.50	mg/L	1		6010B	TCLP
Lead	0.065		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	98		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.86		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.022	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.7	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.10	J	0.50	0.020	mg/L	1		6010B	TCLP
Cadmium	0.0056		0.0050	0.0020	mg/L	1		6010B	SPLP East
Lead	1.7		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	1.0		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.041		0.019	0.0064	mg/Kg	1	✳	7471B	Total/NA
pH	8.5		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191855-1

Client Sample ID: 3138V-12-B01 (0-1.3)

Lab Sample ID: 500-191855-1

Date Collected: 12/02/20 12:45

Matrix: Solid

Date Received: 12/02/20 17:50

Percent Solids: 80.3

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	✳	12/03/20 17:19	12/10/20 09:41	1
Benzene	<0.00041		0.0016	0.00041	mg/Kg	✳	12/03/20 17:19	12/10/20 09:41	1
Bromodichloromethane	<0.00033		0.0016	0.00033	mg/Kg	✳	12/03/20 17:19	12/10/20 09:41	1
Bromoform	<0.00047		0.0016	0.00047	mg/Kg	✳	12/03/20 17:19	12/10/20 09:41	1
Bromomethane	<0.0015		0.0040	0.0015	mg/Kg	✳	12/03/20 17:19	12/10/20 09:41	1
2-Butanone (MEK)	<0.0018		0.0040	0.0018	mg/Kg	✳	12/03/20 17:19	12/10/20 09:41	1
Carbon disulfide	<0.00083		0.0040	0.00083	mg/Kg	✳	12/03/20 17:19	12/10/20 09:41	1
Carbon tetrachloride	<0.00046		0.0016	0.00046	mg/Kg	✳	12/03/20 17:19	12/10/20 09:41	1
Chlorobenzene	<0.00059		0.0016	0.00059	mg/Kg	✳	12/03/20 17:19	12/10/20 09:41	1
Chloroethane	<0.0012 *		0.0040	0.0012	mg/Kg	✳	12/03/20 17:19	12/10/20 09:41	1
Chloroform	<0.00056		0.0016	0.00056	mg/Kg	✳	12/03/20 17:19	12/10/20 09:41	1
Chloromethane	<0.0016		0.0040	0.0016	mg/Kg	✳	12/03/20 17:19	12/10/20 09:41	1
cis-1,2-Dichloroethene	<0.00045		0.0016	0.00045	mg/Kg	✳	12/03/20 17:19	12/10/20 09:41	1
cis-1,3-Dichloropropene	<0.00048		0.0016	0.00048	mg/Kg	✳	12/03/20 17:19	12/10/20 09:41	1
Dibromochloromethane	<0.00052		0.0016	0.00052	mg/Kg	✳	12/03/20 17:19	12/10/20 09:41	1
1,1-Dichloroethane	<0.00055		0.0016	0.00055	mg/Kg	✳	12/03/20 17:19	12/10/20 09:41	1
1,2-Dichloroethane	<0.0012		0.0040	0.0012	mg/Kg	✳	12/03/20 17:19	12/10/20 09:41	1
1,1-Dichloroethene	<0.00055		0.0016	0.00055	mg/Kg	✳	12/03/20 17:19	12/10/20 09:41	1
1,2-Dichloropropene	<0.00041		0.0016	0.00041	mg/Kg	✳	12/03/20 17:19	12/10/20 09:41	1
1,3-Dichloropropene, Total	<0.00056		0.0016	0.00056	mg/Kg	✳	12/03/20 17:19	12/10/20 09:41	1
Ethylbenzene	<0.00077		0.0016	0.00077	mg/Kg	✳	12/03/20 17:19	12/10/20 09:41	1
2-Hexanone	<0.0012		0.0040	0.0012	mg/Kg	✳	12/03/20 17:19	12/10/20 09:41	1
Methylene Chloride	<0.0016		0.0040	0.0016	mg/Kg	✳	12/03/20 17:19	12/10/20 09:41	1
4-Methyl-2-pentanone (MIBK)	<0.0012		0.0040	0.0012	mg/Kg	✳	12/03/20 17:19	12/10/20 09:41	1
Methyl tert-butyl ether	<0.00047		0.0016	0.00047	mg/Kg	✳	12/03/20 17:19	12/10/20 09:41	1
Styrene	<0.00048		0.0016	0.00048	mg/Kg	✳	12/03/20 17:19	12/10/20 09:41	1
1,1,2,2-Tetrachloroethane	<0.00051		0.0016	0.00051	mg/Kg	✳	12/03/20 17:19	12/10/20 09:41	1
Tetrachloroethene	<0.00055		0.0016	0.00055	mg/Kg	✳	12/03/20 17:19	12/10/20 09:41	1
Toluene	<0.00040		0.0016	0.00040	mg/Kg	✳	12/03/20 17:19	12/10/20 09:41	1
trans-1,2-Dichloroethene	<0.00071		0.0016	0.00071	mg/Kg	✳	12/03/20 17:19	12/10/20 09:41	1
trans-1,3-Dichloropropene	<0.00056		0.0016	0.00056	mg/Kg	✳	12/03/20 17:19	12/10/20 09:41	1
1,1,1-Trichloroethane	<0.00054		0.0016	0.00054	mg/Kg	✳	12/03/20 17:19	12/10/20 09:41	1
1,1,2-Trichloroethane	<0.00069		0.0016	0.00069	mg/Kg	✳	12/03/20 17:19	12/10/20 09:41	1
Trichloroethene	<0.00054		0.0016	0.00054	mg/Kg	✳	12/03/20 17:19	12/10/20 09:41	1
Vinyl acetate	<0.0014		0.0040	0.0014	mg/Kg	✳	12/03/20 17:19	12/10/20 09:41	1
Vinyl chloride	<0.00071		0.0016	0.00071	mg/Kg	✳	12/03/20 17:19	12/10/20 09:41	1
Xylenes, Total	<0.00051		0.0032	0.00051	mg/Kg	✳	12/03/20 17:19	12/10/20 09:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		75 - 131	12/03/20 17:19	12/10/20 09:41	1
Dibromofluoromethane	99		75 - 126	12/03/20 17:19	12/10/20 09:41	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	12/03/20 17:19	12/10/20 09:41	1
Toluene-d8 (Surr)	98		75 - 124	12/03/20 17:19	12/10/20 09:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.0086	J	0.041	0.0074	mg/Kg	✳	12/08/20 17:04	12/09/20 16:01	1
Acenaphthylene	0.012	J	0.041	0.0054	mg/Kg	✳	12/08/20 17:04	12/09/20 16:01	1
Anthracene	0.038	J	0.041	0.0069	mg/Kg	✳	12/08/20 17:04	12/09/20 16:01	1
Benzo[a]anthracene	0.17		0.041	0.0056	mg/Kg	✳	12/08/20 17:04	12/09/20 16:01	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191855-1

Client Sample ID: 3138V-12-B01 (0-1.3)

Lab Sample ID: 500-191855-1

Date Collected: 12/02/20 12:45

Matrix: Solid

Date Received: 12/02/20 17:50

Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.20		0.041	0.0080	mg/Kg	☼	12/08/20 17:04	12/09/20 16:01	1
Benzo[b]fluoranthene	0.29		0.041	0.0089	mg/Kg	☼	12/08/20 17:04	12/09/20 16:01	1
Benzo[g,h,i]perylene	0.074		0.041	0.013	mg/Kg	☼	12/08/20 17:04	12/09/20 16:01	1
Benzo[k]fluoranthene	0.12		0.041	0.012	mg/Kg	☼	12/08/20 17:04	12/09/20 16:01	1
Bis(2-chloroethoxy)methane	<0.042		0.21	0.042	mg/Kg	☼	12/08/20 17:04	12/09/20 16:01	1
Bis(2-chloroethyl)ether	<0.062		0.21	0.062	mg/Kg	☼	12/08/20 17:04	12/09/20 16:01	1
Bis(2-ethylhexyl) phthalate	<0.075		0.21	0.075	mg/Kg	☼	12/08/20 17:04	12/09/20 16:01	1
4-Bromophenyl phenyl ether	<0.054		0.21	0.054	mg/Kg	☼	12/08/20 17:04	12/09/20 16:01	1
Butyl benzyl phthalate	<0.079		0.21	0.079	mg/Kg	☼	12/08/20 17:04	12/09/20 16:01	1
Carbazole	<0.10		0.21	0.10	mg/Kg	☼	12/08/20 17:04	12/09/20 16:01	1
4-Chloroaniline	<0.19		0.83	0.19	mg/Kg	☼	12/08/20 17:04	12/09/20 16:01	1
4-Chloro-3-methylphenol	<0.14		0.41	0.14	mg/Kg	☼	12/08/20 17:04	12/09/20 16:01	1
2-Chloronaphthalene	<0.046		0.21	0.046	mg/Kg	☼	12/08/20 17:04	12/09/20 16:01	1
2-Chlorophenol	<0.070		0.21	0.070	mg/Kg	☼	12/08/20 17:04	12/09/20 16:01	1
4-Chlorophenyl phenyl ether	<0.048		0.21	0.048	mg/Kg	☼	12/08/20 17:04	12/09/20 16:01	1
Chrysene	0.22		0.041	0.011	mg/Kg	☼	12/08/20 17:04	12/09/20 16:01	1
Dibenz(a,h)anthracene	0.025 J		0.041	0.0080	mg/Kg	☼	12/08/20 17:04	12/09/20 16:01	1
Dibenzofuran	<0.048		0.21	0.048	mg/Kg	☼	12/08/20 17:04	12/09/20 16:01	1
1,2-Dichlorobenzene	<0.049		0.21	0.049	mg/Kg	☼	12/08/20 17:04	12/09/20 16:01	1
1,3-Dichlorobenzene	<0.046		0.21	0.046	mg/Kg	☼	12/08/20 17:04	12/09/20 16:01	1
1,4-Dichlorobenzene	<0.053		0.21	0.053	mg/Kg	☼	12/08/20 17:04	12/09/20 16:01	1
3,3'-Dichlorobenzidine	<0.058		0.21	0.058	mg/Kg	☼	12/08/20 17:04	12/09/20 16:01	1
2,4-Dichlorophenol	<0.098		0.41	0.098	mg/Kg	☼	12/08/20 17:04	12/09/20 16:01	1
Diethyl phthalate	<0.070		0.21	0.070	mg/Kg	☼	12/08/20 17:04	12/09/20 16:01	1
2,4-Dimethylphenol	<0.16		0.41	0.16	mg/Kg	☼	12/08/20 17:04	12/09/20 16:01	1
Dimethyl phthalate	<0.054		0.21	0.054	mg/Kg	☼	12/08/20 17:04	12/09/20 16:01	1
Di-n-butyl phthalate	<0.063		0.21	0.063	mg/Kg	☼	12/08/20 17:04	12/09/20 16:01	1
4,6-Dinitro-2-methylphenol	<0.33		0.83	0.33	mg/Kg	☼	12/08/20 17:04	12/09/20 16:01	1
2,4-Dinitrophenol	<0.73		0.83	0.73	mg/Kg	☼	12/08/20 17:04	12/09/20 16:01	1
2,4-Dinitrotoluene	<0.066		0.21	0.066	mg/Kg	☼	12/08/20 17:04	12/09/20 16:01	1
2,6-Dinitrotoluene	<0.081		0.21	0.081	mg/Kg	☼	12/08/20 17:04	12/09/20 16:01	1
Di-n-octyl phthalate	<0.067		0.21	0.067	mg/Kg	☼	12/08/20 17:04	12/09/20 16:01	1
Fluoranthene	0.33		0.041	0.0077	mg/Kg	☼	12/08/20 17:04	12/09/20 16:01	1
Fluorene	0.014 J		0.041	0.0058	mg/Kg	☼	12/08/20 17:04	12/09/20 16:01	1
Hexachlorobenzene	<0.0096		0.083	0.0096	mg/Kg	☼	12/08/20 17:04	12/09/20 16:01	1
Hexachlorobutadiene	<0.065		0.21	0.065	mg/Kg	☼	12/08/20 17:04	12/09/20 16:01	1
Hexachlorocyclopentadiene	<0.24		0.83	0.24	mg/Kg	☼	12/08/20 17:04	12/09/20 16:01	1
Hexachloroethane	<0.063		0.21	0.063	mg/Kg	☼	12/08/20 17:04	12/09/20 16:01	1
Indeno[1,2,3-cd]pyrene	0.078		0.041	0.011	mg/Kg	☼	12/08/20 17:04	12/09/20 16:01	1
Isophorone	<0.046		0.21	0.046	mg/Kg	☼	12/08/20 17:04	12/09/20 16:01	1
2-Methylnaphthalene	<0.0076		0.083	0.0076	mg/Kg	☼	12/08/20 17:04	12/09/20 16:01	1
2-Methylphenol	<0.066		0.21	0.066	mg/Kg	☼	12/08/20 17:04	12/09/20 16:01	1
3 & 4 Methylphenol	<0.069		0.21	0.069	mg/Kg	☼	12/08/20 17:04	12/09/20 16:01	1
Naphthalene	<0.0063		0.041	0.0063	mg/Kg	☼	12/08/20 17:04	12/09/20 16:01	1
2-Nitroaniline	<0.056		0.21	0.056	mg/Kg	☼	12/08/20 17:04	12/09/20 16:01	1
3-Nitroaniline	<0.13		0.41	0.13	mg/Kg	☼	12/08/20 17:04	12/09/20 16:01	1
4-Nitroaniline	<0.17		0.41	0.17	mg/Kg	☼	12/08/20 17:04	12/09/20 16:01	1
Nitrobenzene	<0.010		0.041	0.010	mg/Kg	☼	12/08/20 17:04	12/09/20 16:01	1
2-Nitrophenol	<0.098		0.41	0.098	mg/Kg	☼	12/08/20 17:04	12/09/20 16:01	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191855-1

Client Sample ID: 3138V-12-B01 (0-1.3)

Lab Sample ID: 500-191855-1

Date Collected: 12/02/20 12:45

Matrix: Solid

Date Received: 12/02/20 17:50

Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.39		0.83	0.39	mg/Kg	☼	12/08/20 17:04	12/09/20 16:01	1
N-Nitrosodi-n-propylamine	<0.050		0.083	0.050	mg/Kg	☼	12/08/20 17:04	12/09/20 16:01	1
N-Nitrosodiphenylamine	<0.049		0.21	0.049	mg/Kg	☼	12/08/20 17:04	12/09/20 16:01	1
2,2'-oxybis[1-chloropropane]	<0.048		0.21	0.048	mg/Kg	☼	12/08/20 17:04	12/09/20 16:01	1
Pentachlorophenol	<0.66		0.83	0.66	mg/Kg	☼	12/08/20 17:04	12/09/20 16:01	1
Phenanthrene	0.19		0.041	0.0058	mg/Kg	☼	12/08/20 17:04	12/09/20 16:01	1
Phenol	<0.092		0.21	0.092	mg/Kg	☼	12/08/20 17:04	12/09/20 16:01	1
Pyrene	0.29		0.041	0.0082	mg/Kg	☼	12/08/20 17:04	12/09/20 16:01	1
1,2,4-Trichlorobenzene	<0.044		0.21	0.044	mg/Kg	☼	12/08/20 17:04	12/09/20 16:01	1
2,4,5-Trichlorophenol	<0.094		0.41	0.094	mg/Kg	☼	12/08/20 17:04	12/09/20 16:01	1
2,4,6-Trichlorophenol	<0.14		0.41	0.14	mg/Kg	☼	12/08/20 17:04	12/09/20 16:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	90		43 - 145				12/08/20 17:04	12/09/20 16:01	1
2-Fluorophenol	67		31 - 166				12/08/20 17:04	12/09/20 16:01	1
Nitrobenzene-d5	69		37 - 147				12/08/20 17:04	12/09/20 16:01	1
Phenol-d5	70		30 - 153				12/08/20 17:04	12/09/20 16:01	1
Terphenyl-d14	86		42 - 157				12/08/20 17:04	12/09/20 16:01	1
2,4,6-Tribromophenol	51		31 - 143				12/08/20 17:04	12/09/20 16:01	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.88	J F1	1.2	0.23	mg/Kg	☼	12/07/20 18:09	12/08/20 18:14	1
Arsenic	6.5		0.59	0.20	mg/Kg	☼	12/07/20 18:09	12/08/20 18:14	1
Barium	64	V	0.59	0.067	mg/Kg	☼	12/07/20 18:09	12/08/20 18:14	1
Beryllium	0.83		0.24	0.055	mg/Kg	☼	12/07/20 18:09	12/08/20 18:14	1
Cadmium	1.2	B F1 V	0.12	0.021	mg/Kg	☼	12/07/20 18:09	12/08/20 18:14	1
Chromium	19	V	0.59	0.29	mg/Kg	☼	12/07/20 18:09	12/08/20 18:14	1
Cobalt	13		0.29	0.077	mg/Kg	☼	12/07/20 18:09	12/08/20 18:14	1
Copper	42	F1 F2	0.59	0.16	mg/Kg	☼	12/07/20 18:09	12/08/20 18:14	1
Iron	20000	V	12	6.1	mg/Kg	☼	12/07/20 18:09	12/08/20 18:14	1
Lead	220	F2	0.29	0.14	mg/Kg	☼	12/07/20 18:09	12/08/20 18:14	1
Magnesium	21000	F2 V	5.9	2.9	mg/Kg	☼	12/07/20 18:09	12/08/20 18:14	1
Calcium	32000	B F2 V	12	2.0	mg/Kg	☼	12/07/20 18:09	12/08/20 18:14	1
Manganese	490	V	0.59	0.085	mg/Kg	☼	12/07/20 18:09	12/08/20 18:14	1
Nickel	31		0.59	0.17	mg/Kg	☼	12/07/20 18:09	12/08/20 18:14	1
Selenium	0.43	J F1	0.59	0.35	mg/Kg	☼	12/07/20 18:09	12/08/20 18:14	1
Silver	<0.076		0.29	0.076	mg/Kg	☼	12/07/20 18:09	12/08/20 18:14	1
Thallium	<0.29		0.59	0.29	mg/Kg	☼	12/07/20 18:09	12/08/20 18:14	1
Vanadium	25	V	0.29	0.069	mg/Kg	☼	12/07/20 18:09	12/08/20 18:14	1
Zinc	160	B F2	1.2	0.52	mg/Kg	☼	12/07/20 18:09	12/08/20 18:14	1
Potassium	2800	V	29	10	mg/Kg	☼	12/07/20 18:09	12/08/20 18:14	1
Sodium	1000	B F1 V	59	8.7	mg/Kg	☼	12/07/20 18:09	12/08/20 18:14	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		12/08/20 17:06	12/09/20 22:21	1
Barium	0.30	J	0.50	0.050	mg/L		12/08/20 17:06	12/09/20 22:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/08/20 17:06	12/10/20 12:43	1
Cadmium	0.0052		0.0050	0.0020	mg/L		12/08/20 17:06	12/09/20 22:21	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191855-1

Client Sample ID: 3138V-12-B01 (0-1.3)

Lab Sample ID: 500-191855-1

Date Collected: 12/02/20 12:45

Matrix: Solid

Date Received: 12/02/20 17:50

Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	330		5.0	0.50	mg/L		12/08/20 17:06	12/09/20 22:21	1
Chromium	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 22:21	1
Cobalt	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 22:21	1
Copper	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 22:21	1
Iron	<0.20		0.40	0.20	mg/L		12/08/20 17:06	12/09/20 22:21	1
Lead	0.0089		0.0075	0.0075	mg/L		12/08/20 17:06	12/09/20 22:21	1
Magnesium	110		2.5	0.50	mg/L		12/08/20 17:06	12/10/20 12:43	1
Manganese	0.24		0.025	0.010	mg/L		12/08/20 17:06	12/10/20 12:43	1
Nickel	0.014	J	0.025	0.010	mg/L		12/08/20 17:06	12/09/20 22:21	1
Potassium	2.2	J	2.5	0.50	mg/L		12/08/20 17:06	12/09/20 22:21	1
Selenium	<0.020		0.050	0.020	mg/L		12/08/20 17:06	12/09/20 22:21	1
Silver	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 22:21	1
Vanadium	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 22:21	1
Zinc	0.074	J	0.50	0.020	mg/L		12/08/20 17:06	12/09/20 22:21	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0037	J	0.0050	0.0020	mg/L		12/08/20 17:10	12/09/20 23:29	1
Lead	0.45		0.0075	0.0075	mg/L		12/08/20 17:10	12/09/20 23:29	1
Manganese	0.93		0.025	0.010	mg/L		12/08/20 17:10	12/11/20 11:18	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		12/08/20 17:06	12/09/20 14:53	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/08/20 17:06	12/09/20 14:53	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		12/09/20 08:35	12/10/20 07:13	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.040		0.020	0.0067	mg/Kg	☼	12/08/20 14:00	12/09/20 07:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.15	J	0.28	0.14	mg/Kg	☼	12/07/20 14:07	12/07/20 17:29	1
pH	8.5		0.2	0.2	SU			12/08/20 11:44	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191855-1

Client Sample ID: 3138V-12-B02 (0-6.2)

Lab Sample ID: 500-191855-2

Date Collected: 12/02/20 12:20

Matrix: Solid

Date Received: 12/02/20 17:50

Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.012	J	0.017	0.0076	mg/Kg	☼	12/03/20 17:19	12/09/20 03:22	1
Benzene	<0.00044		0.0017	0.00044	mg/Kg	☼	12/03/20 17:19	12/09/20 03:22	1
Bromodichloromethane	<0.00035		0.0017	0.00035	mg/Kg	☼	12/03/20 17:19	12/09/20 03:22	1
Bromoform	<0.00051		0.0017	0.00051	mg/Kg	☼	12/03/20 17:19	12/09/20 03:22	1
Bromomethane	<0.0016		0.0043	0.0016	mg/Kg	☼	12/03/20 17:19	12/09/20 03:22	1
2-Butanone (MEK)	<0.0019		0.0043	0.0019	mg/Kg	☼	12/03/20 17:19	12/09/20 03:22	1
Carbon disulfide	<0.00090		0.0043	0.00090	mg/Kg	☼	12/03/20 17:19	12/09/20 03:22	1
Carbon tetrachloride	<0.00050		0.0017	0.00050	mg/Kg	☼	12/03/20 17:19	12/09/20 03:22	1
Chlorobenzene	<0.00064		0.0017	0.00064	mg/Kg	☼	12/03/20 17:19	12/09/20 03:22	1
Chloroethane	<0.0013		0.0043	0.0013	mg/Kg	☼	12/03/20 17:19	12/09/20 03:22	1
Chloroform	<0.00060		0.0017	0.00060	mg/Kg	☼	12/03/20 17:19	12/09/20 03:22	1
Chloromethane	<0.0017	*	0.0043	0.0017	mg/Kg	☼	12/03/20 17:19	12/09/20 03:22	1
cis-1,2-Dichloroethene	<0.00048		0.0017	0.00048	mg/Kg	☼	12/03/20 17:19	12/09/20 03:22	1
cis-1,3-Dichloropropene	<0.00052		0.0017	0.00052	mg/Kg	☼	12/03/20 17:19	12/09/20 03:22	1
Dibromochloromethane	<0.00057		0.0017	0.00057	mg/Kg	☼	12/03/20 17:19	12/09/20 03:22	1
1,1-Dichloroethane	<0.00059	*	0.0017	0.00059	mg/Kg	☼	12/03/20 17:19	12/09/20 03:22	1
1,2-Dichloroethane	<0.0014		0.0043	0.0014	mg/Kg	☼	12/03/20 17:19	12/09/20 03:22	1
1,1-Dichloroethene	<0.00060		0.0017	0.00060	mg/Kg	☼	12/03/20 17:19	12/09/20 03:22	1
1,2-Dichloropropene	<0.00045		0.0017	0.00045	mg/Kg	☼	12/03/20 17:19	12/09/20 03:22	1
1,3-Dichloropropene, Total	<0.00061		0.0017	0.00061	mg/Kg	☼	12/03/20 17:19	12/09/20 03:22	1
Ethylbenzene	<0.00083		0.0017	0.00083	mg/Kg	☼	12/03/20 17:19	12/09/20 03:22	1
2-Hexanone	<0.0014		0.0043	0.0014	mg/Kg	☼	12/03/20 17:19	12/09/20 03:22	1
Methylene Chloride	<0.0017		0.0043	0.0017	mg/Kg	☼	12/03/20 17:19	12/09/20 03:22	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0043	0.0013	mg/Kg	☼	12/03/20 17:19	12/09/20 03:22	1
Methyl tert-butyl ether	<0.00051		0.0017	0.00051	mg/Kg	☼	12/03/20 17:19	12/09/20 03:22	1
Styrene	<0.00052		0.0017	0.00052	mg/Kg	☼	12/03/20 17:19	12/09/20 03:22	1
1,1,2,2-Tetrachloroethane	<0.00055		0.0017	0.00055	mg/Kg	☼	12/03/20 17:19	12/09/20 03:22	1
Tetrachloroethene	<0.00059		0.0017	0.00059	mg/Kg	☼	12/03/20 17:19	12/09/20 03:22	1
Toluene	<0.00044		0.0017	0.00044	mg/Kg	☼	12/03/20 17:19	12/09/20 03:22	1
trans-1,2-Dichloroethene	<0.00077		0.0017	0.00077	mg/Kg	☼	12/03/20 17:19	12/09/20 03:22	1
trans-1,3-Dichloropropene	<0.00061		0.0017	0.00061	mg/Kg	☼	12/03/20 17:19	12/09/20 03:22	1
1,1,1-Trichloroethane	<0.00058		0.0017	0.00058	mg/Kg	☼	12/03/20 17:19	12/09/20 03:22	1
1,1,2-Trichloroethane	<0.00074		0.0017	0.00074	mg/Kg	☼	12/03/20 17:19	12/09/20 03:22	1
Trichloroethene	<0.00059		0.0017	0.00059	mg/Kg	☼	12/03/20 17:19	12/09/20 03:22	1
Vinyl acetate	<0.0015		0.0043	0.0015	mg/Kg	☼	12/03/20 17:19	12/09/20 03:22	1
Vinyl chloride	<0.00077		0.0017	0.00077	mg/Kg	☼	12/03/20 17:19	12/09/20 03:22	1
Xylenes, Total	<0.00055		0.0035	0.00055	mg/Kg	☼	12/03/20 17:19	12/09/20 03:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		75 - 131	12/03/20 17:19	12/09/20 03:22	1
Dibromofluoromethane	99		75 - 126	12/03/20 17:19	12/09/20 03:22	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	12/03/20 17:19	12/09/20 03:22	1
Toluene-d8 (Surr)	92		75 - 124	12/03/20 17:19	12/09/20 03:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0073		0.040	0.0073	mg/Kg	☼	12/08/20 17:04	12/09/20 14:42	1
Acenaphthylene	<0.0054		0.040	0.0054	mg/Kg	☼	12/08/20 17:04	12/09/20 14:42	1
Anthracene	<0.0068		0.040	0.0068	mg/Kg	☼	12/08/20 17:04	12/09/20 14:42	1
Benzo[a]anthracene	<0.0055		0.040	0.0055	mg/Kg	☼	12/08/20 17:04	12/09/20 14:42	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191855-1

Client Sample ID: 3138V-12-B02 (0-6.2)

Lab Sample ID: 500-191855-2

Date Collected: 12/02/20 12:20

Matrix: Solid

Date Received: 12/02/20 17:50

Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.0079		0.040	0.0079	mg/Kg	☼	12/08/20 17:04	12/09/20 14:42	1
Benzo[b]fluoranthene	<0.0088		0.040	0.0088	mg/Kg	☼	12/08/20 17:04	12/09/20 14:42	1
Benzo[g,h,i]perylene	<0.013		0.040	0.013	mg/Kg	☼	12/08/20 17:04	12/09/20 14:42	1
Benzo[k]fluoranthene	<0.012		0.040	0.012	mg/Kg	☼	12/08/20 17:04	12/09/20 14:42	1
Bis(2-chloroethoxy)methane	<0.041		0.20	0.041	mg/Kg	☼	12/08/20 17:04	12/09/20 14:42	1
Bis(2-chloroethyl)ether	<0.061		0.20	0.061	mg/Kg	☼	12/08/20 17:04	12/09/20 14:42	1
Bis(2-ethylhexyl) phthalate	<0.074		0.20	0.074	mg/Kg	☼	12/08/20 17:04	12/09/20 14:42	1
4-Bromophenyl phenyl ether	<0.054		0.20	0.054	mg/Kg	☼	12/08/20 17:04	12/09/20 14:42	1
Butyl benzyl phthalate	<0.077		0.20	0.077	mg/Kg	☼	12/08/20 17:04	12/09/20 14:42	1
Carbazole	<0.10		0.20	0.10	mg/Kg	☼	12/08/20 17:04	12/09/20 14:42	1
4-Chloroaniline	<0.19		0.82	0.19	mg/Kg	☼	12/08/20 17:04	12/09/20 14:42	1
4-Chloro-3-methylphenol	<0.14		0.40	0.14	mg/Kg	☼	12/08/20 17:04	12/09/20 14:42	1
2-Chloronaphthalene	<0.045		0.20	0.045	mg/Kg	☼	12/08/20 17:04	12/09/20 14:42	1
2-Chlorophenol	<0.069		0.20	0.069	mg/Kg	☼	12/08/20 17:04	12/09/20 14:42	1
4-Chlorophenyl phenyl ether	<0.047		0.20	0.047	mg/Kg	☼	12/08/20 17:04	12/09/20 14:42	1
Chrysene	<0.011		0.040	0.011	mg/Kg	☼	12/08/20 17:04	12/09/20 14:42	1
Dibenz(a,h)anthracene	<0.0078		0.040	0.0078	mg/Kg	☼	12/08/20 17:04	12/09/20 14:42	1
Dibenzofuran	<0.048		0.20	0.048	mg/Kg	☼	12/08/20 17:04	12/09/20 14:42	1
1,2-Dichlorobenzene	<0.049		0.20	0.049	mg/Kg	☼	12/08/20 17:04	12/09/20 14:42	1
1,3-Dichlorobenzene	<0.046		0.20	0.046	mg/Kg	☼	12/08/20 17:04	12/09/20 14:42	1
1,4-Dichlorobenzene	<0.052		0.20	0.052	mg/Kg	☼	12/08/20 17:04	12/09/20 14:42	1
3,3'-Dichlorobenzidine	<0.057		0.20	0.057	mg/Kg	☼	12/08/20 17:04	12/09/20 14:42	1
2,4-Dichlorophenol	<0.096		0.40	0.096	mg/Kg	☼	12/08/20 17:04	12/09/20 14:42	1
Diethyl phthalate	<0.069		0.20	0.069	mg/Kg	☼	12/08/20 17:04	12/09/20 14:42	1
2,4-Dimethylphenol	<0.15		0.40	0.15	mg/Kg	☼	12/08/20 17:04	12/09/20 14:42	1
Dimethyl phthalate	<0.053		0.20	0.053	mg/Kg	☼	12/08/20 17:04	12/09/20 14:42	1
Di-n-butyl phthalate	<0.062		0.20	0.062	mg/Kg	☼	12/08/20 17:04	12/09/20 14:42	1
4,6-Dinitro-2-methylphenol	<0.33		0.82	0.33	mg/Kg	☼	12/08/20 17:04	12/09/20 14:42	1
2,4-Dinitrophenol	<0.71		0.82	0.71	mg/Kg	☼	12/08/20 17:04	12/09/20 14:42	1
2,4-Dinitrotoluene	<0.065		0.20	0.065	mg/Kg	☼	12/08/20 17:04	12/09/20 14:42	1
2,6-Dinitrotoluene	<0.080		0.20	0.080	mg/Kg	☼	12/08/20 17:04	12/09/20 14:42	1
Di-n-octyl phthalate	<0.066		0.20	0.066	mg/Kg	☼	12/08/20 17:04	12/09/20 14:42	1
Fluoranthene	<0.0075		0.040	0.0075	mg/Kg	☼	12/08/20 17:04	12/09/20 14:42	1
Fluorene	<0.0057		0.040	0.0057	mg/Kg	☼	12/08/20 17:04	12/09/20 14:42	1
Hexachlorobenzene	<0.0094		0.082	0.0094	mg/Kg	☼	12/08/20 17:04	12/09/20 14:42	1
Hexachlorobutadiene	<0.064		0.20	0.064	mg/Kg	☼	12/08/20 17:04	12/09/20 14:42	1
Hexachlorocyclopentadiene	<0.23		0.82	0.23	mg/Kg	☼	12/08/20 17:04	12/09/20 14:42	1
Hexachloroethane	<0.062		0.20	0.062	mg/Kg	☼	12/08/20 17:04	12/09/20 14:42	1
Indeno[1,2,3-cd]pyrene	<0.011		0.040	0.011	mg/Kg	☼	12/08/20 17:04	12/09/20 14:42	1
Isophorone	<0.046		0.20	0.046	mg/Kg	☼	12/08/20 17:04	12/09/20 14:42	1
2-Methylnaphthalene	<0.0075		0.082	0.0075	mg/Kg	☼	12/08/20 17:04	12/09/20 14:42	1
2-Methylphenol	<0.065		0.20	0.065	mg/Kg	☼	12/08/20 17:04	12/09/20 14:42	1
3 & 4 Methylphenol	<0.068		0.20	0.068	mg/Kg	☼	12/08/20 17:04	12/09/20 14:42	1
Naphthalene	<0.0062		0.040	0.0062	mg/Kg	☼	12/08/20 17:04	12/09/20 14:42	1
2-Nitroaniline	<0.055		0.20	0.055	mg/Kg	☼	12/08/20 17:04	12/09/20 14:42	1
3-Nitroaniline	<0.13		0.40	0.13	mg/Kg	☼	12/08/20 17:04	12/09/20 14:42	1
4-Nitroaniline	<0.17		0.40	0.17	mg/Kg	☼	12/08/20 17:04	12/09/20 14:42	1
Nitrobenzene	<0.010		0.040	0.010	mg/Kg	☼	12/08/20 17:04	12/09/20 14:42	1
2-Nitrophenol	<0.096		0.40	0.096	mg/Kg	☼	12/08/20 17:04	12/09/20 14:42	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191855-1

Client Sample ID: 3138V-12-B02 (0-6.2)

Lab Sample ID: 500-191855-2

Date Collected: 12/02/20 12:20

Matrix: Solid

Date Received: 12/02/20 17:50

Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.39		0.82	0.39	mg/Kg	☼	12/08/20 17:04	12/09/20 14:42	1
N-Nitrosodi-n-propylamine	<0.050		0.082	0.050	mg/Kg	☼	12/08/20 17:04	12/09/20 14:42	1
N-Nitrosodiphenylamine	<0.048		0.20	0.048	mg/Kg	☼	12/08/20 17:04	12/09/20 14:42	1
2,2'-oxybis[1-chloropropane]	<0.047		0.20	0.047	mg/Kg	☼	12/08/20 17:04	12/09/20 14:42	1
Pentachlorophenol	<0.65		0.82	0.65	mg/Kg	☼	12/08/20 17:04	12/09/20 14:42	1
Phenanthrene	0.0060	J	0.040	0.0057	mg/Kg	☼	12/08/20 17:04	12/09/20 14:42	1
Phenol	<0.090		0.20	0.090	mg/Kg	☼	12/08/20 17:04	12/09/20 14:42	1
Pyrene	0.0082	J	0.040	0.0081	mg/Kg	☼	12/08/20 17:04	12/09/20 14:42	1
1,2,4-Trichlorobenzene	<0.044		0.20	0.044	mg/Kg	☼	12/08/20 17:04	12/09/20 14:42	1
2,4,5-Trichlorophenol	<0.093		0.40	0.093	mg/Kg	☼	12/08/20 17:04	12/09/20 14:42	1
2,4,6-Trichlorophenol	<0.14		0.40	0.14	mg/Kg	☼	12/08/20 17:04	12/09/20 14:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	80		43 - 145				12/08/20 17:04	12/09/20 14:42	1
2-Fluorophenol	65		31 - 166				12/08/20 17:04	12/09/20 14:42	1
Nitrobenzene-d5	66		37 - 147				12/08/20 17:04	12/09/20 14:42	1
Phenol-d5	66		30 - 153				12/08/20 17:04	12/09/20 14:42	1
Terphenyl-d14	84		42 - 157				12/08/20 17:04	12/09/20 14:42	1
2,4,6-Tribromophenol	53		31 - 143				12/08/20 17:04	12/09/20 14:42	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.68	J	1.2	0.23	mg/Kg	☼	12/07/20 18:09	12/08/20 18:36	1
Arsenic	5.6		0.59	0.20	mg/Kg	☼	12/07/20 18:09	12/08/20 18:36	1
Barium	56		0.59	0.067	mg/Kg	☼	12/07/20 18:09	12/08/20 18:36	1
Beryllium	0.80		0.24	0.055	mg/Kg	☼	12/07/20 18:09	12/08/20 18:36	1
Cadmium	0.26	B	0.12	0.021	mg/Kg	☼	12/07/20 18:09	12/08/20 18:36	1
Chromium	19		0.59	0.29	mg/Kg	☼	12/07/20 18:09	12/08/20 18:36	1
Cobalt	14		0.30	0.078	mg/Kg	☼	12/07/20 18:09	12/08/20 18:36	1
Copper	21		0.59	0.17	mg/Kg	☼	12/07/20 18:09	12/08/20 18:36	1
Iron	18000		12	6.2	mg/Kg	☼	12/07/20 18:09	12/08/20 18:36	1
Lead	12		0.30	0.14	mg/Kg	☼	12/07/20 18:09	12/08/20 18:36	1
Magnesium	30000		5.9	2.9	mg/Kg	☼	12/07/20 18:09	12/08/20 18:36	1
Calcium	56000	B	59	10	mg/Kg	☼	12/07/20 18:09	12/09/20 15:36	5
Manganese	400		0.59	0.086	mg/Kg	☼	12/07/20 18:09	12/08/20 18:36	1
Nickel	33		0.59	0.17	mg/Kg	☼	12/07/20 18:09	12/08/20 18:36	1
Selenium	<0.35		0.59	0.35	mg/Kg	☼	12/07/20 18:09	12/08/20 18:36	1
Silver	<0.076		0.30	0.076	mg/Kg	☼	12/07/20 18:09	12/08/20 18:36	1
Thallium	<0.30		0.59	0.30	mg/Kg	☼	12/07/20 18:09	12/08/20 18:36	1
Vanadium	22		0.30	0.070	mg/Kg	☼	12/07/20 18:09	12/08/20 18:36	1
Zinc	55	B	1.2	0.52	mg/Kg	☼	12/07/20 18:09	12/08/20 18:36	1
Potassium	3600		30	10	mg/Kg	☼	12/07/20 18:09	12/08/20 18:36	1
Sodium	780	B	59	8.8	mg/Kg	☼	12/07/20 18:09	12/08/20 18:36	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		12/08/20 17:06	12/09/20 22:45	1
Barium	0.53		0.50	0.050	mg/L		12/08/20 17:06	12/09/20 22:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/08/20 17:06	12/10/20 12:56	1
Cadmium	0.0034	J	0.0050	0.0020	mg/L		12/08/20 17:06	12/09/20 22:45	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191855-1

Client Sample ID: 3138V-12-B02 (0-6.2)

Lab Sample ID: 500-191855-2

Date Collected: 12/02/20 12:20

Matrix: Solid

Date Received: 12/02/20 17:50

Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	1000	B	25	2.5	mg/L		12/08/20 17:06	12/10/20 12:59	5
Chromium	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 22:45	1
Cobalt	0.036		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 22:45	1
Copper	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 22:45	1
Iron	<0.20		0.40	0.20	mg/L		12/08/20 17:06	12/10/20 12:56	1
Lead	0.013		0.0075	0.0075	mg/L		12/08/20 17:06	12/09/20 22:45	1
Magnesium	300		2.5	0.50	mg/L		12/08/20 17:06	12/10/20 12:56	1
Manganese	6.5		0.025	0.010	mg/L		12/08/20 17:06	12/10/20 12:56	1
Nickel	0.044		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 22:45	1
Potassium	1.9	J	2.5	0.50	mg/L		12/08/20 17:06	12/09/20 22:45	1
Selenium	<0.020		0.050	0.020	mg/L		12/08/20 17:06	12/09/20 22:45	1
Silver	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 22:45	1
Vanadium	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 22:45	1
Zinc	0.031	J	0.50	0.020	mg/L		12/08/20 17:06	12/10/20 12:56	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.17		0.0075	0.0075	mg/L		12/08/20 17:10	12/09/20 23:32	1
Manganese	2.3		0.025	0.010	mg/L		12/08/20 17:10	12/11/20 11:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/08/20 17:06	12/09/20 15:06	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/08/20 17:06	12/09/20 15:06	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		12/09/20 08:35	12/10/20 07:34	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.019	0.0064	mg/Kg	✱	12/08/20 14:00	12/09/20 07:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.13		0.25	0.13	mg/Kg	✱	12/07/20 14:07	12/07/20 17:31	1
pH	8.4		0.2	0.2	SU			12/08/20 11:47	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191855-1

Client Sample ID: 3138V-12-B02 (0-6.2) Dup

Lab Sample ID: 500-191855-3

Date Collected: 12/02/20 12:25

Matrix: Solid

Date Received: 12/02/20 17:50

Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.015	J	0.017	0.0075	mg/Kg	☼	12/03/20 17:19	12/09/20 03:47	1
Benzene	<0.00044		0.0017	0.00044	mg/Kg	☼	12/03/20 17:19	12/09/20 03:47	1
Bromodichloromethane	<0.00035		0.0017	0.00035	mg/Kg	☼	12/03/20 17:19	12/09/20 03:47	1
Bromoform	<0.00050		0.0017	0.00050	mg/Kg	☼	12/03/20 17:19	12/09/20 03:47	1
Bromomethane	<0.0016		0.0043	0.0016	mg/Kg	☼	12/03/20 17:19	12/09/20 03:47	1
2-Butanone (MEK)	<0.0019		0.0043	0.0019	mg/Kg	☼	12/03/20 17:19	12/09/20 03:47	1
Carbon disulfide	<0.00090		0.0043	0.00090	mg/Kg	☼	12/03/20 17:19	12/09/20 03:47	1
Carbon tetrachloride	<0.00050		0.0017	0.00050	mg/Kg	☼	12/03/20 17:19	12/09/20 03:47	1
Chlorobenzene	<0.00064		0.0017	0.00064	mg/Kg	☼	12/03/20 17:19	12/09/20 03:47	1
Chloroethane	<0.0013		0.0043	0.0013	mg/Kg	☼	12/03/20 17:19	12/09/20 03:47	1
Chloroform	<0.00060		0.0017	0.00060	mg/Kg	☼	12/03/20 17:19	12/09/20 03:47	1
Chloromethane	<0.0017	*	0.0043	0.0017	mg/Kg	☼	12/03/20 17:19	12/09/20 03:47	1
cis-1,2-Dichloroethene	<0.00048		0.0017	0.00048	mg/Kg	☼	12/03/20 17:19	12/09/20 03:47	1
cis-1,3-Dichloropropene	<0.00052		0.0017	0.00052	mg/Kg	☼	12/03/20 17:19	12/09/20 03:47	1
Dibromochloromethane	<0.00056		0.0017	0.00056	mg/Kg	☼	12/03/20 17:19	12/09/20 03:47	1
1,1-Dichloroethane	<0.00059	*	0.0017	0.00059	mg/Kg	☼	12/03/20 17:19	12/09/20 03:47	1
1,2-Dichloroethane	<0.0013		0.0043	0.0013	mg/Kg	☼	12/03/20 17:19	12/09/20 03:47	1
1,1-Dichloroethene	<0.00059		0.0017	0.00059	mg/Kg	☼	12/03/20 17:19	12/09/20 03:47	1
1,2-Dichloropropene	<0.00045		0.0017	0.00045	mg/Kg	☼	12/03/20 17:19	12/09/20 03:47	1
1,3-Dichloropropene, Total	<0.00061		0.0017	0.00061	mg/Kg	☼	12/03/20 17:19	12/09/20 03:47	1
Ethylbenzene	<0.00083		0.0017	0.00083	mg/Kg	☼	12/03/20 17:19	12/09/20 03:47	1
2-Hexanone	<0.0013		0.0043	0.0013	mg/Kg	☼	12/03/20 17:19	12/09/20 03:47	1
Methylene Chloride	<0.0017		0.0043	0.0017	mg/Kg	☼	12/03/20 17:19	12/09/20 03:47	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0043	0.0013	mg/Kg	☼	12/03/20 17:19	12/09/20 03:47	1
Methyl tert-butyl ether	<0.00051		0.0017	0.00051	mg/Kg	☼	12/03/20 17:19	12/09/20 03:47	1
Styrene	<0.00052		0.0017	0.00052	mg/Kg	☼	12/03/20 17:19	12/09/20 03:47	1
1,1,2,2-Tetrachloroethane	<0.00055		0.0017	0.00055	mg/Kg	☼	12/03/20 17:19	12/09/20 03:47	1
Tetrachloroethene	<0.00059		0.0017	0.00059	mg/Kg	☼	12/03/20 17:19	12/09/20 03:47	1
Toluene	<0.00044		0.0017	0.00044	mg/Kg	☼	12/03/20 17:19	12/09/20 03:47	1
trans-1,2-Dichloroethene	<0.00076		0.0017	0.00076	mg/Kg	☼	12/03/20 17:19	12/09/20 03:47	1
trans-1,3-Dichloropropene	<0.00061		0.0017	0.00061	mg/Kg	☼	12/03/20 17:19	12/09/20 03:47	1
1,1,1-Trichloroethane	<0.00058		0.0017	0.00058	mg/Kg	☼	12/03/20 17:19	12/09/20 03:47	1
1,1,2-Trichloroethane	<0.00074		0.0017	0.00074	mg/Kg	☼	12/03/20 17:19	12/09/20 03:47	1
Trichloroethene	<0.00058		0.0017	0.00058	mg/Kg	☼	12/03/20 17:19	12/09/20 03:47	1
Vinyl acetate	<0.0015		0.0043	0.0015	mg/Kg	☼	12/03/20 17:19	12/09/20 03:47	1
Vinyl chloride	<0.00076		0.0017	0.00076	mg/Kg	☼	12/03/20 17:19	12/09/20 03:47	1
Xylenes, Total	<0.00055		0.0035	0.00055	mg/Kg	☼	12/03/20 17:19	12/09/20 03:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		75 - 131	12/03/20 17:19	12/09/20 03:47	1
Dibromofluoromethane	97		75 - 126	12/03/20 17:19	12/09/20 03:47	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	12/03/20 17:19	12/09/20 03:47	1
Toluene-d8 (Surr)	90		75 - 124	12/03/20 17:19	12/09/20 03:47	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	☼	12/08/20 17:04	12/09/20 15:08	1
Acenaphthylene	<0.0053		0.040	0.0053	mg/Kg	☼	12/08/20 17:04	12/09/20 15:08	1
Anthracene	<0.0067		0.040	0.0067	mg/Kg	☼	12/08/20 17:04	12/09/20 15:08	1
Benzo[a]anthracene	<0.0054		0.040	0.0054	mg/Kg	☼	12/08/20 17:04	12/09/20 15:08	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191855-1

Client Sample ID: 3138V-12-B02 (0-6.2) Dup

Lab Sample ID: 500-191855-3

Date Collected: 12/02/20 12:25

Matrix: Solid

Date Received: 12/02/20 17:50

Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.014	J	0.040	0.0077	mg/Kg	☼	12/08/20 17:04	12/09/20 15:08	1
Benzo[b]fluoranthene	<0.0086		0.040	0.0086	mg/Kg	☼	12/08/20 17:04	12/09/20 15:08	1
Benzo[g,h,i]perylene	<0.013		0.040	0.013	mg/Kg	☼	12/08/20 17:04	12/09/20 15:08	1
Benzo[k]fluoranthene	<0.012		0.040	0.012	mg/Kg	☼	12/08/20 17:04	12/09/20 15:08	1
Bis(2-chloroethoxy)methane	<0.041		0.20	0.041	mg/Kg	☼	12/08/20 17:04	12/09/20 15:08	1
Bis(2-chloroethyl)ether	<0.060		0.20	0.060	mg/Kg	☼	12/08/20 17:04	12/09/20 15:08	1
Bis(2-ethylhexyl) phthalate	<0.073		0.20	0.073	mg/Kg	☼	12/08/20 17:04	12/09/20 15:08	1
4-Bromophenyl phenyl ether	<0.053		0.20	0.053	mg/Kg	☼	12/08/20 17:04	12/09/20 15:08	1
Butyl benzyl phthalate	<0.076		0.20	0.076	mg/Kg	☼	12/08/20 17:04	12/09/20 15:08	1
Carbazole	<0.10		0.20	0.10	mg/Kg	☼	12/08/20 17:04	12/09/20 15:08	1
4-Chloroaniline	<0.19		0.80	0.19	mg/Kg	☼	12/08/20 17:04	12/09/20 15:08	1
4-Chloro-3-methylphenol	<0.14		0.40	0.14	mg/Kg	☼	12/08/20 17:04	12/09/20 15:08	1
2-Chloronaphthalene	<0.044		0.20	0.044	mg/Kg	☼	12/08/20 17:04	12/09/20 15:08	1
2-Chlorophenol	<0.068		0.20	0.068	mg/Kg	☼	12/08/20 17:04	12/09/20 15:08	1
4-Chlorophenyl phenyl ether	<0.047		0.20	0.047	mg/Kg	☼	12/08/20 17:04	12/09/20 15:08	1
Chrysene	0.018	J	0.040	0.011	mg/Kg	☼	12/08/20 17:04	12/09/20 15:08	1
Dibenz(a,h)anthracene	<0.0077		0.040	0.0077	mg/Kg	☼	12/08/20 17:04	12/09/20 15:08	1
Dibenzofuran	<0.047		0.20	0.047	mg/Kg	☼	12/08/20 17:04	12/09/20 15:08	1
1,2-Dichlorobenzene	<0.048		0.20	0.048	mg/Kg	☼	12/08/20 17:04	12/09/20 15:08	1
1,3-Dichlorobenzene	<0.045		0.20	0.045	mg/Kg	☼	12/08/20 17:04	12/09/20 15:08	1
1,4-Dichlorobenzene	<0.051		0.20	0.051	mg/Kg	☼	12/08/20 17:04	12/09/20 15:08	1
3,3'-Dichlorobenzidine	<0.056		0.20	0.056	mg/Kg	☼	12/08/20 17:04	12/09/20 15:08	1
2,4-Dichlorophenol	<0.095		0.40	0.095	mg/Kg	☼	12/08/20 17:04	12/09/20 15:08	1
Diethyl phthalate	<0.068		0.20	0.068	mg/Kg	☼	12/08/20 17:04	12/09/20 15:08	1
2,4-Dimethylphenol	<0.15		0.40	0.15	mg/Kg	☼	12/08/20 17:04	12/09/20 15:08	1
Dimethyl phthalate	<0.052		0.20	0.052	mg/Kg	☼	12/08/20 17:04	12/09/20 15:08	1
Di-n-butyl phthalate	<0.061		0.20	0.061	mg/Kg	☼	12/08/20 17:04	12/09/20 15:08	1
4,6-Dinitro-2-methylphenol	<0.32		0.80	0.32	mg/Kg	☼	12/08/20 17:04	12/09/20 15:08	1
2,4-Dinitrophenol	<0.70		0.80	0.70	mg/Kg	☼	12/08/20 17:04	12/09/20 15:08	1
2,4-Dinitrotoluene	<0.063		0.20	0.063	mg/Kg	☼	12/08/20 17:04	12/09/20 15:08	1
2,6-Dinitrotoluene	<0.078		0.20	0.078	mg/Kg	☼	12/08/20 17:04	12/09/20 15:08	1
Di-n-octyl phthalate	<0.065		0.20	0.065	mg/Kg	☼	12/08/20 17:04	12/09/20 15:08	1
Fluoranthene	<0.0074		0.040	0.0074	mg/Kg	☼	12/08/20 17:04	12/09/20 15:08	1
Fluorene	<0.0056		0.040	0.0056	mg/Kg	☼	12/08/20 17:04	12/09/20 15:08	1
Hexachlorobenzene	<0.0092		0.080	0.0092	mg/Kg	☼	12/08/20 17:04	12/09/20 15:08	1
Hexachlorobutadiene	<0.063		0.20	0.063	mg/Kg	☼	12/08/20 17:04	12/09/20 15:08	1
Hexachlorocyclopentadiene	<0.23		0.80	0.23	mg/Kg	☼	12/08/20 17:04	12/09/20 15:08	1
Hexachloroethane	<0.061		0.20	0.061	mg/Kg	☼	12/08/20 17:04	12/09/20 15:08	1
Indeno[1,2,3-cd]pyrene	<0.010		0.040	0.010	mg/Kg	☼	12/08/20 17:04	12/09/20 15:08	1
Isophorone	<0.045		0.20	0.045	mg/Kg	☼	12/08/20 17:04	12/09/20 15:08	1
2-Methylnaphthalene	<0.0073		0.080	0.0073	mg/Kg	☼	12/08/20 17:04	12/09/20 15:08	1
2-Methylphenol	<0.064		0.20	0.064	mg/Kg	☼	12/08/20 17:04	12/09/20 15:08	1
3 & 4 Methylphenol	<0.067		0.20	0.067	mg/Kg	☼	12/08/20 17:04	12/09/20 15:08	1
Naphthalene	<0.0061		0.040	0.0061	mg/Kg	☼	12/08/20 17:04	12/09/20 15:08	1
2-Nitroaniline	<0.054		0.20	0.054	mg/Kg	☼	12/08/20 17:04	12/09/20 15:08	1
3-Nitroaniline	<0.12		0.40	0.12	mg/Kg	☼	12/08/20 17:04	12/09/20 15:08	1
4-Nitroaniline	<0.17		0.40	0.17	mg/Kg	☼	12/08/20 17:04	12/09/20 15:08	1
Nitrobenzene	<0.010		0.040	0.010	mg/Kg	☼	12/08/20 17:04	12/09/20 15:08	1
2-Nitrophenol	<0.094		0.40	0.094	mg/Kg	☼	12/08/20 17:04	12/09/20 15:08	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191855-1

Client Sample ID: 3138V-12-B02 (0-6.2) Dup

Lab Sample ID: 500-191855-3

Date Collected: 12/02/20 12:25

Matrix: Solid

Date Received: 12/02/20 17:50

Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.38		0.80	0.38	mg/Kg	☼	12/08/20 17:04	12/09/20 15:08	1
N-Nitrosodi-n-propylamine	<0.049		0.080	0.049	mg/Kg	☼	12/08/20 17:04	12/09/20 15:08	1
N-Nitrosodiphenylamine	<0.047		0.20	0.047	mg/Kg	☼	12/08/20 17:04	12/09/20 15:08	1
2,2'-oxybis[1-chloropropane]	<0.046		0.20	0.046	mg/Kg	☼	12/08/20 17:04	12/09/20 15:08	1
Pentachlorophenol	<0.64		0.80	0.64	mg/Kg	☼	12/08/20 17:04	12/09/20 15:08	1
Phenanthrene	0.012	J	0.040	0.0056	mg/Kg	☼	12/08/20 17:04	12/09/20 15:08	1
Phenol	<0.089		0.20	0.089	mg/Kg	☼	12/08/20 17:04	12/09/20 15:08	1
Pyrene	0.011	J	0.040	0.0079	mg/Kg	☼	12/08/20 17:04	12/09/20 15:08	1
1,2,4-Trichlorobenzene	<0.043		0.20	0.043	mg/Kg	☼	12/08/20 17:04	12/09/20 15:08	1
2,4,5-Trichlorophenol	<0.091		0.40	0.091	mg/Kg	☼	12/08/20 17:04	12/09/20 15:08	1
2,4,6-Trichlorophenol	<0.14		0.40	0.14	mg/Kg	☼	12/08/20 17:04	12/09/20 15:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	86		43 - 145				12/08/20 17:04	12/09/20 15:08	1
2-Fluorophenol	67		31 - 166				12/08/20 17:04	12/09/20 15:08	1
Nitrobenzene-d5	70		37 - 147				12/08/20 17:04	12/09/20 15:08	1
Phenol-d5	68		30 - 153				12/08/20 17:04	12/09/20 15:08	1
Terphenyl-d14	78		42 - 157				12/08/20 17:04	12/09/20 15:08	1
2,4,6-Tribromophenol	52		31 - 143				12/08/20 17:04	12/09/20 15:08	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.68	J	1.1	0.22	mg/Kg	☼	12/07/20 18:09	12/08/20 18:40	1
Arsenic	4.0		0.56	0.19	mg/Kg	☼	12/07/20 18:09	12/08/20 18:40	1
Barium	52		0.56	0.064	mg/Kg	☼	12/07/20 18:09	12/08/20 18:40	1
Beryllium	0.83		0.22	0.052	mg/Kg	☼	12/07/20 18:09	12/08/20 18:40	1
Cadmium	0.27	B	0.11	0.020	mg/Kg	☼	12/07/20 18:09	12/08/20 18:40	1
Chromium	19		0.56	0.28	mg/Kg	☼	12/07/20 18:09	12/08/20 18:40	1
Cobalt	13		0.28	0.073	mg/Kg	☼	12/07/20 18:09	12/08/20 18:40	1
Copper	22		0.56	0.16	mg/Kg	☼	12/07/20 18:09	12/08/20 18:40	1
Iron	18000		11	5.8	mg/Kg	☼	12/07/20 18:09	12/08/20 18:40	1
Lead	13		0.28	0.13	mg/Kg	☼	12/07/20 18:09	12/08/20 18:40	1
Magnesium	26000		5.6	2.8	mg/Kg	☼	12/07/20 18:09	12/08/20 18:40	1
Calcium	62000	B	56	9.5	mg/Kg	☼	12/07/20 18:09	12/09/20 15:40	5
Manganese	380		0.56	0.081	mg/Kg	☼	12/07/20 18:09	12/08/20 18:40	1
Nickel	33		0.56	0.16	mg/Kg	☼	12/07/20 18:09	12/08/20 18:40	1
Selenium	0.48	J	0.56	0.33	mg/Kg	☼	12/07/20 18:09	12/08/20 18:40	1
Silver	<0.072		0.28	0.072	mg/Kg	☼	12/07/20 18:09	12/08/20 18:40	1
Thallium	0.28	J	0.56	0.28	mg/Kg	☼	12/07/20 18:09	12/08/20 18:40	1
Vanadium	23		0.28	0.066	mg/Kg	☼	12/07/20 18:09	12/08/20 18:40	1
Zinc	59	B	1.1	0.49	mg/Kg	☼	12/07/20 18:09	12/08/20 18:40	1
Potassium	3400		28	9.9	mg/Kg	☼	12/07/20 18:09	12/08/20 18:40	1
Sodium	850	B	56	8.3	mg/Kg	☼	12/07/20 18:09	12/08/20 18:40	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		12/08/20 17:06	12/09/20 22:25	1
Barium	0.60		0.50	0.050	mg/L		12/08/20 17:06	12/09/20 22:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/08/20 17:06	12/10/20 12:46	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		12/08/20 17:06	12/09/20 22:25	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191855-1

Client Sample ID: 3138V-12-B02 (0-6.2) Dup

Lab Sample ID: 500-191855-3

Date Collected: 12/02/20 12:25

Matrix: Solid

Date Received: 12/02/20 17:50

Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	530		5.0	0.50	mg/L		12/08/20 17:06	12/09/20 22:25	1
Chromium	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 22:25	1
Cobalt	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 22:25	1
Copper	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 22:25	1
Iron	<0.20		0.40	0.20	mg/L		12/08/20 17:06	12/09/20 22:25	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/08/20 17:06	12/09/20 22:25	1
Magnesium	37		2.5	0.50	mg/L		12/08/20 17:06	12/10/20 12:46	1
Manganese	3.2		0.025	0.010	mg/L		12/08/20 17:06	12/10/20 12:46	1
Nickel	0.010	J	0.025	0.010	mg/L		12/08/20 17:06	12/09/20 22:25	1
Potassium	2.3	J	2.5	0.50	mg/L		12/08/20 17:06	12/09/20 22:25	1
Selenium	<0.020		0.050	0.020	mg/L		12/08/20 17:06	12/09/20 22:25	1
Silver	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 22:25	1
Vanadium	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 22:25	1
Zinc	<0.020		0.50	0.020	mg/L		12/08/20 17:06	12/09/20 22:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	2.2		0.025	0.010	mg/L		12/08/20 17:10	12/11/20 11:24	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		12/08/20 17:06	12/09/20 14:55	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/08/20 17:06	12/09/20 14:55	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		12/09/20 08:35	12/10/20 07:19	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.020	0.0066	mg/Kg	☼	12/08/20 14:00	12/09/20 07:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.14		0.28	0.14	mg/Kg	☼	12/07/20 14:07	12/07/20 17:33	1
pH	8.4		0.2	0.2	SU			12/08/20 11:49	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191855-1

Client Sample ID: 3138V-12-B03 (0-1.3)

Lab Sample ID: 500-191855-4

Date Collected: 12/02/20 11:45

Matrix: Solid

Date Received: 12/02/20 17:50

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	☼	12/03/20 17:19	12/09/20 04:13	1
Benzene	<0.00045		0.0018	0.00045	mg/Kg	☼	12/03/20 17:19	12/09/20 04:13	1
Bromodichloromethane	<0.00036		0.0018	0.00036	mg/Kg	☼	12/03/20 17:19	12/09/20 04:13	1
Bromoform	<0.00051		0.0018	0.00051	mg/Kg	☼	12/03/20 17:19	12/09/20 04:13	1
Bromomethane	<0.0017		0.0044	0.0017	mg/Kg	☼	12/03/20 17:19	12/09/20 04:13	1
2-Butanone (MEK)	<0.0020		0.0044	0.0020	mg/Kg	☼	12/03/20 17:19	12/09/20 04:13	1
Carbon disulfide	<0.00092		0.0044	0.00092	mg/Kg	☼	12/03/20 17:19	12/09/20 04:13	1
Carbon tetrachloride	<0.00051		0.0018	0.00051	mg/Kg	☼	12/03/20 17:19	12/09/20 04:13	1
Chlorobenzene	<0.00065		0.0018	0.00065	mg/Kg	☼	12/03/20 17:19	12/09/20 04:13	1
Chloroethane	<0.0013		0.0044	0.0013	mg/Kg	☼	12/03/20 17:19	12/09/20 04:13	1
Chloroform	<0.00061		0.0018	0.00061	mg/Kg	☼	12/03/20 17:19	12/09/20 04:13	1
Chloromethane	<0.0018	*	0.0044	0.0018	mg/Kg	☼	12/03/20 17:19	12/09/20 04:13	1
cis-1,2-Dichloroethene	<0.00049		0.0018	0.00049	mg/Kg	☼	12/03/20 17:19	12/09/20 04:13	1
cis-1,3-Dichloropropene	<0.00053		0.0018	0.00053	mg/Kg	☼	12/03/20 17:19	12/09/20 04:13	1
Dibromochloromethane	<0.00058		0.0018	0.00058	mg/Kg	☼	12/03/20 17:19	12/09/20 04:13	1
1,1-Dichloroethane	<0.00060	*	0.0018	0.00060	mg/Kg	☼	12/03/20 17:19	12/09/20 04:13	1
1,2-Dichloroethane	<0.0014		0.0044	0.0014	mg/Kg	☼	12/03/20 17:19	12/09/20 04:13	1
1,1-Dichloroethene	<0.00061		0.0018	0.00061	mg/Kg	☼	12/03/20 17:19	12/09/20 04:13	1
1,2-Dichloropropene	<0.00046		0.0018	0.00046	mg/Kg	☼	12/03/20 17:19	12/09/20 04:13	1
1,3-Dichloropropene, Total	<0.00062		0.0018	0.00062	mg/Kg	☼	12/03/20 17:19	12/09/20 04:13	1
Ethylbenzene	<0.00084		0.0018	0.00084	mg/Kg	☼	12/03/20 17:19	12/09/20 04:13	1
2-Hexanone	<0.0014		0.0044	0.0014	mg/Kg	☼	12/03/20 17:19	12/09/20 04:13	1
Methylene Chloride	<0.0017		0.0044	0.0017	mg/Kg	☼	12/03/20 17:19	12/09/20 04:13	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0044	0.0013	mg/Kg	☼	12/03/20 17:19	12/09/20 04:13	1
Methyl tert-butyl ether	<0.00052		0.0018	0.00052	mg/Kg	☼	12/03/20 17:19	12/09/20 04:13	1
Styrene	<0.00053		0.0018	0.00053	mg/Kg	☼	12/03/20 17:19	12/09/20 04:13	1
1,1,2,2-Tetrachloroethane	<0.00056		0.0018	0.00056	mg/Kg	☼	12/03/20 17:19	12/09/20 04:13	1
Tetrachloroethene	<0.00060		0.0018	0.00060	mg/Kg	☼	12/03/20 17:19	12/09/20 04:13	1
Toluene	<0.00045		0.0018	0.00045	mg/Kg	☼	12/03/20 17:19	12/09/20 04:13	1
trans-1,2-Dichloroethene	<0.00078		0.0018	0.00078	mg/Kg	☼	12/03/20 17:19	12/09/20 04:13	1
trans-1,3-Dichloropropene	<0.00062		0.0018	0.00062	mg/Kg	☼	12/03/20 17:19	12/09/20 04:13	1
1,1,1-Trichloroethane	<0.00059		0.0018	0.00059	mg/Kg	☼	12/03/20 17:19	12/09/20 04:13	1
1,1,2-Trichloroethane	<0.00076		0.0018	0.00076	mg/Kg	☼	12/03/20 17:19	12/09/20 04:13	1
Trichloroethene	<0.00060		0.0018	0.00060	mg/Kg	☼	12/03/20 17:19	12/09/20 04:13	1
Vinyl acetate	<0.0015		0.0044	0.0015	mg/Kg	☼	12/03/20 17:19	12/09/20 04:13	1
Vinyl chloride	<0.00078		0.0018	0.00078	mg/Kg	☼	12/03/20 17:19	12/09/20 04:13	1
Xylenes, Total	<0.00056		0.0035	0.00056	mg/Kg	☼	12/03/20 17:19	12/09/20 04:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		75 - 131	12/03/20 17:19	12/09/20 04:13	1
Dibromofluoromethane	99		75 - 126	12/03/20 17:19	12/09/20 04:13	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	12/03/20 17:19	12/09/20 04:13	1
Toluene-d8 (Surr)	93		75 - 124	12/03/20 17:19	12/09/20 04:13	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	☼	12/08/20 17:04	12/09/20 15:35	1
Acenaphthylene	0.011	J	0.040	0.0052	mg/Kg	☼	12/08/20 17:04	12/09/20 15:35	1
Anthracene	0.026	J	0.040	0.0067	mg/Kg	☼	12/08/20 17:04	12/09/20 15:35	1
Benzo[a]anthracene	0.12		0.040	0.0054	mg/Kg	☼	12/08/20 17:04	12/09/20 15:35	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191855-1

Client Sample ID: 3138V-12-B03 (0-1.3)

Lab Sample ID: 500-191855-4

Date Collected: 12/02/20 11:45

Matrix: Solid

Date Received: 12/02/20 17:50

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	0.16		0.040	0.0077	mg/Kg	✳	12/08/20 17:04	12/09/20 15:35	1
Benzo[b]fluoranthene	0.22		0.040	0.0086	mg/Kg	✳	12/08/20 17:04	12/09/20 15:35	1
Benzo[g,h,i]perylene	0.080		0.040	0.013	mg/Kg	✳	12/08/20 17:04	12/09/20 15:35	1
Benzo[k]fluoranthene	0.087		0.040	0.012	mg/Kg	✳	12/08/20 17:04	12/09/20 15:35	1
Bis(2-chloroethoxy)methane	<0.041		0.20	0.041	mg/Kg	✳	12/08/20 17:04	12/09/20 15:35	1
Bis(2-chloroethyl)ether	<0.060		0.20	0.060	mg/Kg	✳	12/08/20 17:04	12/09/20 15:35	1
Bis(2-ethylhexyl) phthalate	<0.073		0.20	0.073	mg/Kg	✳	12/08/20 17:04	12/09/20 15:35	1
4-Bromophenyl phenyl ether	<0.052		0.20	0.052	mg/Kg	✳	12/08/20 17:04	12/09/20 15:35	1
Butyl benzyl phthalate	<0.076		0.20	0.076	mg/Kg	✳	12/08/20 17:04	12/09/20 15:35	1
Carbazole	<0.099		0.20	0.099	mg/Kg	✳	12/08/20 17:04	12/09/20 15:35	1
4-Chloroaniline	<0.19		0.80	0.19	mg/Kg	✳	12/08/20 17:04	12/09/20 15:35	1
4-Chloro-3-methylphenol	<0.14		0.40	0.14	mg/Kg	✳	12/08/20 17:04	12/09/20 15:35	1
2-Chloronaphthalene	<0.044		0.20	0.044	mg/Kg	✳	12/08/20 17:04	12/09/20 15:35	1
2-Chlorophenol	<0.068		0.20	0.068	mg/Kg	✳	12/08/20 17:04	12/09/20 15:35	1
4-Chlorophenyl phenyl ether	<0.046		0.20	0.046	mg/Kg	✳	12/08/20 17:04	12/09/20 15:35	1
Chrysene	0.15		0.040	0.011	mg/Kg	✳	12/08/20 17:04	12/09/20 15:35	1
Dibenz(a,h)anthracene	0.019 J		0.040	0.0077	mg/Kg	✳	12/08/20 17:04	12/09/20 15:35	1
Dibenzofuran	<0.047		0.20	0.047	mg/Kg	✳	12/08/20 17:04	12/09/20 15:35	1
1,2-Dichlorobenzene	<0.048		0.20	0.048	mg/Kg	✳	12/08/20 17:04	12/09/20 15:35	1
1,3-Dichlorobenzene	<0.045		0.20	0.045	mg/Kg	✳	12/08/20 17:04	12/09/20 15:35	1
1,4-Dichlorobenzene	<0.051		0.20	0.051	mg/Kg	✳	12/08/20 17:04	12/09/20 15:35	1
3,3'-Dichlorobenzidine	<0.056		0.20	0.056	mg/Kg	✳	12/08/20 17:04	12/09/20 15:35	1
2,4-Dichlorophenol	<0.095		0.40	0.095	mg/Kg	✳	12/08/20 17:04	12/09/20 15:35	1
Diethyl phthalate	<0.067		0.20	0.067	mg/Kg	✳	12/08/20 17:04	12/09/20 15:35	1
2,4-Dimethylphenol	<0.15		0.40	0.15	mg/Kg	✳	12/08/20 17:04	12/09/20 15:35	1
Dimethyl phthalate	<0.052		0.20	0.052	mg/Kg	✳	12/08/20 17:04	12/09/20 15:35	1
Di-n-butyl phthalate	<0.061		0.20	0.061	mg/Kg	✳	12/08/20 17:04	12/09/20 15:35	1
4,6-Dinitro-2-methylphenol	<0.32		0.80	0.32	mg/Kg	✳	12/08/20 17:04	12/09/20 15:35	1
2,4-Dinitrophenol	<0.70		0.80	0.70	mg/Kg	✳	12/08/20 17:04	12/09/20 15:35	1
2,4-Dinitrotoluene	<0.063		0.20	0.063	mg/Kg	✳	12/08/20 17:04	12/09/20 15:35	1
2,6-Dinitrotoluene	<0.078		0.20	0.078	mg/Kg	✳	12/08/20 17:04	12/09/20 15:35	1
Di-n-octyl phthalate	<0.065		0.20	0.065	mg/Kg	✳	12/08/20 17:04	12/09/20 15:35	1
Fluoranthene	0.21		0.040	0.0074	mg/Kg	✳	12/08/20 17:04	12/09/20 15:35	1
Fluorene	0.0060 J		0.040	0.0056	mg/Kg	✳	12/08/20 17:04	12/09/20 15:35	1
Hexachlorobenzene	<0.0092		0.080	0.0092	mg/Kg	✳	12/08/20 17:04	12/09/20 15:35	1
Hexachlorobutadiene	<0.063		0.20	0.063	mg/Kg	✳	12/08/20 17:04	12/09/20 15:35	1
Hexachlorocyclopentadiene	<0.23		0.80	0.23	mg/Kg	✳	12/08/20 17:04	12/09/20 15:35	1
Hexachloroethane	<0.061		0.20	0.061	mg/Kg	✳	12/08/20 17:04	12/09/20 15:35	1
Indeno[1,2,3-cd]pyrene	0.069		0.040	0.010	mg/Kg	✳	12/08/20 17:04	12/09/20 15:35	1
Isophorone	<0.045		0.20	0.045	mg/Kg	✳	12/08/20 17:04	12/09/20 15:35	1
2-Methylnaphthalene	<0.0073		0.080	0.0073	mg/Kg	✳	12/08/20 17:04	12/09/20 15:35	1
2-Methylphenol	<0.064		0.20	0.064	mg/Kg	✳	12/08/20 17:04	12/09/20 15:35	1
3 & 4 Methylphenol	<0.066		0.20	0.066	mg/Kg	✳	12/08/20 17:04	12/09/20 15:35	1
Naphthalene	<0.0061		0.040	0.0061	mg/Kg	✳	12/08/20 17:04	12/09/20 15:35	1
2-Nitroaniline	<0.054		0.20	0.054	mg/Kg	✳	12/08/20 17:04	12/09/20 15:35	1
3-Nitroaniline	<0.12		0.40	0.12	mg/Kg	✳	12/08/20 17:04	12/09/20 15:35	1
4-Nitroaniline	<0.17		0.40	0.17	mg/Kg	✳	12/08/20 17:04	12/09/20 15:35	1
Nitrobenzene	<0.0099		0.040	0.0099	mg/Kg	✳	12/08/20 17:04	12/09/20 15:35	1
2-Nitrophenol	<0.094		0.40	0.094	mg/Kg	✳	12/08/20 17:04	12/09/20 15:35	1

Euofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191855-1

Client Sample ID: 3138V-12-B03 (0-1.3)

Lab Sample ID: 500-191855-4

Date Collected: 12/02/20 11:45

Matrix: Solid

Date Received: 12/02/20 17:50

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	☼	12/08/20 17:04	12/09/20 15:35	1
N-Nitrosodi-n-propylamine	<0.049		0.080	0.049	mg/Kg	☼	12/08/20 17:04	12/09/20 15:35	1
N-Nitrosodiphenylamine	<0.047		0.20	0.047	mg/Kg	☼	12/08/20 17:04	12/09/20 15:35	1
2,2'-oxybis[1-chloropropane]	<0.046		0.20	0.046	mg/Kg	☼	12/08/20 17:04	12/09/20 15:35	1
Pentachlorophenol	<0.64		0.80	0.64	mg/Kg	☼	12/08/20 17:04	12/09/20 15:35	1
Phenanthrene	0.096		0.040	0.0055	mg/Kg	☼	12/08/20 17:04	12/09/20 15:35	1
Phenol	<0.088		0.20	0.088	mg/Kg	☼	12/08/20 17:04	12/09/20 15:35	1
Pyrene	0.21		0.040	0.0079	mg/Kg	☼	12/08/20 17:04	12/09/20 15:35	1
1,2,4-Trichlorobenzene	<0.043		0.20	0.043	mg/Kg	☼	12/08/20 17:04	12/09/20 15:35	1
2,4,5-Trichlorophenol	<0.091		0.40	0.091	mg/Kg	☼	12/08/20 17:04	12/09/20 15:35	1
2,4,6-Trichlorophenol	<0.14		0.40	0.14	mg/Kg	☼	12/08/20 17:04	12/09/20 15:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	86		43 - 145				12/08/20 17:04	12/09/20 15:35	1
2-Fluorophenol	68		31 - 166				12/08/20 17:04	12/09/20 15:35	1
Nitrobenzene-d5	69		37 - 147				12/08/20 17:04	12/09/20 15:35	1
Phenol-d5	69		30 - 153				12/08/20 17:04	12/09/20 15:35	1
Terphenyl-d14	85		42 - 157				12/08/20 17:04	12/09/20 15:35	1
2,4,6-Tribromophenol	60		31 - 143				12/08/20 17:04	12/09/20 15:35	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.90	J	1.2	0.23	mg/Kg	☼	12/07/20 18:09	12/08/20 18:43	1
Arsenic	6.7		0.59	0.20	mg/Kg	☼	12/07/20 18:09	12/08/20 18:43	1
Barium	55		0.59	0.067	mg/Kg	☼	12/07/20 18:09	12/08/20 18:43	1
Beryllium	0.86		0.24	0.055	mg/Kg	☼	12/07/20 18:09	12/08/20 18:43	1
Cadmium	0.91	B	0.12	0.021	mg/Kg	☼	12/07/20 18:09	12/08/20 18:43	1
Chromium	17		0.59	0.29	mg/Kg	☼	12/07/20 18:09	12/08/20 18:43	1
Cobalt	11		0.29	0.077	mg/Kg	☼	12/07/20 18:09	12/08/20 18:43	1
Copper	56		0.59	0.17	mg/Kg	☼	12/07/20 18:09	12/08/20 18:43	1
Iron	19000		12	6.1	mg/Kg	☼	12/07/20 18:09	12/08/20 18:43	1
Lead	320		0.29	0.14	mg/Kg	☼	12/07/20 18:09	12/08/20 18:43	1
Magnesium	26000		5.9	2.9	mg/Kg	☼	12/07/20 18:09	12/08/20 18:43	1
Calcium	72000	B	59	10	mg/Kg	☼	12/07/20 18:09	12/09/20 15:43	5
Manganese	460		0.59	0.086	mg/Kg	☼	12/07/20 18:09	12/08/20 18:43	1
Nickel	29		0.59	0.17	mg/Kg	☼	12/07/20 18:09	12/08/20 18:43	1
Selenium	0.40	J	0.59	0.35	mg/Kg	☼	12/07/20 18:09	12/08/20 18:43	1
Silver	<0.076		0.29	0.076	mg/Kg	☼	12/07/20 18:09	12/08/20 18:43	1
Thallium	<0.29		0.59	0.29	mg/Kg	☼	12/07/20 18:09	12/08/20 18:43	1
Vanadium	22		0.29	0.070	mg/Kg	☼	12/07/20 18:09	12/08/20 18:43	1
Zinc	270	B	1.2	0.52	mg/Kg	☼	12/07/20 18:09	12/08/20 18:43	1
Potassium	2300		29	10	mg/Kg	☼	12/07/20 18:09	12/08/20 18:43	1
Sodium	1300	B	59	8.7	mg/Kg	☼	12/07/20 18:09	12/08/20 18:43	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		12/08/20 17:08	12/09/20 12:18	1
Barium	0.39	J	0.50	0.050	mg/L		12/08/20 17:08	12/09/20 12:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/08/20 17:08	12/09/20 12:18	1
Cadmium	0.0085		0.0050	0.0020	mg/L		12/08/20 17:08	12/09/20 12:18	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191855-1

Client Sample ID: 3138V-12-B03 (0-1.3)

Lab Sample ID: 500-191855-4

Date Collected: 12/02/20 11:45

Matrix: Solid

Date Received: 12/02/20 17:50

Percent Solids: 82.7

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		12/08/20 17:08	12/09/20 12:18	1
Chromium	<0.010		0.025	0.010	mg/L		12/08/20 17:08	12/09/20 12:18	1
Cobalt	<0.010		0.025	0.010	mg/L		12/08/20 17:08	12/09/20 12:18	1
Copper	<0.010		0.025	0.010	mg/L		12/08/20 17:08	12/09/20 12:18	1
Iron	<0.20		0.40	0.20	mg/L		12/08/20 17:08	12/09/20 12:18	1
Lead	0.065		0.0075	0.0075	mg/L		12/08/20 17:08	12/09/20 12:18	1
Magnesium	98		2.5	0.50	mg/L		12/08/20 17:08	12/09/20 12:18	1
Manganese	0.86		0.025	0.010	mg/L		12/08/20 17:08	12/09/20 12:18	1
Nickel	0.022	J	0.025	0.010	mg/L		12/08/20 17:08	12/09/20 12:18	1
Potassium	1.7	J	2.5	0.50	mg/L		12/08/20 17:08	12/09/20 12:18	1
Selenium	<0.020		0.050	0.020	mg/L		12/08/20 17:08	12/09/20 12:18	1
Silver	<0.010		0.025	0.010	mg/L		12/08/20 17:08	12/09/20 12:18	1
Vanadium	<0.010		0.025	0.010	mg/L		12/08/20 17:08	12/09/20 12:18	1
Zinc	0.10	J	0.50	0.020	mg/L		12/08/20 17:08	12/09/20 12:18	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0056		0.0050	0.0020	mg/L		12/08/20 17:10	12/09/20 23:38	1
Lead	1.7		0.0075	0.0075	mg/L		12/08/20 17:10	12/09/20 23:38	1
Manganese	1.0		0.025	0.010	mg/L		12/08/20 17:10	12/11/20 11:27	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		12/08/20 17:08	12/09/20 15:12	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/08/20 17:08	12/09/20 15:12	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		12/09/20 08:35	12/10/20 07:45	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.041		0.019	0.0064	mg/Kg	✱	12/08/20 14:00	12/09/20 07:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.13		0.25	0.13	mg/Kg	✱	12/07/20 14:07	12/07/20 17:35	1
pH	8.5		0.2	0.2	SU			12/08/20 11:52	1

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191855-1

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)
500-191855-1	3138V-12-B01 (0-1.3)	113	99	94	98
500-191855-2	3138V-12-B02 (0-6.2)	105	99	92	92
500-191855-3	3138V-12-B02 (0-6.2) Dup	105	97	91	90
500-191855-4	3138V-12-B03 (0-1.3)	108	99	96	93
LCS 500-575898/29	Lab Control Sample	96	91	79	92
LCS 500-576095/4	Lab Control Sample	90	91	79	97
LCSD 500-575898/5	Lab Control Sample Dup	98	90	80	93
LCSD 500-576095/5	Lab Control Sample Dup	91	91	77	97
MB 500-575898/7	Method Blank	103	92	84	93
MB 500-576095/7	Method Blank	91	97	85	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)
500-191855-1	3138V-12-B01 (0-1.3)	90	67	69	70	86	51
500-191855-2	3138V-12-B02 (0-6.2)	80	65	66	66	84	53
500-191855-3	3138V-12-B02 (0-6.2) Dup	86	67	70	68	78	52
500-191855-4	3138V-12-B03 (0-1.3)	86	68	69	69	85	60
LCS 500-575876/2-A	Lab Control Sample	102	86	88	98	100	81
MB 500-575876/1-A	Method Blank	99	78	84	81	99	64

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 - Lake County - WO 073

Job ID: 500-191855-1

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

Lab Sample ID: MB 500-575898/7
Matrix: Solid
Analysis Batch: 575898

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			12/09/20 01:14	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg			12/09/20 01:14	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg			12/09/20 01:14	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg			12/09/20 01:14	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg			12/09/20 01:14	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			12/09/20 01:14	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg			12/09/20 01:14	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg			12/09/20 01:14	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg			12/09/20 01:14	1
Chloroethane	<0.0015		0.0050	0.0015	mg/Kg			12/09/20 01:14	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg			12/09/20 01:14	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg			12/09/20 01:14	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg			12/09/20 01:14	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg			12/09/20 01:14	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg			12/09/20 01:14	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg			12/09/20 01:14	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg			12/09/20 01:14	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg			12/09/20 01:14	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			12/09/20 01:14	1
1,3-Dichloropropene, Total	<0.00070		0.0020	0.00070	mg/Kg			12/09/20 01:14	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg			12/09/20 01:14	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg			12/09/20 01:14	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg			12/09/20 01:14	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg			12/09/20 01:14	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg			12/09/20 01:14	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg			12/09/20 01:14	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg			12/09/20 01:14	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg			12/09/20 01:14	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg			12/09/20 01:14	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg			12/09/20 01:14	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg			12/09/20 01:14	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg			12/09/20 01:14	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg			12/09/20 01:14	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg			12/09/20 01:14	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg			12/09/20 01:14	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg			12/09/20 01:14	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg			12/09/20 01:14	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	103		75 - 131		12/09/20 01:14	1
Dibromofluoromethane	92		75 - 126		12/09/20 01:14	1
1,2-Dichloroethane-d4 (Surr)	84		70 - 134		12/09/20 01:14	1
Toluene-d8 (Surr)	93		75 - 124		12/09/20 01:14	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191855-1

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

Lab Sample ID: LCS 500-575898/29

Matrix: Solid

Analysis Batch: 575898

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	0.0307		mg/Kg		61	40 - 150
Benzene	0.0500	0.0511		mg/Kg		102	70 - 125
Bromodichloromethane	0.0500	0.0470		mg/Kg		94	67 - 129
Bromoform	0.0500	0.0432		mg/Kg		86	68 - 136
Bromomethane	0.0500	0.0368		mg/Kg		74	70 - 130
2-Butanone (MEK)	0.0500	0.0328		mg/Kg		66	47 - 138
Carbon disulfide	0.0500	0.0558		mg/Kg		112	70 - 129
Carbon tetrachloride	0.0500	0.0555		mg/Kg		111	75 - 125
Chlorobenzene	0.0500	0.0519		mg/Kg		104	50 - 150
Chloroethane	0.0500	0.0495		mg/Kg		99	75 - 125
Chloroform	0.0500	0.0508		mg/Kg		102	57 - 135
Chloromethane	0.0500	0.0643	*	mg/Kg		129	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0510		mg/Kg		102	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0434		mg/Kg		87	70 - 125
Dibromochloromethane	0.0500	0.0478		mg/Kg		96	69 - 125
1,1-Dichloroethane	0.0500	0.0597		mg/Kg		119	70 - 125
1,2-Dichloroethane	0.0500	0.0455		mg/Kg		91	70 - 130
1,1-Dichloroethene	0.0500	0.0553		mg/Kg		111	70 - 120
1,2-Dichloropropane	0.0500	0.0556		mg/Kg		111	70 - 125
Ethylbenzene	0.0500	0.0531		mg/Kg		106	61 - 136
2-Hexanone	0.0500	0.0348		mg/Kg		70	48 - 146
Methylene Chloride	0.0500	0.0491		mg/Kg		98	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0338		mg/Kg		68	50 - 148
Methyl tert-butyl ether	0.0500	0.0395		mg/Kg		79	50 - 140
Styrene	0.0500	0.0511		mg/Kg		102	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0438		mg/Kg		88	70 - 122
Tetrachloroethene	0.0500	0.0470		mg/Kg		94	70 - 124
Toluene	0.0500	0.0499		mg/Kg		100	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0544		mg/Kg		109	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0412		mg/Kg		82	70 - 125
1,1,1-Trichloroethane	0.0500	0.0522		mg/Kg		104	70 - 128
1,1,2-Trichloroethane	0.0500	0.0440		mg/Kg		88	70 - 125
Trichloroethene	0.0500	0.0530		mg/Kg		106	70 - 125
Vinyl acetate	0.0500	0.0351		mg/Kg		70	40 - 153
Vinyl chloride	0.0500	0.0569		mg/Kg		114	70 - 125
Xylenes, Total	0.100	0.0996		mg/Kg		100	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	96		75 - 131
Dibromofluoromethane	91		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 - Lake County - WO 073

Job ID: 500-191855-1

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

Lab Sample ID: LCSD 500-575898/5
Matrix: Solid
Analysis Batch: 575898

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	0.0312		mg/Kg		62	40 - 150	1	30
Benzene	0.0500	0.0556		mg/Kg		111	70 - 125	8	30
Bromodichloromethane	0.0500	0.0515		mg/Kg		103	67 - 129	9	30
Bromoform	0.0500	0.0487		mg/Kg		97	68 - 136	12	30
Bromomethane	0.0500	0.0478		mg/Kg		96	70 - 130	26	30
2-Butanone (MEK)	0.0500	0.0326		mg/Kg		65	47 - 138	0	30
Carbon disulfide	0.0500	0.0606		mg/Kg		121	70 - 129	8	30
Carbon tetrachloride	0.0500	0.0606		mg/Kg		121	75 - 125	9	30
Chlorobenzene	0.0500	0.0564		mg/Kg		113	50 - 150	8	30
Chloroethane	0.0500	0.0615		mg/Kg		123	75 - 125	22	30
Chloroform	0.0500	0.0534		mg/Kg		107	57 - 135	5	30
Chloromethane	0.0500	0.0705	*	mg/Kg		141	70 - 125	9	30
cis-1,2-Dichloroethene	0.0500	0.0549		mg/Kg		110	70 - 125	7	30
cis-1,3-Dichloropropene	0.0500	0.0474		mg/Kg		95	70 - 125	9	30
Dibromochloromethane	0.0500	0.0520		mg/Kg		104	69 - 125	8	30
1,1-Dichloroethane	0.0500	0.0638	*	mg/Kg		128	70 - 125	7	30
1,2-Dichloroethane	0.0500	0.0501		mg/Kg		100	70 - 130	10	30
1,1-Dichloroethene	0.0500	0.0588		mg/Kg		118	70 - 120	6	30
1,2-Dichloropropane	0.0500	0.0613		mg/Kg		123	70 - 125	10	30
Ethylbenzene	0.0500	0.0580		mg/Kg		116	61 - 136	9	30
2-Hexanone	0.0500	0.0396		mg/Kg		79	48 - 146	13	30
Methylene Chloride	0.0500	0.0512		mg/Kg		102	70 - 126	4	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0375		mg/Kg		75	50 - 148	10	30
Methyl tert-butyl ether	0.0500	0.0429		mg/Kg		86	50 - 140	8	30
Styrene	0.0500	0.0569		mg/Kg		114	70 - 125	11	30
1,1,2,2-Tetrachloroethane	0.0500	0.0514		mg/Kg		103	70 - 122	16	30
Tetrachloroethene	0.0500	0.0538		mg/Kg		108	70 - 124	14	30
Toluene	0.0500	0.0558		mg/Kg		112	70 - 125	11	30
trans-1,2-Dichloroethene	0.0500	0.0591		mg/Kg		118	70 - 125	8	30
trans-1,3-Dichloropropene	0.0500	0.0462		mg/Kg		92	70 - 125	11	30
1,1,1-Trichloroethane	0.0500	0.0578		mg/Kg		116	70 - 128	10	30
1,1,2-Trichloroethane	0.0500	0.0490		mg/Kg		98	70 - 125	11	30
Trichloroethene	0.0500	0.0582		mg/Kg		116	70 - 125	9	30
Vinyl acetate	0.0500	0.0408		mg/Kg		82	40 - 153	15	30
Vinyl chloride	0.0500	0.0620		mg/Kg		124	70 - 125	9	30
Xylenes, Total	0.100	0.109		mg/Kg		109	53 - 147	9	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	98		75 - 131
Dibromofluoromethane	90		75 - 126
1,2-Dichloroethane-d4 (Surr)	80		70 - 134
Toluene-d8 (Surr)	93		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191855-1

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

Lab Sample ID: MB 500-576095/7
Matrix: Solid
Analysis Batch: 576095

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			12/10/20 02:54	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg			12/10/20 02:54	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg			12/10/20 02:54	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg			12/10/20 02:54	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg			12/10/20 02:54	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			12/10/20 02:54	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg			12/10/20 02:54	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg			12/10/20 02:54	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg			12/10/20 02:54	1
Chloroethane	<0.0015		0.0050	0.0015	mg/Kg			12/10/20 02:54	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg			12/10/20 02:54	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg			12/10/20 02:54	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg			12/10/20 02:54	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg			12/10/20 02:54	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg			12/10/20 02:54	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg			12/10/20 02:54	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg			12/10/20 02:54	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg			12/10/20 02:54	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			12/10/20 02:54	1
1,3-Dichloropropene, Total	<0.00070		0.0020	0.00070	mg/Kg			12/10/20 02:54	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg			12/10/20 02:54	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg			12/10/20 02:54	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg			12/10/20 02:54	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg			12/10/20 02:54	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg			12/10/20 02:54	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg			12/10/20 02:54	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg			12/10/20 02:54	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg			12/10/20 02:54	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg			12/10/20 02:54	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg			12/10/20 02:54	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg			12/10/20 02:54	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg			12/10/20 02:54	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg			12/10/20 02:54	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg			12/10/20 02:54	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg			12/10/20 02:54	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg			12/10/20 02:54	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg			12/10/20 02:54	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	91		75 - 131		12/10/20 02:54	1
Dibromofluoromethane	97		75 - 126		12/10/20 02:54	1
1,2-Dichloroethane-d4 (Surr)	85		70 - 134		12/10/20 02:54	1
Toluene-d8 (Surr)	93		75 - 124		12/10/20 02:54	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191855-1

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

Lab Sample ID: LCS 500-576095/4
Matrix: Solid
Analysis Batch: 576095

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	0.0277		mg/Kg		55	40 - 150
Benzene	0.0500	0.0525		mg/Kg		105	70 - 125
Bromodichloromethane	0.0500	0.0475		mg/Kg		95	67 - 129
Bromoform	0.0500	0.0449		mg/Kg		90	68 - 136
Bromomethane	0.0500	0.0470		mg/Kg		94	70 - 130
2-Butanone (MEK)	0.0500	0.0257		mg/Kg		51	47 - 138
Carbon disulfide	0.0500	0.0570		mg/Kg		114	70 - 129
Carbon tetrachloride	0.0500	0.0571		mg/Kg		114	75 - 125
Chlorobenzene	0.0500	0.0519		mg/Kg		104	50 - 150
Chloroethane	0.0500	0.0632	*	mg/Kg		126	75 - 125
Chloroform	0.0500	0.0508		mg/Kg		102	57 - 135
Chloromethane	0.0500	0.0598		mg/Kg		120	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0524		mg/Kg		105	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0416		mg/Kg		83	70 - 125
Dibromochloromethane	0.0500	0.0487		mg/Kg		97	69 - 125
1,1-Dichloroethane	0.0500	0.0604		mg/Kg		121	70 - 125
1,2-Dichloroethane	0.0500	0.0453		mg/Kg		91	70 - 130
1,1-Dichloroethene	0.0500	0.0565		mg/Kg		113	70 - 120
1,2-Dichloropropane	0.0500	0.0542		mg/Kg		108	70 - 125
Ethylbenzene	0.0500	0.0538		mg/Kg		108	61 - 136
2-Hexanone	0.0500	0.0248		mg/Kg		50	48 - 146
Methylene Chloride	0.0500	0.0497		mg/Kg		99	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0272		mg/Kg		54	50 - 148
Methyl tert-butyl ether	0.0500	0.0393		mg/Kg		79	50 - 140
Styrene	0.0500	0.0500		mg/Kg		100	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0426		mg/Kg		85	70 - 122
Tetrachloroethene	0.0500	0.0492		mg/Kg		98	70 - 124
Toluene	0.0500	0.0532		mg/Kg		106	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0564		mg/Kg		113	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0379		mg/Kg		76	70 - 125
1,1,1-Trichloroethane	0.0500	0.0543		mg/Kg		109	70 - 128
1,1,2-Trichloroethane	0.0500	0.0444		mg/Kg		89	70 - 125
Trichloroethene	0.0500	0.0542		mg/Kg		108	70 - 125
Vinyl acetate	0.0500	0.0341		mg/Kg		68	40 - 153
Vinyl chloride	0.0500	0.0610		mg/Kg		122	70 - 125
Xylenes, Total	0.100	0.100		mg/Kg		100	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	90		75 - 131
Dibromofluoromethane	91		75 - 126
1,2-Dichloroethane-d4 (Surr)	79		70 - 134
Toluene-d8 (Surr)	97		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191855-1

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

Lab Sample ID: LCSD 500-576095/5
Matrix: Solid
Analysis Batch: 576095

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	0.0270		mg/Kg		54	40 - 150	3	30
Benzene	0.0500	0.0495		mg/Kg		99	70 - 125	6	30
Bromodichloromethane	0.0500	0.0448		mg/Kg		90	67 - 129	6	30
Bromoform	0.0500	0.0437		mg/Kg		87	68 - 136	3	30
Bromomethane	0.0500	0.0446		mg/Kg		89	70 - 130	5	30
2-Butanone (MEK)	0.0500	0.0270		mg/Kg		54	47 - 138	5	30
Carbon disulfide	0.0500	0.0509		mg/Kg		102	70 - 129	11	30
Carbon tetrachloride	0.0500	0.0517		mg/Kg		103	75 - 125	10	30
Chlorobenzene	0.0500	0.0492		mg/Kg		98	50 - 150	5	30
Chloroethane	0.0500	0.0569		mg/Kg		114	75 - 125	11	30
Chloroform	0.0500	0.0474		mg/Kg		95	57 - 135	7	30
Chloromethane	0.0500	0.0550		mg/Kg		110	70 - 125	8	30
cis-1,2-Dichloroethene	0.0500	0.0477		mg/Kg		95	70 - 125	9	30
cis-1,3-Dichloropropene	0.0500	0.0409		mg/Kg		82	70 - 125	2	30
Dibromochloromethane	0.0500	0.0470		mg/Kg		94	69 - 125	4	30
1,1-Dichloroethane	0.0500	0.0560		mg/Kg		112	70 - 125	8	30
1,2-Dichloroethane	0.0500	0.0431		mg/Kg		86	70 - 130	5	30
1,1-Dichloroethene	0.0500	0.0506		mg/Kg		101	70 - 120	11	30
1,2-Dichloropropane	0.0500	0.0512		mg/Kg		102	70 - 125	6	30
Ethylbenzene	0.0500	0.0500		mg/Kg		100	61 - 136	7	30
2-Hexanone	0.0500	0.0268		mg/Kg		54	48 - 146	8	30
Methylene Chloride	0.0500	0.0460		mg/Kg		92	70 - 126	8	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0288		mg/Kg		58	50 - 148	6	30
Methyl tert-butyl ether	0.0500	0.0358		mg/Kg		72	50 - 140	9	30
Styrene	0.0500	0.0487		mg/Kg		97	70 - 125	3	30
1,1,2,2-Tetrachloroethane	0.0500	0.0411		mg/Kg		82	70 - 122	3	30
Tetrachloroethene	0.0500	0.0459		mg/Kg		92	70 - 124	7	30
Toluene	0.0500	0.0507		mg/Kg		101	70 - 125	5	30
trans-1,2-Dichloroethene	0.0500	0.0513		mg/Kg		103	70 - 125	9	30
trans-1,3-Dichloropropene	0.0500	0.0369		mg/Kg		74	70 - 125	3	30
1,1,1-Trichloroethane	0.0500	0.0499		mg/Kg		100	70 - 128	8	30
1,1,2-Trichloroethane	0.0500	0.0431		mg/Kg		86	70 - 125	3	30
Trichloroethene	0.0500	0.0507		mg/Kg		101	70 - 125	7	30
Vinyl acetate	0.0500	0.0349		mg/Kg		70	40 - 153	2	30
Vinyl chloride	0.0500	0.0567		mg/Kg		113	70 - 125	7	30
Xylenes, Total	0.100	0.0944		mg/Kg		94	53 - 147	6	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	91		75 - 131
Dibromofluoromethane	91		75 - 126
1,2-Dichloroethane-d4 (Surr)	77		70 - 134
Toluene-d8 (Surr)	97		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191855-1

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

Lab Sample ID: MB 500-575876/1-A

Matrix: Solid

Analysis Batch: 575999

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 575876

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0060		0.033	0.0060	mg/Kg		12/08/20 17:04	12/09/20 11:10	1
Acenaphthylene	<0.0044		0.033	0.0044	mg/Kg		12/08/20 17:04	12/09/20 11:10	1
Anthracene	<0.0056		0.033	0.0056	mg/Kg		12/08/20 17:04	12/09/20 11:10	1
Benzo[a]anthracene	<0.0045		0.033	0.0045	mg/Kg		12/08/20 17:04	12/09/20 11:10	1
Benzo[a]pyrene	<0.0064		0.033	0.0064	mg/Kg		12/08/20 17:04	12/09/20 11:10	1
Benzo[b]fluoranthene	<0.0072		0.033	0.0072	mg/Kg		12/08/20 17:04	12/09/20 11:10	1
Benzo[g,h,i]perylene	<0.011		0.033	0.011	mg/Kg		12/08/20 17:04	12/09/20 11:10	1
Benzo[k]fluoranthene	<0.0098		0.033	0.0098	mg/Kg		12/08/20 17:04	12/09/20 11:10	1
Bis(2-chloroethoxy)methane	<0.034		0.17	0.034	mg/Kg		12/08/20 17:04	12/09/20 11:10	1
Bis(2-chloroethyl)ether	<0.050		0.17	0.050	mg/Kg		12/08/20 17:04	12/09/20 11:10	1
Bis(2-ethylhexyl) phthalate	<0.061		0.17	0.061	mg/Kg		12/08/20 17:04	12/09/20 11:10	1
4-Bromophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		12/08/20 17:04	12/09/20 11:10	1
Butyl benzyl phthalate	<0.063		0.17	0.063	mg/Kg		12/08/20 17:04	12/09/20 11:10	1
Carbazole	<0.083		0.17	0.083	mg/Kg		12/08/20 17:04	12/09/20 11:10	1
4-Chloroaniline	<0.16		0.67	0.16	mg/Kg		12/08/20 17:04	12/09/20 11:10	1
4-Chloro-3-methylphenol	<0.11		0.33	0.11	mg/Kg		12/08/20 17:04	12/09/20 11:10	1
2-Chloronaphthalene	<0.037		0.17	0.037	mg/Kg		12/08/20 17:04	12/09/20 11:10	1
2-Chlorophenol	<0.057		0.17	0.057	mg/Kg		12/08/20 17:04	12/09/20 11:10	1
4-Chlorophenyl phenyl ether	<0.039		0.17	0.039	mg/Kg		12/08/20 17:04	12/09/20 11:10	1
Chrysene	<0.0091		0.033	0.0091	mg/Kg		12/08/20 17:04	12/09/20 11:10	1
Dibenz(a,h)anthracene	<0.0064		0.033	0.0064	mg/Kg		12/08/20 17:04	12/09/20 11:10	1
Dibenzofuran	<0.039		0.17	0.039	mg/Kg		12/08/20 17:04	12/09/20 11:10	1
1,2-Dichlorobenzene	<0.040		0.17	0.040	mg/Kg		12/08/20 17:04	12/09/20 11:10	1
1,3-Dichlorobenzene	<0.037		0.17	0.037	mg/Kg		12/08/20 17:04	12/09/20 11:10	1
1,4-Dichlorobenzene	<0.043		0.17	0.043	mg/Kg		12/08/20 17:04	12/09/20 11:10	1
3,3'-Dichlorobenzidine	<0.047		0.17	0.047	mg/Kg		12/08/20 17:04	12/09/20 11:10	1
2,4-Dichlorophenol	<0.079		0.33	0.079	mg/Kg		12/08/20 17:04	12/09/20 11:10	1
Diethyl phthalate	<0.056		0.17	0.056	mg/Kg		12/08/20 17:04	12/09/20 11:10	1
2,4-Dimethylphenol	<0.13		0.33	0.13	mg/Kg		12/08/20 17:04	12/09/20 11:10	1
Dimethyl phthalate	<0.043		0.17	0.043	mg/Kg		12/08/20 17:04	12/09/20 11:10	1
Di-n-butyl phthalate	<0.051		0.17	0.051	mg/Kg		12/08/20 17:04	12/09/20 11:10	1
4,6-Dinitro-2-methylphenol	<0.27		0.67	0.27	mg/Kg		12/08/20 17:04	12/09/20 11:10	1
2,4-Dinitrophenol	<0.59		0.67	0.59	mg/Kg		12/08/20 17:04	12/09/20 11:10	1
2,4-Dinitrotoluene	<0.053		0.17	0.053	mg/Kg		12/08/20 17:04	12/09/20 11:10	1
2,6-Dinitrotoluene	<0.065		0.17	0.065	mg/Kg		12/08/20 17:04	12/09/20 11:10	1
Di-n-octyl phthalate	<0.054		0.17	0.054	mg/Kg		12/08/20 17:04	12/09/20 11:10	1
Fluoranthene	<0.0062		0.033	0.0062	mg/Kg		12/08/20 17:04	12/09/20 11:10	1
Fluorene	<0.0047		0.033	0.0047	mg/Kg		12/08/20 17:04	12/09/20 11:10	1
Hexachlorobenzene	<0.0077		0.067	0.0077	mg/Kg		12/08/20 17:04	12/09/20 11:10	1
Hexachlorobutadiene	<0.052		0.17	0.052	mg/Kg		12/08/20 17:04	12/09/20 11:10	1
Hexachlorocyclopentadiene	<0.19		0.67	0.19	mg/Kg		12/08/20 17:04	12/09/20 11:10	1
Hexachloroethane	<0.051		0.17	0.051	mg/Kg		12/08/20 17:04	12/09/20 11:10	1
Indeno[1,2,3-cd]pyrene	<0.0086		0.033	0.0086	mg/Kg		12/08/20 17:04	12/09/20 11:10	1
Isophorone	<0.037		0.17	0.037	mg/Kg		12/08/20 17:04	12/09/20 11:10	1
2-Methylnaphthalene	<0.0061		0.067	0.0061	mg/Kg		12/08/20 17:04	12/09/20 11:10	1
2-Methylphenol	<0.053		0.17	0.053	mg/Kg		12/08/20 17:04	12/09/20 11:10	1
3 & 4 Methylphenol	<0.055		0.17	0.055	mg/Kg		12/08/20 17:04	12/09/20 11:10	1
Naphthalene	<0.0051		0.033	0.0051	mg/Kg		12/08/20 17:04	12/09/20 11:10	1

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191855-1

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

Lab Sample ID: MB 500-575876/1-A
Matrix: Solid
Analysis Batch: 575999

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575876

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	<0.045		0.17	0.045	mg/Kg		12/08/20 17:04	12/09/20 11:10	1
3-Nitroaniline	<0.10		0.33	0.10	mg/Kg		12/08/20 17:04	12/09/20 11:10	1
4-Nitroaniline	<0.14		0.33	0.14	mg/Kg		12/08/20 17:04	12/09/20 11:10	1
Nitrobenzene	<0.0083		0.033	0.0083	mg/Kg		12/08/20 17:04	12/09/20 11:10	1
2-Nitrophenol	<0.079		0.33	0.079	mg/Kg		12/08/20 17:04	12/09/20 11:10	1
4-Nitrophenol	<0.32		0.67	0.32	mg/Kg		12/08/20 17:04	12/09/20 11:10	1
N-Nitrosodi-n-propylamine	<0.041		0.067	0.041	mg/Kg		12/08/20 17:04	12/09/20 11:10	1
N-Nitrosodiphenylamine	<0.039		0.17	0.039	mg/Kg		12/08/20 17:04	12/09/20 11:10	1
2,2'-oxybis[1-chloropropane]	<0.039		0.17	0.039	mg/Kg		12/08/20 17:04	12/09/20 11:10	1
Pentachlorophenol	<0.53		0.67	0.53	mg/Kg		12/08/20 17:04	12/09/20 11:10	1
Phenanthrene	<0.0046		0.033	0.0046	mg/Kg		12/08/20 17:04	12/09/20 11:10	1
Phenol	<0.074		0.17	0.074	mg/Kg		12/08/20 17:04	12/09/20 11:10	1
Pyrene	<0.0066		0.033	0.0066	mg/Kg		12/08/20 17:04	12/09/20 11:10	1
1,2,4-Trichlorobenzene	<0.036		0.17	0.036	mg/Kg		12/08/20 17:04	12/09/20 11:10	1
2,4,5-Trichlorophenol	<0.076		0.33	0.076	mg/Kg		12/08/20 17:04	12/09/20 11:10	1
2,4,6-Trichlorophenol	<0.11		0.33	0.11	mg/Kg		12/08/20 17:04	12/09/20 11:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	99		43 - 145	12/08/20 17:04	12/09/20 11:10	1
2-Fluorophenol	78		31 - 166	12/08/20 17:04	12/09/20 11:10	1
Nitrobenzene-d5	84		37 - 147	12/08/20 17:04	12/09/20 11:10	1
Phenol-d5	81		30 - 153	12/08/20 17:04	12/09/20 11:10	1
Terphenyl-d14	99		42 - 157	12/08/20 17:04	12/09/20 11:10	1
2,4,6-Tribromophenol	64		31 - 143	12/08/20 17:04	12/09/20 11:10	1

Lab Sample ID: LCS 500-575876/2-A
Matrix: Solid
Analysis Batch: 575999

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575876

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1.33	1.26		mg/Kg		95	65 - 124
Acenaphthylene	1.33	1.20		mg/Kg		90	68 - 120
Anthracene	1.33	1.27		mg/Kg		95	70 - 114
Benzo[a]anthracene	1.33	1.21		mg/Kg		91	67 - 122
Benzo[a]pyrene	1.33	1.17		mg/Kg		88	65 - 133
Benzo[b]fluoranthene	1.33	1.25		mg/Kg		94	69 - 129
Benzo[g,h,i]perylene	1.33	1.09		mg/Kg		82	72 - 131
Benzo[k]fluoranthene	1.33	1.27		mg/Kg		95	68 - 127
Bis(2-chloroethoxy)methane	1.33	1.12		mg/Kg		84	60 - 112
Bis(2-chloroethyl)ether	1.33	1.08		mg/Kg		81	55 - 111
Bis(2-ethylhexyl) phthalate	1.33	1.19		mg/Kg		89	72 - 131
4-Bromophenyl phenyl ether	1.33	1.20		mg/Kg		90	68 - 118
Butyl benzyl phthalate	1.33	1.19		mg/Kg		89	71 - 129
Carbazole	1.33	1.66		mg/Kg		124	65 - 142
4-Chloroaniline	1.33	0.804		mg/Kg		60	30 - 150
4-Chloro-3-methylphenol	1.33	1.18		mg/Kg		89	65 - 122
2-Chloronaphthalene	1.33	1.17		mg/Kg		88	69 - 114
2-Chlorophenol	1.33	1.16		mg/Kg		87	64 - 110

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191855-1

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

Lab Sample ID: LCS 500-575876/2-A
Matrix: Solid
Analysis Batch: 575999

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575876

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	1.24		mg/Kg		93	63 - 120
Dibenz(a,h)anthracene	1.33	1.15		mg/Kg		87	64 - 131
Dibenzofuran	1.33	1.21		mg/Kg		91	66 - 115
1,2-Dichlorobenzene	1.33	1.08		mg/Kg		81	62 - 110
1,3-Dichlorobenzene	1.33	1.06		mg/Kg		80	65 - 124
1,4-Dichlorobenzene	1.33	1.08		mg/Kg		81	61 - 110
3,3'-Dichlorobenzidine	1.33	1.18		mg/Kg		88	35 - 128
2,4-Dichlorophenol	1.33	1.26		mg/Kg		95	58 - 120
Diethyl phthalate	1.33	1.31		mg/Kg		98	58 - 120
2,4-Dimethylphenol	1.33	1.04		mg/Kg		78	60 - 110
Dimethyl phthalate	1.33	1.23		mg/Kg		92	69 - 116
Di-n-butyl phthalate	1.33	1.25		mg/Kg		94	65 - 120
4,6-Dinitro-2-methylphenol	2.67	0.990		mg/Kg		37	10 - 110
2,4-Dinitrophenol	2.67	<0.59		mg/Kg		21	10 - 100
2,4-Dinitrotoluene	1.33	1.34		mg/Kg		101	69 - 124
2,6-Dinitrotoluene	1.33	1.32		mg/Kg		99	70 - 123
Di-n-octyl phthalate	1.33	1.18		mg/Kg		89	68 - 134
Fluoranthene	1.33	1.32		mg/Kg		99	62 - 120
Fluorene	1.33	1.22		mg/Kg		92	62 - 120
Hexachlorobenzene	1.33	1.34		mg/Kg		101	63 - 124
Hexachlorobutadiene	1.33	1.30		mg/Kg		98	56 - 120
Hexachlorocyclopentadiene	1.33	0.747		mg/Kg		56	10 - 133
Hexachloroethane	1.33	0.978		mg/Kg		73	60 - 114
Indeno[1,2,3-cd]pyrene	1.33	1.14		mg/Kg		86	68 - 130
Isophorone	1.33	1.22		mg/Kg		91	55 - 110
2-Methylnaphthalene	1.33	1.20		mg/Kg		90	69 - 112
2-Methylphenol	1.33	1.30		mg/Kg		97	60 - 120
3 & 4 Methylphenol	1.33	1.16		mg/Kg		87	57 - 120
Naphthalene	1.33	1.17		mg/Kg		87	63 - 110
2-Nitroaniline	1.33	1.19		mg/Kg		89	57 - 124
3-Nitroaniline	1.33	0.824		mg/Kg		62	40 - 122
4-Nitroaniline	1.33	1.11		mg/Kg		83	60 - 160
Nitrobenzene	1.33	1.22		mg/Kg		92	60 - 116
2-Nitrophenol	1.33	1.14		mg/Kg		86	60 - 120
4-Nitrophenol	2.67	2.64		mg/Kg		99	30 - 122
N-Nitrosodi-n-propylamine	1.33	1.15		mg/Kg		86	56 - 118
N-Nitrosodiphenylamine	1.33	1.32		mg/Kg		99	65 - 112
2,2'-oxybis[1-chloropropane]	1.33	1.08		mg/Kg		81	40 - 124
Pentachlorophenol	2.67	1.78		mg/Kg		67	13 - 112
Phenanthrene	1.33	1.24		mg/Kg		93	62 - 120
Phenol	1.33	1.20		mg/Kg		90	56 - 122
Pyrene	1.33	1.28		mg/Kg		96	61 - 128
1,2,4-Trichlorobenzene	1.33	1.26		mg/Kg		94	66 - 117
2,4,5-Trichlorophenol	1.33	1.38		mg/Kg		103	50 - 120
2,4,6-Trichlorophenol	1.33	1.25		mg/Kg		94	57 - 120

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191855-1

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

Lab Sample ID: LCS 500-575876/2-A
Matrix: Solid
Analysis Batch: 575999

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575876

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	102		43 - 145
2-Fluorophenol	86		31 - 166
Nitrobenzene-d5	88		37 - 147
Phenol-d5	98		30 - 153
Terphenyl-d14	100		42 - 157
2,4,6-Tribromophenol	81		31 - 143

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-575713/1-A
Matrix: Solid
Analysis Batch: 575996

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575713

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
	Result	Qualifier								
Antimony	<0.39		2.0	0.39	mg/Kg		12/07/20 18:09	12/08/20 18:07		1
Arsenic	<0.34		1.0	0.34	mg/Kg		12/07/20 18:09	12/08/20 18:07		1
Barium	<0.11		1.0	0.11	mg/Kg		12/07/20 18:09	12/08/20 18:07		1
Beryllium	<0.093		0.40	0.093	mg/Kg		12/07/20 18:09	12/08/20 18:07		1
Cadmium	0.0480	J	0.20	0.036	mg/Kg		12/07/20 18:09	12/08/20 18:07		1
Chromium	<0.50		1.0	0.50	mg/Kg		12/07/20 18:09	12/08/20 18:07		1
Cobalt	<0.13		0.50	0.13	mg/Kg		12/07/20 18:09	12/08/20 18:07		1
Copper	<0.28		1.0	0.28	mg/Kg		12/07/20 18:09	12/08/20 18:07		1
Iron	<10		20	10	mg/Kg		12/07/20 18:09	12/08/20 18:07		1
Lead	<0.23		0.50	0.23	mg/Kg		12/07/20 18:09	12/08/20 18:07		1
Magnesium	<5.0		10	5.0	mg/Kg		12/07/20 18:09	12/08/20 18:07		1
Calcium	4.63	J	20	3.4	mg/Kg		12/07/20 18:09	12/08/20 18:07		1
Manganese	<0.15		1.0	0.15	mg/Kg		12/07/20 18:09	12/08/20 18:07		1
Nickel	<0.29		1.0	0.29	mg/Kg		12/07/20 18:09	12/08/20 18:07		1
Selenium	<0.59		1.0	0.59	mg/Kg		12/07/20 18:09	12/08/20 18:07		1
Silver	<0.13		0.50	0.13	mg/Kg		12/07/20 18:09	12/08/20 18:07		1
Thallium	<0.50		1.0	0.50	mg/Kg		12/07/20 18:09	12/08/20 18:07		1
Vanadium	<0.12		0.50	0.12	mg/Kg		12/07/20 18:09	12/08/20 18:07		1
Zinc	1.26	J	2.0	0.88	mg/Kg		12/07/20 18:09	12/08/20 18:07		1
Potassium	<18		50	18	mg/Kg		12/07/20 18:09	12/08/20 18:07		1
Sodium	51.5	J	100	15	mg/Kg		12/07/20 18:09	12/08/20 18:07		1

Lab Sample ID: LCS 500-575713/2-A
Matrix: Solid
Analysis Batch: 575996

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575713

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
Antimony	50.0	42.9		mg/Kg		86		80 - 120
Arsenic	10.0	9.23		mg/Kg		92		80 - 120
Barium	200	193		mg/Kg		97		80 - 120
Beryllium	5.00	4.36		mg/Kg		87		80 - 120
Cadmium	5.00	4.62		mg/Kg		92		80 - 120
Chromium	20.0	18.6		mg/Kg		93		80 - 120
Cobalt	50.0	47.6		mg/Kg		95		80 - 120
Copper	25.0	23.8		mg/Kg		95		80 - 120

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191855-1

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

Lab Sample ID: LCS 500-575713/2-A
Matrix: Solid
Analysis Batch: 575996

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575713

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	100	96.1		mg/Kg		96	80 - 120
Lead	10.0	9.11		mg/Kg		91	80 - 120
Magnesium	1000	890		mg/Kg		89	80 - 120
Calcium	1000	938		mg/Kg		94	80 - 120
Manganese	50.0	44.6		mg/Kg		89	80 - 120
Nickel	50.0	47.0		mg/Kg		94	80 - 120
Selenium	10.0	8.48		mg/Kg		85	80 - 120
Silver	5.00	4.48		mg/Kg		90	80 - 120
Thallium	10.0	9.41		mg/Kg		94	80 - 120
Vanadium	50.0	47.5		mg/Kg		95	80 - 120
Zinc	50.0	46.3		mg/Kg		93	80 - 120
Potassium	1000	942		mg/Kg		94	80 - 120
Sodium	1000	972		mg/Kg		97	80 - 120

Lab Sample ID: 500-191855-1 MS
Matrix: Solid
Analysis Batch: 575996

Client Sample ID: 3138V-12-B01 (0-1.3)
Prep Type: Total/NA
Prep Batch: 575713

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.88	J F1	30.4	5.48	F1	mg/Kg	✱	15	75 - 125
Arsenic	6.5		6.09	12.0		mg/Kg	✱	90	75 - 125
Barium	64	V	122	159		mg/Kg	✱	78	75 - 125
Beryllium	0.83		3.04	3.25		mg/Kg	✱	80	75 - 125
Cadmium	1.2	B F1 V	3.04	3.53		mg/Kg	✱	77	75 - 125
Chromium	19	V	12.2	29.0		mg/Kg	✱	81	75 - 125
Cobalt	13		30.4	41.4		mg/Kg	✱	94	75 - 125
Copper	42	F1 F2	15.2	75.5	F1	mg/Kg	✱	219	75 - 125
Iron	20000	V	60.9	20900	4	mg/Kg	✱	2023	75 - 125
Lead	220	F2	6.09	309	4	mg/Kg	✱	1458	75 - 125
Magnesium	21000	F2 V	609	30500	4	mg/Kg	✱	1644	75 - 125
Calcium	32000	B F2 V	609	50300	E 4	mg/Kg	✱	2946	75 - 125
Manganese	490	V	30.4	589	4	mg/Kg	✱	326	75 - 125
Nickel	31		30.4	59.8		mg/Kg	✱	94	75 - 125
Selenium	0.43	J F1	6.09	4.92	F1	mg/Kg	✱	74	75 - 125
Silver	<0.076		3.04	2.40		mg/Kg	✱	79	75 - 125
Thallium	<0.29		6.09	5.57		mg/Kg	✱	92	75 - 125
Vanadium	25	V	30.4	49.7		mg/Kg	✱	81	75 - 125
Zinc	160	B F2	30.4	272	4	mg/Kg	✱	367	75 - 125
Potassium	2800	V	609	4390	4	mg/Kg	✱	269	75 - 125
Sodium	1000	B F1 V	609	1450	F1	mg/Kg	✱	70	75 - 125

Lab Sample ID: 500-191855-1 MSD
Matrix: Solid
Analysis Batch: 575996

Client Sample ID: 3138V-12-B01 (0-1.3)
Prep Type: Total/NA
Prep Batch: 575713

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	0.88	J F1	28.5	4.87	F1	mg/Kg	✱	14	75 - 125	12	20
Arsenic	6.5		5.70	11.3		mg/Kg	✱	85	75 - 125	5	20
Barium	64	V	114	159		mg/Kg	✱	83	75 - 125	0	20

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191855-1

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

Lab Sample ID: 500-191855-1 MSD
Matrix: Solid
Analysis Batch: 575996

Client Sample ID: 3138V-12-B01 (0-1.3)
Prep Type: Total/NA
Prep Batch: 575713

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec.		RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits	RPD		
Beryllium	0.83		2.85	3.08		mg/Kg	☼	79	75 - 125	5	20	
Cadmium	1.2	B F1 V	2.85	3.10	F1	mg/Kg	☼	67	75 - 125	13	20	
Chromium	19	V	11.4	30.3		mg/Kg	☼	98	75 - 125	5	20	
Cobalt	13		28.5	41.1		mg/Kg	☼	99	75 - 125	1	20	
Copper	42	F1 F2	14.2	57.6	F2	mg/Kg	☼	109	75 - 125	27	20	
Iron	20000	V	57.0	21200	4	mg/Kg	☼	2693	75 - 125	1	20	
Lead	220	F2	5.70	176	4 F2	mg/Kg	☼	-786	75 - 125	55	20	
Magnesium	21000	F2 V	570	23300	4 F2	mg/Kg	☼	486	75 - 125	27	20	
Calcium	32000	B F2 V	570	39200	E 4 F2	mg/Kg	☼	1205	75 - 125	25	20	
Manganese	490	V	28.5	510	4	mg/Kg	☼	70	75 - 125	14	20	
Nickel	31		28.5	60.5		mg/Kg	☼	103	75 - 125	1	20	
Selenium	0.43	J F1	5.70	4.25	F1	mg/Kg	☼	67	75 - 125	15	20	
Silver	<0.076		2.85	2.19		mg/Kg	☼	77	75 - 125	9	20	
Thallium	<0.29		5.70	5.25		mg/Kg	☼	92	75 - 125	6	20	
Vanadium	25	V	28.5	51.3		mg/Kg	☼	93	75 - 125	3	20	
Zinc	160	B F2	28.5	198	4 F2	mg/Kg	☼	133	75 - 125	31	20	
Potassium	2800	V	570	4890	4	mg/Kg	☼	375	75 - 125	11	20	
Sodium	1000	B F1 V	570	1540		mg/Kg	☼	91	75 - 125	6	20	

Lab Sample ID: 500-191855-1 DU
Matrix: Solid
Analysis Batch: 575996

Client Sample ID: 3138V-12-B01 (0-1.3)
Prep Type: Total/NA
Prep Batch: 575713

Analyte	Sample	Sample	DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Antimony	0.88	J F1	0.789	J	mg/Kg	☼	11	20
Arsenic	6.5		6.39		mg/Kg	☼	1	20
Barium	64	V	72.7		mg/Kg	☼	12	20
Beryllium	0.83		0.792		mg/Kg	☼	5	20
Cadmium	1.2	B F1 V	0.799	F3	mg/Kg	☼	39	20
Chromium	19	V	18.0		mg/Kg	☼	6	20
Cobalt	13		12.4		mg/Kg	☼	4	20
Copper	42	F1 F2	39.1		mg/Kg	☼	7	20
Iron	20000	V	19700		mg/Kg	☼	0.2	20
Lead	220	F2	151	F3	mg/Kg	☼	38	20
Magnesium	21000	F2 V	27700	F3	mg/Kg	☼	30	20
Calcium	32000	B F2 V	49300	E F3	mg/Kg	☼	42	20
Manganese	490	V	499		mg/Kg	☼	2	20
Nickel	31		32.1		mg/Kg	☼	3	20
Selenium	0.43	J F1	<0.33		mg/Kg	☼	NC	20
Silver	<0.076		<0.073		mg/Kg	☼	NC	20
Thallium	<0.29		0.282	J	mg/Kg	☼	NC	20
Vanadium	25	V	22.1		mg/Kg	☼	12	20
Zinc	160	B F2	157		mg/Kg	☼	2	20
Potassium	2800	V	2820		mg/Kg	☼	2	20
Sodium	1000	B F1 V	857		mg/Kg	☼	18	20

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191855-1

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

Lab Sample ID: LCS 500-575877/26-A
Matrix: Solid
Analysis Batch: 576153

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575877
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.100	0.0930		mg/L		93	80 - 120
Barium	0.500	0.491	J	mg/L		98	80 - 120
Cadmium	0.0500	0.0437		mg/L		87	80 - 120
Chromium	0.200	0.179		mg/L		90	80 - 120
Cobalt	0.500	0.428		mg/L		86	80 - 120
Copper	0.250	0.241		mg/L		97	80 - 120
Lead	0.100	0.0840		mg/L		84	80 - 120
Calcium	10.0	8.64		mg/L		86	80 - 120
Nickel	0.500	0.430		mg/L		86	80 - 120
Selenium	0.100	0.0920		mg/L		92	80 - 120
Silver	0.0500	0.0420		mg/L		84	80 - 120
Vanadium	0.500	0.468		mg/L		94	80 - 120
Potassium	10.0	10.2		mg/L		102	80 - 120

Lab Sample ID: LCS 500-575877/26-A
Matrix: Solid
Analysis Batch: 576368

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575877
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Iron	1.00	0.956		mg/L		96	80 - 120
Manganese	0.500	0.484		mg/L		97	80 - 120
Zinc	0.500	0.476	J	mg/L		95	80 - 120

Lab Sample ID: LCS 500-575877/2-A
Matrix: Solid
Analysis Batch: 576153

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575877
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.100	0.112		mg/L		112	80 - 120
Barium	0.500	0.504		mg/L		101	80 - 120
Beryllium	0.0500	0.0504		mg/L		101	80 - 120
Cadmium	0.0500	0.0543		mg/L		109	80 - 120
Chromium	0.200	0.193		mg/L		97	80 - 120
Cobalt	0.500	0.511		mg/L		102	80 - 120
Copper	0.250	0.283		mg/L		113	80 - 120
Iron	1.00	0.974		mg/L		97	80 - 120
Lead	0.100	0.0969		mg/L		97	80 - 120
Magnesium	10.0	9.11		mg/L		91	80 - 120
Calcium	10.0	9.86		mg/L		99	80 - 120
Manganese	0.500	0.465		mg/L		93	80 - 120
Nickel	0.500	0.507		mg/L		101	80 - 120
Selenium	0.100	0.105		mg/L		105	80 - 120
Silver	0.0500	0.0537		mg/L		107	80 - 120
Vanadium	0.500	0.505		mg/L		101	80 - 120
Zinc	0.500	0.516		mg/L		103	80 - 120
Potassium	10.0	12.0		mg/L		120	80 - 120

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191855-1

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

Lab Sample ID: LCS 500-575878/2-A
Matrix: Solid
Analysis Batch: 576152

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575878
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.100	0.103		mg/L		103	80 - 120
Barium	0.500	0.466	J	mg/L		93	80 - 120
Beryllium	0.0500	0.0475		mg/L		95	80 - 120
Cadmium	0.0500	0.0518		mg/L		104	80 - 120
Chromium	0.200	0.182		mg/L		91	80 - 120
Cobalt	0.500	0.486		mg/L		97	80 - 120
Copper	0.250	0.254		mg/L		102	80 - 120
Iron	1.00	0.960		mg/L		96	80 - 120
Lead	0.100	0.0886		mg/L		89	80 - 120
Magnesium	10.0	8.60		mg/L		86	80 - 120
Calcium	10.0	9.26		mg/L		93	80 - 120
Manganese	0.500	0.452		mg/L		90	80 - 120
Nickel	0.500	0.485		mg/L		97	80 - 120
Selenium	0.100	0.0987		mg/L		99	80 - 120
Silver	0.0500	0.0527		mg/L		105	80 - 120
Vanadium	0.500	0.466		mg/L		93	80 - 120
Zinc	0.500	0.527		mg/L		105	80 - 120
Potassium	10.0	11.1		mg/L		111	80 - 120

Lab Sample ID: LCS 500-575879/2-A
Matrix: Solid
Analysis Batch: 576153

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575879
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cadmium	0.0500	0.0467		mg/L		93	80 - 120
Lead	0.100	0.0955		mg/L		95	80 - 120

Lab Sample ID: LCS 500-575879/2-A
Matrix: Solid
Analysis Batch: 576418

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575879
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Manganese	0.500	0.483		mg/L		97	80 - 120

Lab Sample ID: LB 500-575682/1-B
Matrix: Solid
Analysis Batch: 576153

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 575877

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.010		0.050	0.010	mg/L		12/08/20 17:06	12/09/20 20:51	1
Barium	<0.050		0.50	0.050	mg/L		12/08/20 17:06	12/09/20 20:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/08/20 17:06	12/09/20 20:51	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		12/08/20 17:06	12/09/20 20:51	1
Chromium	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 20:51	1
Cobalt	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 20:51	1
Copper	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 20:51	1
Iron	<0.20		0.40	0.20	mg/L		12/08/20 17:06	12/09/20 20:51	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/08/20 17:06	12/09/20 20:51	1
Magnesium	<0.50		2.5	0.50	mg/L		12/08/20 17:06	12/09/20 20:51	1

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191855-1

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

Lab Sample ID: LB 500-575682/1-B
Matrix: Solid
Analysis Batch: 576153

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 575877

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Calcium	<0.50		5.0	0.50	mg/L		12/08/20 17:06	12/09/20 20:51	1
Manganese	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 20:51	1
Nickel	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 20:51	1
Selenium	<0.020		0.050	0.020	mg/L		12/08/20 17:06	12/09/20 20:51	1
Silver	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 20:51	1
Vanadium	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 20:51	1
Zinc	<0.020		0.50	0.020	mg/L		12/08/20 17:06	12/09/20 20:51	1
Potassium	<0.50		2.5	0.50	mg/L		12/08/20 17:06	12/09/20 20:51	1

Lab Sample ID: LB2 500-575684/1-B
Matrix: Solid
Analysis Batch: 576153

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 575877

Analyte	LB2	LB2	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.010		0.050	0.010	mg/L		12/08/20 17:06	12/09/20 22:29	1
Barium	<0.050		0.50	0.050	mg/L		12/08/20 17:06	12/09/20 22:29	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		12/08/20 17:06	12/09/20 22:29	1
Chromium	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 22:29	1
Cobalt	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 22:29	1
Copper	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 22:29	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/08/20 17:06	12/09/20 22:29	1
Calcium	<0.50		5.0	0.50	mg/L		12/08/20 17:06	12/09/20 22:29	1
Nickel	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 22:29	1
Selenium	<0.020		0.050	0.020	mg/L		12/08/20 17:06	12/09/20 22:29	1
Silver	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 22:29	1
Vanadium	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 22:29	1
Potassium	<0.50		2.5	0.50	mg/L		12/08/20 17:06	12/09/20 22:29	1

Lab Sample ID: LB2 500-575684/1-B
Matrix: Solid
Analysis Batch: 576368

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 575877

Analyte	LB2	LB2	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Iron	<0.20		0.40	0.20	mg/L		12/08/20 17:06	12/10/20 12:49	1
Manganese	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/10/20 12:49	1
Zinc	<0.020		0.50	0.020	mg/L		12/08/20 17:06	12/10/20 12:49	1

Lab Sample ID: LB 500-575685/1-C
Matrix: Solid
Analysis Batch: 576152

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 575878

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.010		0.050	0.010	mg/L		12/08/20 17:08	12/09/20 12:11	1
Barium	<0.050		0.50	0.050	mg/L		12/08/20 17:08	12/09/20 12:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/08/20 17:08	12/09/20 12:11	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		12/08/20 17:08	12/09/20 12:11	1
Chromium	<0.010		0.025	0.010	mg/L		12/08/20 17:08	12/09/20 12:11	1
Cobalt	<0.010		0.025	0.010	mg/L		12/08/20 17:08	12/09/20 12:11	1
Copper	<0.010		0.025	0.010	mg/L		12/08/20 17:08	12/09/20 12:11	1

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191855-1

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

Lab Sample ID: LB 500-575685/1-C
Matrix: Solid
Analysis Batch: 576152

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 575878

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Iron	<0.20		0.40	0.20	mg/L		12/08/20 17:08	12/09/20 12:11	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/08/20 17:08	12/09/20 12:11	1
Magnesium	<0.50		2.5	0.50	mg/L		12/08/20 17:08	12/09/20 12:11	1
Calcium	<0.50		5.0	0.50	mg/L		12/08/20 17:08	12/09/20 12:11	1
Manganese	<0.010		0.025	0.010	mg/L		12/08/20 17:08	12/09/20 12:11	1
Nickel	<0.010		0.025	0.010	mg/L		12/08/20 17:08	12/09/20 12:11	1
Selenium	<0.020		0.050	0.020	mg/L		12/08/20 17:08	12/09/20 12:11	1
Silver	<0.010		0.025	0.010	mg/L		12/08/20 17:08	12/09/20 12:11	1
Vanadium	<0.010		0.025	0.010	mg/L		12/08/20 17:08	12/09/20 12:11	1
Zinc	<0.020		0.50	0.020	mg/L		12/08/20 17:08	12/09/20 12:11	1
Potassium	<0.50		2.5	0.50	mg/L		12/08/20 17:08	12/09/20 12:11	1

Lab Sample ID: LB 500-575687/1-B
Matrix: Solid
Analysis Batch: 576153

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 575879

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Cadmium	<0.0020		0.0050	0.0020	mg/L		12/08/20 17:10	12/09/20 22:49	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/08/20 17:10	12/09/20 22:49	1

Lab Sample ID: LB 500-575687/1-B
Matrix: Solid
Analysis Batch: 576418

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 575879

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Manganese	<0.010		0.025	0.010	mg/L		12/08/20 17:10	12/11/20 10:39	1

Lab Sample ID: 500-191855-4 MS
Matrix: Solid
Analysis Batch: 576153

Client Sample ID: 3138V-12-B03 (0-1.3)
Prep Type: SPLP East
Prep Batch: 575879

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
Cadmium	0.0056		0.0500	0.0479		mg/L		85	75 - 125
Lead	1.7		0.100	2.02	4	mg/L		342	75 - 125

Lab Sample ID: 500-191855-4 MS
Matrix: Solid
Analysis Batch: 576418

Client Sample ID: 3138V-12-B03 (0-1.3)
Prep Type: SPLP East
Prep Batch: 575879

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
Manganese	1.0		0.500	1.54		mg/L		105	75 - 125

Lab Sample ID: 500-191855-4 DU
Matrix: Solid
Analysis Batch: 576153

Client Sample ID: 3138V-12-B03 (0-1.3)
Prep Type: SPLP East
Prep Batch: 575879

Analyte	Sample Result	Sample Qualifier	DU DU		Unit	D	RPD	Limit
			Result	Qualifier				
Cadmium	0.0056		0.00575		mg/L		3	20
Lead	1.7		1.73		mg/L		3	20

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191855-1

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

Lab Sample ID: 500-191855-4 DU
Matrix: Solid
Analysis Batch: 576418

Client Sample ID: 3138V-12-B03 (0-1.3)
Prep Type: SPLP East
Prep Batch: 575879

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Manganese	1.0		1.03		mg/L		2	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-575877/26-A
Matrix: Solid
Analysis Batch: 576084

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575877

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.442		mg/L		88	80 - 120
Thallium	0.100	0.0969		mg/L		97	80 - 120

Lab Sample ID: LCS 500-575877/2-A
Matrix: Solid
Analysis Batch: 576084

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575877

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.465		mg/L		93	80 - 120
Thallium	0.100	0.0984		mg/L		98	80 - 120

Lab Sample ID: LCS 500-575878/2-A
Matrix: Solid
Analysis Batch: 576084

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575878

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.463		mg/L		93	80 - 120
Thallium	0.100	0.0977		mg/L		98	80 - 120

Lab Sample ID: LB 500-575682/1-B
Matrix: Solid
Analysis Batch: 576084

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 575877

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/08/20 17:06	12/09/20 14:02	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/08/20 17:06	12/09/20 14:02	1

Lab Sample ID: LB2 500-575684/1-B
Matrix: Solid
Analysis Batch: 576084

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 575877

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/08/20 17:06	12/09/20 15:02	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/08/20 17:06	12/09/20 15:02	1

Lab Sample ID: LB 500-575685/1-C
Matrix: Solid
Analysis Batch: 576084

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 575878

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/08/20 17:08	12/09/20 15:08	1

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191855-1

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

Lab Sample ID: LB 500-575685/1-C
Matrix: Solid
Analysis Batch: 576084

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 575878

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		12/08/20 17:08	12/09/20 15:08	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-576011/12-A
Matrix: Solid
Analysis Batch: 576215

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 576011

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/09/20 08:35	12/10/20 06:56	1

Lab Sample ID: LCS 500-576011/14-A
Matrix: Solid
Analysis Batch: 576215

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 576011

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00208		mg/L		104	80 - 120

Lab Sample ID: LCS 500-576011/27-A
Matrix: Solid
Analysis Batch: 576215

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 576011

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00200		mg/L		100	80 - 120

Lab Sample ID: LB 500-575682/1-C
Matrix: Solid
Analysis Batch: 576215

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 576011

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/09/20 08:35	12/10/20 06:58	1

Lab Sample ID: LB 500-575685/1-F
Matrix: Solid
Analysis Batch: 576215

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 576011

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/09/20 08:35	12/10/20 07:36	1

Lab Sample ID: LB2 500-575684/2-B
Matrix: Solid
Analysis Batch: 576215

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 576011

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/09/20 08:35	12/10/20 07:30	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191855-1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-575793/12-A
Matrix: Solid
Analysis Batch: 576025

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575793

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		12/08/20 14:00	12/09/20 06:16	1

Lab Sample ID: LCS 500-575793/13-A
Matrix: Solid
Analysis Batch: 576025

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575793

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.171		mg/Kg		102	80 - 120

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

Lab Sample ID: MB 500-575666/1-A
Matrix: Solid
Analysis Batch: 575854

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575666

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.12		0.24	0.12	mg/Kg		12/07/20 14:07	12/07/20 17:04	1

Lab Sample ID: HLCS 500-575666/2-A
Matrix: Solid
Analysis Batch: 575854

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575666

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	12.0	12.1		mg/Kg		101	90 - 110

Lab Sample ID: LCS 500-575666/3-A
Matrix: Solid
Analysis Batch: 575854

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575666

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	2.40	2.46		mg/Kg		103	85 - 115

Lab Sample ID: LLCS 500-575666/4-A
Matrix: Solid
Analysis Batch: 575854

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575666

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	1.20	1.41		mg/Kg		117	75 - 125

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191855-1

GC/MS VOA

Prep Batch: 575743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191855-1	3138V-12-B01 (0-1.3)	Total/NA	Solid	5035	
500-191855-2	3138V-12-B02 (0-6.2)	Total/NA	Solid	5035	
500-191855-3	3138V-12-B02 (0-6.2) Dup	Total/NA	Solid	5035	
500-191855-4	3138V-12-B03 (0-1.3)	Total/NA	Solid	5035	

Analysis Batch: 575898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191855-2	3138V-12-B02 (0-6.2)	Total/NA	Solid	8260B	575743
500-191855-3	3138V-12-B02 (0-6.2) Dup	Total/NA	Solid	8260B	575743
500-191855-4	3138V-12-B03 (0-1.3)	Total/NA	Solid	8260B	575743
MB 500-575898/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-575898/29	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-575898/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 576095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191855-1	3138V-12-B01 (0-1.3)	Total/NA	Solid	8260B	575743
MB 500-576095/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-576095/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-576095/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 575876

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191855-1	3138V-12-B01 (0-1.3)	Total/NA	Solid	3541	
500-191855-2	3138V-12-B02 (0-6.2)	Total/NA	Solid	3541	
500-191855-3	3138V-12-B02 (0-6.2) Dup	Total/NA	Solid	3541	
500-191855-4	3138V-12-B03 (0-1.3)	Total/NA	Solid	3541	
MB 500-575876/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-575876/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 575999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191855-1	3138V-12-B01 (0-1.3)	Total/NA	Solid	8270D	575876
500-191855-2	3138V-12-B02 (0-6.2)	Total/NA	Solid	8270D	575876
500-191855-3	3138V-12-B02 (0-6.2) Dup	Total/NA	Solid	8270D	575876
500-191855-4	3138V-12-B03 (0-1.3)	Total/NA	Solid	8270D	575876
MB 500-575876/1-A	Method Blank	Total/NA	Solid	8270D	575876
LCS 500-575876/2-A	Lab Control Sample	Total/NA	Solid	8270D	575876

Metals

Leach Batch: 575682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191855-1	3138V-12-B01 (0-1.3)	TCLP	Solid	1311	
500-191855-3	3138V-12-B02 (0-6.2) Dup	TCLP	Solid	1311	
LB 500-575682/1-B	Method Blank	TCLP	Solid	1311	
LB 500-575682/1-C	Method Blank	TCLP	Solid	1311	

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191855-1

Metals

Leach Batch: 575684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191855-2	3138V-12-B02 (0-6.2)	TCLP	Solid	1311	
LB2 500-575684/1-B	Method Blank	TCLP	Solid	1311	
LB2 500-575684/2-B	Method Blank	TCLP	Solid	1311	

Leach Batch: 575685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191855-4	3138V-12-B03 (0-1.3)	TCLP	Solid	1311	
LB 500-575685/1-C	Method Blank	TCLP	Solid	1311	
LB 500-575685/1-F	Method Blank	TCLP	Solid	1311	

Leach Batch: 575687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191855-1	3138V-12-B01 (0-1.3)	SPLP East	Solid	1312	
500-191855-2	3138V-12-B02 (0-6.2)	SPLP East	Solid	1312	
500-191855-3	3138V-12-B02 (0-6.2) Dup	SPLP East	Solid	1312	
500-191855-4	3138V-12-B03 (0-1.3)	SPLP East	Solid	1312	
LB 500-575687/1-B	Method Blank	SPLP East	Solid	1312	
500-191855-4 MS	3138V-12-B03 (0-1.3)	SPLP East	Solid	1312	
500-191855-4 DU	3138V-12-B03 (0-1.3)	SPLP East	Solid	1312	

Prep Batch: 575713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191855-1	3138V-12-B01 (0-1.3)	Total/NA	Solid	3050B	
500-191855-2	3138V-12-B02 (0-6.2)	Total/NA	Solid	3050B	
500-191855-3	3138V-12-B02 (0-6.2) Dup	Total/NA	Solid	3050B	
500-191855-4	3138V-12-B03 (0-1.3)	Total/NA	Solid	3050B	
MB 500-575713/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-575713/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-191855-1 MS	3138V-12-B01 (0-1.3)	Total/NA	Solid	3050B	
500-191855-1 MSD	3138V-12-B01 (0-1.3)	Total/NA	Solid	3050B	
500-191855-1 DU	3138V-12-B01 (0-1.3)	Total/NA	Solid	3050B	

Prep Batch: 575793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191855-1	3138V-12-B01 (0-1.3)	Total/NA	Solid	7471B	
500-191855-2	3138V-12-B02 (0-6.2)	Total/NA	Solid	7471B	
500-191855-3	3138V-12-B02 (0-6.2) Dup	Total/NA	Solid	7471B	
500-191855-4	3138V-12-B03 (0-1.3)	Total/NA	Solid	7471B	
MB 500-575793/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-575793/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Prep Batch: 575877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191855-1	3138V-12-B01 (0-1.3)	TCLP	Solid	3010A	575682
500-191855-2	3138V-12-B02 (0-6.2)	TCLP	Solid	3010A	575684
500-191855-3	3138V-12-B02 (0-6.2) Dup	TCLP	Solid	3010A	575682
LB 500-575682/1-B	Method Blank	TCLP	Solid	3010A	575682
LB2 500-575684/1-B	Method Blank	TCLP	Solid	3010A	575684
LCS 500-575877/26-A	Lab Control Sample	Total/NA	Solid	3010A	
LCS 500-575877/2-A	Lab Control Sample	Total/NA	Solid	3010A	

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191855-1

Metals

Prep Batch: 575878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191855-4	3138V-12-B03 (0-1.3)	TCLP	Solid	3010A	575685
LB 500-575685/1-C	Method Blank	TCLP	Solid	3010A	575685
LCS 500-575878/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 575879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191855-1	3138V-12-B01 (0-1.3)	SPLP East	Solid	3010A	575687
500-191855-2	3138V-12-B02 (0-6.2)	SPLP East	Solid	3010A	575687
500-191855-3	3138V-12-B02 (0-6.2) Dup	SPLP East	Solid	3010A	575687
500-191855-4	3138V-12-B03 (0-1.3)	SPLP East	Solid	3010A	575687
LB 500-575687/1-B	Method Blank	SPLP East	Solid	3010A	575687
LCS 500-575879/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-191855-4 MS	3138V-12-B03 (0-1.3)	SPLP East	Solid	3010A	575687
500-191855-4 DU	3138V-12-B03 (0-1.3)	SPLP East	Solid	3010A	575687

Analysis Batch: 575996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191855-1	3138V-12-B01 (0-1.3)	Total/NA	Solid	6010B	575713
500-191855-2	3138V-12-B02 (0-6.2)	Total/NA	Solid	6010B	575713
500-191855-3	3138V-12-B02 (0-6.2) Dup	Total/NA	Solid	6010B	575713
500-191855-4	3138V-12-B03 (0-1.3)	Total/NA	Solid	6010B	575713
MB 500-575713/1-A	Method Blank	Total/NA	Solid	6010B	575713
LCS 500-575713/2-A	Lab Control Sample	Total/NA	Solid	6010B	575713
500-191855-1 MS	3138V-12-B01 (0-1.3)	Total/NA	Solid	6010B	575713
500-191855-1 MSD	3138V-12-B01 (0-1.3)	Total/NA	Solid	6010B	575713
500-191855-1 DU	3138V-12-B01 (0-1.3)	Total/NA	Solid	6010B	575713

Prep Batch: 576011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191855-1	3138V-12-B01 (0-1.3)	TCLP	Solid	7470A	575682
500-191855-2	3138V-12-B02 (0-6.2)	TCLP	Solid	7470A	575684
500-191855-3	3138V-12-B02 (0-6.2) Dup	TCLP	Solid	7470A	575682
500-191855-4	3138V-12-B03 (0-1.3)	TCLP	Solid	7470A	575685
LB 500-575682/1-C	Method Blank	TCLP	Solid	7470A	575682
LB 500-575685/1-F	Method Blank	TCLP	Solid	7470A	575685
LB2 500-575684/2-B	Method Blank	TCLP	Solid	7470A	575684
MB 500-576011/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-576011/14-A	Lab Control Sample	Total/NA	Solid	7470A	
LCS 500-576011/27-A	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 576025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191855-1	3138V-12-B01 (0-1.3)	Total/NA	Solid	7471B	575793
500-191855-2	3138V-12-B02 (0-6.2)	Total/NA	Solid	7471B	575793
500-191855-3	3138V-12-B02 (0-6.2) Dup	Total/NA	Solid	7471B	575793
500-191855-4	3138V-12-B03 (0-1.3)	Total/NA	Solid	7471B	575793
MB 500-575793/12-A	Method Blank	Total/NA	Solid	7471B	575793
LCS 500-575793/13-A	Lab Control Sample	Total/NA	Solid	7471B	575793

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191855-1

Metals

Analysis Batch: 576084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191855-1	3138V-12-B01 (0-1.3)	TCLP	Solid	6020A	575877
500-191855-2	3138V-12-B02 (0-6.2)	TCLP	Solid	6020A	575877
500-191855-3	3138V-12-B02 (0-6.2) Dup	TCLP	Solid	6020A	575877
500-191855-4	3138V-12-B03 (0-1.3)	TCLP	Solid	6020A	575878
LB 500-575682/1-B	Method Blank	TCLP	Solid	6020A	575877
LB 500-575685/1-C	Method Blank	TCLP	Solid	6020A	575878
LB2 500-575684/1-B	Method Blank	TCLP	Solid	6020A	575877
LCS 500-575877/26-A	Lab Control Sample	Total/NA	Solid	6020A	575877
LCS 500-575877/2-A	Lab Control Sample	Total/NA	Solid	6020A	575877
LCS 500-575878/2-A	Lab Control Sample	Total/NA	Solid	6020A	575878

Analysis Batch: 576152

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191855-4	3138V-12-B03 (0-1.3)	TCLP	Solid	6010B	575878
LB 500-575685/1-C	Method Blank	TCLP	Solid	6010B	575878
LCS 500-575878/2-A	Lab Control Sample	Total/NA	Solid	6010B	575878

Analysis Batch: 576153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191855-1	3138V-12-B01 (0-1.3)	SPLP East	Solid	6010B	575879
500-191855-1	3138V-12-B01 (0-1.3)	TCLP	Solid	6010B	575877
500-191855-2	3138V-12-B02 (0-6.2)	SPLP East	Solid	6010B	575879
500-191855-2	3138V-12-B02 (0-6.2)	TCLP	Solid	6010B	575877
500-191855-3	3138V-12-B02 (0-6.2) Dup	TCLP	Solid	6010B	575877
500-191855-4	3138V-12-B03 (0-1.3)	SPLP East	Solid	6010B	575879
LB 500-575682/1-B	Method Blank	TCLP	Solid	6010B	575877
LB 500-575687/1-B	Method Blank	SPLP East	Solid	6010B	575879
LB2 500-575684/1-B	Method Blank	TCLP	Solid	6010B	575877
LCS 500-575877/26-A	Lab Control Sample	Total/NA	Solid	6010B	575877
LCS 500-575877/2-A	Lab Control Sample	Total/NA	Solid	6010B	575877
LCS 500-575879/2-A	Lab Control Sample	Total/NA	Solid	6010B	575879
500-191855-4 MS	3138V-12-B03 (0-1.3)	SPLP East	Solid	6010B	575879
500-191855-4 DU	3138V-12-B03 (0-1.3)	SPLP East	Solid	6010B	575879

Analysis Batch: 576167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191855-2	3138V-12-B02 (0-6.2)	Total/NA	Solid	6010B	575713
500-191855-3	3138V-12-B02 (0-6.2) Dup	Total/NA	Solid	6010B	575713
500-191855-4	3138V-12-B03 (0-1.3)	Total/NA	Solid	6010B	575713

Analysis Batch: 576215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191855-1	3138V-12-B01 (0-1.3)	TCLP	Solid	7470A	576011
500-191855-2	3138V-12-B02 (0-6.2)	TCLP	Solid	7470A	576011
500-191855-3	3138V-12-B02 (0-6.2) Dup	TCLP	Solid	7470A	576011
500-191855-4	3138V-12-B03 (0-1.3)	TCLP	Solid	7470A	576011
LB 500-575682/1-C	Method Blank	TCLP	Solid	7470A	576011
LB 500-575685/1-F	Method Blank	TCLP	Solid	7470A	576011
LB2 500-575684/2-B	Method Blank	TCLP	Solid	7470A	576011
MB 500-576011/12-A	Method Blank	Total/NA	Solid	7470A	576011
LCS 500-576011/14-A	Lab Control Sample	Total/NA	Solid	7470A	576011

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191855-1

Metals (Continued)

Analysis Batch: 576215 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-576011/27-A	Lab Control Sample	Total/NA	Solid	7470A	576011

Analysis Batch: 576368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191855-1	3138V-12-B01 (0-1.3)	TCLP	Solid	6010B	575877
500-191855-2	3138V-12-B02 (0-6.2)	TCLP	Solid	6010B	575877
500-191855-2	3138V-12-B02 (0-6.2)	TCLP	Solid	6010B	575877
500-191855-3	3138V-12-B02 (0-6.2) Dup	TCLP	Solid	6010B	575877
LB2 500-575684/1-B	Method Blank	TCLP	Solid	6010B	575877
LCS 500-575877/26-A	Lab Control Sample	Total/NA	Solid	6010B	575877

Analysis Batch: 576418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191855-1	3138V-12-B01 (0-1.3)	SPLP East	Solid	6010B	575879
500-191855-2	3138V-12-B02 (0-6.2)	SPLP East	Solid	6010B	575879
500-191855-3	3138V-12-B02 (0-6.2) Dup	SPLP East	Solid	6010B	575879
500-191855-4	3138V-12-B03 (0-1.3)	SPLP East	Solid	6010B	575879
LB 500-575687/1-B	Method Blank	SPLP East	Solid	6010B	575879
LCS 500-575879/2-A	Lab Control Sample	Total/NA	Solid	6010B	575879
500-191855-4 MS	3138V-12-B03 (0-1.3)	SPLP East	Solid	6010B	575879
500-191855-4 DU	3138V-12-B03 (0-1.3)	SPLP East	Solid	6010B	575879

General Chemistry

Analysis Batch: 575582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191855-1	3138V-12-B01 (0-1.3)	Total/NA	Solid	Moisture	
500-191855-2	3138V-12-B02 (0-6.2)	Total/NA	Solid	Moisture	
500-191855-3	3138V-12-B02 (0-6.2) Dup	Total/NA	Solid	Moisture	
500-191855-4	3138V-12-B03 (0-1.3)	Total/NA	Solid	Moisture	

Prep Batch: 575666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191855-1	3138V-12-B01 (0-1.3)	Total/NA	Solid	9010C	
500-191855-2	3138V-12-B02 (0-6.2)	Total/NA	Solid	9010C	
500-191855-3	3138V-12-B02 (0-6.2) Dup	Total/NA	Solid	9010C	
500-191855-4	3138V-12-B03 (0-1.3)	Total/NA	Solid	9010C	
MB 500-575666/1-A	Method Blank	Total/NA	Solid	9010C	
HLCS 500-575666/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 500-575666/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 500-575666/4-A	Lab Control Sample	Total/NA	Solid	9010C	

Analysis Batch: 575854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191855-1	3138V-12-B01 (0-1.3)	Total/NA	Solid	9012B	575666
500-191855-2	3138V-12-B02 (0-6.2)	Total/NA	Solid	9012B	575666
500-191855-3	3138V-12-B02 (0-6.2) Dup	Total/NA	Solid	9012B	575666
500-191855-4	3138V-12-B03 (0-1.3)	Total/NA	Solid	9012B	575666
MB 500-575666/1-A	Method Blank	Total/NA	Solid	9012B	575666
HLCS 500-575666/2-A	Lab Control Sample	Total/NA	Solid	9012B	575666
LCS 500-575666/3-A	Lab Control Sample	Total/NA	Solid	9012B	575666

Eurofins TestAmerica, Chicago

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191855-1

General Chemistry (Continued)

Analysis Batch: 575854 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LLCS 500-575666/4-A	Lab Control Sample	Total/NA	Solid	9012B	575666

Analysis Batch: 576068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191855-1	3138V-12-B01 (0-1.3)	Total/NA	Solid	9045D	
500-191855-2	3138V-12-B02 (0-6.2)	Total/NA	Solid	9045D	
500-191855-3	3138V-12-B02 (0-6.2) Dup	Total/NA	Solid	9045D	
500-191855-4	3138V-12-B03 (0-1.3)	Total/NA	Solid	9045D	
LCS 500-576068/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-576068/3	Lab Control Sample Dup	Total/NA	Solid	9045D	



Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191855-1

Client Sample ID: 3138V-12-B01 (0-1.3)

Lab Sample ID: 500-191855-1

Date Collected: 12/02/20 12:45

Matrix: Solid

Date Received: 12/02/20 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			575687	12/07/20 14:40	CMS	TAL CHI
SPLP East	Prep	3010A			575879	12/08/20 17:10	BDE	TAL CHI
SPLP East	Analysis	6010B		1	576153	12/09/20 23:29	EEN	TAL CHI
SPLP East	Leach	1312			575687	12/07/20 14:40	CMS	TAL CHI
SPLP East	Prep	3010A			575879	12/08/20 17:10	BDE	TAL CHI
SPLP East	Analysis	6010B		1	576418	12/11/20 11:18	EEN	TAL CHI
TCLP	Leach	1311			575682	12/07/20 14:40	CMS	TAL CHI
TCLP	Prep	3010A			575877	12/08/20 17:06	BDE	TAL CHI
TCLP	Analysis	6010B		1	576153	12/09/20 22:21	EEN	TAL CHI
TCLP	Leach	1311			575682	12/07/20 14:40	CMS	TAL CHI
TCLP	Prep	3010A			575877	12/08/20 17:06	BDE	TAL CHI
TCLP	Analysis	6010B		1	576368	12/10/20 12:43	EEN	TAL CHI
TCLP	Leach	1311			575682	12/07/20 14:40	CMS	TAL CHI
TCLP	Prep	3010A			575877	12/08/20 17:06	BDE	TAL CHI
TCLP	Analysis	6020A		1	576084	12/09/20 14:53	FXG	TAL CHI
TCLP	Leach	1311			575682	12/07/20 14:40	CMS	TAL CHI
TCLP	Prep	7470A			576011	12/09/20 08:35	MJG	TAL CHI
TCLP	Analysis	7470A		1	576215	12/10/20 07:13	MJG	TAL CHI
Total/NA	Analysis	9045D		1	576068	12/08/20 11:44	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	575582	12/07/20 09:25	LWN	TAL CHI

Client Sample ID: 3138V-12-B01 (0-1.3)

Lab Sample ID: 500-191855-1

Date Collected: 12/02/20 12:45

Matrix: Solid

Date Received: 12/02/20 17:50

Percent Solids: 80.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			575743	12/03/20 17:19	WRE	TAL CHI
Total/NA	Analysis	8260B		1	576095	12/10/20 09:41	PMF	TAL CHI
Total/NA	Prep	3541			575876	12/08/20 17:04	ACK	TAL CHI
Total/NA	Analysis	8270D		1	575999	12/09/20 16:01	AJD	TAL CHI
Total/NA	Prep	3050B			575713	12/07/20 18:09	BDE	TAL CHI
Total/NA	Analysis	6010B		1	575996	12/08/20 18:14	JJB	TAL CHI
Total/NA	Prep	7471B			575793	12/08/20 14:00	MJG	TAL CHI
Total/NA	Analysis	7471B		1	576025	12/09/20 07:03	MJG	TAL CHI
Total/NA	Prep	9010C			575666	12/07/20 14:07	PSP	TAL CHI
Total/NA	Analysis	9012B		1	575854	12/07/20 17:29	PSP	TAL CHI

Client Sample ID: 3138V-12-B02 (0-6.2)

Lab Sample ID: 500-191855-2

Date Collected: 12/02/20 12:20

Matrix: Solid

Date Received: 12/02/20 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			575687	12/07/20 14:40	CMS	TAL CHI
SPLP East	Prep	3010A			575879	12/08/20 17:10	BDE	TAL CHI
SPLP East	Analysis	6010B		1	576153	12/09/20 23:32	EEN	TAL CHI

Eurofins TestAmerica, Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191855-1

Client Sample ID: 3138V-12-B02 (0-6.2)

Lab Sample ID: 500-191855-2

Date Collected: 12/02/20 12:20

Matrix: Solid

Date Received: 12/02/20 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			575687	12/07/20 14:40	CMS	TAL CHI
SPLP East	Prep	3010A			575879	12/08/20 17:10	BDE	TAL CHI
SPLP East	Analysis	6010B		1	576418	12/11/20 11:21	EEN	TAL CHI
TCLP	Leach	1311			575684	12/07/20 14:40	CMS	TAL CHI
TCLP	Prep	3010A			575877	12/08/20 17:06	BDE	TAL CHI
TCLP	Analysis	6010B		1	576153	12/09/20 22:45	EEN	TAL CHI
TCLP	Leach	1311			575684	12/07/20 14:40	CMS	TAL CHI
TCLP	Prep	3010A			575877	12/08/20 17:06	BDE	TAL CHI
TCLP	Analysis	6010B		1	576368	12/10/20 12:56	EEN	TAL CHI
TCLP	Leach	1311			575684	12/07/20 14:40	CMS	TAL CHI
TCLP	Prep	3010A			575877	12/08/20 17:06	BDE	TAL CHI
TCLP	Analysis	6010B		5	576368	12/10/20 12:59	EEN	TAL CHI
TCLP	Leach	1311			575684	12/07/20 14:40	CMS	TAL CHI
TCLP	Prep	3010A			575877	12/08/20 17:06	BDE	TAL CHI
TCLP	Analysis	6020A		1	576084	12/09/20 15:06	FXG	TAL CHI
TCLP	Leach	1311			575684	12/07/20 14:40	CMS	TAL CHI
TCLP	Prep	7470A			576011	12/09/20 08:35	MJG	TAL CHI
TCLP	Analysis	7470A		1	576215	12/10/20 07:34	MJG	TAL CHI
Total/NA	Analysis	9045D		1	576068	12/08/20 11:47	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	575582	12/07/20 09:25	LWN	TAL CHI

Client Sample ID: 3138V-12-B02 (0-6.2)

Lab Sample ID: 500-191855-2

Date Collected: 12/02/20 12:20

Matrix: Solid

Date Received: 12/02/20 17:50

Percent Solids: 81.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			575743	12/03/20 17:19	WRE	TAL CHI
Total/NA	Analysis	8260B		1	575898	12/09/20 03:22	PMF	TAL CHI
Total/NA	Prep	3541			575876	12/08/20 17:04	ACK	TAL CHI
Total/NA	Analysis	8270D		1	575999	12/09/20 14:42	AJD	TAL CHI
Total/NA	Prep	3050B			575713	12/07/20 18:09	BDE	TAL CHI
Total/NA	Analysis	6010B		1	575996	12/08/20 18:36	JJB	TAL CHI
Total/NA	Prep	3050B			575713	12/07/20 18:09	BDE	TAL CHI
Total/NA	Analysis	6010B		5	576167	12/09/20 15:36	EEN	TAL CHI
Total/NA	Prep	7471B			575793	12/08/20 14:00	MJG	TAL CHI
Total/NA	Analysis	7471B		1	576025	12/09/20 07:05	MJG	TAL CHI
Total/NA	Prep	9010C			575666	12/07/20 14:07	PSP	TAL CHI
Total/NA	Analysis	9012B		1	575854	12/07/20 17:31	PSP	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191855-1

Client Sample ID: 3138V-12-B02 (0-6.2) Dup

Lab Sample ID: 500-191855-3

Date Collected: 12/02/20 12:25

Matrix: Solid

Date Received: 12/02/20 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			575687	12/07/20 14:40	CMS	TAL CHI
SPLP East	Prep	3010A			575879	12/08/20 17:10	BDE	TAL CHI
SPLP East	Analysis	6010B		1	576418	12/11/20 11:24	EEN	TAL CHI
TCLP	Leach	1311			575682	12/07/20 14:40	CMS	TAL CHI
TCLP	Prep	3010A			575877	12/08/20 17:06	BDE	TAL CHI
TCLP	Analysis	6010B		1	576153	12/09/20 22:25	EEN	TAL CHI
TCLP	Leach	1311			575682	12/07/20 14:40	CMS	TAL CHI
TCLP	Prep	3010A			575877	12/08/20 17:06	BDE	TAL CHI
TCLP	Analysis	6010B		1	576368	12/10/20 12:46	EEN	TAL CHI
TCLP	Leach	1311			575682	12/07/20 14:40	CMS	TAL CHI
TCLP	Prep	3010A			575877	12/08/20 17:06	BDE	TAL CHI
TCLP	Analysis	6020A		1	576084	12/09/20 14:55	FXG	TAL CHI
TCLP	Leach	1311			575682	12/07/20 14:40	CMS	TAL CHI
TCLP	Prep	7470A			576011	12/09/20 08:35	MJG	TAL CHI
TCLP	Analysis	7470A		1	576215	12/10/20 07:19	MJG	TAL CHI
Total/NA	Analysis	9045D		1	576068	12/08/20 11:49	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	575582	12/07/20 09:25	LWN	TAL CHI

Client Sample ID: 3138V-12-B02 (0-6.2) Dup

Lab Sample ID: 500-191855-3

Date Collected: 12/02/20 12:25

Matrix: Solid

Date Received: 12/02/20 17:50

Percent Solids: 82.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			575743	12/03/20 17:19	WRE	TAL CHI
Total/NA	Analysis	8260B		1	575898	12/09/20 03:47	PMF	TAL CHI
Total/NA	Prep	3541			575876	12/08/20 17:04	ACK	TAL CHI
Total/NA	Analysis	8270D		1	575999	12/09/20 15:08	AJD	TAL CHI
Total/NA	Prep	3050B			575713	12/07/20 18:09	BDE	TAL CHI
Total/NA	Analysis	6010B		1	575996	12/08/20 18:40	JJB	TAL CHI
Total/NA	Prep	3050B			575713	12/07/20 18:09	BDE	TAL CHI
Total/NA	Analysis	6010B		5	576167	12/09/20 15:40	EEN	TAL CHI
Total/NA	Prep	7471B			575793	12/08/20 14:00	MJG	TAL CHI
Total/NA	Analysis	7471B		1	576025	12/09/20 07:07	MJG	TAL CHI
Total/NA	Prep	9010C			575666	12/07/20 14:07	PSP	TAL CHI
Total/NA	Analysis	9012B		1	575854	12/07/20 17:33	PSP	TAL CHI

Client Sample ID: 3138V-12-B03 (0-1.3)

Lab Sample ID: 500-191855-4

Date Collected: 12/02/20 11:45

Matrix: Solid

Date Received: 12/02/20 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			575687	12/07/20 14:40	CMS	TAL CHI
SPLP East	Prep	3010A			575879	12/08/20 17:10	BDE	TAL CHI
SPLP East	Analysis	6010B		1	576153	12/09/20 23:38	EEN	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191855-1

Client Sample ID: 3138V-12-B03 (0-1.3)

Lab Sample ID: 500-191855-4

Date Collected: 12/02/20 11:45

Matrix: Solid

Date Received: 12/02/20 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			575687	12/07/20 14:40	CMS	TAL CHI
SPLP East	Prep	3010A			575879	12/08/20 17:10	BDE	TAL CHI
SPLP East	Analysis	6010B		1	576418	12/11/20 11:27	EEN	TAL CHI
TCLP	Leach	1311			575685	12/07/20 14:40	CMS	TAL CHI
TCLP	Prep	3010A			575878	12/08/20 17:08	BDE	TAL CHI
TCLP	Analysis	6010B		1	576152	12/09/20 12:18	EEN	TAL CHI
TCLP	Leach	1311			575685	12/07/20 14:40	CMS	TAL CHI
TCLP	Prep	3010A			575878	12/08/20 17:08	BDE	TAL CHI
TCLP	Analysis	6020A		1	576084	12/09/20 15:12	FXG	TAL CHI
TCLP	Leach	1311			575685	12/07/20 14:40	CMS	TAL CHI
TCLP	Prep	7470A			576011	12/09/20 08:35	MJG	TAL CHI
TCLP	Analysis	7470A		1	576215	12/10/20 07:45	MJG	TAL CHI
Total/NA	Analysis	9045D		1	576068	12/08/20 11:52	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	575582	12/07/20 09:25	LWN	TAL CHI

Client Sample ID: 3138V-12-B03 (0-1.3)

Lab Sample ID: 500-191855-4

Date Collected: 12/02/20 11:45

Matrix: Solid

Date Received: 12/02/20 17:50

Percent Solids: 82.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			575743	12/03/20 17:19	WRE	TAL CHI
Total/NA	Analysis	8260B		1	575898	12/09/20 04:13	PMF	TAL CHI
Total/NA	Prep	3541			575876	12/08/20 17:04	ACK	TAL CHI
Total/NA	Analysis	8270D		1	575999	12/09/20 15:35	AJD	TAL CHI
Total/NA	Prep	3050B			575713	12/07/20 18:09	BDE	TAL CHI
Total/NA	Analysis	6010B		1	575996	12/08/20 18:43	JJB	TAL CHI
Total/NA	Prep	3050B			575713	12/07/20 18:09	BDE	TAL CHI
Total/NA	Analysis	6010B		5	576167	12/09/20 15:43	EEN	TAL CHI
Total/NA	Prep	7471B			575793	12/08/20 14:00	MJG	TAL CHI
Total/NA	Analysis	7471B		1	576025	12/09/20 07:09	MJG	TAL CHI
Total/NA	Prep	9010C			575666	12/07/20 14:07	PSP	TAL CHI
Total/NA	Analysis	9012B		1	575854	12/07/20 17:35	PSP	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 - Lake County - WO 073

Job ID: 500-191855-1

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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Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191855-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6010B	SPLP Metals	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9012B	Cyanide, Total and/or Amenable	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
1311	TCLP Extraction	SW846	TAL CHI
1312	SPLP Extraction	SW846	TAL CHI
3010A	Preparation, Total Metals	SW846	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL CHI
7471B	Preparation, Mercury	SW846	TAL CHI
9010C	Cyanide, Distillation	SW846	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191855-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-191855-1	3138V-12-B01 (0-1.3)	Solid	12/02/20 12:45	12/02/20 17:50	
500-191855-2	3138V-12-B02 (0-6.2)	Solid	12/02/20 12:20	12/02/20 17:50	
500-191855-3	3138V-12-B02 (0-6.2) Dup	Solid	12/02/20 12:25	12/02/20 17:50	
500-191855-4	3138V-12-B03 (0-1.3)	Solid	12/02/20 11:45	12/02/20 17:50	

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Address: _____

Regulatory Program: DW NPDES RCRA Other:

TAL-8210

Client Contact Company Name: <u>TERRACON</u> Address: <u>192 Exchange Blvd</u> City/State/Zip: <u>Glenview Heights, IL</u> Phone: <u>630-445-0160</u> Fax: _____ Project Name: <u>1120701W</u> Site: <u>1120701W</u> PO # _____		Project Manager: <u>Richard @ Terracon</u> Tel/Email: <u>matt@terricon.com</u>		Site Contact: _____ Lab Contact: _____		Date: <u>12/02/2020</u> Carrier: _____		COC No: _____ 1 of 1 COCs Sampler: <u>D.G.P.</u> For Lab Use Only: Walk-in Client: _____ Lab Sampling: _____ Job / SDG No.: <u>520-191855</u>	
Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input checked="" type="checkbox"/> WORKING DAYS TAT if different from Below _____ <input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Filtered Sample (Y/N) _____ Perform MS / MSD (Y/N) _____ <u>Dec 5</u> <u>500cc's</u> <u>10/12/23 Inorganics / PAH</u> <u>12/12/23 Inorganics</u> <u>5/12/23 Inorganics</u>		 500-191855 COC		Sample Specific Notes: _____			
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Other
1	3138U-12-B01 (0-1.3)	12/02/20	1245	G	Soil	6	N	N	X X X X X
2	3138U-12-B02 (0-6.2)	12/02/20	1220	G	Soil	6	N	N	X X X X X
3	3138U-12-B02 Dup (0-6.2)	12/02/20	1225	G	Soil	6	N	N	X X X X X
4	3138U-12-B03 (0-1.3)	12/02/20	1145	G	Soil	6	N	N	X X X X X
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other _____									
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample. <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months				
Special Instructions/OC Requirements & Comments: <u>* NO Aluminum</u> <u>* Hold SPLP 23 Inorganics Per Terracon Instructions</u> <u>1,5 → 0.8, 3, 8 → 6</u>									
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.: _____		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____		Therm ID No.: _____			
Relinquished by: <u>[Signature]</u>		Company: <u>TERRACON</u>		Date/Time: <u>12/02/2020</u>		Received by: <u>[Signature]</u>		Company: <u>EPA</u>	
Relinquished by: <u>[Signature]</u>		Company: <u>EPA</u>		Date/Time: <u>12/20/2020</u>		Received by: _____		Company: _____	
Relinquished by: _____		Company: _____		Date/Time: _____		Received in Laboratory by: <u>[Signature]</u>		Company: <u>EPA-ORE</u>	

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-191855-1

Login Number: 191855

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	0.8,1.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 346-US Rt 41, N/o Rte 173 - S/o Rockland Rd Office Phone Number, if available: _____

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

US Rte 41(Northbound) IDOT STA 392+80 to 406+26; US Rte 41(Southbound) IDOT STA 392+50 to 399+40 (ISGS Site 3487-1)

City: Unincorporated Warren Twp State: IL Zip Code: 60031

County: Lake Township: Warren

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

Latitude: 42.39523 Longitude: - 87.92853

(Decimal Degrees)

(-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

EPA 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.): 1,083

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)]:

Soils from borings B01, B02, B03, B04, B05, B07 and B08 were sampled adjacent to ISGS Site No 3487-1. See Exhibits 4 and 5 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]:

Eurofins TestAmerica, Chicago - Lab Report Nos J191784-1 and J191854-1.

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

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

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

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

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

Matt Weiss
Printed Name:

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

2/26/21
Date:



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

Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3138V-12-B02 (0-6.2)	3487-1-B01 (0-6)	3487-1-B01 (6-11.4)
		Chicago	MSAs		Sample Depth (feet)	(0-6.2)	(0-6)	(6-11.4)
					Date Collected	12/2/2020	12/1/2020	12/1/2020
Volatile Organic Analytical Parameters								
Acetone	mg/kg	---	---	25		0.012	0.016	<0.0066
2-Butanone	mg/kg	---	---	17		<0.0019	<0.0018	<0.0017
Semivolatile Organic Analytical Parameters								
Acenaphthene	mg/kg	0.09	0.13	570		<0.0073	<0.0073	<0.0068
Acenaphthylene	mg/kg	0.03	0.07	85		<0.0054	<0.0054	<0.0050
Anthracene	mg/kg	0.25	0.4	12000		<0.0068	0.013	<0.0063
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		<0.0055	0.077	<0.0051
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		<0.0079	0.099	<0.0073
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		<0.0088	0.14	<0.0081
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		<0.013	0.065	<0.012
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		<0.012	0.044	<0.011
Chrysene	mg/kg	1.2	2.7	88		<0.011	0.091	<0.010
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		<0.0078	0.015	<0.0073
Fluoranthene	mg/kg	2.7	4.1	3100		<0.0075	0.17	<0.0070
Fluorene	mg/kg	0.1	0.18	560		<0.0057	<0.0057	<0.0053
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		<0.011	0.051	<0.0098
Naphthalene	mg/kg	0.04	0.2	1.8		<0.0062	<0.0063	<0.0058
Phenanthrene	mg/kg	1.3	2.5	210		0.006	0.063	<0.0053
Pyrene	mg/kg	1.9	3.0	2300		0.0082	0.14	<0.0075
Inorganic Analytical Parameters								
Arsenic	mg/kg	---	13	11.3		5.6	6.3	5
Barium	mg/kg	---	110	1500		56	88	36
Cadmium	mg/kg	---	0.6	5.2		0.26	0.22	0.2
Chromium, total	mg/kg	---	16.2	21		19	27	18
Lead	mg/kg	---	36	107		12	22	10
Mercury	mg/kg	---	0.06	0.89		0.023	0.028	0.014
Selenium	mg/kg	---	0.48	1.3		<0.35	0.54	0.36
Silver	mg/kg	---	0.55	4.4		<0.076	0.08	0.12
Antimony	mg/kg	---	4.0	5		0.68	0.6	0.62
Beryllium	mg/kg	---	0.59	22		0.8	1.2	0.8
Calcium	mg/kg	---	9,300	---		56000	6900	86000
Cobalt	mg/kg	---	8.9	20		14	17	13
Copper	mg/kg	---	19.6	2900		21	21	18
Cyanide	mg/kg	---	0.51	---		<0.13	0.25	<0.14
Iron	mg/kg	---	15,900	15000		18000	23000	23000
Magnesium	mg/kg	---	4,820	325000		30000	7300	44000
Manganese	mg/kg	---	636	630		400	370	410
Nickel	mg/kg	---	18	100		33	37	31
Potassium	mg/kg	---	1,268	---		3600	3500	3200
Sodium	mg/kg	---	130	---		780	1400	390
Thallium	mg/kg	---	0.32	2.6		<0.30	<0.29	<0.28
Vanadium	mg/kg	---	25.2	550		22	33	20
Zinc	mg/kg	---	95	5100		55	76	51
pH			6.25	9		8.4	7.8	7.4

Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3138V-12-B02 (0-6.2)	3487-1-B01 (0-6)	3487-1-B01 (6-11.4)
		Chicago	MSAs		Sample Depth (feet)	(0-6.2)	(0-6)	(6-11.4)
					Date Collected	12/2/2020	12/1/2020	12/1/2020
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	---	---	---		0.17	0.15	--
Magnesium,SPLP	mg/L	---	---	---		--	--	--
Manganese,SPLP	mg/L	---	---	---		2.3	2.2	0.43
Mercury,SPLP	mg/L	---	---	---		--	--	--
Nickel,SPLP	mg/L	---	---	---		--	--	--
Potassium,SPLP	mg/L	---	---	---		--	--	--
Selenium,SPLP	mg/L	---	---	---		--	--	--
Silver,SPLP	mg/L	---	---	---		--	--	--
Sodium,SPLP	mg/L	---	---	---		--	--	--
Thallium,SPLP	mg/L	---	---	---		--	--	--
Vanadium,SPLP	mg/L	---	---	---		--	--	--
Zinc,SPLP	mg/L	---	---	---		--	--	--
Cyanide,SPLP	mg/L	---	---	---		--	--	--
Inorganic Analytical Parameters (TCLP)								
Arsenic,TCLP	mg/L	---	---	---		<0.010	<0.010	<0.010
Barium,TCLP	mg/L	---	---	---		0.53	0.51	0.33
Cadmium,TCLP	mg/L	---	---	---		0.0034	<0.0020	<0.0020
Chromium,TCLP	mg/L	---	---	---		<0.010	<0.010	<0.010
Lead,TCLP	mg/L	---	---	---		0.013	0.0092	<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020	<0.00020	<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.020	<0.020	<0.020
Silver,TCLP	mg/L	---	---	---		<0.010	<0.010	<0.010
Antimony,TCLP	mg/L	---	---	---		<0.0060	<0.0060	<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040	<0.0040	<0.0040
Calcium,TCLP	mg/L	---	---	---		1000	250	600
Cobalt,TCLP	mg/L	---	---	---		0.036	0.015	<0.010
Copper,TCLP	mg/L	---	---	---		<0.010	<0.010	<0.010
Cyanide,TCLP	mg/L	---	---	---		--	--	--
Iron,TCLP	mg/L	---	---	---		<0.20	<0.20	<0.20
Magnesium,TCLP	mg/L	---	---	---		300	69	48
Manganese,TCLP	mg/L	---	---	---		6.5	14	0.99
Nickel,TCLP	mg/L	---	---	---		0.044	<0.010	<0.010
Potassium,TCLP	mg/L	---	---	---		1.9	1.6	2.7
Sodium,TCLP	mg/L	---	---	---		--	--	--
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.010	<0.010	<0.010
Zinc,TCLP	mg/L	---	---	---		0.031	<0.020	<0.020

Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3487-1-B02 (0-6)	3487-1-B02 (6-11.3)	3487-1-B02 (6-11.3) DUP
		Chicago	MSAs		Sample Depth (feet)	(0-6)	(6-11.3)	(6-11.3)
					Date Collected	12/2/2020	12/2/2020	12/2/2020
Volatile Organic Analytical Parameters								
Acetone	mg/kg	---	---	25		<0.0068	<0.0068	<0.0068
2-Butanone	mg/kg	---	---	17		<0.0017	<0.0017	<0.0017
Semivolatile Organic Analytical Parameters								
Acenaphthene	mg/kg	0.09	0.13	570		<0.0071	<0.0068	<0.0070
Acenaphthylene	mg/kg	0.03	0.07	85		<0.0052	<0.0050	<0.0051
Anthracene	mg/kg	0.25	0.4	12000		<0.0066	<0.0063	<0.0065
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		<0.0053	<0.0051	<0.0052
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		<0.0076	<0.0073	<0.0075
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		<0.0085	<0.0081	<0.0084
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		<0.013	<0.012	<0.012
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		<0.012	<0.011	<0.011
Chrysene	mg/kg	1.2	2.7	88		<0.011	<0.010	<0.011
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		<0.0076	<0.0073	<0.0075
Fluoranthene	mg/kg	2.7	4.1	3100		<0.0073	<0.0070	<0.0072
Fluorene	mg/kg	0.1	0.18	560		<0.0055	<0.0053	<0.0054
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		<0.010	<0.0098	<0.010
Naphthalene	mg/kg	0.04	0.2	1.8		<0.0061	<0.0058	<0.0060
Phenanthrene	mg/kg	1.3	2.5	210		<0.0055	0.007	0.0067
Pyrene	mg/kg	1.9	3.0	2300		<0.0078	<0.0075	<0.0077
Inorganic Analytical Parameters								
Arsenic	mg/kg	---	13	11.3		6	2.9	3.5
Barium	mg/kg	---	110	1500		48	50	58
Cadmium	mg/kg	---	0.6	5.2		0.09	0.073	0.091
Chromium, total	mg/kg	---	16.2	21		19	18	18
Lead	mg/kg	---	36	107		12	9.9	10
Mercury	mg/kg	---	0.06	0.89		0.014	0.014	0.019
Selenium	mg/kg	---	0.48	1.3		<0.35	<0.33	<0.34
Silver	mg/kg	---	0.55	4.4		<0.076	<0.073	<0.075
Antimony	mg/kg	---	4.0	5		0.41	0.52	0.55
Beryllium	mg/kg	---	0.59	22		0.8	0.7	0.74
Calcium	mg/kg	---	9,300	---		96000	80000	89000
Cobalt	mg/kg	---	8.9	20		15	7.4	8.5
Copper	mg/kg	---	19.6	2900		21	19	19
Cyanide	mg/kg	---	0.51	---		<0.13	<0.14	<0.15
Iron	mg/kg	---	15,900	15000		17000	15000	15000
Magnesium	mg/kg	---	4,820	325000		34000	33000	34000
Manganese	mg/kg	---	636	630		480	300	300
Nickel	mg/kg	---	18	100		37	25	28
Potassium	mg/kg	---	1,268	---		3900	3900	4000
Sodium	mg/kg	---	130	---		900	330	380
Thallium	mg/kg	---	0.32	2.6		<0.29	<0.28	<0.29
Vanadium	mg/kg	---	25.2	550		24	22	23
Zinc	mg/kg	---	95	5100		49	45	48
pH			6.25	9		8.0	7.9	8.0

Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3487-1-B02 (0-6)	3487-1-B02 (6-11.3)	3487-1-B02 (6-11.3) DUP
		Chicago	MSAs		Sample Depth (feet)	(0-6)	(6-11.3)	(6-11.3)
					Date Collected	12/2/2020	12/2/2020	12/2/2020
Inorganic Analytical Parameters (SPLP)								
Antimony,SPLP	mg/L	---	---	---		--	--	--
Arsenic,SPLP	mg/L	---	---	---		--	--	--
Barium,SPLP	mg/L	---	---	---		--	--	--
Beryllium,SPLP	mg/L	---	---	---		--	--	--
Cadmium,SPLP	mg/L	---	---	---		0.0024	--	--
Calcium,SPLP	mg/L	---	---	---		--	--	--
Chromium,SPLP	mg/L	---	---	---		--	--	--
Cobalt,SPLP	mg/L	---	---	---		--	--	--
Copper,SPLP	mg/L	---	---	---		--	--	--
Iron,SPLP	mg/L	---	---	---		--	--	--
Lead,SPLP	mg/L	---	---	---		0.089	<0.0075	--
Magnesium,SPLP	mg/L	---	---	---		--	--	--
Manganese,SPLP	mg/L	---	---	---		0.9	<0.010	<0.010
Mercury,SPLP	mg/L	---	---	---		--	--	--
Nickel,SPLP	mg/L	---	---	---		--	--	--
Potassium,SPLP	mg/L	---	---	---		--	--	--
Selenium,SPLP	mg/L	---	---	---		--	--	--
Silver,SPLP	mg/L	---	---	---		--	--	--
Sodium,SPLP	mg/L	---	---	---		--	--	--
Thallium,SPLP	mg/L	---	---	---		--	--	--
Vanadium,SPLP	mg/L	---	---	---		--	--	--
Zinc,SPLP	mg/L	---	---	---		--	--	--
Cyanide,SPLP	mg/L	---	---	---		--	--	--
Inorganic Analytical Parameters (TCLP)								
Arsenic,TCLP	mg/L	---	---	---		<0.010	<0.010	<0.010
Barium,TCLP	mg/L	---	---	---		0.37	0.71	0.65
Cadmium,TCLP	mg/L	---	---	---		<0.0020	<0.0020	<0.0020
Chromium,TCLP	mg/L	---	---	---		<0.010	<0.010	<0.010
Lead,TCLP	mg/L	---	---	---		<0.0075	<0.0075	<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020	<0.00020	<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.020	<0.020	<0.020
Silver,TCLP	mg/L	---	---	---		<0.010	<0.010	<0.010
Antimony,TCLP	mg/L	---	---	---		<0.0060	<0.0060	<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040	<0.0040	<0.0040
Calcium,TCLP	mg/L	---	---	---		580	520	540
Cobalt,TCLP	mg/L	---	---	---		<0.010	<0.010	<0.010
Copper,TCLP	mg/L	---	---	---		<0.010	<0.010	<0.010
Cyanide,TCLP	mg/L	---	---	---		--	--	--
Iron,TCLP	mg/L	---	---	---		<0.20	<0.20	<0.20
Magnesium,TCLP	mg/L	---	---	---		33	53	51
Manganese,TCLP	mg/L	---	---	---		0.62	1.2	1.2
Nickel,TCLP	mg/L	---	---	---		0.01	<0.010	<0.010
Potassium,TCLP	mg/L	---	---	---		1.3	3.3	3.3
Sodium,TCLP	mg/L	---	---	---		--	--	--
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.010	<0.010	<0.010
Zinc,TCLP	mg/L	---	---	---		<0.020	<0.020	<0.020

Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3487-1-B03 (0-1.3)	3487-1-B04 (0-1.3)	3487-1-B05 (0-1.3)
		Chicago	MSAs		Sample Depth (feet)	(0-1.3)	(0-1.3)	(0-1.3)
					Date Collected	12/1/2020	12/2/2020	12/1/2020
Volatile Organic Analytical Parameters								
Acetone	mg/kg	---	---	25		0.011	0.017	<0.0081
2-Butanone	mg/kg	---	---	17		<0.0018	0.004	<0.0021
Semivolatile Organic Analytical Parameters								
Acenaphthene	mg/kg	0.09	0.13	570		<0.0071	<0.0071	0.014
Acenaphthylene	mg/kg	0.03	0.07	85		0.007	<0.0052	<0.0047
Anthracene	mg/kg	0.25	0.4	12000		0.012	<0.0066	0.0095
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.072	0.026	0.12
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.079	0.029	0.068
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.12	0.048	0.15
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.046	0.016	0.048
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.037	0.02	0.037
Chrysene	mg/kg	1.2	2.7	88		0.087	0.033	0.049
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		0.011	<0.0076	<0.0068
Fluoranthene	mg/kg	2.7	4.1	3100		0.14	0.054	0.15
Fluorene	mg/kg	0.1	0.18	560		<0.0055	<0.0055	0.0086
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.037	0.013	0.036
Naphthalene	mg/kg	0.04	0.2	1.8		<0.0060	<0.0061	0.014
Phenanthrene	mg/kg	1.3	2.5	210		0.057	0.022	0.067
Pyrene	mg/kg	1.9	3.0	2300		0.13	0.047	0.16
Inorganic Analytical Parameters								
Arsenic	mg/kg	---	13	11.3		4.5	5	5.5
Barium	mg/kg	---	110	1500		68	63	53
Cadmium	mg/kg	---	0.6	5.2		0.31	0.4	0.49
Chromium, total	mg/kg	---	16.2	21		20	15	16
Lead	mg/kg	---	36	107		37	58	90
Mercury	mg/kg	---	0.06	0.89		0.019	0.044	0.018
Selenium	mg/kg	---	0.48	1.3		0.47	<0.33	0.31
Silver	mg/kg	---	0.55	4.4		<0.072	<0.072	0.067
Antimony	mg/kg	---	4.0	5		0.7	0.67	0.83
Beryllium	mg/kg	---	0.59	22		0.92	0.62	0.72
Calcium	mg/kg	---	9,300	---		28000	27000	67000
Cobalt	mg/kg	---	8.9	20		13	9.7	11
Copper	mg/kg	---	19.6	2900		19	23	22
Cyanide	mg/kg	---	0.51	---		<0.14	0.25	<0.11
Iron	mg/kg	---	15,900	15000		18000	14000	17000
Magnesium	mg/kg	---	4,820	325000		17000	18000	24000
Manganese	mg/kg	---	636	630		600	430	520
Nickel	mg/kg	---	18	100		29	22	26
Potassium	mg/kg	---	1,268	---		2700	1800	2100
Sodium	mg/kg	---	130	---		1700	1000	1100
Thallium	mg/kg	---	0.32	2.6		0.3	0.34	<0.26
Vanadium	mg/kg	---	25.2	550		25	21	19
Zinc	mg/kg	---	95	5100		85	87	75
pH			6.25	9		8.8	7.4	8.5

Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3487-1-B03 (0-1.3)	3487-1-B04 (0-1.3)	3487-1-B05 (0-1.3)
		Chicago	MSAs		Sample Depth (feet)	(0-1.3)	(0-1.3)	(0-1.3)
					Date Collected	12/1/2020	12/2/2020	12/1/2020
Inorganic Analytical Parameters (SPLP)								
Antimony,SPLP	mg/L	---	---	---		--	--	--
Arsenic,SPLP	mg/L	---	---	---		--	--	--
Barium,SPLP	mg/L	---	---	---		--	--	--
Beryllium,SPLP	mg/L	---	---	---		--	--	--
Cadmium,SPLP	mg/L	---	---	---		--	<0.0020	--
Calcium,SPLP	mg/L	---	---	---		--	--	--
Chromium,SPLP	mg/L	---	---	---		--	--	--
Cobalt,SPLP	mg/L	---	---	---		--	--	--
Copper,SPLP	mg/L	---	---	---		--	--	--
Iron,SPLP	mg/L	---	---	---		--	--	--
Lead,SPLP	mg/L	---	---	---		0.47	0.11	0.25
Magnesium,SPLP	mg/L	---	---	---		--	--	--
Manganese,SPLP	mg/L	---	---	---		2.7	0.52	0.59
Mercury,SPLP	mg/L	---	---	---		--	--	--
Nickel,SPLP	mg/L	---	---	---		--	--	--
Potassium,SPLP	mg/L	---	---	---		--	--	--
Selenium,SPLP	mg/L	---	---	---		--	--	--
Silver,SPLP	mg/L	---	---	---		--	--	--
Sodium,SPLP	mg/L	---	---	---		--	--	--
Thallium,SPLP	mg/L	---	---	---		--	--	--
Vanadium,SPLP	mg/L	---	---	---		--	--	--
Zinc,SPLP	mg/L	---	---	---		--	--	--
Cyanide,SPLP	mg/L	---	---	---		--	--	--
Inorganic Analytical Parameters (TCLP)								
Arsenic,TCLP	mg/L	---	---	---		<0.010	<0.010	<0.010
Barium,TCLP	mg/L	---	---	---		0.45	0.52	0.4
Cadmium,TCLP	mg/L	---	---	---		0.0042	0.0028	<0.0020
Chromium,TCLP	mg/L	---	---	---		<0.010	<0.010	<0.010
Lead,TCLP	mg/L	---	---	---		0.022	0.014	0.021
Mercury,TCLP	mg/L	---	---	---		<0.00020	<0.00020	<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.020	<0.020	<0.020
Silver,TCLP	mg/L	---	---	---		<0.010	<0.010	<0.010
Antimony,TCLP	mg/L	---	---	---		<0.0060	<0.0060	<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040	<0.0040	<0.0040
Calcium,TCLP	mg/L	---	---	---		350	210	320
Cobalt,TCLP	mg/L	---	---	---		0.02	0.023	0.033
Copper,TCLP	mg/L	---	---	---		<0.010	<0.010	<0.010
Cyanide,TCLP	mg/L	---	---	---		--	--	--
Iron,TCLP	mg/L	---	---	---		<0.20	<0.20	0.25
Magnesium,TCLP	mg/L	---	---	---		34	68	44
Manganese,TCLP	mg/L	---	---	---		7.6	14	6.7
Nickel,TCLP	mg/L	---	---	---		0.016	0.021	0.037
Potassium,TCLP	mg/L	---	---	---		2.4	1.2	3
Sodium,TCLP	mg/L	---	---	---		--	--	--
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.010	<0.010	<0.010
Zinc,TCLP	mg/L	---	---	---		0.2	0.07	0.14

Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3487-1-B07 (0-1.3)	3487-1-B08 (0-1.3)
		Chicago	MSAs		Sample Depth (feet)	(0-1.3)	(0-1.3)
					Date Collected	12/1/2020	12/1/2020
Volatile Organic Analytical Parameters							
Acetone	mg/kg	---	---	25		<0.0076	<0.0087
2-Butanone	mg/kg	---	---	17		<0.0019	<0.0022
Semivolatile Organic Analytical Parameters							
Acenaphthene	mg/kg	0.09	0.13	570		<0.0072	<0.0072
Acenaphthylene	mg/kg	0.03	0.07	85		0.0063	<0.0053
Anthracene	mg/kg	0.25	0.4	12000		0.013	<0.0067
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.077	<0.0054
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.096	<0.0077
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.14	<0.0086
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.042	<0.013
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.041	<0.012
Chrysene	mg/kg	1.2	2.7	88		0.095	<0.011
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		0.01	<0.0077
Fluoranthene	mg/kg	2.7	4.1	3100		0.16	<0.0074
Fluorene	mg/kg	0.1	0.18	560		<0.0057	<0.0056
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.034	<0.010
Naphthalene	mg/kg	0.04	0.2	1.8		<0.0062	<0.0061
Phenanthrene	mg/kg	1.3	2.5	210		0.058	<0.0056
Pyrene	mg/kg	1.9	3.0	2300		0.14	<0.0079
Inorganic Analytical Parameters							
Arsenic	mg/kg	---	13	11.3		6.9	6.9
Barium	mg/kg	---	110	1500		52	49
Cadmium	mg/kg	---	0.6	5.2		0.5	0.45
Chromium, total	mg/kg	---	16.2	21		18	17
Lead	mg/kg	---	36	107		75	67
Mercury	mg/kg	---	0.06	0.89		0.03	0.02
Selenium	mg/kg	---	0.48	1.3		0.53	<0.33
Silver	mg/kg	---	0.55	4.4		<0.076	<0.073
Antimony	mg/kg	---	4.0	5		0.75	0.95
Beryllium	mg/kg	---	0.59	22		0.75	0.78
Calcium	mg/kg	---	9,300	---		16000	71000
Cobalt	mg/kg	---	8.9	20		13	12
Copper	mg/kg	---	19.6	2900		28	26
Cyanide	mg/kg	---	0.51	---		0.17	<0.14
Iron	mg/kg	---	15,900	15000		20000	19000
Magnesium	mg/kg	---	4,820	325000		11000	28000
Manganese	mg/kg	---	636	630		470	500
Nickel	mg/kg	---	18	100		24	29
Potassium	mg/kg	---	1,268	---		1800	2000
Sodium	mg/kg	---	130	---		1000	1100
Thallium	mg/kg	---	0.32	2.6		<0.29	<0.28
Vanadium	mg/kg	---	25.2	550		24	22
Zinc	mg/kg	---	95	5100		94	96
pH			6.25	9		8.8	8.7

Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	3487-1-B07 (0-1.3)	3487-1-B08 (0-1.3)
		Chicago	MSAs		Sample Depth (feet)	(0-1.3)	(0-1.3)
					Date Collected	12/1/2020	12/1/2020
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	---	---	---		0.48	0.63
Magnesium,SPLP	mg/L	---	---	---		--	--
Manganese,SPLP	mg/L	---	---	---		1.1	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	---	---	---		0.32	0.4
Cadmium,TCLP	mg/L	---	---	---		0.0048	0.0032
Chromium,TCLP	mg/L	---	---	---		<0.010	<0.010
Lead,TCLP	mg/L	---	---	---		0.0081	0.015
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	300
Cobalt,TCLP	mg/L	---	---	---		<0.010	0.026
Copper,TCLP	mg/L	---	---	---		<0.010	<0.010
Cyanide,TCLP	mg/L	---	---	---		--	--
Iron,TCLP	mg/L	---	---	---		<0.20	<0.20
Magnesium,TCLP	mg/L	---	---	---		100	70
Manganese,TCLP	mg/L	---	---	---		3.9	7.4
Nickel,TCLP	mg/L	---	---	---		0.012	0.022
Potassium,TCLP	mg/L	---	---	---		2.2	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	---	---	---		0.089	0.037

ANALYTICAL REPORT

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

Laboratory Job ID: 500-191784-1
Client Project/Site: IDOT - Lake County - WO 073

For:

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

Attn: Mr. Matthew Weiss



Authorized for release by:
12/11/2020 4:39:38 PM

Richard Wright, Senior Project Manager
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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 - Lake County - WO 073

Job ID: 500-191784-1

Job ID: 500-191784-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-191784-1

Receipt

The samples were received on 12/1/2020 5:01 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were -0.1° C and 0.9° C.

GC/MS VOA

No analytical or quality issues were noted, other than those described 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.

GC VOA

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

Metals

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

General Chemistry

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

Organic Prep

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



Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191784-1

Client Sample ID: 3487-1-B01 (0-6)

Lab Sample ID: 500-191784-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.016		0.016	0.0070	mg/Kg	1	✳	8260B	Total/NA
Anthracene	0.013	J	0.040	0.0068	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.077		0.040	0.0055	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.099		0.040	0.0079	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.14		0.040	0.0088	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.065		0.040	0.013	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.044		0.040	0.012	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.091		0.040	0.011	mg/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	0.015	J	0.040	0.0079	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.17		0.040	0.0075	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.051		0.040	0.011	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.063		0.040	0.0057	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.14		0.040	0.0081	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.60	J B	1.2	0.23	mg/Kg	1	✳	6010B	Total/NA
Arsenic	6.3		0.59	0.20	mg/Kg	1	✳	6010B	Total/NA
Barium	88		0.59	0.067	mg/Kg	1	✳	6010B	Total/NA
Beryllium	1.2		0.23	0.055	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.22	B	0.12	0.021	mg/Kg	1	✳	6010B	Total/NA
Chromium	27		0.59	0.29	mg/Kg	1	✳	6010B	Total/NA
Cobalt	17		0.29	0.077	mg/Kg	1	✳	6010B	Total/NA
Copper	21		0.59	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	23000		12	6.1	mg/Kg	1	✳	6010B	Total/NA
Lead	22		0.29	0.14	mg/Kg	1	✳	6010B	Total/NA
Magnesium	7300		5.9	2.9	mg/Kg	1	✳	6010B	Total/NA
Calcium	6900		12	2.0	mg/Kg	1	✳	6010B	Total/NA
Manganese	370	B	0.59	0.085	mg/Kg	1	✳	6010B	Total/NA
Nickel	37		0.59	0.17	mg/Kg	1	✳	6010B	Total/NA
Selenium	0.54	J	0.59	0.35	mg/Kg	1	✳	6010B	Total/NA
Silver	0.080	J	0.29	0.076	mg/Kg	1	✳	6010B	Total/NA
Vanadium	33		0.29	0.069	mg/Kg	1	✳	6010B	Total/NA
Zinc	76		1.2	0.52	mg/Kg	1	✳	6010B	Total/NA
Potassium	3500		29	10	mg/Kg	1	✳	6010B	Total/NA
Sodium	1400		59	8.7	mg/Kg	1	✳	6010B	Total/NA
Barium	0.51		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	250		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.0092		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	69		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	14		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.6	J	2.5	0.50	mg/L	1		6010B	TCLP
Lead	0.15		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	2.2		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.028		0.020	0.0066	mg/Kg	1	✳	7471B	Total/NA
Cyanide, Total	0.25	J	0.30	0.15	mg/Kg	1	✳	9012B	Total/NA
pH	7.8		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3487-1-B01 (6-11.4)

Lab Sample ID: 500-191784-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.62	J B	1.1	0.22	mg/Kg	1	✳	6010B	Total/NA
Arsenic	5.0		0.56	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 - Lake County - WO 073

Job ID: 500-191784-1

Client Sample ID: 3487-1-B01 (6-11.4) (Continued)

Lab Sample ID: 500-191784-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	36		0.56	0.064	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.80		0.22	0.052	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.20	B	0.11	0.020	mg/Kg	1	✳	6010B	Total/NA
Chromium	18		0.56	0.28	mg/Kg	1	✳	6010B	Total/NA
Cobalt	13		0.28	0.073	mg/Kg	1	✳	6010B	Total/NA
Copper	18		0.56	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	23000		110	58	mg/Kg	10	✳	6010B	Total/NA
Lead	10		0.28	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	44000		56	28	mg/Kg	10	✳	6010B	Total/NA
Calcium	86000		110	19	mg/Kg	10	✳	6010B	Total/NA
Manganese	410	B	0.56	0.081	mg/Kg	1	✳	6010B	Total/NA
Nickel	31		0.56	0.16	mg/Kg	1	✳	6010B	Total/NA
Selenium	0.36	J	0.56	0.33	mg/Kg	1	✳	6010B	Total/NA
Silver	0.12	J	0.28	0.072	mg/Kg	1	✳	6010B	Total/NA
Vanadium	20		0.28	0.066	mg/Kg	1	✳	6010B	Total/NA
Zinc	51		1.1	0.49	mg/Kg	1	✳	6010B	Total/NA
Potassium	3200		28	9.9	mg/Kg	1	✳	6010B	Total/NA
Sodium	390		56	8.3	mg/Kg	1	✳	6010B	Total/NA
Barium	0.33	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	600		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	48		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.99		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.7		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.43		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.014	J	0.019	0.0062	mg/Kg	1	✳	7471B	Total/NA
pH	7.4		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3487-1-B03 (0-1.3)

Lab Sample ID: 500-191784-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.011	J	0.016	0.0069	mg/Kg	1	✳	8260B	Total/NA
Acenaphthylene	0.0070	J	0.039	0.0052	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.012	J	0.039	0.0066	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.072		0.039	0.0053	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.079		0.039	0.0076	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.12		0.039	0.0085	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.046		0.039	0.013	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.037	J	0.039	0.012	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.087		0.039	0.011	mg/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	0.011	J	0.039	0.0076	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.14		0.039	0.0073	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.037	J	0.039	0.010	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.057		0.039	0.0055	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.13		0.039	0.0078	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.70	J B	1.1	0.22	mg/Kg	1	✳	6010B	Total/NA
Arsenic	4.5		0.56	0.19	mg/Kg	1	✳	6010B	Total/NA
Barium	68		0.56	0.064	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.92		0.22	0.052	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.31	B	0.11	0.020	mg/Kg	1	✳	6010B	Total/NA
Chromium	20		0.56	0.28	mg/Kg	1	✳	6010B	Total/NA
Cobalt	13		0.28	0.073	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 - Lake County - WO 073

Job ID: 500-191784-1

Client Sample ID: 3487-1-B03 (0-1.3) (Continued)

Lab Sample ID: 500-191784-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	19		0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	18000		11	5.8	mg/Kg	1	☼	6010B	Total/NA
Lead	37		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	17000		5.6	2.8	mg/Kg	1	☼	6010B	Total/NA
Calcium	28000		11	1.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	600	B	0.56	0.081	mg/Kg	1	☼	6010B	Total/NA
Nickel	29		0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.47	J	0.56	0.33	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.30	J	0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	25		0.28	0.066	mg/Kg	1	☼	6010B	Total/NA
Zinc	85		1.1	0.49	mg/Kg	1	☼	6010B	Total/NA
Potassium	2700		28	9.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	1700		56	8.3	mg/Kg	1	☼	6010B	Total/NA
Barium	0.45	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0042	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	350		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.020	J	0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.022		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	34		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	7.6		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.016	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.4	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.20	J B	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.47		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	2.7		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.019		0.019	0.0064	mg/Kg	1	☼	7471B	Total/NA
pH	8.8		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3487-1-B05 (0-1.3)

Lab Sample ID: 500-191784-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.014	J	0.035	0.0064	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.0095	J	0.035	0.0059	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.12		0.035	0.0048	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.068		0.035	0.0069	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.15		0.035	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.048		0.035	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.037		0.035	0.010	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.049		0.035	0.0097	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.15		0.035	0.0066	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0086	J	0.035	0.0050	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.036		0.035	0.0092	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.022	J	0.071	0.0065	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.014	J	0.035	0.0054	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.067		0.035	0.0049	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.16		0.035	0.0070	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.83	J B	1.0	0.20	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.5		0.51	0.18	mg/Kg	1	☼	6010B	Total/NA
Barium	53		0.51	0.059	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.72		0.21	0.048	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.49	B	0.10	0.019	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191784-1

Client Sample ID: 3487-1-B05 (0-1.3) (Continued)

Lab Sample ID: 500-191784-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	16		0.51	0.25	mg/Kg	1	✳	6010B	Total/NA
Cobalt	11		0.26	0.067	mg/Kg	1	✳	6010B	Total/NA
Copper	22		0.51	0.14	mg/Kg	1	✳	6010B	Total/NA
Iron	17000		10	5.3	mg/Kg	1	✳	6010B	Total/NA
Lead	90		0.26	0.12	mg/Kg	1	✳	6010B	Total/NA
Magnesium	24000		5.1	2.5	mg/Kg	1	✳	6010B	Total/NA
Calcium	67000		100	17	mg/Kg	10	✳	6010B	Total/NA
Manganese	520	B	0.51	0.075	mg/Kg	1	✳	6010B	Total/NA
Nickel	26		0.51	0.15	mg/Kg	1	✳	6010B	Total/NA
Selenium	0.31	J	0.51	0.30	mg/Kg	1	✳	6010B	Total/NA
Silver	0.067	J	0.26	0.066	mg/Kg	1	✳	6010B	Total/NA
Vanadium	19		0.26	0.061	mg/Kg	1	✳	6010B	Total/NA
Zinc	75		1.0	0.45	mg/Kg	1	✳	6010B	Total/NA
Potassium	2100		26	9.1	mg/Kg	1	✳	6010B	Total/NA
Sodium	1100		51	7.6	mg/Kg	1	✳	6010B	Total/NA
Barium	0.40	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	320		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.033		0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.25	J	0.40	0.20	mg/L	1		6010B	TCLP
Lead	0.021		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	44		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	6.7		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.037		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.0		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.14	J B	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.25		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.59		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.018		0.017	0.0057	mg/Kg	1	✳	7471B	Total/NA
pH	8.5		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3487-1-B07 (0-1.3)

Lab Sample ID: 500-191784-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.0063	J	0.040	0.0053	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.013	J	0.040	0.0067	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.077		0.040	0.0054	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.096		0.040	0.0078	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.14		0.040	0.0087	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.042		0.040	0.013	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.041		0.040	0.012	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.095		0.040	0.011	mg/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	0.010	J	0.040	0.0078	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.16		0.040	0.0075	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.034	J	0.040	0.010	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.058		0.040	0.0056	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.14		0.040	0.0080	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.75	J B	1.2	0.23	mg/Kg	1	✳	6010B	Total/NA
Arsenic	6.9		0.59	0.20	mg/Kg	1	✳	6010B	Total/NA
Barium	52		0.59	0.067	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.75		0.24	0.055	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.50	B	0.12	0.021	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 - Lake County - WO 073

Job ID: 500-191784-1

Client Sample ID: 3487-1-B07 (0-1.3) (Continued)

Lab Sample ID: 500-191784-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	18		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.29	0.077	mg/Kg	1	☼	6010B	Total/NA
Copper	28		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	20000		12	6.1	mg/Kg	1	☼	6010B	Total/NA
Lead	75		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	11000		5.9	2.9	mg/Kg	1	☼	6010B	Total/NA
Calcium	16000		12	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	470	B	0.59	0.085	mg/Kg	1	☼	6010B	Total/NA
Nickel	24		0.59	0.17	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.53	J	0.59	0.35	mg/Kg	1	☼	6010B	Total/NA
Vanadium	24		0.29	0.069	mg/Kg	1	☼	6010B	Total/NA
Zinc	94		1.2	0.52	mg/Kg	1	☼	6010B	Total/NA
Potassium	1800		29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	1000		59	8.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.32	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0048	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	250		5.0	0.50	mg/L	1		6010B	TCLP
Lead	0.0081		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	100		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	3.9		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.2	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.089	J B	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.48		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	1.1		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.030		0.018	0.0061	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.17	J	0.29	0.15	mg/Kg	1	☼	9012B	Total/NA
pH	8.8		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3487-1-B08 (0-1.3)

Lab Sample ID: 500-191784-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.95	J B	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.9		0.56	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	49		0.56	0.064	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.78		0.22	0.053	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.45	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.28	0.074	mg/Kg	1	☼	6010B	Total/NA
Copper	26		0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	19000		11	5.8	mg/Kg	1	☼	6010B	Total/NA
Lead	67		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	28000		5.6	2.8	mg/Kg	1	☼	6010B	Total/NA
Calcium	71000		110	19	mg/Kg	10	☼	6010B	Total/NA
Manganese	500	B	0.56	0.082	mg/Kg	1	☼	6010B	Total/NA
Nickel	29		0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.28	0.066	mg/Kg	1	☼	6010B	Total/NA
Zinc	96		1.1	0.49	mg/Kg	1	☼	6010B	Total/NA
Potassium	2000		28	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	1100		56	8.3	mg/Kg	1	☼	6010B	Total/NA
Barium	0.40	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 - Lake County - WO 073

Job ID: 500-191784-1

Client Sample ID: 3487-1-B08 (0-1.3) (Continued)

Lab Sample ID: 500-191784-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.0032	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	300		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.026		0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.015		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	70		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	7.4		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.022	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.3	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.037	J B	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.63		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	1.5	F1	0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.020		0.019	0.0063	mg/Kg	1	✱	7471B	Total/NA
pH	8.7		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago



Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191784-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6010B	SPLP Metals	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9012B	Cyanide, Total and/or Amenable	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
1311	TCLP Extraction	SW846	TAL CHI
1312	SPLP Extraction	SW846	TAL CHI
3010A	Preparation, Total Metals	SW846	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL CHI
7471B	Preparation, Mercury	SW846	TAL CHI
9010C	Cyanide, Distillation	SW846	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191784-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-191784-1	3487-1-B01 (0-6)	Solid	12/01/20 10:00	12/01/20 17:01	
500-191784-2	3487-1-B01 (6-11.4)	Solid	12/01/20 10:05	12/01/20 17:01	
500-191784-3	3487-1-B03 (0-1.3)	Solid	12/01/20 09:25	12/01/20 17:01	
500-191784-4	3487-1-B05 (0-1.3)	Solid	12/01/20 09:00	12/01/20 17:01	
500-191784-5	3487-1-B07 (0-1.3)	Solid	12/01/20 08:35	12/01/20 17:01	
500-191784-6	3487-1-B08 (0-1.3)	Solid	12/01/20 08:15	12/01/20 17:01	

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191784-1

Client Sample ID: 3487-1-B01 (0-6)

Lab Sample ID: 500-191784-1

Date Collected: 12/01/20 10:00

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 80.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.016		0.016	0.0070	mg/Kg	☼	12/01/20 17:52	12/07/20 16:33	1
Benzene	<0.00041		0.0016	0.00041	mg/Kg	☼	12/01/20 17:52	12/07/20 16:33	1
Bromodichloromethane	<0.00033		0.0016	0.00033	mg/Kg	☼	12/01/20 17:52	12/07/20 16:33	1
Bromoform	<0.00047		0.0016	0.00047	mg/Kg	☼	12/01/20 17:52	12/07/20 16:33	1
Bromomethane	<0.0015		0.0040	0.0015	mg/Kg	☼	12/01/20 17:52	12/07/20 16:33	1
2-Butanone (MEK)	<0.0018		0.0040	0.0018	mg/Kg	☼	12/01/20 17:52	12/07/20 16:33	1
Carbon disulfide	<0.00083		0.0040	0.00083	mg/Kg	☼	12/01/20 17:52	12/07/20 16:33	1
Carbon tetrachloride	<0.00047		0.0016	0.00047	mg/Kg	☼	12/01/20 17:52	12/07/20 16:33	1
Chlorobenzene	<0.00059		0.0016	0.00059	mg/Kg	☼	12/01/20 17:52	12/07/20 16:33	1
Chloroethane	<0.0012		0.0040	0.0012	mg/Kg	☼	12/01/20 17:52	12/07/20 16:33	1
Chloroform	<0.00056		0.0016	0.00056	mg/Kg	☼	12/01/20 17:52	12/07/20 16:33	1
Chloromethane	<0.0016		0.0040	0.0016	mg/Kg	☼	12/01/20 17:52	12/07/20 16:33	1
cis-1,2-Dichloroethene	<0.00045		0.0016	0.00045	mg/Kg	☼	12/01/20 17:52	12/07/20 16:33	1
cis-1,3-Dichloropropene	<0.00048		0.0016	0.00048	mg/Kg	☼	12/01/20 17:52	12/07/20 16:33	1
Dibromochloromethane	<0.00052		0.0016	0.00052	mg/Kg	☼	12/01/20 17:52	12/07/20 16:33	1
1,1-Dichloroethane	<0.00055		0.0016	0.00055	mg/Kg	☼	12/01/20 17:52	12/07/20 16:33	1
1,2-Dichloroethane	<0.0013		0.0040	0.0013	mg/Kg	☼	12/01/20 17:52	12/07/20 16:33	1
1,1-Dichloroethene	<0.00055		0.0016	0.00055	mg/Kg	☼	12/01/20 17:52	12/07/20 16:33	1
1,2-Dichloropropene	<0.00041		0.0016	0.00041	mg/Kg	☼	12/01/20 17:52	12/07/20 16:33	1
1,3-Dichloropropene, Total	<0.00056		0.0016	0.00056	mg/Kg	☼	12/01/20 17:52	12/07/20 16:33	1
Ethylbenzene	<0.00077		0.0016	0.00077	mg/Kg	☼	12/01/20 17:52	12/07/20 16:33	1
2-Hexanone	<0.0013		0.0040	0.0013	mg/Kg	☼	12/01/20 17:52	12/07/20 16:33	1
Methylene Chloride	<0.0016		0.0040	0.0016	mg/Kg	☼	12/01/20 17:52	12/07/20 16:33	1
4-Methyl-2-pentanone (MIBK)	<0.0012		0.0040	0.0012	mg/Kg	☼	12/01/20 17:52	12/07/20 16:33	1
Methyl tert-butyl ether	<0.00047		0.0016	0.00047	mg/Kg	☼	12/01/20 17:52	12/07/20 16:33	1
Styrene	<0.00048		0.0016	0.00048	mg/Kg	☼	12/01/20 17:52	12/07/20 16:33	1
1,1,2,2-Tetrachloroethane	<0.00051		0.0016	0.00051	mg/Kg	☼	12/01/20 17:52	12/07/20 16:33	1
Tetrachloroethene	<0.00055		0.0016	0.00055	mg/Kg	☼	12/01/20 17:52	12/07/20 16:33	1
Toluene	<0.00041		0.0016	0.00041	mg/Kg	☼	12/01/20 17:52	12/07/20 16:33	1
trans-1,2-Dichloroethene	<0.00071		0.0016	0.00071	mg/Kg	☼	12/01/20 17:52	12/07/20 16:33	1
trans-1,3-Dichloropropene	<0.00056		0.0016	0.00056	mg/Kg	☼	12/01/20 17:52	12/07/20 16:33	1
1,1,1-Trichloroethane	<0.00054		0.0016	0.00054	mg/Kg	☼	12/01/20 17:52	12/07/20 16:33	1
1,1,2-Trichloroethane	<0.00069		0.0016	0.00069	mg/Kg	☼	12/01/20 17:52	12/07/20 16:33	1
Trichloroethene	<0.00054		0.0016	0.00054	mg/Kg	☼	12/01/20 17:52	12/07/20 16:33	1
Vinyl acetate	<0.0014		0.0040	0.0014	mg/Kg	☼	12/01/20 17:52	12/07/20 16:33	1
Vinyl chloride	<0.00071		0.0016	0.00071	mg/Kg	☼	12/01/20 17:52	12/07/20 16:33	1
Xylenes, Total	<0.00051		0.0032	0.00051	mg/Kg	☼	12/01/20 17:52	12/07/20 16:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		75 - 131	12/01/20 17:52	12/07/20 16:33	1
Dibromofluoromethane	101		75 - 126	12/01/20 17:52	12/07/20 16:33	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 134	12/01/20 17:52	12/07/20 16:33	1
Toluene-d8 (Surr)	89		75 - 124	12/01/20 17:52	12/07/20 16:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0073		0.040	0.0073	mg/Kg	☼	12/03/20 08:38	12/03/20 22:32	1
Acenaphthylene	<0.0054		0.040	0.0054	mg/Kg	☼	12/03/20 08:38	12/03/20 22:32	1
Anthracene	0.013	J	0.040	0.0068	mg/Kg	☼	12/03/20 08:38	12/03/20 22:32	1
Benzo[a]anthracene	0.077		0.040	0.0055	mg/Kg	☼	12/03/20 08:38	12/03/20 22:32	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191784-1

Client Sample ID: 3487-1-B01 (0-6)

Lab Sample ID: 500-191784-1

Date Collected: 12/01/20 10:00

Matrix: Solid

Date Received: 12/01/20 17:01

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	0.099		0.040	0.0079	mg/Kg	☼	12/03/20 08:38	12/03/20 22:32	1
Benzo[b]fluoranthene	0.14		0.040	0.0088	mg/Kg	☼	12/03/20 08:38	12/03/20 22:32	1
Benzo[g,h,i]perylene	0.065		0.040	0.013	mg/Kg	☼	12/03/20 08:38	12/03/20 22:32	1
Benzo[k]fluoranthene	0.044		0.040	0.012	mg/Kg	☼	12/03/20 08:38	12/03/20 22:32	1
Bis(2-chloroethoxy)methane	<0.041		0.20	0.041	mg/Kg	☼	12/03/20 08:38	12/03/20 22:32	1
Bis(2-chloroethyl)ether	<0.061		0.20	0.061	mg/Kg	☼	12/03/20 08:38	12/03/20 22:32	1
Bis(2-ethylhexyl) phthalate	<0.074		0.20	0.074	mg/Kg	☼	12/03/20 08:38	12/03/20 22:32	1
4-Bromophenyl phenyl ether	<0.054		0.20	0.054	mg/Kg	☼	12/03/20 08:38	12/03/20 22:32	1
Butyl benzyl phthalate	<0.077		0.20	0.077	mg/Kg	☼	12/03/20 08:38	12/03/20 22:32	1
Carbazole	<0.10		0.20	0.10	mg/Kg	☼	12/03/20 08:38	12/03/20 22:32	1
4-Chloroaniline	<0.19		0.82	0.19	mg/Kg	☼	12/03/20 08:38	12/03/20 22:32	1
4-Chloro-3-methylphenol	<0.14		0.40	0.14	mg/Kg	☼	12/03/20 08:38	12/03/20 22:32	1
2-Chloronaphthalene	<0.045		0.20	0.045	mg/Kg	☼	12/03/20 08:38	12/03/20 22:32	1
2-Chlorophenol	<0.069		0.20	0.069	mg/Kg	☼	12/03/20 08:38	12/03/20 22:32	1
4-Chlorophenyl phenyl ether	<0.047		0.20	0.047	mg/Kg	☼	12/03/20 08:38	12/03/20 22:32	1
Chrysene	0.091		0.040	0.011	mg/Kg	☼	12/03/20 08:38	12/03/20 22:32	1
Dibenz(a,h)anthracene	0.015 J		0.040	0.0079	mg/Kg	☼	12/03/20 08:38	12/03/20 22:32	1
Dibenzofuran	<0.048		0.20	0.048	mg/Kg	☼	12/03/20 08:38	12/03/20 22:32	1
1,2-Dichlorobenzene	<0.049		0.20	0.049	mg/Kg	☼	12/03/20 08:38	12/03/20 22:32	1
1,3-Dichlorobenzene	<0.046		0.20	0.046	mg/Kg	☼	12/03/20 08:38	12/03/20 22:32	1
1,4-Dichlorobenzene	<0.052		0.20	0.052	mg/Kg	☼	12/03/20 08:38	12/03/20 22:32	1
3,3'-Dichlorobenzidine	<0.057		0.20	0.057	mg/Kg	☼	12/03/20 08:38	12/03/20 22:32	1
2,4-Dichlorophenol	<0.097		0.40	0.097	mg/Kg	☼	12/03/20 08:38	12/03/20 22:32	1
Diethyl phthalate	<0.069		0.20	0.069	mg/Kg	☼	12/03/20 08:38	12/03/20 22:32	1
2,4-Dimethylphenol	<0.15		0.40	0.15	mg/Kg	☼	12/03/20 08:38	12/03/20 22:32	1
Dimethyl phthalate	<0.053		0.20	0.053	mg/Kg	☼	12/03/20 08:38	12/03/20 22:32	1
Di-n-butyl phthalate	<0.062		0.20	0.062	mg/Kg	☼	12/03/20 08:38	12/03/20 22:32	1
4,6-Dinitro-2-methylphenol	<0.33		0.82	0.33	mg/Kg	☼	12/03/20 08:38	12/03/20 22:32	1
2,4-Dinitrophenol	<0.72		0.82	0.72	mg/Kg	☼	12/03/20 08:38	12/03/20 22:32	1
2,4-Dinitrotoluene	<0.065		0.20	0.065	mg/Kg	☼	12/03/20 08:38	12/03/20 22:32	1
2,6-Dinitrotoluene	<0.080		0.20	0.080	mg/Kg	☼	12/03/20 08:38	12/03/20 22:32	1
Di-n-octyl phthalate	<0.066		0.20	0.066	mg/Kg	☼	12/03/20 08:38	12/03/20 22:32	1
Fluoranthene	0.17		0.040	0.0075	mg/Kg	☼	12/03/20 08:38	12/03/20 22:32	1
Fluorene	<0.0057		0.040	0.0057	mg/Kg	☼	12/03/20 08:38	12/03/20 22:32	1
Hexachlorobenzene	<0.0094		0.082	0.0094	mg/Kg	☼	12/03/20 08:38	12/03/20 22:32	1
Hexachlorobutadiene	<0.064		0.20	0.064	mg/Kg	☼	12/03/20 08:38	12/03/20 22:32	1
Hexachlorocyclopentadiene	<0.23		0.82	0.23	mg/Kg	☼	12/03/20 08:38	12/03/20 22:32	1
Hexachloroethane	<0.062		0.20	0.062	mg/Kg	☼	12/03/20 08:38	12/03/20 22:32	1
Indeno[1,2,3-cd]pyrene	0.051		0.040	0.011	mg/Kg	☼	12/03/20 08:38	12/03/20 22:32	1
Isophorone	<0.046		0.20	0.046	mg/Kg	☼	12/03/20 08:38	12/03/20 22:32	1
2-Methylnaphthalene	<0.0075		0.082	0.0075	mg/Kg	☼	12/03/20 08:38	12/03/20 22:32	1
2-Methylphenol	<0.065		0.20	0.065	mg/Kg	☼	12/03/20 08:38	12/03/20 22:32	1
3 & 4 Methylphenol	<0.068		0.20	0.068	mg/Kg	☼	12/03/20 08:38	12/03/20 22:32	1
Naphthalene	<0.0063		0.040	0.0063	mg/Kg	☼	12/03/20 08:38	12/03/20 22:32	1
2-Nitroaniline	<0.055		0.20	0.055	mg/Kg	☼	12/03/20 08:38	12/03/20 22:32	1
3-Nitroaniline	<0.13		0.40	0.13	mg/Kg	☼	12/03/20 08:38	12/03/20 22:32	1
4-Nitroaniline	<0.17		0.40	0.17	mg/Kg	☼	12/03/20 08:38	12/03/20 22:32	1
Nitrobenzene	<0.010		0.040	0.010	mg/Kg	☼	12/03/20 08:38	12/03/20 22:32	1
2-Nitrophenol	<0.096		0.40	0.096	mg/Kg	☼	12/03/20 08:38	12/03/20 22:32	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191784-1

Client Sample ID: 3487-1-B01 (0-6)

Lab Sample ID: 500-191784-1

Date Collected: 12/01/20 10:00

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 80.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.39		0.82	0.39	mg/Kg	☼	12/03/20 08:38	12/03/20 22:32	1
N-Nitrosodi-n-propylamine	<0.050		0.082	0.050	mg/Kg	☼	12/03/20 08:38	12/03/20 22:32	1
N-Nitrosodiphenylamine	<0.048		0.20	0.048	mg/Kg	☼	12/03/20 08:38	12/03/20 22:32	1
2,2'-oxybis[1-chloropropane]	<0.047		0.20	0.047	mg/Kg	☼	12/03/20 08:38	12/03/20 22:32	1
Pentachlorophenol	<0.65		0.82	0.65	mg/Kg	☼	12/03/20 08:38	12/03/20 22:32	1
Phenanthrene	0.063		0.040	0.0057	mg/Kg	☼	12/03/20 08:38	12/03/20 22:32	1
Phenol	<0.090		0.20	0.090	mg/Kg	☼	12/03/20 08:38	12/03/20 22:32	1
Pyrene	0.14		0.040	0.0081	mg/Kg	☼	12/03/20 08:38	12/03/20 22:32	1
1,2,4-Trichlorobenzene	<0.044		0.20	0.044	mg/Kg	☼	12/03/20 08:38	12/03/20 22:32	1
2,4,5-Trichlorophenol	<0.093		0.40	0.093	mg/Kg	☼	12/03/20 08:38	12/03/20 22:32	1
2,4,6-Trichlorophenol	<0.14		0.40	0.14	mg/Kg	☼	12/03/20 08:38	12/03/20 22:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	75		43 - 145				12/03/20 08:38	12/03/20 22:32	1
2-Fluorophenol	93		31 - 166				12/03/20 08:38	12/03/20 22:32	1
Nitrobenzene-d5	77		37 - 147				12/03/20 08:38	12/03/20 22:32	1
Phenol-d5	91		30 - 153				12/03/20 08:38	12/03/20 22:32	1
Terphenyl-d14	94		42 - 157				12/03/20 08:38	12/03/20 22:32	1
2,4,6-Tribromophenol	70		31 - 143				12/03/20 08:38	12/03/20 22:32	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.60	J B	1.2	0.23	mg/Kg	☼	12/04/20 06:53	12/04/20 17:29	1
Arsenic	6.3		0.59	0.20	mg/Kg	☼	12/04/20 06:53	12/04/20 17:29	1
Barium	88		0.59	0.067	mg/Kg	☼	12/04/20 06:53	12/04/20 17:29	1
Beryllium	1.2		0.23	0.055	mg/Kg	☼	12/04/20 06:53	12/04/20 17:29	1
Cadmium	0.22	B	0.12	0.021	mg/Kg	☼	12/04/20 06:53	12/04/20 17:29	1
Chromium	27		0.59	0.29	mg/Kg	☼	12/04/20 06:53	12/04/20 17:29	1
Cobalt	17		0.29	0.077	mg/Kg	☼	12/04/20 06:53	12/04/20 17:29	1
Copper	21		0.59	0.16	mg/Kg	☼	12/04/20 06:53	12/04/20 17:29	1
Iron	23000		12	6.1	mg/Kg	☼	12/04/20 06:53	12/04/20 17:29	1
Lead	22		0.29	0.14	mg/Kg	☼	12/04/20 06:53	12/04/20 17:29	1
Magnesium	7300		5.9	2.9	mg/Kg	☼	12/04/20 06:53	12/04/20 17:29	1
Calcium	6900		12	2.0	mg/Kg	☼	12/04/20 06:53	12/04/20 17:29	1
Manganese	370	B	0.59	0.085	mg/Kg	☼	12/04/20 06:53	12/04/20 17:29	1
Nickel	37		0.59	0.17	mg/Kg	☼	12/04/20 06:53	12/04/20 17:29	1
Selenium	0.54	J	0.59	0.35	mg/Kg	☼	12/04/20 06:53	12/04/20 17:29	1
Silver	0.080	J	0.29	0.076	mg/Kg	☼	12/04/20 06:53	12/04/20 17:29	1
Thallium	<0.29		0.59	0.29	mg/Kg	☼	12/04/20 06:53	12/04/20 17:29	1
Vanadium	33		0.29	0.069	mg/Kg	☼	12/04/20 06:53	12/04/20 17:29	1
Zinc	76		1.2	0.52	mg/Kg	☼	12/04/20 06:53	12/04/20 17:29	1
Potassium	3500		29	10	mg/Kg	☼	12/04/20 06:53	12/04/20 17:29	1
Sodium	1400		59	8.7	mg/Kg	☼	12/04/20 06:53	12/04/20 17:29	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		12/04/20 16:44	12/07/20 12:21	1
Barium	0.51		0.50	0.050	mg/L		12/04/20 16:44	12/07/20 12:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/04/20 16:44	12/07/20 12:21	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		12/04/20 16:44	12/07/20 12:21	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191784-1

Client Sample ID: 3487-1-B01 (0-6)

Lab Sample ID: 500-191784-1

Date Collected: 12/01/20 10:00

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 80.0

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		12/04/20 16:44	12/07/20 12:21	1
Chromium	<0.010		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:21	1
Cobalt	0.015	J	0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:21	1
Copper	<0.010		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:21	1
Iron	<0.20		0.40	0.20	mg/L		12/04/20 16:44	12/07/20 12:21	1
Lead	0.0092		0.0075	0.0075	mg/L		12/04/20 16:44	12/07/20 12:21	1
Magnesium	69		2.5	0.50	mg/L		12/04/20 16:44	12/07/20 12:21	1
Manganese	14		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:21	1
Nickel	<0.010		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:21	1
Potassium	1.6	J	2.5	0.50	mg/L		12/04/20 16:44	12/07/20 12:21	1
Selenium	<0.020		0.050	0.020	mg/L		12/04/20 16:44	12/07/20 12:21	1
Silver	<0.010		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:21	1
Vanadium	<0.010		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:21	1
Zinc	<0.020		0.50	0.020	mg/L		12/04/20 16:44	12/07/20 12:21	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.15		0.0075	0.0075	mg/L		12/04/20 16:45	12/07/20 10:25	1
Manganese	2.2		0.025	0.010	mg/L		12/04/20 16:45	12/07/20 10:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/04/20 16:44	12/07/20 15:52	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/04/20 16:44	12/07/20 15:52	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/07/20 09:05	12/08/20 08:13	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.020	0.0066	mg/Kg	⊛	12/04/20 13:25	12/07/20 11:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.25	J	0.30	0.15	mg/Kg	⊛	12/08/20 09:57	12/08/20 13:01	1
pH	7.8		0.2	0.2	SU			12/08/20 12:51	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191784-1

Client Sample ID: 3487-1-B01 (6-11.4)

Lab Sample ID: 500-191784-2

Date Collected: 12/01/20 10:05

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 85.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0066		0.015	0.0066	mg/Kg	☼	12/01/20 17:52	12/07/20 16:58	1
Benzene	<0.00039		0.0015	0.00039	mg/Kg	☼	12/01/20 17:52	12/07/20 16:58	1
Bromodichloromethane	<0.00031		0.0015	0.00031	mg/Kg	☼	12/01/20 17:52	12/07/20 16:58	1
Bromoform	<0.00044		0.0015	0.00044	mg/Kg	☼	12/01/20 17:52	12/07/20 16:58	1
Bromomethane	<0.0014		0.0038	0.0014	mg/Kg	☼	12/01/20 17:52	12/07/20 16:58	1
2-Butanone (MEK)	<0.0017		0.0038	0.0017	mg/Kg	☼	12/01/20 17:52	12/07/20 16:58	1
Carbon disulfide	<0.00079		0.0038	0.00079	mg/Kg	☼	12/01/20 17:52	12/07/20 16:58	1
Carbon tetrachloride	<0.00044		0.0015	0.00044	mg/Kg	☼	12/01/20 17:52	12/07/20 16:58	1
Chlorobenzene	<0.00056		0.0015	0.00056	mg/Kg	☼	12/01/20 17:52	12/07/20 16:58	1
Chloroethane	<0.0011		0.0038	0.0011	mg/Kg	☼	12/01/20 17:52	12/07/20 16:58	1
Chloroform	<0.00053		0.0015	0.00053	mg/Kg	☼	12/01/20 17:52	12/07/20 16:58	1
Chloromethane	<0.0015		0.0038	0.0015	mg/Kg	☼	12/01/20 17:52	12/07/20 16:58	1
cis-1,2-Dichloroethene	<0.00042		0.0015	0.00042	mg/Kg	☼	12/01/20 17:52	12/07/20 16:58	1
cis-1,3-Dichloropropene	<0.00046		0.0015	0.00046	mg/Kg	☼	12/01/20 17:52	12/07/20 16:58	1
Dibromochloromethane	<0.00050		0.0015	0.00050	mg/Kg	☼	12/01/20 17:52	12/07/20 16:58	1
1,1-Dichloroethane	<0.00052		0.0015	0.00052	mg/Kg	☼	12/01/20 17:52	12/07/20 16:58	1
1,2-Dichloroethane	<0.0012		0.0038	0.0012	mg/Kg	☼	12/01/20 17:52	12/07/20 16:58	1
1,1-Dichloroethene	<0.00052		0.0015	0.00052	mg/Kg	☼	12/01/20 17:52	12/07/20 16:58	1
1,2-Dichloropropene	<0.00039		0.0015	0.00039	mg/Kg	☼	12/01/20 17:52	12/07/20 16:58	1
1,3-Dichloropropene, Total	<0.00053		0.0015	0.00053	mg/Kg	☼	12/01/20 17:52	12/07/20 16:58	1
Ethylbenzene	<0.00073		0.0015	0.00073	mg/Kg	☼	12/01/20 17:52	12/07/20 16:58	1
2-Hexanone	<0.0012		0.0038	0.0012	mg/Kg	☼	12/01/20 17:52	12/07/20 16:58	1
Methylene Chloride	<0.0015		0.0038	0.0015	mg/Kg	☼	12/01/20 17:52	12/07/20 16:58	1
4-Methyl-2-pentanone (MIBK)	<0.0011		0.0038	0.0011	mg/Kg	☼	12/01/20 17:52	12/07/20 16:58	1
Methyl tert-butyl ether	<0.00045		0.0015	0.00045	mg/Kg	☼	12/01/20 17:52	12/07/20 16:58	1
Styrene	<0.00046		0.0015	0.00046	mg/Kg	☼	12/01/20 17:52	12/07/20 16:58	1
1,1,2,2-Tetrachloroethane	<0.00048		0.0015	0.00048	mg/Kg	☼	12/01/20 17:52	12/07/20 16:58	1
Tetrachloroethene	<0.00052		0.0015	0.00052	mg/Kg	☼	12/01/20 17:52	12/07/20 16:58	1
Toluene	<0.00038		0.0015	0.00038	mg/Kg	☼	12/01/20 17:52	12/07/20 16:58	1
trans-1,2-Dichloroethene	<0.00067		0.0015	0.00067	mg/Kg	☼	12/01/20 17:52	12/07/20 16:58	1
trans-1,3-Dichloropropene	<0.00053		0.0015	0.00053	mg/Kg	☼	12/01/20 17:52	12/07/20 16:58	1
1,1,1-Trichloroethane	<0.00051		0.0015	0.00051	mg/Kg	☼	12/01/20 17:52	12/07/20 16:58	1
1,1,2-Trichloroethane	<0.00065		0.0015	0.00065	mg/Kg	☼	12/01/20 17:52	12/07/20 16:58	1
Trichloroethene	<0.00051		0.0015	0.00051	mg/Kg	☼	12/01/20 17:52	12/07/20 16:58	1
Vinyl acetate	<0.0013		0.0038	0.0013	mg/Kg	☼	12/01/20 17:52	12/07/20 16:58	1
Vinyl chloride	<0.00067		0.0015	0.00067	mg/Kg	☼	12/01/20 17:52	12/07/20 16:58	1
Xylenes, Total	<0.00049		0.0030	0.00049	mg/Kg	☼	12/01/20 17:52	12/07/20 16:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		75 - 131	12/01/20 17:52	12/07/20 16:58	1
Dibromofluoromethane	101		75 - 126	12/01/20 17:52	12/07/20 16:58	1
1,2-Dichloroethane-d4 (Surr)	88		70 - 134	12/01/20 17:52	12/07/20 16:58	1
Toluene-d8 (Surr)	89		75 - 124	12/01/20 17:52	12/07/20 16:58	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	☼	12/03/20 08:38	12/03/20 21:10	1
Acenaphthylene	<0.0050		0.037	0.0050	mg/Kg	☼	12/03/20 08:38	12/03/20 21:10	1
Anthracene	<0.0063		0.037	0.0063	mg/Kg	☼	12/03/20 08:38	12/03/20 21:10	1
Benzo[a]anthracene	<0.0051		0.037	0.0051	mg/Kg	☼	12/03/20 08:38	12/03/20 21:10	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191784-1

Client Sample ID: 3487-1-B01 (6-11.4)

Lab Sample ID: 500-191784-2

Date Collected: 12/01/20 10:05

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 85.8

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	☼	12/03/20 08:38	12/03/20 21:10	1
Benzo[b]fluoranthene	<0.0081		0.037	0.0081	mg/Kg	☼	12/03/20 08:38	12/03/20 21:10	1
Benzo[g,h,i]perylene	<0.012		0.037	0.012	mg/Kg	☼	12/03/20 08:38	12/03/20 21:10	1
Benzo[k]fluoranthene	<0.011		0.037	0.011	mg/Kg	☼	12/03/20 08:38	12/03/20 21:10	1
Bis(2-chloroethoxy)methane	<0.039		0.19	0.039	mg/Kg	☼	12/03/20 08:38	12/03/20 21:10	1
Bis(2-chloroethyl)ether	<0.057		0.19	0.057	mg/Kg	☼	12/03/20 08:38	12/03/20 21:10	1
Bis(2-ethylhexyl) phthalate	<0.069		0.19	0.069	mg/Kg	☼	12/03/20 08:38	12/03/20 21:10	1
4-Bromophenyl phenyl ether	<0.050		0.19	0.050	mg/Kg	☼	12/03/20 08:38	12/03/20 21:10	1
Butyl benzyl phthalate	<0.072		0.19	0.072	mg/Kg	☼	12/03/20 08:38	12/03/20 21:10	1
Carbazole	<0.094		0.19	0.094	mg/Kg	☼	12/03/20 08:38	12/03/20 21:10	1
4-Chloroaniline	<0.18		0.76	0.18	mg/Kg	☼	12/03/20 08:38	12/03/20 21:10	1
4-Chloro-3-methylphenol	<0.13		0.37	0.13	mg/Kg	☼	12/03/20 08:38	12/03/20 21:10	1
2-Chloronaphthalene	<0.042		0.19	0.042	mg/Kg	☼	12/03/20 08:38	12/03/20 21:10	1
2-Chlorophenol	<0.064		0.19	0.064	mg/Kg	☼	12/03/20 08:38	12/03/20 21:10	1
4-Chlorophenyl phenyl ether	<0.044		0.19	0.044	mg/Kg	☼	12/03/20 08:38	12/03/20 21:10	1
Chrysene	<0.010		0.037	0.010	mg/Kg	☼	12/03/20 08:38	12/03/20 21:10	1
Dibenz(a,h)anthracene	<0.0073		0.037	0.0073	mg/Kg	☼	12/03/20 08:38	12/03/20 21:10	1
Dibenzofuran	<0.044		0.19	0.044	mg/Kg	☼	12/03/20 08:38	12/03/20 21:10	1
1,2-Dichlorobenzene	<0.045		0.19	0.045	mg/Kg	☼	12/03/20 08:38	12/03/20 21:10	1
1,3-Dichlorobenzene	<0.042		0.19	0.042	mg/Kg	☼	12/03/20 08:38	12/03/20 21:10	1
1,4-Dichlorobenzene	<0.048		0.19	0.048	mg/Kg	☼	12/03/20 08:38	12/03/20 21:10	1
3,3'-Dichlorobenzidine	<0.053		0.19	0.053	mg/Kg	☼	12/03/20 08:38	12/03/20 21:10	1
2,4-Dichlorophenol	<0.090		0.37	0.090	mg/Kg	☼	12/03/20 08:38	12/03/20 21:10	1
Diethyl phthalate	<0.064		0.19	0.064	mg/Kg	☼	12/03/20 08:38	12/03/20 21:10	1
2,4-Dimethylphenol	<0.14		0.37	0.14	mg/Kg	☼	12/03/20 08:38	12/03/20 21:10	1
Dimethyl phthalate	<0.049		0.19	0.049	mg/Kg	☼	12/03/20 08:38	12/03/20 21:10	1
Di-n-butyl phthalate	<0.057		0.19	0.057	mg/Kg	☼	12/03/20 08:38	12/03/20 21:10	1
4,6-Dinitro-2-methylphenol	<0.30		0.76	0.30	mg/Kg	☼	12/03/20 08:38	12/03/20 21:10	1
2,4-Dinitrophenol	<0.66		0.76	0.66	mg/Kg	☼	12/03/20 08:38	12/03/20 21:10	1
2,4-Dinitrotoluene	<0.060		0.19	0.060	mg/Kg	☼	12/03/20 08:38	12/03/20 21:10	1
2,6-Dinitrotoluene	<0.074		0.19	0.074	mg/Kg	☼	12/03/20 08:38	12/03/20 21:10	1
Di-n-octyl phthalate	<0.062		0.19	0.062	mg/Kg	☼	12/03/20 08:38	12/03/20 21:10	1
Fluoranthene	<0.0070		0.037	0.0070	mg/Kg	☼	12/03/20 08:38	12/03/20 21:10	1
Fluorene	<0.0053		0.037	0.0053	mg/Kg	☼	12/03/20 08:38	12/03/20 21:10	1
Hexachlorobenzene	<0.0087		0.076	0.0087	mg/Kg	☼	12/03/20 08:38	12/03/20 21:10	1
Hexachlorobutadiene	<0.059		0.19	0.059	mg/Kg	☼	12/03/20 08:38	12/03/20 21:10	1
Hexachlorocyclopentadiene	<0.22		0.76	0.22	mg/Kg	☼	12/03/20 08:38	12/03/20 21:10	1
Hexachloroethane	<0.057		0.19	0.057	mg/Kg	☼	12/03/20 08:38	12/03/20 21:10	1
Indeno[1,2,3-cd]pyrene	<0.0098		0.037	0.0098	mg/Kg	☼	12/03/20 08:38	12/03/20 21:10	1
Isophorone	<0.042		0.19	0.042	mg/Kg	☼	12/03/20 08:38	12/03/20 21:10	1
2-Methylnaphthalene	<0.0069		0.076	0.0069	mg/Kg	☼	12/03/20 08:38	12/03/20 21:10	1
2-Methylphenol	<0.061		0.19	0.061	mg/Kg	☼	12/03/20 08:38	12/03/20 21:10	1
3 & 4 Methylphenol	<0.063		0.19	0.063	mg/Kg	☼	12/03/20 08:38	12/03/20 21:10	1
Naphthalene	<0.0058		0.037	0.0058	mg/Kg	☼	12/03/20 08:38	12/03/20 21:10	1
2-Nitroaniline	<0.051		0.19	0.051	mg/Kg	☼	12/03/20 08:38	12/03/20 21:10	1
3-Nitroaniline	<0.12		0.37	0.12	mg/Kg	☼	12/03/20 08:38	12/03/20 21:10	1
4-Nitroaniline	<0.16		0.37	0.16	mg/Kg	☼	12/03/20 08:38	12/03/20 21:10	1
Nitrobenzene	<0.0094		0.037	0.0094	mg/Kg	☼	12/03/20 08:38	12/03/20 21:10	1
2-Nitrophenol	<0.089		0.37	0.089	mg/Kg	☼	12/03/20 08:38	12/03/20 21:10	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191784-1

Client Sample ID: 3487-1-B01 (6-11.4)

Lab Sample ID: 500-191784-2

Date Collected: 12/01/20 10:05

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 85.8

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	☼	12/03/20 08:38	12/03/20 21:10	1
N-Nitrosodi-n-propylamine	<0.046		0.076	0.046	mg/Kg	☼	12/03/20 08:38	12/03/20 21:10	1
N-Nitrosodiphenylamine	<0.045		0.19	0.045	mg/Kg	☼	12/03/20 08:38	12/03/20 21:10	1
2,2'-oxybis[1-chloropropane]	<0.044		0.19	0.044	mg/Kg	☼	12/03/20 08:38	12/03/20 21:10	1
Pentachlorophenol	<0.61		0.76	0.61	mg/Kg	☼	12/03/20 08:38	12/03/20 21:10	1
Phenanthrene	<0.0053		0.037	0.0053	mg/Kg	☼	12/03/20 08:38	12/03/20 21:10	1
Phenol	<0.084		0.19	0.084	mg/Kg	☼	12/03/20 08:38	12/03/20 21:10	1
Pyrene	<0.0075		0.037	0.0075	mg/Kg	☼	12/03/20 08:38	12/03/20 21:10	1
1,2,4-Trichlorobenzene	<0.041		0.19	0.041	mg/Kg	☼	12/03/20 08:38	12/03/20 21:10	1
2,4,5-Trichlorophenol	<0.086		0.37	0.086	mg/Kg	☼	12/03/20 08:38	12/03/20 21:10	1
2,4,6-Trichlorophenol	<0.13		0.37	0.13	mg/Kg	☼	12/03/20 08:38	12/03/20 21:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	75		43 - 145				12/03/20 08:38	12/03/20 21:10	1
2-Fluorophenol	94		31 - 166				12/03/20 08:38	12/03/20 21:10	1
Nitrobenzene-d5	81		37 - 147				12/03/20 08:38	12/03/20 21:10	1
Phenol-d5	91		30 - 153				12/03/20 08:38	12/03/20 21:10	1
Terphenyl-d14	98		42 - 157				12/03/20 08:38	12/03/20 21:10	1
2,4,6-Tribromophenol	74		31 - 143				12/03/20 08:38	12/03/20 21:10	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.62	J B	1.1	0.22	mg/Kg	☼	12/04/20 06:53	12/04/20 17:39	1
Arsenic	5.0		0.56	0.19	mg/Kg	☼	12/04/20 06:53	12/04/20 17:39	1
Barium	36		0.56	0.064	mg/Kg	☼	12/04/20 06:53	12/04/20 17:39	1
Beryllium	0.80		0.22	0.052	mg/Kg	☼	12/04/20 06:53	12/04/20 17:39	1
Cadmium	0.20	B	0.11	0.020	mg/Kg	☼	12/04/20 06:53	12/04/20 17:39	1
Chromium	18		0.56	0.28	mg/Kg	☼	12/04/20 06:53	12/04/20 17:39	1
Cobalt	13		0.28	0.073	mg/Kg	☼	12/04/20 06:53	12/04/20 17:39	1
Copper	18		0.56	0.16	mg/Kg	☼	12/04/20 06:53	12/04/20 17:39	1
Iron	23000		110	58	mg/Kg	☼	12/04/20 06:53	12/07/20 14:13	10
Lead	10		0.28	0.13	mg/Kg	☼	12/04/20 06:53	12/04/20 17:39	1
Magnesium	44000		56	28	mg/Kg	☼	12/04/20 06:53	12/07/20 14:13	10
Calcium	86000		110	19	mg/Kg	☼	12/04/20 06:53	12/07/20 14:13	10
Manganese	410	B	0.56	0.081	mg/Kg	☼	12/04/20 06:53	12/04/20 17:39	1
Nickel	31		0.56	0.16	mg/Kg	☼	12/04/20 06:53	12/04/20 17:39	1
Selenium	0.36	J	0.56	0.33	mg/Kg	☼	12/04/20 06:53	12/04/20 17:39	1
Silver	0.12	J	0.28	0.072	mg/Kg	☼	12/04/20 06:53	12/04/20 17:39	1
Thallium	<0.28		0.56	0.28	mg/Kg	☼	12/04/20 06:53	12/04/20 17:39	1
Vanadium	20		0.28	0.066	mg/Kg	☼	12/04/20 06:53	12/04/20 17:39	1
Zinc	51		1.1	0.49	mg/Kg	☼	12/04/20 06:53	12/04/20 17:39	1
Potassium	3200		28	9.9	mg/Kg	☼	12/04/20 06:53	12/04/20 17:39	1
Sodium	390		56	8.3	mg/Kg	☼	12/04/20 06:53	12/04/20 17:39	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		12/04/20 16:44	12/07/20 12:25	1
Barium	0.33	J	0.50	0.050	mg/L		12/04/20 16:44	12/07/20 12:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/04/20 16:44	12/07/20 12:25	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		12/04/20 16:44	12/07/20 12:25	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191784-1

Client Sample ID: 3487-1-B01 (6-11.4)

Lab Sample ID: 500-191784-2

Date Collected: 12/01/20 10:05

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 85.8

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		12/04/20 16:44	12/07/20 12:25	1
Chromium	<0.010		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:25	1
Cobalt	<0.010		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:25	1
Copper	<0.010		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:25	1
Iron	<0.20		0.40	0.20	mg/L		12/04/20 16:44	12/07/20 12:25	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/04/20 16:44	12/07/20 12:25	1
Magnesium	48		2.5	0.50	mg/L		12/04/20 16:44	12/07/20 12:25	1
Manganese	0.99		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:25	1
Nickel	<0.010		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:25	1
Potassium	2.7		2.5	0.50	mg/L		12/04/20 16:44	12/07/20 12:25	1
Selenium	<0.020		0.050	0.020	mg/L		12/04/20 16:44	12/07/20 12:25	1
Silver	<0.010		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:25	1
Vanadium	<0.010		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:25	1
Zinc	<0.020		0.50	0.020	mg/L		12/04/20 16:44	12/07/20 12:25	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		12/04/20 16:45	12/07/20 10:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/04/20 16:44	12/07/20 15:55	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/04/20 16:44	12/07/20 15:55	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		12/07/20 09:05	12/08/20 08:15	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.014	J	0.019	0.0062	mg/Kg	✱	12/04/20 13:25	12/07/20 11:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.14		0.28	0.14	mg/Kg	✱	12/08/20 09:57	12/08/20 13:03	1
pH	7.4		0.2	0.2	SU			12/08/20 12:56	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191784-1

Client Sample ID: 3487-1-B03 (0-1.3)

Lab Sample ID: 500-191784-3

Date Collected: 12/01/20 09:25

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.011	J	0.016	0.0069	mg/Kg	☼	12/01/20 17:52	12/07/20 17:24	1
Benzene	<0.00040		0.0016	0.00040	mg/Kg	☼	12/01/20 17:52	12/07/20 17:24	1
Bromodichloromethane	<0.00032		0.0016	0.00032	mg/Kg	☼	12/01/20 17:52	12/07/20 17:24	1
Bromoform	<0.00046		0.0016	0.00046	mg/Kg	☼	12/01/20 17:52	12/07/20 17:24	1
Bromomethane	<0.0015		0.0040	0.0015	mg/Kg	☼	12/01/20 17:52	12/07/20 17:24	1
2-Butanone (MEK)	<0.0018		0.0040	0.0018	mg/Kg	☼	12/01/20 17:52	12/07/20 17:24	1
Carbon disulfide	<0.00082		0.0040	0.00082	mg/Kg	☼	12/01/20 17:52	12/07/20 17:24	1
Carbon tetrachloride	<0.00046		0.0016	0.00046	mg/Kg	☼	12/01/20 17:52	12/07/20 17:24	1
Chlorobenzene	<0.00059		0.0016	0.00059	mg/Kg	☼	12/01/20 17:52	12/07/20 17:24	1
Chloroethane	<0.0012		0.0040	0.0012	mg/Kg	☼	12/01/20 17:52	12/07/20 17:24	1
Chloroform	<0.00055		0.0016	0.00055	mg/Kg	☼	12/01/20 17:52	12/07/20 17:24	1
Chloromethane	<0.0016		0.0040	0.0016	mg/Kg	☼	12/01/20 17:52	12/07/20 17:24	1
cis-1,2-Dichloroethene	<0.00044		0.0016	0.00044	mg/Kg	☼	12/01/20 17:52	12/07/20 17:24	1
cis-1,3-Dichloropropene	<0.00048		0.0016	0.00048	mg/Kg	☼	12/01/20 17:52	12/07/20 17:24	1
Dibromochloromethane	<0.00052		0.0016	0.00052	mg/Kg	☼	12/01/20 17:52	12/07/20 17:24	1
1,1-Dichloroethane	<0.00054		0.0016	0.00054	mg/Kg	☼	12/01/20 17:52	12/07/20 17:24	1
1,2-Dichloroethane	<0.0012		0.0040	0.0012	mg/Kg	☼	12/01/20 17:52	12/07/20 17:24	1
1,1-Dichloroethene	<0.00055		0.0016	0.00055	mg/Kg	☼	12/01/20 17:52	12/07/20 17:24	1
1,2-Dichloropropene	<0.00041		0.0016	0.00041	mg/Kg	☼	12/01/20 17:52	12/07/20 17:24	1
1,3-Dichloropropene, Total	<0.00056		0.0016	0.00056	mg/Kg	☼	12/01/20 17:52	12/07/20 17:24	1
Ethylbenzene	<0.00076		0.0016	0.00076	mg/Kg	☼	12/01/20 17:52	12/07/20 17:24	1
2-Hexanone	<0.0012		0.0040	0.0012	mg/Kg	☼	12/01/20 17:52	12/07/20 17:24	1
Methylene Chloride	<0.0016		0.0040	0.0016	mg/Kg	☼	12/01/20 17:52	12/07/20 17:24	1
4-Methyl-2-pentanone (MIBK)	<0.0012		0.0040	0.0012	mg/Kg	☼	12/01/20 17:52	12/07/20 17:24	1
Methyl tert-butyl ether	<0.00047		0.0016	0.00047	mg/Kg	☼	12/01/20 17:52	12/07/20 17:24	1
Styrene	<0.00048		0.0016	0.00048	mg/Kg	☼	12/01/20 17:52	12/07/20 17:24	1
1,1,2,2-Tetrachloroethane	<0.00051		0.0016	0.00051	mg/Kg	☼	12/01/20 17:52	12/07/20 17:24	1
Tetrachloroethene	<0.00054		0.0016	0.00054	mg/Kg	☼	12/01/20 17:52	12/07/20 17:24	1
Toluene	<0.00040		0.0016	0.00040	mg/Kg	☼	12/01/20 17:52	12/07/20 17:24	1
trans-1,2-Dichloroethene	<0.00070		0.0016	0.00070	mg/Kg	☼	12/01/20 17:52	12/07/20 17:24	1
trans-1,3-Dichloropropene	<0.00056		0.0016	0.00056	mg/Kg	☼	12/01/20 17:52	12/07/20 17:24	1
1,1,1-Trichloroethane	<0.00053		0.0016	0.00053	mg/Kg	☼	12/01/20 17:52	12/07/20 17:24	1
1,1,2-Trichloroethane	<0.00068		0.0016	0.00068	mg/Kg	☼	12/01/20 17:52	12/07/20 17:24	1
Trichloroethene	<0.00054		0.0016	0.00054	mg/Kg	☼	12/01/20 17:52	12/07/20 17:24	1
Vinyl acetate	<0.0014		0.0040	0.0014	mg/Kg	☼	12/01/20 17:52	12/07/20 17:24	1
Vinyl chloride	<0.00070		0.0016	0.00070	mg/Kg	☼	12/01/20 17:52	12/07/20 17:24	1
Xylenes, Total	<0.00051		0.0032	0.00051	mg/Kg	☼	12/01/20 17:52	12/07/20 17:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		75 - 131	12/01/20 17:52	12/07/20 17:24	1
Dibromofluoromethane	100		75 - 126	12/01/20 17:52	12/07/20 17:24	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	12/01/20 17:52	12/07/20 17:24	1
Toluene-d8 (Surr)	88		75 - 124	12/01/20 17:52	12/07/20 17:24	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	☼	12/03/20 08:38	12/03/20 22:59	1
Acenaphthylene	0.0070	J	0.039	0.0052	mg/Kg	☼	12/03/20 08:38	12/03/20 22:59	1
Anthracene	0.012	J	0.039	0.0066	mg/Kg	☼	12/03/20 08:38	12/03/20 22:59	1
Benzo[a]anthracene	0.072		0.039	0.0053	mg/Kg	☼	12/03/20 08:38	12/03/20 22:59	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191784-1

Client Sample ID: 3487-1-B03 (0-1.3)

Lab Sample ID: 500-191784-3

Date Collected: 12/01/20 09:25

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.079		0.039	0.0076	mg/Kg	☼	12/03/20 08:38	12/03/20 22:59	1
Benzo[b]fluoranthene	0.12		0.039	0.0085	mg/Kg	☼	12/03/20 08:38	12/03/20 22:59	1
Benzo[g,h,i]perylene	0.046		0.039	0.013	mg/Kg	☼	12/03/20 08:38	12/03/20 22:59	1
Benzo[k]fluoranthene	0.037	J	0.039	0.012	mg/Kg	☼	12/03/20 08:38	12/03/20 22:59	1
Bis(2-chloroethoxy)methane	<0.040		0.20	0.040	mg/Kg	☼	12/03/20 08:38	12/03/20 22:59	1
Bis(2-chloroethyl)ether	<0.059		0.20	0.059	mg/Kg	☼	12/03/20 08:38	12/03/20 22:59	1
Bis(2-ethylhexyl) phthalate	<0.072		0.20	0.072	mg/Kg	☼	12/03/20 08:38	12/03/20 22:59	1
4-Bromophenyl phenyl ether	<0.052		0.20	0.052	mg/Kg	☼	12/03/20 08:38	12/03/20 22:59	1
Butyl benzyl phthalate	<0.075		0.20	0.075	mg/Kg	☼	12/03/20 08:38	12/03/20 22:59	1
Carbazole	<0.098		0.20	0.098	mg/Kg	☼	12/03/20 08:38	12/03/20 22:59	1
4-Chloroaniline	<0.18		0.79	0.18	mg/Kg	☼	12/03/20 08:38	12/03/20 22:59	1
4-Chloro-3-methylphenol	<0.13		0.39	0.13	mg/Kg	☼	12/03/20 08:38	12/03/20 22:59	1
2-Chloronaphthalene	<0.043		0.20	0.043	mg/Kg	☼	12/03/20 08:38	12/03/20 22:59	1
2-Chlorophenol	<0.067		0.20	0.067	mg/Kg	☼	12/03/20 08:38	12/03/20 22:59	1
4-Chlorophenyl phenyl ether	<0.046		0.20	0.046	mg/Kg	☼	12/03/20 08:38	12/03/20 22:59	1
Chrysene	0.087		0.039	0.011	mg/Kg	☼	12/03/20 08:38	12/03/20 22:59	1
Dibenz(a,h)anthracene	0.011	J	0.039	0.0076	mg/Kg	☼	12/03/20 08:38	12/03/20 22:59	1
Dibenzofuran	<0.046		0.20	0.046	mg/Kg	☼	12/03/20 08:38	12/03/20 22:59	1
1,2-Dichlorobenzene	<0.047		0.20	0.047	mg/Kg	☼	12/03/20 08:38	12/03/20 22:59	1
1,3-Dichlorobenzene	<0.044		0.20	0.044	mg/Kg	☼	12/03/20 08:38	12/03/20 22:59	1
1,4-Dichlorobenzene	<0.050		0.20	0.050	mg/Kg	☼	12/03/20 08:38	12/03/20 22:59	1
3,3'-Dichlorobenzidine	<0.055		0.20	0.055	mg/Kg	☼	12/03/20 08:38	12/03/20 22:59	1
2,4-Dichlorophenol	<0.093		0.39	0.093	mg/Kg	☼	12/03/20 08:38	12/03/20 22:59	1
Diethyl phthalate	<0.067		0.20	0.067	mg/Kg	☼	12/03/20 08:38	12/03/20 22:59	1
2,4-Dimethylphenol	<0.15		0.39	0.15	mg/Kg	☼	12/03/20 08:38	12/03/20 22:59	1
Dimethyl phthalate	<0.051		0.20	0.051	mg/Kg	☼	12/03/20 08:38	12/03/20 22:59	1
Di-n-butyl phthalate	<0.060		0.20	0.060	mg/Kg	☼	12/03/20 08:38	12/03/20 22:59	1
4,6-Dinitro-2-methylphenol	<0.32		0.79	0.32	mg/Kg	☼	12/03/20 08:38	12/03/20 22:59	1
2,4-Dinitrophenol	<0.69		0.79	0.69	mg/Kg	☼	12/03/20 08:38	12/03/20 22:59	1
2,4-Dinitrotoluene	<0.063		0.20	0.063	mg/Kg	☼	12/03/20 08:38	12/03/20 22:59	1
2,6-Dinitrotoluene	<0.077		0.20	0.077	mg/Kg	☼	12/03/20 08:38	12/03/20 22:59	1
Di-n-octyl phthalate	<0.064		0.20	0.064	mg/Kg	☼	12/03/20 08:38	12/03/20 22:59	1
Fluoranthene	0.14		0.039	0.0073	mg/Kg	☼	12/03/20 08:38	12/03/20 22:59	1
Fluorene	<0.0055		0.039	0.0055	mg/Kg	☼	12/03/20 08:38	12/03/20 22:59	1
Hexachlorobenzene	<0.0091		0.079	0.0091	mg/Kg	☼	12/03/20 08:38	12/03/20 22:59	1
Hexachlorobutadiene	<0.062		0.20	0.062	mg/Kg	☼	12/03/20 08:38	12/03/20 22:59	1
Hexachlorocyclopentadiene	<0.23		0.79	0.23	mg/Kg	☼	12/03/20 08:38	12/03/20 22:59	1
Hexachloroethane	<0.060		0.20	0.060	mg/Kg	☼	12/03/20 08:38	12/03/20 22:59	1
Indeno[1,2,3-cd]pyrene	0.037	J	0.039	0.010	mg/Kg	☼	12/03/20 08:38	12/03/20 22:59	1
Isophorone	<0.044		0.20	0.044	mg/Kg	☼	12/03/20 08:38	12/03/20 22:59	1
2-Methylnaphthalene	<0.0072		0.079	0.0072	mg/Kg	☼	12/03/20 08:38	12/03/20 22:59	1
2-Methylphenol	<0.063		0.20	0.063	mg/Kg	☼	12/03/20 08:38	12/03/20 22:59	1
3 & 4 Methylphenol	<0.066		0.20	0.066	mg/Kg	☼	12/03/20 08:38	12/03/20 22:59	1
Naphthalene	<0.0060		0.039	0.0060	mg/Kg	☼	12/03/20 08:38	12/03/20 22:59	1
2-Nitroaniline	<0.053		0.20	0.053	mg/Kg	☼	12/03/20 08:38	12/03/20 22:59	1
3-Nitroaniline	<0.12		0.39	0.12	mg/Kg	☼	12/03/20 08:38	12/03/20 22:59	1
4-Nitroaniline	<0.16		0.39	0.16	mg/Kg	☼	12/03/20 08:38	12/03/20 22:59	1
Nitrobenzene	<0.0098		0.039	0.0098	mg/Kg	☼	12/03/20 08:38	12/03/20 22:59	1
2-Nitrophenol	<0.093		0.39	0.093	mg/Kg	☼	12/03/20 08:38	12/03/20 22:59	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191784-1

Client Sample ID: 3487-1-B03 (0-1.3)

Lab Sample ID: 500-191784-3

Date Collected: 12/01/20 09:25

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.37		0.79	0.37	mg/Kg	✳	12/03/20 08:38	12/03/20 22:59	1
N-Nitrosodi-n-propylamine	<0.048		0.079	0.048	mg/Kg	✳	12/03/20 08:38	12/03/20 22:59	1
N-Nitrosodiphenylamine	<0.046		0.20	0.046	mg/Kg	✳	12/03/20 08:38	12/03/20 22:59	1
2,2'-oxybis[1-chloropropane]	<0.046		0.20	0.046	mg/Kg	✳	12/03/20 08:38	12/03/20 22:59	1
Pentachlorophenol	<0.63		0.79	0.63	mg/Kg	✳	12/03/20 08:38	12/03/20 22:59	1
Phenanthrene	0.057		0.039	0.0055	mg/Kg	✳	12/03/20 08:38	12/03/20 22:59	1
Phenol	<0.087		0.20	0.087	mg/Kg	✳	12/03/20 08:38	12/03/20 22:59	1
Pyrene	0.13		0.039	0.0078	mg/Kg	✳	12/03/20 08:38	12/03/20 22:59	1
1,2,4-Trichlorobenzene	<0.042		0.20	0.042	mg/Kg	✳	12/03/20 08:38	12/03/20 22:59	1
2,4,5-Trichlorophenol	<0.090		0.39	0.090	mg/Kg	✳	12/03/20 08:38	12/03/20 22:59	1
2,4,6-Trichlorophenol	<0.13		0.39	0.13	mg/Kg	✳	12/03/20 08:38	12/03/20 22:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	85		43 - 145				12/03/20 08:38	12/03/20 22:59	1
2-Fluorophenol	101		31 - 166				12/03/20 08:38	12/03/20 22:59	1
Nitrobenzene-d5	90		37 - 147				12/03/20 08:38	12/03/20 22:59	1
Phenol-d5	95		30 - 153				12/03/20 08:38	12/03/20 22:59	1
Terphenyl-d14	99		42 - 157				12/03/20 08:38	12/03/20 22:59	1
2,4,6-Tribromophenol	80		31 - 143				12/03/20 08:38	12/03/20 22:59	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.70	J B	1.1	0.22	mg/Kg	✳	12/04/20 06:53	12/04/20 17:42	1
Arsenic	4.5		0.56	0.19	mg/Kg	✳	12/04/20 06:53	12/04/20 17:42	1
Barium	68		0.56	0.064	mg/Kg	✳	12/04/20 06:53	12/04/20 17:42	1
Beryllium	0.92		0.22	0.052	mg/Kg	✳	12/04/20 06:53	12/04/20 17:42	1
Cadmium	0.31	B	0.11	0.020	mg/Kg	✳	12/04/20 06:53	12/04/20 17:42	1
Chromium	20		0.56	0.28	mg/Kg	✳	12/04/20 06:53	12/04/20 17:42	1
Cobalt	13		0.28	0.073	mg/Kg	✳	12/04/20 06:53	12/04/20 17:42	1
Copper	19		0.56	0.16	mg/Kg	✳	12/04/20 06:53	12/04/20 17:42	1
Iron	18000		11	5.8	mg/Kg	✳	12/04/20 06:53	12/04/20 17:42	1
Lead	37		0.28	0.13	mg/Kg	✳	12/04/20 06:53	12/04/20 17:42	1
Magnesium	17000		5.6	2.8	mg/Kg	✳	12/04/20 06:53	12/04/20 17:42	1
Calcium	28000		11	1.9	mg/Kg	✳	12/04/20 06:53	12/04/20 17:42	1
Manganese	600	B	0.56	0.081	mg/Kg	✳	12/04/20 06:53	12/04/20 17:42	1
Nickel	29		0.56	0.16	mg/Kg	✳	12/04/20 06:53	12/04/20 17:42	1
Selenium	0.47	J	0.56	0.33	mg/Kg	✳	12/04/20 06:53	12/04/20 17:42	1
Silver	<0.072		0.28	0.072	mg/Kg	✳	12/04/20 06:53	12/04/20 17:42	1
Thallium	0.30	J	0.56	0.28	mg/Kg	✳	12/04/20 06:53	12/04/20 17:42	1
Vanadium	25		0.28	0.066	mg/Kg	✳	12/04/20 06:53	12/04/20 17:42	1
Zinc	85		1.1	0.49	mg/Kg	✳	12/04/20 06:53	12/04/20 17:42	1
Potassium	2700		28	9.9	mg/Kg	✳	12/04/20 06:53	12/04/20 17:42	1
Sodium	1700		56	8.3	mg/Kg	✳	12/04/20 06:53	12/04/20 17:42	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		12/04/20 16:44	12/07/20 12:28	1
Barium	0.45	J	0.50	0.050	mg/L		12/04/20 16:44	12/07/20 12:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/04/20 16:44	12/07/20 12:28	1
Cadmium	0.0042	J	0.0050	0.0020	mg/L		12/04/20 16:44	12/07/20 12:28	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191784-1

Client Sample ID: 3487-1-B03 (0-1.3)

Lab Sample ID: 500-191784-3

Date Collected: 12/01/20 09:25

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 82.4

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		12/04/20 16:44	12/07/20 12:28	1
Chromium	<0.010		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:28	1
Cobalt	0.020	J	0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:28	1
Copper	<0.010		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:28	1
Iron	<0.20		0.40	0.20	mg/L		12/04/20 16:44	12/07/20 12:28	1
Lead	0.022		0.0075	0.0075	mg/L		12/04/20 16:44	12/07/20 12:28	1
Magnesium	34		2.5	0.50	mg/L		12/04/20 16:44	12/07/20 12:28	1
Manganese	7.6		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:28	1
Nickel	0.016	J	0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:28	1
Potassium	2.4	J	2.5	0.50	mg/L		12/04/20 16:44	12/07/20 12:28	1
Selenium	<0.020		0.050	0.020	mg/L		12/04/20 16:44	12/07/20 12:28	1
Silver	<0.010		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:28	1
Vanadium	<0.010		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:28	1
Zinc	0.20	J B	0.50	0.020	mg/L		12/04/20 16:44	12/07/20 12:28	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.47		0.0075	0.0075	mg/L		12/04/20 16:45	12/07/20 10:31	1
Manganese	2.7		0.025	0.010	mg/L		12/04/20 16:45	12/07/20 10:31	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		12/04/20 16:44	12/07/20 16:05	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/04/20 16:44	12/07/20 16:05	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/07/20 09:05	12/08/20 08:18	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.019	0.0064	mg/Kg	✱	12/04/20 13:25	12/07/20 11:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.14		0.28	0.14	mg/Kg	✱	12/08/20 09:57	12/08/20 13:04	1
pH	8.8		0.2	0.2	SU			12/08/20 12:58	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191784-1

Client Sample ID: 3487-1-B05 (0-1.3)

Lab Sample ID: 500-191784-4

Date Collected: 12/01/20 09:00

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 92.4

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	☼	12/01/20 17:52	12/07/20 17:49	1
Benzene	<0.00047		0.0019	0.00047	mg/Kg	☼	12/01/20 17:52	12/07/20 17:49	1
Bromodichloromethane	<0.00038		0.0019	0.00038	mg/Kg	☼	12/01/20 17:52	12/07/20 17:49	1
Bromoform	<0.00054		0.0019	0.00054	mg/Kg	☼	12/01/20 17:52	12/07/20 17:49	1
Bromomethane	<0.0018		0.0046	0.0018	mg/Kg	☼	12/01/20 17:52	12/07/20 17:49	1
2-Butanone (MEK)	<0.0021		0.0046	0.0021	mg/Kg	☼	12/01/20 17:52	12/07/20 17:49	1
Carbon disulfide	<0.00097		0.0046	0.00097	mg/Kg	☼	12/01/20 17:52	12/07/20 17:49	1
Carbon tetrachloride	<0.00054		0.0019	0.00054	mg/Kg	☼	12/01/20 17:52	12/07/20 17:49	1
Chlorobenzene	<0.00069		0.0019	0.00069	mg/Kg	☼	12/01/20 17:52	12/07/20 17:49	1
Chloroethane	<0.0014		0.0046	0.0014	mg/Kg	☼	12/01/20 17:52	12/07/20 17:49	1
Chloroform	<0.00064		0.0019	0.00064	mg/Kg	☼	12/01/20 17:52	12/07/20 17:49	1
Chloromethane	<0.0019		0.0046	0.0019	mg/Kg	☼	12/01/20 17:52	12/07/20 17:49	1
cis-1,2-Dichloroethene	<0.00052		0.0019	0.00052	mg/Kg	☼	12/01/20 17:52	12/07/20 17:49	1
cis-1,3-Dichloropropene	<0.00056		0.0019	0.00056	mg/Kg	☼	12/01/20 17:52	12/07/20 17:49	1
Dibromochloromethane	<0.00061		0.0019	0.00061	mg/Kg	☼	12/01/20 17:52	12/07/20 17:49	1
1,1-Dichloroethane	<0.00064		0.0019	0.00064	mg/Kg	☼	12/01/20 17:52	12/07/20 17:49	1
1,2-Dichloroethane	<0.0014		0.0046	0.0014	mg/Kg	☼	12/01/20 17:52	12/07/20 17:49	1
1,1-Dichloroethene	<0.00064		0.0019	0.00064	mg/Kg	☼	12/01/20 17:52	12/07/20 17:49	1
1,2-Dichloropropene	<0.00048		0.0019	0.00048	mg/Kg	☼	12/01/20 17:52	12/07/20 17:49	1
1,3-Dichloropropene, Total	<0.00065		0.0019	0.00065	mg/Kg	☼	12/01/20 17:52	12/07/20 17:49	1
Ethylbenzene	<0.00089		0.0019	0.00089	mg/Kg	☼	12/01/20 17:52	12/07/20 17:49	1
2-Hexanone	<0.0014		0.0046	0.0014	mg/Kg	☼	12/01/20 17:52	12/07/20 17:49	1
Methylene Chloride	<0.0018		0.0046	0.0018	mg/Kg	☼	12/01/20 17:52	12/07/20 17:49	1
4-Methyl-2-pentanone (MIBK)	<0.0014		0.0046	0.0014	mg/Kg	☼	12/01/20 17:52	12/07/20 17:49	1
Methyl tert-butyl ether	<0.00054		0.0019	0.00054	mg/Kg	☼	12/01/20 17:52	12/07/20 17:49	1
Styrene	<0.00056		0.0019	0.00056	mg/Kg	☼	12/01/20 17:52	12/07/20 17:49	1
1,1,2,2-Tetrachloroethane	<0.00059		0.0019	0.00059	mg/Kg	☼	12/01/20 17:52	12/07/20 17:49	1
Tetrachloroethene	<0.00063		0.0019	0.00063	mg/Kg	☼	12/01/20 17:52	12/07/20 17:49	1
Toluene	<0.00047		0.0019	0.00047	mg/Kg	☼	12/01/20 17:52	12/07/20 17:49	1
trans-1,2-Dichloroethene	<0.00082		0.0019	0.00082	mg/Kg	☼	12/01/20 17:52	12/07/20 17:49	1
trans-1,3-Dichloropropene	<0.00065		0.0019	0.00065	mg/Kg	☼	12/01/20 17:52	12/07/20 17:49	1
1,1,1-Trichloroethane	<0.00062		0.0019	0.00062	mg/Kg	☼	12/01/20 17:52	12/07/20 17:49	1
1,1,2-Trichloroethane	<0.00080		0.0019	0.00080	mg/Kg	☼	12/01/20 17:52	12/07/20 17:49	1
Trichloroethene	<0.00063		0.0019	0.00063	mg/Kg	☼	12/01/20 17:52	12/07/20 17:49	1
Vinyl acetate	<0.0016		0.0046	0.0016	mg/Kg	☼	12/01/20 17:52	12/07/20 17:49	1
Vinyl chloride	<0.00082		0.0019	0.00082	mg/Kg	☼	12/01/20 17:52	12/07/20 17:49	1
Xylenes, Total	<0.00059		0.0037	0.00059	mg/Kg	☼	12/01/20 17:52	12/07/20 17:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		75 - 131	12/01/20 17:52	12/07/20 17:49	1
Dibromofluoromethane	101		75 - 126	12/01/20 17:52	12/07/20 17:49	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	12/01/20 17:52	12/07/20 17:49	1
Toluene-d8 (Surr)	89		75 - 124	12/01/20 17:52	12/07/20 17:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.014	J	0.035	0.0064	mg/Kg	☼	12/03/20 08:38	12/03/20 23:26	1
Acenaphthylene	<0.0047		0.035	0.0047	mg/Kg	☼	12/03/20 08:38	12/03/20 23:26	1
Anthracene	0.0095	J	0.035	0.0059	mg/Kg	☼	12/03/20 08:38	12/03/20 23:26	1
Benzo[a]anthracene	0.12		0.035	0.0048	mg/Kg	☼	12/03/20 08:38	12/03/20 23:26	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191784-1

Client Sample ID: 3487-1-B05 (0-1.3)

Lab Sample ID: 500-191784-4

Date Collected: 12/01/20 09:00

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 92.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.068		0.035	0.0069	mg/Kg	☼	12/03/20 08:38	12/03/20 23:26	1
Benzo[b]fluoranthene	0.15		0.035	0.0076	mg/Kg	☼	12/03/20 08:38	12/03/20 23:26	1
Benzo[g,h,i]perylene	0.048		0.035	0.011	mg/Kg	☼	12/03/20 08:38	12/03/20 23:26	1
Benzo[k]fluoranthene	0.037		0.035	0.010	mg/Kg	☼	12/03/20 08:38	12/03/20 23:26	1
Bis(2-chloroethoxy)methane	<0.036		0.18	0.036	mg/Kg	☼	12/03/20 08:38	12/03/20 23:26	1
Bis(2-chloroethyl)ether	<0.053		0.18	0.053	mg/Kg	☼	12/03/20 08:38	12/03/20 23:26	1
Bis(2-ethylhexyl) phthalate	<0.065		0.18	0.065	mg/Kg	☼	12/03/20 08:38	12/03/20 23:26	1
4-Bromophenyl phenyl ether	<0.047		0.18	0.047	mg/Kg	☼	12/03/20 08:38	12/03/20 23:26	1
Butyl benzyl phthalate	<0.067		0.18	0.067	mg/Kg	☼	12/03/20 08:38	12/03/20 23:26	1
Carbazole	<0.088		0.18	0.088	mg/Kg	☼	12/03/20 08:38	12/03/20 23:26	1
4-Chloroaniline	<0.17		0.71	0.17	mg/Kg	☼	12/03/20 08:38	12/03/20 23:26	1
4-Chloro-3-methylphenol	<0.12		0.35	0.12	mg/Kg	☼	12/03/20 08:38	12/03/20 23:26	1
2-Chloronaphthalene	<0.039		0.18	0.039	mg/Kg	☼	12/03/20 08:38	12/03/20 23:26	1
2-Chlorophenol	<0.060		0.18	0.060	mg/Kg	☼	12/03/20 08:38	12/03/20 23:26	1
4-Chlorophenyl phenyl ether	<0.041		0.18	0.041	mg/Kg	☼	12/03/20 08:38	12/03/20 23:26	1
Chrysene	0.049		0.035	0.0097	mg/Kg	☼	12/03/20 08:38	12/03/20 23:26	1
Dibenz(a,h)anthracene	<0.0068		0.035	0.0068	mg/Kg	☼	12/03/20 08:38	12/03/20 23:26	1
Dibenzofuran	<0.041		0.18	0.041	mg/Kg	☼	12/03/20 08:38	12/03/20 23:26	1
1,2-Dichlorobenzene	<0.042		0.18	0.042	mg/Kg	☼	12/03/20 08:38	12/03/20 23:26	1
1,3-Dichlorobenzene	<0.040		0.18	0.040	mg/Kg	☼	12/03/20 08:38	12/03/20 23:26	1
1,4-Dichlorobenzene	<0.045		0.18	0.045	mg/Kg	☼	12/03/20 08:38	12/03/20 23:26	1
3,3'-Dichlorobenzidine	<0.050		0.18	0.050	mg/Kg	☼	12/03/20 08:38	12/03/20 23:26	1
2,4-Dichlorophenol	<0.084		0.35	0.084	mg/Kg	☼	12/03/20 08:38	12/03/20 23:26	1
Diethyl phthalate	<0.060		0.18	0.060	mg/Kg	☼	12/03/20 08:38	12/03/20 23:26	1
2,4-Dimethylphenol	<0.13		0.35	0.13	mg/Kg	☼	12/03/20 08:38	12/03/20 23:26	1
Dimethyl phthalate	<0.046		0.18	0.046	mg/Kg	☼	12/03/20 08:38	12/03/20 23:26	1
Di-n-butyl phthalate	<0.054		0.18	0.054	mg/Kg	☼	12/03/20 08:38	12/03/20 23:26	1
4,6-Dinitro-2-methylphenol	<0.28		0.71	0.28	mg/Kg	☼	12/03/20 08:38	12/03/20 23:26	1
2,4-Dinitrophenol	<0.62		0.71	0.62	mg/Kg	☼	12/03/20 08:38	12/03/20 23:26	1
2,4-Dinitrotoluene	<0.056		0.18	0.056	mg/Kg	☼	12/03/20 08:38	12/03/20 23:26	1
2,6-Dinitrotoluene	<0.070		0.18	0.070	mg/Kg	☼	12/03/20 08:38	12/03/20 23:26	1
Di-n-octyl phthalate	<0.058		0.18	0.058	mg/Kg	☼	12/03/20 08:38	12/03/20 23:26	1
Fluoranthene	0.15		0.035	0.0066	mg/Kg	☼	12/03/20 08:38	12/03/20 23:26	1
Fluorene	0.0086 J		0.035	0.0050	mg/Kg	☼	12/03/20 08:38	12/03/20 23:26	1
Hexachlorobenzene	<0.0082		0.071	0.0082	mg/Kg	☼	12/03/20 08:38	12/03/20 23:26	1
Hexachlorobutadiene	<0.056		0.18	0.056	mg/Kg	☼	12/03/20 08:38	12/03/20 23:26	1
Hexachlorocyclopentadiene	<0.20		0.71	0.20	mg/Kg	☼	12/03/20 08:38	12/03/20 23:26	1
Hexachloroethane	<0.054		0.18	0.054	mg/Kg	☼	12/03/20 08:38	12/03/20 23:26	1
Indeno[1,2,3-cd]pyrene	0.036		0.035	0.0092	mg/Kg	☼	12/03/20 08:38	12/03/20 23:26	1
Isophorone	<0.040		0.18	0.040	mg/Kg	☼	12/03/20 08:38	12/03/20 23:26	1
2-Methylnaphthalene	0.022 J		0.071	0.0065	mg/Kg	☼	12/03/20 08:38	12/03/20 23:26	1
2-Methylphenol	<0.057		0.18	0.057	mg/Kg	☼	12/03/20 08:38	12/03/20 23:26	1
3 & 4 Methylphenol	<0.059		0.18	0.059	mg/Kg	☼	12/03/20 08:38	12/03/20 23:26	1
Naphthalene	0.014 J		0.035	0.0054	mg/Kg	☼	12/03/20 08:38	12/03/20 23:26	1
2-Nitroaniline	<0.048		0.18	0.048	mg/Kg	☼	12/03/20 08:38	12/03/20 23:26	1
3-Nitroaniline	<0.11		0.35	0.11	mg/Kg	☼	12/03/20 08:38	12/03/20 23:26	1
4-Nitroaniline	<0.15		0.35	0.15	mg/Kg	☼	12/03/20 08:38	12/03/20 23:26	1
Nitrobenzene	<0.0088		0.035	0.0088	mg/Kg	☼	12/03/20 08:38	12/03/20 23:26	1
2-Nitrophenol	<0.084		0.35	0.084	mg/Kg	☼	12/03/20 08:38	12/03/20 23:26	1

Euofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191784-1

Client Sample ID: 3487-1-B05 (0-1.3)

Lab Sample ID: 500-191784-4

Date Collected: 12/01/20 09:00

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 92.4

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	☼	12/03/20 08:38	12/03/20 23:26	1
N-Nitrosodi-n-propylamine	<0.043		0.071	0.043	mg/Kg	☼	12/03/20 08:38	12/03/20 23:26	1
N-Nitrosodiphenylamine	<0.042		0.18	0.042	mg/Kg	☼	12/03/20 08:38	12/03/20 23:26	1
2,2'-oxybis[1-chloropropane]	<0.041		0.18	0.041	mg/Kg	☼	12/03/20 08:38	12/03/20 23:26	1
Pentachlorophenol	<0.57		0.71	0.57	mg/Kg	☼	12/03/20 08:38	12/03/20 23:26	1
Phenanthrene	0.067		0.035	0.0049	mg/Kg	☼	12/03/20 08:38	12/03/20 23:26	1
Phenol	<0.079		0.18	0.079	mg/Kg	☼	12/03/20 08:38	12/03/20 23:26	1
Pyrene	0.16		0.035	0.0070	mg/Kg	☼	12/03/20 08:38	12/03/20 23:26	1
1,2,4-Trichlorobenzene	<0.038		0.18	0.038	mg/Kg	☼	12/03/20 08:38	12/03/20 23:26	1
2,4,5-Trichlorophenol	<0.081		0.35	0.081	mg/Kg	☼	12/03/20 08:38	12/03/20 23:26	1
2,4,6-Trichlorophenol	<0.12		0.35	0.12	mg/Kg	☼	12/03/20 08:38	12/03/20 23:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	75		43 - 145				12/03/20 08:38	12/03/20 23:26	1
2-Fluorophenol	91		31 - 166				12/03/20 08:38	12/03/20 23:26	1
Nitrobenzene-d5	82		37 - 147				12/03/20 08:38	12/03/20 23:26	1
Phenol-d5	86		30 - 153				12/03/20 08:38	12/03/20 23:26	1
Terphenyl-d14	93		42 - 157				12/03/20 08:38	12/03/20 23:26	1
2,4,6-Tribromophenol	82		31 - 143				12/03/20 08:38	12/03/20 23:26	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.83	J B	1.0	0.20	mg/Kg	☼	12/04/20 06:53	12/04/20 17:45	1
Arsenic	5.5		0.51	0.18	mg/Kg	☼	12/04/20 06:53	12/04/20 17:45	1
Barium	53		0.51	0.059	mg/Kg	☼	12/04/20 06:53	12/04/20 17:45	1
Beryllium	0.72		0.21	0.048	mg/Kg	☼	12/04/20 06:53	12/04/20 17:45	1
Cadmium	0.49	B	0.10	0.019	mg/Kg	☼	12/04/20 06:53	12/04/20 17:45	1
Chromium	16		0.51	0.25	mg/Kg	☼	12/04/20 06:53	12/04/20 17:45	1
Cobalt	11		0.26	0.067	mg/Kg	☼	12/04/20 06:53	12/04/20 17:45	1
Copper	22		0.51	0.14	mg/Kg	☼	12/04/20 06:53	12/04/20 17:45	1
Iron	17000		10	5.3	mg/Kg	☼	12/04/20 06:53	12/04/20 17:45	1
Lead	90		0.26	0.12	mg/Kg	☼	12/04/20 06:53	12/04/20 17:45	1
Magnesium	24000		5.1	2.5	mg/Kg	☼	12/04/20 06:53	12/04/20 17:45	1
Calcium	67000		100	17	mg/Kg	☼	12/04/20 06:53	12/07/20 14:16	10
Manganese	520	B	0.51	0.075	mg/Kg	☼	12/04/20 06:53	12/04/20 17:45	1
Nickel	26		0.51	0.15	mg/Kg	☼	12/04/20 06:53	12/04/20 17:45	1
Selenium	0.31	J	0.51	0.30	mg/Kg	☼	12/04/20 06:53	12/04/20 17:45	1
Silver	0.067	J	0.26	0.066	mg/Kg	☼	12/04/20 06:53	12/04/20 17:45	1
Thallium	<0.26		0.51	0.26	mg/Kg	☼	12/04/20 06:53	12/04/20 17:45	1
Vanadium	19		0.26	0.061	mg/Kg	☼	12/04/20 06:53	12/04/20 17:45	1
Zinc	75		1.0	0.45	mg/Kg	☼	12/04/20 06:53	12/04/20 17:45	1
Potassium	2100		26	9.1	mg/Kg	☼	12/04/20 06:53	12/04/20 17:45	1
Sodium	1100		51	7.6	mg/Kg	☼	12/04/20 06:53	12/04/20 17:45	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		12/04/20 16:44	12/07/20 12:32	1
Barium	0.40	J	0.50	0.050	mg/L		12/04/20 16:44	12/07/20 12:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/04/20 16:44	12/07/20 12:32	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		12/04/20 16:44	12/07/20 12:32	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191784-1

Client Sample ID: 3487-1-B05 (0-1.3)

Lab Sample ID: 500-191784-4

Date Collected: 12/01/20 09:00

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 92.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	320		5.0	0.50	mg/L		12/04/20 16:44	12/07/20 12:32	1
Chromium	<0.010		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:32	1
Cobalt	0.033		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:32	1
Copper	<0.010		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:32	1
Iron	0.25	J	0.40	0.20	mg/L		12/04/20 16:44	12/07/20 12:32	1
Lead	0.021		0.0075	0.0075	mg/L		12/04/20 16:44	12/07/20 12:32	1
Magnesium	44		2.5	0.50	mg/L		12/04/20 16:44	12/07/20 12:32	1
Manganese	6.7		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:32	1
Nickel	0.037		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:32	1
Potassium	3.0		2.5	0.50	mg/L		12/04/20 16:44	12/07/20 12:32	1
Selenium	<0.020		0.050	0.020	mg/L		12/04/20 16:44	12/07/20 12:32	1
Silver	<0.010		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:32	1
Vanadium	<0.010		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:32	1
Zinc	0.14	J B	0.50	0.020	mg/L		12/04/20 16:44	12/07/20 12:32	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.25		0.0075	0.0075	mg/L		12/04/20 16:45	12/07/20 10:44	1
Manganese	0.59		0.025	0.010	mg/L		12/04/20 16:45	12/07/20 10:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/04/20 16:44	12/07/20 16:09	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/04/20 16:44	12/07/20 16:09	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		12/07/20 09:05	12/08/20 08:20	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018		0.017	0.0057	mg/Kg	✱	12/04/20 13:25	12/07/20 11:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.11		0.23	0.11	mg/Kg	✱	12/08/20 09:57	12/08/20 13:06	1
pH	8.5		0.2	0.2	SU			12/08/20 13:01	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191784-1

Client Sample ID: 3487-1-B07 (0-1.3)

Lab Sample ID: 500-191784-5

Date Collected: 12/01/20 08:35

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 81.4

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	✳	12/01/20 17:52	12/07/20 18:15	1
Benzene	<0.00045		0.0017	0.00045	mg/Kg	✳	12/01/20 17:52	12/07/20 18:15	1
Bromodichloromethane	<0.00036		0.0017	0.00036	mg/Kg	✳	12/01/20 17:52	12/07/20 18:15	1
Bromoform	<0.00051		0.0017	0.00051	mg/Kg	✳	12/01/20 17:52	12/07/20 18:15	1
Bromomethane	<0.0016		0.0044	0.0016	mg/Kg	✳	12/01/20 17:52	12/07/20 18:15	1
2-Butanone (MEK)	<0.0019		0.0044	0.0019	mg/Kg	✳	12/01/20 17:52	12/07/20 18:15	1
Carbon disulfide	<0.00091		0.0044	0.00091	mg/Kg	✳	12/01/20 17:52	12/07/20 18:15	1
Carbon tetrachloride	<0.00051		0.0017	0.00051	mg/Kg	✳	12/01/20 17:52	12/07/20 18:15	1
Chlorobenzene	<0.00064		0.0017	0.00064	mg/Kg	✳	12/01/20 17:52	12/07/20 18:15	1
Chloroethane	<0.0013		0.0044	0.0013	mg/Kg	✳	12/01/20 17:52	12/07/20 18:15	1
Chloroform	<0.00061		0.0017	0.00061	mg/Kg	✳	12/01/20 17:52	12/07/20 18:15	1
Chloromethane	<0.0018		0.0044	0.0018	mg/Kg	✳	12/01/20 17:52	12/07/20 18:15	1
cis-1,2-Dichloroethene	<0.00049		0.0017	0.00049	mg/Kg	✳	12/01/20 17:52	12/07/20 18:15	1
cis-1,3-Dichloropropene	<0.00053		0.0017	0.00053	mg/Kg	✳	12/01/20 17:52	12/07/20 18:15	1
Dibromochloromethane	<0.00057		0.0017	0.00057	mg/Kg	✳	12/01/20 17:52	12/07/20 18:15	1
1,1-Dichloroethane	<0.00060		0.0017	0.00060	mg/Kg	✳	12/01/20 17:52	12/07/20 18:15	1
1,2-Dichloroethane	<0.0014		0.0044	0.0014	mg/Kg	✳	12/01/20 17:52	12/07/20 18:15	1
1,1-Dichloroethene	<0.00060		0.0017	0.00060	mg/Kg	✳	12/01/20 17:52	12/07/20 18:15	1
1,2-Dichloropropene	<0.00045		0.0017	0.00045	mg/Kg	✳	12/01/20 17:52	12/07/20 18:15	1
1,3-Dichloropropene, Total	<0.00061		0.0017	0.00061	mg/Kg	✳	12/01/20 17:52	12/07/20 18:15	1
Ethylbenzene	<0.00084		0.0017	0.00084	mg/Kg	✳	12/01/20 17:52	12/07/20 18:15	1
2-Hexanone	<0.0014		0.0044	0.0014	mg/Kg	✳	12/01/20 17:52	12/07/20 18:15	1
Methylene Chloride	<0.0017		0.0044	0.0017	mg/Kg	✳	12/01/20 17:52	12/07/20 18:15	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0044	0.0013	mg/Kg	✳	12/01/20 17:52	12/07/20 18:15	1
Methyl tert-butyl ether	<0.00051		0.0017	0.00051	mg/Kg	✳	12/01/20 17:52	12/07/20 18:15	1
Styrene	<0.00053		0.0017	0.00053	mg/Kg	✳	12/01/20 17:52	12/07/20 18:15	1
1,1,2,2-Tetrachloroethane	<0.00056		0.0017	0.00056	mg/Kg	✳	12/01/20 17:52	12/07/20 18:15	1
Tetrachloroethene	<0.00059		0.0017	0.00059	mg/Kg	✳	12/01/20 17:52	12/07/20 18:15	1
Toluene	<0.00044		0.0017	0.00044	mg/Kg	✳	12/01/20 17:52	12/07/20 18:15	1
trans-1,2-Dichloroethene	<0.00077		0.0017	0.00077	mg/Kg	✳	12/01/20 17:52	12/07/20 18:15	1
trans-1,3-Dichloropropene	<0.00061		0.0017	0.00061	mg/Kg	✳	12/01/20 17:52	12/07/20 18:15	1
1,1,1-Trichloroethane	<0.00059		0.0017	0.00059	mg/Kg	✳	12/01/20 17:52	12/07/20 18:15	1
1,1,2-Trichloroethane	<0.00075		0.0017	0.00075	mg/Kg	✳	12/01/20 17:52	12/07/20 18:15	1
Trichloroethene	<0.00059		0.0017	0.00059	mg/Kg	✳	12/01/20 17:52	12/07/20 18:15	1
Vinyl acetate	<0.0015		0.0044	0.0015	mg/Kg	✳	12/01/20 17:52	12/07/20 18:15	1
Vinyl chloride	<0.00077		0.0017	0.00077	mg/Kg	✳	12/01/20 17:52	12/07/20 18:15	1
Xylenes, Total	<0.00056		0.0035	0.00056	mg/Kg	✳	12/01/20 17:52	12/07/20 18:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		75 - 131	12/01/20 17:52	12/07/20 18:15	1
Dibromofluoromethane	100		75 - 126	12/01/20 17:52	12/07/20 18:15	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	12/01/20 17:52	12/07/20 18:15	1
Toluene-d8 (Surr)	87		75 - 124	12/01/20 17:52	12/07/20 18:15	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	✳	12/03/20 08:38	12/03/20 23:54	1
Acenaphthylene	0.0063	J	0.040	0.0053	mg/Kg	✳	12/03/20 08:38	12/03/20 23:54	1
Anthracene	0.013	J	0.040	0.0067	mg/Kg	✳	12/03/20 08:38	12/03/20 23:54	1
Benzo[a]anthracene	0.077		0.040	0.0054	mg/Kg	✳	12/03/20 08:38	12/03/20 23:54	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191784-1

Client Sample ID: 3487-1-B07 (0-1.3)

Lab Sample ID: 500-191784-5

Date Collected: 12/01/20 08:35

Matrix: Solid

Date Received: 12/01/20 17:01

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	0.096		0.040	0.0078	mg/Kg	☼	12/03/20 08:38	12/03/20 23:54	1
Benzo[b]fluoranthene	0.14		0.040	0.0087	mg/Kg	☼	12/03/20 08:38	12/03/20 23:54	1
Benzo[g,h,i]perylene	0.042		0.040	0.013	mg/Kg	☼	12/03/20 08:38	12/03/20 23:54	1
Benzo[k]fluoranthene	0.041		0.040	0.012	mg/Kg	☼	12/03/20 08:38	12/03/20 23:54	1
Bis(2-chloroethoxy)methane	<0.041		0.20	0.041	mg/Kg	☼	12/03/20 08:38	12/03/20 23:54	1
Bis(2-chloroethyl)ether	<0.060		0.20	0.060	mg/Kg	☼	12/03/20 08:38	12/03/20 23:54	1
Bis(2-ethylhexyl) phthalate	<0.073		0.20	0.073	mg/Kg	☼	12/03/20 08:38	12/03/20 23:54	1
4-Bromophenyl phenyl ether	<0.053		0.20	0.053	mg/Kg	☼	12/03/20 08:38	12/03/20 23:54	1
Butyl benzyl phthalate	<0.077		0.20	0.077	mg/Kg	☼	12/03/20 08:38	12/03/20 23:54	1
Carbazole	<0.10		0.20	0.10	mg/Kg	☼	12/03/20 08:38	12/03/20 23:54	1
4-Chloroaniline	<0.19		0.81	0.19	mg/Kg	☼	12/03/20 08:38	12/03/20 23:54	1
4-Chloro-3-methylphenol	<0.14		0.40	0.14	mg/Kg	☼	12/03/20 08:38	12/03/20 23:54	1
2-Chloronaphthalene	<0.044		0.20	0.044	mg/Kg	☼	12/03/20 08:38	12/03/20 23:54	1
2-Chlorophenol	<0.069		0.20	0.069	mg/Kg	☼	12/03/20 08:38	12/03/20 23:54	1
4-Chlorophenyl phenyl ether	<0.047		0.20	0.047	mg/Kg	☼	12/03/20 08:38	12/03/20 23:54	1
Chrysene	0.095		0.040	0.011	mg/Kg	☼	12/03/20 08:38	12/03/20 23:54	1
Dibenz(a,h)anthracene	0.010 J		0.040	0.0078	mg/Kg	☼	12/03/20 08:38	12/03/20 23:54	1
Dibenzofuran	<0.047		0.20	0.047	mg/Kg	☼	12/03/20 08:38	12/03/20 23:54	1
1,2-Dichlorobenzene	<0.048		0.20	0.048	mg/Kg	☼	12/03/20 08:38	12/03/20 23:54	1
1,3-Dichlorobenzene	<0.045		0.20	0.045	mg/Kg	☼	12/03/20 08:38	12/03/20 23:54	1
1,4-Dichlorobenzene	<0.052		0.20	0.052	mg/Kg	☼	12/03/20 08:38	12/03/20 23:54	1
3,3'-Dichlorobenzidine	<0.056		0.20	0.056	mg/Kg	☼	12/03/20 08:38	12/03/20 23:54	1
2,4-Dichlorophenol	<0.096		0.40	0.096	mg/Kg	☼	12/03/20 08:38	12/03/20 23:54	1
Diethyl phthalate	<0.068		0.20	0.068	mg/Kg	☼	12/03/20 08:38	12/03/20 23:54	1
2,4-Dimethylphenol	<0.15		0.40	0.15	mg/Kg	☼	12/03/20 08:38	12/03/20 23:54	1
Dimethyl phthalate	<0.053		0.20	0.053	mg/Kg	☼	12/03/20 08:38	12/03/20 23:54	1
Di-n-butyl phthalate	<0.061		0.20	0.061	mg/Kg	☼	12/03/20 08:38	12/03/20 23:54	1
4,6-Dinitro-2-methylphenol	<0.32		0.81	0.32	mg/Kg	☼	12/03/20 08:38	12/03/20 23:54	1
2,4-Dinitrophenol	<0.71		0.81	0.71	mg/Kg	☼	12/03/20 08:38	12/03/20 23:54	1
2,4-Dinitrotoluene	<0.064		0.20	0.064	mg/Kg	☼	12/03/20 08:38	12/03/20 23:54	1
2,6-Dinitrotoluene	<0.079		0.20	0.079	mg/Kg	☼	12/03/20 08:38	12/03/20 23:54	1
Di-n-octyl phthalate	<0.066		0.20	0.066	mg/Kg	☼	12/03/20 08:38	12/03/20 23:54	1
Fluoranthene	0.16		0.040	0.0075	mg/Kg	☼	12/03/20 08:38	12/03/20 23:54	1
Fluorene	<0.0057		0.040	0.0057	mg/Kg	☼	12/03/20 08:38	12/03/20 23:54	1
Hexachlorobenzene	<0.0093		0.081	0.0093	mg/Kg	☼	12/03/20 08:38	12/03/20 23:54	1
Hexachlorobutadiene	<0.063		0.20	0.063	mg/Kg	☼	12/03/20 08:38	12/03/20 23:54	1
Hexachlorocyclopentadiene	<0.23		0.81	0.23	mg/Kg	☼	12/03/20 08:38	12/03/20 23:54	1
Hexachloroethane	<0.061		0.20	0.061	mg/Kg	☼	12/03/20 08:38	12/03/20 23:54	1
Indeno[1,2,3-cd]pyrene	0.034 J		0.040	0.010	mg/Kg	☼	12/03/20 08:38	12/03/20 23:54	1
Isophorone	<0.045		0.20	0.045	mg/Kg	☼	12/03/20 08:38	12/03/20 23:54	1
2-Methylnaphthalene	<0.0074		0.081	0.0074	mg/Kg	☼	12/03/20 08:38	12/03/20 23:54	1
2-Methylphenol	<0.065		0.20	0.065	mg/Kg	☼	12/03/20 08:38	12/03/20 23:54	1
3 & 4 Methylphenol	<0.067		0.20	0.067	mg/Kg	☼	12/03/20 08:38	12/03/20 23:54	1
Naphthalene	<0.0062		0.040	0.0062	mg/Kg	☼	12/03/20 08:38	12/03/20 23:54	1
2-Nitroaniline	<0.054		0.20	0.054	mg/Kg	☼	12/03/20 08:38	12/03/20 23:54	1
3-Nitroaniline	<0.12		0.40	0.12	mg/Kg	☼	12/03/20 08:38	12/03/20 23:54	1
4-Nitroaniline	<0.17		0.40	0.17	mg/Kg	☼	12/03/20 08:38	12/03/20 23:54	1
Nitrobenzene	<0.010		0.040	0.010	mg/Kg	☼	12/03/20 08:38	12/03/20 23:54	1
2-Nitrophenol	<0.095		0.40	0.095	mg/Kg	☼	12/03/20 08:38	12/03/20 23:54	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191784-1

Client Sample ID: 3487-1-B07 (0-1.3)

Lab Sample ID: 500-191784-5

Date Collected: 12/01/20 08:35

Matrix: Solid

Date Received: 12/01/20 17:01

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	☼	12/03/20 08:38	12/03/20 23:54	1
N-Nitrosodi-n-propylamine	<0.049		0.081	0.049	mg/Kg	☼	12/03/20 08:38	12/03/20 23:54	1
N-Nitrosodiphenylamine	<0.047		0.20	0.047	mg/Kg	☼	12/03/20 08:38	12/03/20 23:54	1
2,2'-oxybis[1-chloropropane]	<0.047		0.20	0.047	mg/Kg	☼	12/03/20 08:38	12/03/20 23:54	1
Pentachlorophenol	<0.65		0.81	0.65	mg/Kg	☼	12/03/20 08:38	12/03/20 23:54	1
Phenanthrene	0.058		0.040	0.0056	mg/Kg	☼	12/03/20 08:38	12/03/20 23:54	1
Phenol	<0.089		0.20	0.089	mg/Kg	☼	12/03/20 08:38	12/03/20 23:54	1
Pyrene	0.14		0.040	0.0080	mg/Kg	☼	12/03/20 08:38	12/03/20 23:54	1
1,2,4-Trichlorobenzene	<0.043		0.20	0.043	mg/Kg	☼	12/03/20 08:38	12/03/20 23:54	1
2,4,5-Trichlorophenol	<0.092		0.40	0.092	mg/Kg	☼	12/03/20 08:38	12/03/20 23:54	1
2,4,6-Trichlorophenol	<0.14		0.40	0.14	mg/Kg	☼	12/03/20 08:38	12/03/20 23:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	58		43 - 145				12/03/20 08:38	12/03/20 23:54	1
2-Fluorophenol	66		31 - 166				12/03/20 08:38	12/03/20 23:54	1
Nitrobenzene-d5	59		37 - 147				12/03/20 08:38	12/03/20 23:54	1
Phenol-d5	62		30 - 153				12/03/20 08:38	12/03/20 23:54	1
Terphenyl-d14	69		42 - 157				12/03/20 08:38	12/03/20 23:54	1
2,4,6-Tribromophenol	47		31 - 143				12/03/20 08:38	12/03/20 23:54	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.75	J B	1.2	0.23	mg/Kg	☼	12/04/20 06:53	12/04/20 17:48	1
Arsenic	6.9		0.59	0.20	mg/Kg	☼	12/04/20 06:53	12/04/20 17:48	1
Barium	52		0.59	0.067	mg/Kg	☼	12/04/20 06:53	12/04/20 17:48	1
Beryllium	0.75		0.24	0.055	mg/Kg	☼	12/04/20 06:53	12/04/20 17:48	1
Cadmium	0.50	B	0.12	0.021	mg/Kg	☼	12/04/20 06:53	12/04/20 17:48	1
Chromium	18		0.59	0.29	mg/Kg	☼	12/04/20 06:53	12/04/20 17:48	1
Cobalt	13		0.29	0.077	mg/Kg	☼	12/04/20 06:53	12/04/20 17:48	1
Copper	28		0.59	0.16	mg/Kg	☼	12/04/20 06:53	12/04/20 17:48	1
Iron	20000		12	6.1	mg/Kg	☼	12/04/20 06:53	12/04/20 17:48	1
Lead	75		0.29	0.14	mg/Kg	☼	12/04/20 06:53	12/04/20 17:48	1
Magnesium	11000		5.9	2.9	mg/Kg	☼	12/04/20 06:53	12/04/20 17:48	1
Calcium	16000		12	2.0	mg/Kg	☼	12/04/20 06:53	12/04/20 17:48	1
Manganese	470	B	0.59	0.085	mg/Kg	☼	12/04/20 06:53	12/04/20 17:48	1
Nickel	24		0.59	0.17	mg/Kg	☼	12/04/20 06:53	12/04/20 17:48	1
Selenium	0.53	J	0.59	0.35	mg/Kg	☼	12/04/20 06:53	12/04/20 17:48	1
Silver	<0.076		0.29	0.076	mg/Kg	☼	12/04/20 06:53	12/04/20 17:48	1
Thallium	<0.29		0.59	0.29	mg/Kg	☼	12/04/20 06:53	12/04/20 17:48	1
Vanadium	24		0.29	0.069	mg/Kg	☼	12/04/20 06:53	12/04/20 17:48	1
Zinc	94		1.2	0.52	mg/Kg	☼	12/04/20 06:53	12/04/20 17:48	1
Potassium	1800		29	10	mg/Kg	☼	12/04/20 06:53	12/04/20 17:48	1
Sodium	1000		59	8.7	mg/Kg	☼	12/04/20 06:53	12/04/20 17:48	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		12/04/20 16:44	12/07/20 12:35	1
Barium	0.32	J	0.50	0.050	mg/L		12/04/20 16:44	12/07/20 12:35	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/04/20 16:44	12/07/20 12:35	1
Cadmium	0.0048	J	0.0050	0.0020	mg/L		12/04/20 16:44	12/07/20 12:35	1

Euofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191784-1

Client Sample ID: 3487-1-B07 (0-1.3)

Lab Sample ID: 500-191784-5

Date Collected: 12/01/20 08:35

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 81.4

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		12/04/20 16:44	12/07/20 12:35	1
Chromium	<0.010		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:35	1
Cobalt	<0.010		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:35	1
Copper	<0.010		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:35	1
Iron	<0.20		0.40	0.20	mg/L		12/04/20 16:44	12/07/20 12:35	1
Lead	0.0081		0.0075	0.0075	mg/L		12/04/20 16:44	12/07/20 12:35	1
Magnesium	100		2.5	0.50	mg/L		12/04/20 16:44	12/07/20 12:35	1
Manganese	3.9		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:35	1
Nickel	0.012	J	0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:35	1
Potassium	2.2	J	2.5	0.50	mg/L		12/04/20 16:44	12/07/20 12:35	1
Selenium	<0.020		0.050	0.020	mg/L		12/04/20 16:44	12/07/20 12:35	1
Silver	<0.010		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:35	1
Vanadium	<0.010		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:35	1
Zinc	0.089	J B	0.50	0.020	mg/L		12/04/20 16:44	12/07/20 12:35	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.48		0.0075	0.0075	mg/L		12/04/20 16:45	12/07/20 10:47	1
Manganese	1.1		0.025	0.010	mg/L		12/04/20 16:45	12/07/20 10:47	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		12/04/20 16:44	12/07/20 16:12	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/04/20 16:44	12/07/20 16:12	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		12/07/20 09:05	12/08/20 08:28	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	✱	12/04/20 13:25	12/07/20 11:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.17	J	0.29	0.15	mg/Kg	✱	12/08/20 09:57	12/08/20 13:08	1
pH	8.8		0.2	0.2	SU			12/08/20 13:03	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191784-1

Client Sample ID: 3487-1-B08 (0-1.3)

Lab Sample ID: 500-191784-6

Date Collected: 12/01/20 08:15

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 82.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0087		0.020	0.0087	mg/Kg	☼	12/01/20 17:52	12/07/20 18:40	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg	☼	12/01/20 17:52	12/07/20 18:40	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg	☼	12/01/20 17:52	12/07/20 18:40	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg	☼	12/01/20 17:52	12/07/20 18:40	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg	☼	12/01/20 17:52	12/07/20 18:40	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg	☼	12/01/20 17:52	12/07/20 18:40	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg	☼	12/01/20 17:52	12/07/20 18:40	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg	☼	12/01/20 17:52	12/07/20 18:40	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg	☼	12/01/20 17:52	12/07/20 18:40	1
Chloroethane	<0.0015		0.0050	0.0015	mg/Kg	☼	12/01/20 17:52	12/07/20 18:40	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg	☼	12/01/20 17:52	12/07/20 18:40	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg	☼	12/01/20 17:52	12/07/20 18:40	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg	☼	12/01/20 17:52	12/07/20 18:40	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg	☼	12/01/20 17:52	12/07/20 18:40	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg	☼	12/01/20 17:52	12/07/20 18:40	1
1,1-Dichloroethane	<0.00068		0.0020	0.00068	mg/Kg	☼	12/01/20 17:52	12/07/20 18:40	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg	☼	12/01/20 17:52	12/07/20 18:40	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg	☼	12/01/20 17:52	12/07/20 18:40	1
1,2-Dichloropropene	<0.00052		0.0020	0.00052	mg/Kg	☼	12/01/20 17:52	12/07/20 18:40	1
1,3-Dichloropropene, Total	<0.00070		0.0020	0.00070	mg/Kg	☼	12/01/20 17:52	12/07/20 18:40	1
Ethylbenzene	<0.00095		0.0020	0.00095	mg/Kg	☼	12/01/20 17:52	12/07/20 18:40	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg	☼	12/01/20 17:52	12/07/20 18:40	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg	☼	12/01/20 17:52	12/07/20 18:40	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg	☼	12/01/20 17:52	12/07/20 18:40	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg	☼	12/01/20 17:52	12/07/20 18:40	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg	☼	12/01/20 17:52	12/07/20 18:40	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg	☼	12/01/20 17:52	12/07/20 18:40	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg	☼	12/01/20 17:52	12/07/20 18:40	1
Toluene	<0.00050		0.0020	0.00050	mg/Kg	☼	12/01/20 17:52	12/07/20 18:40	1
trans-1,2-Dichloroethene	<0.00088		0.0020	0.00088	mg/Kg	☼	12/01/20 17:52	12/07/20 18:40	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg	☼	12/01/20 17:52	12/07/20 18:40	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg	☼	12/01/20 17:52	12/07/20 18:40	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg	☼	12/01/20 17:52	12/07/20 18:40	1
Trichloroethene	<0.00067		0.0020	0.00067	mg/Kg	☼	12/01/20 17:52	12/07/20 18:40	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg	☼	12/01/20 17:52	12/07/20 18:40	1
Vinyl chloride	<0.00088		0.0020	0.00088	mg/Kg	☼	12/01/20 17:52	12/07/20 18:40	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg	☼	12/01/20 17:52	12/07/20 18:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		75 - 131	12/01/20 17:52	12/07/20 18:40	1
Dibromofluoromethane	99		75 - 126	12/01/20 17:52	12/07/20 18:40	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 134	12/01/20 17:52	12/07/20 18:40	1
Toluene-d8 (Surr)	88		75 - 124	12/01/20 17:52	12/07/20 18:40	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	☼	12/03/20 08:38	12/03/20 21:37	1
Acenaphthylene	<0.0053		0.040	0.0053	mg/Kg	☼	12/03/20 08:38	12/03/20 21:37	1
Anthracene	<0.0067		0.040	0.0067	mg/Kg	☼	12/03/20 08:38	12/03/20 21:37	1
Benzo[a]anthracene	<0.0054		0.040	0.0054	mg/Kg	☼	12/03/20 08:38	12/03/20 21:37	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191784-1

Client Sample ID: 3487-1-B08 (0-1.3)

Lab Sample ID: 500-191784-6

Date Collected: 12/01/20 08:15

Matrix: Solid

Date Received: 12/01/20 17:01

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	<0.0077		0.040	0.0077	mg/Kg	☼	12/03/20 08:38	12/03/20 21:37	1
Benzo[b]fluoranthene	<0.0086		0.040	0.0086	mg/Kg	☼	12/03/20 08:38	12/03/20 21:37	1
Benzo[g,h,i]perylene	<0.013		0.040	0.013	mg/Kg	☼	12/03/20 08:38	12/03/20 21:37	1
Benzo[k]fluoranthene	<0.012		0.040	0.012	mg/Kg	☼	12/03/20 08:38	12/03/20 21:37	1
Bis(2-chloroethoxy)methane	<0.041		0.20	0.041	mg/Kg	☼	12/03/20 08:38	12/03/20 21:37	1
Bis(2-chloroethyl)ether	<0.060		0.20	0.060	mg/Kg	☼	12/03/20 08:38	12/03/20 21:37	1
Bis(2-ethylhexyl) phthalate	<0.073		0.20	0.073	mg/Kg	☼	12/03/20 08:38	12/03/20 21:37	1
4-Bromophenyl phenyl ether	<0.053		0.20	0.053	mg/Kg	☼	12/03/20 08:38	12/03/20 21:37	1
Butyl benzyl phthalate	<0.076		0.20	0.076	mg/Kg	☼	12/03/20 08:38	12/03/20 21:37	1
Carbazole	<0.10		0.20	0.10	mg/Kg	☼	12/03/20 08:38	12/03/20 21:37	1
4-Chloroaniline	<0.19		0.81	0.19	mg/Kg	☼	12/03/20 08:38	12/03/20 21:37	1
4-Chloro-3-methylphenol	<0.14		0.40	0.14	mg/Kg	☼	12/03/20 08:38	12/03/20 21:37	1
2-Chloronaphthalene	<0.044		0.20	0.044	mg/Kg	☼	12/03/20 08:38	12/03/20 21:37	1
2-Chlorophenol	<0.068		0.20	0.068	mg/Kg	☼	12/03/20 08:38	12/03/20 21:37	1
4-Chlorophenyl phenyl ether	<0.047		0.20	0.047	mg/Kg	☼	12/03/20 08:38	12/03/20 21:37	1
Chrysene	<0.011		0.040	0.011	mg/Kg	☼	12/03/20 08:38	12/03/20 21:37	1
Dibenz(a,h)anthracene	<0.0077		0.040	0.0077	mg/Kg	☼	12/03/20 08:38	12/03/20 21:37	1
Dibenzofuran	<0.047		0.20	0.047	mg/Kg	☼	12/03/20 08:38	12/03/20 21:37	1
1,2-Dichlorobenzene	<0.048		0.20	0.048	mg/Kg	☼	12/03/20 08:38	12/03/20 21:37	1
1,3-Dichlorobenzene	<0.045		0.20	0.045	mg/Kg	☼	12/03/20 08:38	12/03/20 21:37	1
1,4-Dichlorobenzene	<0.051		0.20	0.051	mg/Kg	☼	12/03/20 08:38	12/03/20 21:37	1
3,3'-Dichlorobenzidine	<0.056		0.20	0.056	mg/Kg	☼	12/03/20 08:38	12/03/20 21:37	1
2,4-Dichlorophenol	<0.095		0.40	0.095	mg/Kg	☼	12/03/20 08:38	12/03/20 21:37	1
Diethyl phthalate	<0.068		0.20	0.068	mg/Kg	☼	12/03/20 08:38	12/03/20 21:37	1
2,4-Dimethylphenol	<0.15		0.40	0.15	mg/Kg	☼	12/03/20 08:38	12/03/20 21:37	1
Dimethyl phthalate	<0.052		0.20	0.052	mg/Kg	☼	12/03/20 08:38	12/03/20 21:37	1
Di-n-butyl phthalate	<0.061		0.20	0.061	mg/Kg	☼	12/03/20 08:38	12/03/20 21:37	1
4,6-Dinitro-2-methylphenol	<0.32		0.81	0.32	mg/Kg	☼	12/03/20 08:38	12/03/20 21:37	1
2,4-Dinitrophenol	<0.70		0.81	0.70	mg/Kg	☼	12/03/20 08:38	12/03/20 21:37	1
2,4-Dinitrotoluene	<0.064		0.20	0.064	mg/Kg	☼	12/03/20 08:38	12/03/20 21:37	1
2,6-Dinitrotoluene	<0.079		0.20	0.079	mg/Kg	☼	12/03/20 08:38	12/03/20 21:37	1
Di-n-octyl phthalate	<0.065		0.20	0.065	mg/Kg	☼	12/03/20 08:38	12/03/20 21:37	1
Fluoranthene	<0.0074		0.040	0.0074	mg/Kg	☼	12/03/20 08:38	12/03/20 21:37	1
Fluorene	<0.0056		0.040	0.0056	mg/Kg	☼	12/03/20 08:38	12/03/20 21:37	1
Hexachlorobenzene	<0.0093		0.081	0.0093	mg/Kg	☼	12/03/20 08:38	12/03/20 21:37	1
Hexachlorobutadiene	<0.063		0.20	0.063	mg/Kg	☼	12/03/20 08:38	12/03/20 21:37	1
Hexachlorocyclopentadiene	<0.23		0.81	0.23	mg/Kg	☼	12/03/20 08:38	12/03/20 21:37	1
Hexachloroethane	<0.061		0.20	0.061	mg/Kg	☼	12/03/20 08:38	12/03/20 21:37	1
Indeno[1,2,3-cd]pyrene	<0.010		0.040	0.010	mg/Kg	☼	12/03/20 08:38	12/03/20 21:37	1
Isophorone	<0.045		0.20	0.045	mg/Kg	☼	12/03/20 08:38	12/03/20 21:37	1
2-Methylnaphthalene	<0.0073		0.081	0.0073	mg/Kg	☼	12/03/20 08:38	12/03/20 21:37	1
2-Methylphenol	<0.064		0.20	0.064	mg/Kg	☼	12/03/20 08:38	12/03/20 21:37	1
3 & 4 Methylphenol	<0.067		0.20	0.067	mg/Kg	☼	12/03/20 08:38	12/03/20 21:37	1
Naphthalene	<0.0061		0.040	0.0061	mg/Kg	☼	12/03/20 08:38	12/03/20 21:37	1
2-Nitroaniline	<0.054		0.20	0.054	mg/Kg	☼	12/03/20 08:38	12/03/20 21:37	1
3-Nitroaniline	<0.12		0.40	0.12	mg/Kg	☼	12/03/20 08:38	12/03/20 21:37	1
4-Nitroaniline	<0.17		0.40	0.17	mg/Kg	☼	12/03/20 08:38	12/03/20 21:37	1
Nitrobenzene	<0.010		0.040	0.010	mg/Kg	☼	12/03/20 08:38	12/03/20 21:37	1
2-Nitrophenol	<0.094		0.40	0.094	mg/Kg	☼	12/03/20 08:38	12/03/20 21:37	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191784-1

Client Sample ID: 3487-1-B08 (0-1.3)

Lab Sample ID: 500-191784-6

Date Collected: 12/01/20 08:15

Matrix: Solid

Date Received: 12/01/20 17:01

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	<0.38		0.81	0.38	mg/Kg	☼	12/03/20 08:38	12/03/20 21:37	1
N-Nitrosodi-n-propylamine	<0.049		0.081	0.049	mg/Kg	☼	12/03/20 08:38	12/03/20 21:37	1
N-Nitrosodiphenylamine	<0.047		0.20	0.047	mg/Kg	☼	12/03/20 08:38	12/03/20 21:37	1
2,2'-oxybis[1-chloropropane]	<0.046		0.20	0.046	mg/Kg	☼	12/03/20 08:38	12/03/20 21:37	1
Pentachlorophenol	<0.64		0.81	0.64	mg/Kg	☼	12/03/20 08:38	12/03/20 21:37	1
Phenanthrene	<0.0056		0.040	0.0056	mg/Kg	☼	12/03/20 08:38	12/03/20 21:37	1
Phenol	<0.089		0.20	0.089	mg/Kg	☼	12/03/20 08:38	12/03/20 21:37	1
Pyrene	<0.0079		0.040	0.0079	mg/Kg	☼	12/03/20 08:38	12/03/20 21:37	1
1,2,4-Trichlorobenzene	<0.043		0.20	0.043	mg/Kg	☼	12/03/20 08:38	12/03/20 21:37	1
2,4,5-Trichlorophenol	<0.091		0.40	0.091	mg/Kg	☼	12/03/20 08:38	12/03/20 21:37	1
2,4,6-Trichlorophenol	<0.14		0.40	0.14	mg/Kg	☼	12/03/20 08:38	12/03/20 21:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	75		43 - 145				12/03/20 08:38	12/03/20 21:37	1
2-Fluorophenol	98		31 - 166				12/03/20 08:38	12/03/20 21:37	1
Nitrobenzene-d5	80		37 - 147				12/03/20 08:38	12/03/20 21:37	1
Phenol-d5	91		30 - 153				12/03/20 08:38	12/03/20 21:37	1
Terphenyl-d14	98		42 - 157				12/03/20 08:38	12/03/20 21:37	1
2,4,6-Tribromophenol	80		31 - 143				12/03/20 08:38	12/03/20 21:37	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.95	J B	1.1	0.22	mg/Kg	☼	12/04/20 06:53	12/04/20 17:51	1
Arsenic	6.9		0.56	0.19	mg/Kg	☼	12/04/20 06:53	12/04/20 17:51	1
Barium	49		0.56	0.064	mg/Kg	☼	12/04/20 06:53	12/04/20 17:51	1
Beryllium	0.78		0.22	0.053	mg/Kg	☼	12/04/20 06:53	12/04/20 17:51	1
Cadmium	0.45	B	0.11	0.020	mg/Kg	☼	12/04/20 06:53	12/04/20 17:51	1
Chromium	17		0.56	0.28	mg/Kg	☼	12/04/20 06:53	12/04/20 17:51	1
Cobalt	12		0.28	0.074	mg/Kg	☼	12/04/20 06:53	12/04/20 17:51	1
Copper	26		0.56	0.16	mg/Kg	☼	12/04/20 06:53	12/04/20 17:51	1
Iron	19000		11	5.8	mg/Kg	☼	12/04/20 06:53	12/04/20 17:51	1
Lead	67		0.28	0.13	mg/Kg	☼	12/04/20 06:53	12/04/20 17:51	1
Magnesium	28000		5.6	2.8	mg/Kg	☼	12/04/20 06:53	12/04/20 17:51	1
Calcium	71000		110	19	mg/Kg	☼	12/04/20 06:53	12/07/20 14:19	10
Manganese	500	B	0.56	0.082	mg/Kg	☼	12/04/20 06:53	12/04/20 17:51	1
Nickel	29		0.56	0.16	mg/Kg	☼	12/04/20 06:53	12/04/20 17:51	1
Selenium	<0.33		0.56	0.33	mg/Kg	☼	12/04/20 06:53	12/04/20 17:51	1
Silver	<0.073		0.28	0.073	mg/Kg	☼	12/04/20 06:53	12/04/20 17:51	1
Thallium	<0.28		0.56	0.28	mg/Kg	☼	12/04/20 06:53	12/04/20 17:51	1
Vanadium	22		0.28	0.066	mg/Kg	☼	12/04/20 06:53	12/04/20 17:51	1
Zinc	96		1.1	0.49	mg/Kg	☼	12/04/20 06:53	12/04/20 17:51	1
Potassium	2000		28	10	mg/Kg	☼	12/04/20 06:53	12/04/20 17:51	1
Sodium	1100		56	8.3	mg/Kg	☼	12/04/20 06:53	12/04/20 17:51	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		12/04/20 16:44	12/07/20 12:38	1
Barium	0.40	J	0.50	0.050	mg/L		12/04/20 16:44	12/07/20 12:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/04/20 16:44	12/07/20 12:38	1
Cadmium	0.0032	J	0.0050	0.0020	mg/L		12/04/20 16:44	12/07/20 12:38	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191784-1

Client Sample ID: 3487-1-B08 (0-1.3)

Lab Sample ID: 500-191784-6

Date Collected: 12/01/20 08:15

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 82.9

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		12/04/20 16:44	12/07/20 12:38	1
Chromium	<0.010		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:38	1
Cobalt	0.026		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:38	1
Copper	<0.010		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:38	1
Iron	<0.20		0.40	0.20	mg/L		12/04/20 16:44	12/07/20 12:38	1
Lead	0.015		0.0075	0.0075	mg/L		12/04/20 16:44	12/07/20 12:38	1
Magnesium	70		2.5	0.50	mg/L		12/04/20 16:44	12/07/20 12:38	1
Manganese	7.4		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:38	1
Nickel	0.022	J	0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:38	1
Potassium	1.3	J	2.5	0.50	mg/L		12/04/20 16:44	12/07/20 12:38	1
Selenium	<0.020		0.050	0.020	mg/L		12/04/20 16:44	12/07/20 12:38	1
Silver	<0.010		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:38	1
Vanadium	<0.010		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 12:38	1
Zinc	0.037	J B	0.50	0.020	mg/L		12/04/20 16:44	12/07/20 12:38	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.63		0.0075	0.0075	mg/L		12/04/20 16:45	12/07/20 10:50	1
Manganese	1.5	F1	0.025	0.010	mg/L		12/04/20 16:45	12/07/20 10:50	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		12/04/20 16:44	12/07/20 16:16	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/04/20 16:44	12/07/20 16:16	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		12/07/20 09:05	12/08/20 08:30	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.019	0.0063	mg/Kg	✱	12/04/20 13:25	12/07/20 11:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.14		0.28	0.14	mg/Kg	✱	12/08/20 09:57	12/08/20 13:13	1
pH	8.7		0.2	0.2	SU			12/08/20 13:06	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191784-1

Qualifiers

GC/MS 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.

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
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.
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 - Lake County - WO 073

Job ID: 500-191784-1

GC/MS VOA

Prep Batch: 574851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191784-1	3487-1-B01 (0-6)	Total/NA	Solid	5035	
500-191784-2	3487-1-B01 (6-11.4)	Total/NA	Solid	5035	
500-191784-3	3487-1-B03 (0-1.3)	Total/NA	Solid	5035	
500-191784-4	3487-1-B05 (0-1.3)	Total/NA	Solid	5035	
500-191784-5	3487-1-B07 (0-1.3)	Total/NA	Solid	5035	
500-191784-6	3487-1-B08 (0-1.3)	Total/NA	Solid	5035	

Analysis Batch: 575544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191784-1	3487-1-B01 (0-6)	Total/NA	Solid	8260B	574851
500-191784-2	3487-1-B01 (6-11.4)	Total/NA	Solid	8260B	574851
500-191784-3	3487-1-B03 (0-1.3)	Total/NA	Solid	8260B	574851
500-191784-4	3487-1-B05 (0-1.3)	Total/NA	Solid	8260B	574851
500-191784-5	3487-1-B07 (0-1.3)	Total/NA	Solid	8260B	574851
500-191784-6	3487-1-B08 (0-1.3)	Total/NA	Solid	8260B	574851
MB 500-575544/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-575544/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-575544/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 575123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191784-1	3487-1-B01 (0-6)	Total/NA	Solid	3541	
500-191784-2	3487-1-B01 (6-11.4)	Total/NA	Solid	3541	
500-191784-3	3487-1-B03 (0-1.3)	Total/NA	Solid	3541	
500-191784-4	3487-1-B05 (0-1.3)	Total/NA	Solid	3541	
500-191784-5	3487-1-B07 (0-1.3)	Total/NA	Solid	3541	
500-191784-6	3487-1-B08 (0-1.3)	Total/NA	Solid	3541	
MB 500-575123/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-575123/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 575255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191784-1	3487-1-B01 (0-6)	Total/NA	Solid	8270D	575123
500-191784-2	3487-1-B01 (6-11.4)	Total/NA	Solid	8270D	575123
500-191784-3	3487-1-B03 (0-1.3)	Total/NA	Solid	8270D	575123
500-191784-4	3487-1-B05 (0-1.3)	Total/NA	Solid	8270D	575123
500-191784-5	3487-1-B07 (0-1.3)	Total/NA	Solid	8270D	575123
500-191784-6	3487-1-B08 (0-1.3)	Total/NA	Solid	8270D	575123
MB 500-575123/1-A	Method Blank	Total/NA	Solid	8270D	575123
LCS 500-575123/2-A	Lab Control Sample	Total/NA	Solid	8270D	575123

Metals

Leach Batch: 575210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191784-1	3487-1-B01 (0-6)	TCLP	Solid	1311	
500-191784-2	3487-1-B01 (6-11.4)	TCLP	Solid	1311	
500-191784-3	3487-1-B03 (0-1.3)	TCLP	Solid	1311	
500-191784-4	3487-1-B05 (0-1.3)	TCLP	Solid	1311	
500-191784-5	3487-1-B07 (0-1.3)	TCLP	Solid	1311	

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191784-1

Metals (Continued)

Leach Batch: 575210 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191784-6	3487-1-B08 (0-1.3)	TCLP	Solid	1311	
LB 500-575210/1-B	Method Blank	TCLP	Solid	1311	
LB 500-575210/1-C	Method Blank	TCLP	Solid	1311	
500-191784-4 MS	3487-1-B05 (0-1.3)	TCLP	Solid	1311	
500-191784-4 MSD	3487-1-B05 (0-1.3)	TCLP	Solid	1311	
500-191784-6 MS	3487-1-B08 (0-1.3)	TCLP	Solid	1311	
500-191784-4 DU	3487-1-B05 (0-1.3)	TCLP	Solid	1311	
500-191784-6 DU	3487-1-B08 (0-1.3)	TCLP	Solid	1311	

Leach Batch: 575212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191784-1	3487-1-B01 (0-6)	SPLP East	Solid	1312	
500-191784-2	3487-1-B01 (6-11.4)	SPLP East	Solid	1312	
500-191784-3	3487-1-B03 (0-1.3)	SPLP East	Solid	1312	
500-191784-4	3487-1-B05 (0-1.3)	SPLP East	Solid	1312	
500-191784-5	3487-1-B07 (0-1.3)	SPLP East	Solid	1312	
500-191784-6	3487-1-B08 (0-1.3)	SPLP East	Solid	1312	
LB 500-575212/1-B	Method Blank	SPLP East	Solid	1312	
500-191784-6 MS	3487-1-B08 (0-1.3)	SPLP East	Solid	1312	
500-191784-6 DU	3487-1-B08 (0-1.3)	SPLP East	Solid	1312	

Prep Batch: 575329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191784-1	3487-1-B01 (0-6)	Total/NA	Solid	3050B	
500-191784-2	3487-1-B01 (6-11.4)	Total/NA	Solid	3050B	
500-191784-3	3487-1-B03 (0-1.3)	Total/NA	Solid	3050B	
500-191784-4	3487-1-B05 (0-1.3)	Total/NA	Solid	3050B	
500-191784-5	3487-1-B07 (0-1.3)	Total/NA	Solid	3050B	
500-191784-6	3487-1-B08 (0-1.3)	Total/NA	Solid	3050B	
MB 500-575329/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-575329/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 575358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191784-1	3487-1-B01 (0-6)	Total/NA	Solid	7471B	
500-191784-2	3487-1-B01 (6-11.4)	Total/NA	Solid	7471B	
500-191784-3	3487-1-B03 (0-1.3)	Total/NA	Solid	7471B	
500-191784-4	3487-1-B05 (0-1.3)	Total/NA	Solid	7471B	
500-191784-5	3487-1-B07 (0-1.3)	Total/NA	Solid	7471B	
500-191784-6	3487-1-B08 (0-1.3)	Total/NA	Solid	7471B	
MB 500-575358/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-575358/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Prep Batch: 575434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191784-1	3487-1-B01 (0-6)	TCLP	Solid	3010A	575210
500-191784-2	3487-1-B01 (6-11.4)	TCLP	Solid	3010A	575210
500-191784-3	3487-1-B03 (0-1.3)	TCLP	Solid	3010A	575210
500-191784-4	3487-1-B05 (0-1.3)	TCLP	Solid	3010A	575210
500-191784-5	3487-1-B07 (0-1.3)	TCLP	Solid	3010A	575210
500-191784-6	3487-1-B08 (0-1.3)	TCLP	Solid	3010A	575210

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191784-1

Metals (Continued)

Prep Batch: 575434 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 500-575210/1-B	Method Blank	TCLP	Solid	3010A	575210
LCS 500-575434/2-A	Lab Control Sample	Total/NA	Solid	3010A	
LCS 500-575434/2-A ^2	Lab Control Sample	Total/NA	Solid	3010A	
500-191784-6 MS	3487-1-B08 (0-1.3)	TCLP	Solid	3010A	575210
500-191784-6 DU	3487-1-B08 (0-1.3)	TCLP	Solid	3010A	575210

Prep Batch: 575435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191784-1	3487-1-B01 (0-6)	SPLP East	Solid	3010A	575212
500-191784-2	3487-1-B01 (6-11.4)	SPLP East	Solid	3010A	575212
500-191784-3	3487-1-B03 (0-1.3)	SPLP East	Solid	3010A	575212
500-191784-4	3487-1-B05 (0-1.3)	SPLP East	Solid	3010A	575212
500-191784-5	3487-1-B07 (0-1.3)	SPLP East	Solid	3010A	575212
500-191784-6	3487-1-B08 (0-1.3)	SPLP East	Solid	3010A	575212
LB 500-575212/1-B	Method Blank	SPLP East	Solid	3010A	575212
LCS 500-575435/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-191784-6 MS	3487-1-B08 (0-1.3)	SPLP East	Solid	3010A	575212
500-191784-6 DU	3487-1-B08 (0-1.3)	SPLP East	Solid	3010A	575212

Analysis Batch: 575564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191784-1	3487-1-B01 (0-6)	Total/NA	Solid	6010B	575329
500-191784-2	3487-1-B01 (6-11.4)	Total/NA	Solid	6010B	575329
500-191784-3	3487-1-B03 (0-1.3)	Total/NA	Solid	6010B	575329
500-191784-4	3487-1-B05 (0-1.3)	Total/NA	Solid	6010B	575329
500-191784-5	3487-1-B07 (0-1.3)	Total/NA	Solid	6010B	575329
500-191784-6	3487-1-B08 (0-1.3)	Total/NA	Solid	6010B	575329
MB 500-575329/1-A	Method Blank	Total/NA	Solid	6010B	575329
LCS 500-575329/2-A	Lab Control Sample	Total/NA	Solid	6010B	575329

Prep Batch: 575600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191784-1	3487-1-B01 (0-6)	TCLP	Solid	7470A	575210
500-191784-2	3487-1-B01 (6-11.4)	TCLP	Solid	7470A	575210
500-191784-3	3487-1-B03 (0-1.3)	TCLP	Solid	7470A	575210
500-191784-4	3487-1-B05 (0-1.3)	TCLP	Solid	7470A	575210
500-191784-5	3487-1-B07 (0-1.3)	TCLP	Solid	7470A	575210
500-191784-6	3487-1-B08 (0-1.3)	TCLP	Solid	7470A	575210
LB 500-575210/1-C	Method Blank	TCLP	Solid	7470A	575210
MB 500-575600/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-575600/15-A	Lab Control Sample	Total/NA	Solid	7470A	
500-191784-4 MS	3487-1-B05 (0-1.3)	TCLP	Solid	7470A	575210
500-191784-4 MSD	3487-1-B05 (0-1.3)	TCLP	Solid	7470A	575210
500-191784-4 DU	3487-1-B05 (0-1.3)	TCLP	Solid	7470A	575210

Analysis Batch: 575661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191784-1	3487-1-B01 (0-6)	Total/NA	Solid	7471B	575358
500-191784-2	3487-1-B01 (6-11.4)	Total/NA	Solid	7471B	575358
500-191784-3	3487-1-B03 (0-1.3)	Total/NA	Solid	7471B	575358
500-191784-4	3487-1-B05 (0-1.3)	Total/NA	Solid	7471B	575358

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191784-1

Metals (Continued)

Analysis Batch: 575661 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191784-5	3487-1-B07 (0-1.3)	Total/NA	Solid	7471B	575358
500-191784-6	3487-1-B08 (0-1.3)	Total/NA	Solid	7471B	575358
MB 500-575358/12-A	Method Blank	Total/NA	Solid	7471B	575358
LCS 500-575358/13-A	Lab Control Sample	Total/NA	Solid	7471B	575358

Analysis Batch: 575686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191784-1	3487-1-B01 (0-6)	TCLP	Solid	6010B	575434
500-191784-2	3487-1-B01 (6-11.4)	TCLP	Solid	6010B	575434
500-191784-3	3487-1-B03 (0-1.3)	TCLP	Solid	6010B	575434
500-191784-4	3487-1-B05 (0-1.3)	TCLP	Solid	6010B	575434
500-191784-5	3487-1-B07 (0-1.3)	TCLP	Solid	6010B	575434
500-191784-6	3487-1-B08 (0-1.3)	TCLP	Solid	6010B	575434
LB 500-575210/1-B	Method Blank	TCLP	Solid	6010B	575434
LCS 500-575434/2-A	Lab Control Sample	Total/NA	Solid	6010B	575434
500-191784-6 MS	3487-1-B08 (0-1.3)	TCLP	Solid	6010B	575434
500-191784-6 DU	3487-1-B08 (0-1.3)	TCLP	Solid	6010B	575434

Analysis Batch: 575790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191784-1	3487-1-B01 (0-6)	SPLP East	Solid	6010B	575435
500-191784-2	3487-1-B01 (6-11.4)	SPLP East	Solid	6010B	575435
500-191784-2	3487-1-B01 (6-11.4)	Total/NA	Solid	6010B	575329
500-191784-3	3487-1-B03 (0-1.3)	SPLP East	Solid	6010B	575435
500-191784-4	3487-1-B05 (0-1.3)	SPLP East	Solid	6010B	575435
500-191784-4	3487-1-B05 (0-1.3)	Total/NA	Solid	6010B	575329
500-191784-5	3487-1-B07 (0-1.3)	SPLP East	Solid	6010B	575435
500-191784-6	3487-1-B08 (0-1.3)	SPLP East	Solid	6010B	575435
500-191784-6	3487-1-B08 (0-1.3)	Total/NA	Solid	6010B	575329
LB 500-575212/1-B	Method Blank	SPLP East	Solid	6010B	575435
LCS 500-575435/2-A	Lab Control Sample	Total/NA	Solid	6010B	575435
500-191784-6 MS	3487-1-B08 (0-1.3)	SPLP East	Solid	6010B	575435
500-191784-6 DU	3487-1-B08 (0-1.3)	SPLP East	Solid	6010B	575435

Analysis Batch: 575796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191784-1	3487-1-B01 (0-6)	TCLP	Solid	7470A	575600
500-191784-2	3487-1-B01 (6-11.4)	TCLP	Solid	7470A	575600
500-191784-3	3487-1-B03 (0-1.3)	TCLP	Solid	7470A	575600
500-191784-4	3487-1-B05 (0-1.3)	TCLP	Solid	7470A	575600
500-191784-5	3487-1-B07 (0-1.3)	TCLP	Solid	7470A	575600
500-191784-6	3487-1-B08 (0-1.3)	TCLP	Solid	7470A	575600
LB 500-575210/1-C	Method Blank	TCLP	Solid	7470A	575600
MB 500-575600/12-A	Method Blank	Total/NA	Solid	7470A	575600
LCS 500-575600/15-A	Lab Control Sample	Total/NA	Solid	7470A	575600
500-191784-4 MS	3487-1-B05 (0-1.3)	TCLP	Solid	7470A	575600
500-191784-4 MSD	3487-1-B05 (0-1.3)	TCLP	Solid	7470A	575600
500-191784-4 DU	3487-1-B05 (0-1.3)	TCLP	Solid	7470A	575600

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191784-1

Metals

Analysis Batch: 575822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191784-1	3487-1-B01 (0-6)	TCLP	Solid	6020A	575434
500-191784-2	3487-1-B01 (6-11.4)	TCLP	Solid	6020A	575434
500-191784-3	3487-1-B03 (0-1.3)	TCLP	Solid	6020A	575434
500-191784-4	3487-1-B05 (0-1.3)	TCLP	Solid	6020A	575434
500-191784-5	3487-1-B07 (0-1.3)	TCLP	Solid	6020A	575434
500-191784-6	3487-1-B08 (0-1.3)	TCLP	Solid	6020A	575434
LB 500-575210/1-B	Method Blank	TCLP	Solid	6020A	575434
LCS 500-575434/2-A	Lab Control Sample	Total/NA	Solid	6020A	575434
500-191784-6 MS	3487-1-B08 (0-1.3)	TCLP	Solid	6020A	575434
500-191784-6 DU	3487-1-B08 (0-1.3)	TCLP	Solid	6020A	575434

Analysis Batch: 575870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-575434/2-A ^2	Lab Control Sample	Total/NA	Solid	6010B	575434

General Chemistry

Analysis Batch: 575670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191784-1	3487-1-B01 (0-6)	Total/NA	Solid	Moisture	
500-191784-2	3487-1-B01 (6-11.4)	Total/NA	Solid	Moisture	
500-191784-3	3487-1-B03 (0-1.3)	Total/NA	Solid	Moisture	
500-191784-4	3487-1-B05 (0-1.3)	Total/NA	Solid	Moisture	
500-191784-5	3487-1-B07 (0-1.3)	Total/NA	Solid	Moisture	
500-191784-6	3487-1-B08 (0-1.3)	Total/NA	Solid	Moisture	
500-191784-1 DU	3487-1-B01 (0-6)	Total/NA	Solid	Moisture	

Prep Batch: 575794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191784-1	3487-1-B01 (0-6)	Total/NA	Solid	9010C	
500-191784-2	3487-1-B01 (6-11.4)	Total/NA	Solid	9010C	
500-191784-3	3487-1-B03 (0-1.3)	Total/NA	Solid	9010C	
500-191784-4	3487-1-B05 (0-1.3)	Total/NA	Solid	9010C	
500-191784-5	3487-1-B07 (0-1.3)	Total/NA	Solid	9010C	
500-191784-6	3487-1-B08 (0-1.3)	Total/NA	Solid	9010C	
MB 500-575794/1-A	Method Blank	Total/NA	Solid	9010C	
HLCS 500-575794/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 500-575794/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 500-575794/4-A	Lab Control Sample	Total/NA	Solid	9010C	

Analysis Batch: 575857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191784-1	3487-1-B01 (0-6)	Total/NA	Solid	9012B	575794
500-191784-2	3487-1-B01 (6-11.4)	Total/NA	Solid	9012B	575794
500-191784-3	3487-1-B03 (0-1.3)	Total/NA	Solid	9012B	575794
500-191784-4	3487-1-B05 (0-1.3)	Total/NA	Solid	9012B	575794
500-191784-5	3487-1-B07 (0-1.3)	Total/NA	Solid	9012B	575794
500-191784-6	3487-1-B08 (0-1.3)	Total/NA	Solid	9012B	575794
MB 500-575794/1-A	Method Blank	Total/NA	Solid	9012B	575794
HLCS 500-575794/2-A	Lab Control Sample	Total/NA	Solid	9012B	575794
LCS 500-575794/3-A	Lab Control Sample	Total/NA	Solid	9012B	575794

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191784-1

General Chemistry (Continued)

Analysis Batch: 575857 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LLCS 500-575794/4-A	Lab Control Sample	Total/NA	Solid	9012B	575794

Analysis Batch: 576068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191784-1	3487-1-B01 (0-6)	Total/NA	Solid	9045D	
500-191784-2	3487-1-B01 (6-11.4)	Total/NA	Solid	9045D	
500-191784-3	3487-1-B03 (0-1.3)	Total/NA	Solid	9045D	
500-191784-4	3487-1-B05 (0-1.3)	Total/NA	Solid	9045D	
500-191784-5	3487-1-B07 (0-1.3)	Total/NA	Solid	9045D	
500-191784-6	3487-1-B08 (0-1.3)	Total/NA	Solid	9045D	
LCS 500-576068/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-576068/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191784-1

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)
500-191784-1	3487-1-B01 (0-6)	102	101	90	89
500-191784-2	3487-1-B01 (6-11.4)	103	101	88	89
500-191784-3	3487-1-B03 (0-1.3)	100	100	91	88
500-191784-4	3487-1-B05 (0-1.3)	102	101	91	89
500-191784-5	3487-1-B07 (0-1.3)	100	100	93	87
500-191784-6	3487-1-B08 (0-1.3)	100	99	89	88
LCS 500-575544/4	Lab Control Sample	95	91	77	91
LCSD 500-575544/5	Lab Control Sample Dup	92	91	79	91
MB 500-575544/7	Method Blank	98	97	82	90

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
 DBFM = Dibromofluoromethane
 DCA = 1,2-Dichloroethane-d4 (Surr)
 TOL = Toluene-d8 (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	FBP	2FP	NBZ	PHL	TPHL	TBP
		(43-145)	(31-166)	(37-147)	(30-153)	(42-157)	(31-143)
500-191784-1	3487-1-B01 (0-6)	75	93	77	91	94	70
500-191784-2	3487-1-B01 (6-11.4)	75	94	81	91	98	74
500-191784-3	3487-1-B03 (0-1.3)	85	101	90	95	99	80
500-191784-4	3487-1-B05 (0-1.3)	75	91	82	86	93	82
500-191784-5	3487-1-B07 (0-1.3)	58	66	59	62	69	47
500-191784-6	3487-1-B08 (0-1.3)	75	98	80	91	98	80
LCS 500-575123/2-A	Lab Control Sample	85	96	88	92	94	91
MB 500-575123/1-A	Method Blank	85	104	90	98	110	64

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 - Lake County - WO 073

Job ID: 500-191784-1

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

Lab Sample ID: MB 500-575544/7
Matrix: Solid
Analysis Batch: 575544

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			12/07/20 11:02	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg			12/07/20 11:02	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg			12/07/20 11:02	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg			12/07/20 11:02	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg			12/07/20 11:02	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			12/07/20 11:02	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg			12/07/20 11:02	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg			12/07/20 11:02	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg			12/07/20 11:02	1
Chloroethane	<0.0015		0.0050	0.0015	mg/Kg			12/07/20 11:02	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg			12/07/20 11:02	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg			12/07/20 11:02	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg			12/07/20 11:02	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg			12/07/20 11:02	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg			12/07/20 11:02	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg			12/07/20 11:02	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg			12/07/20 11:02	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg			12/07/20 11:02	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			12/07/20 11:02	1
1,3-Dichloropropene, Total	<0.00070		0.0020	0.00070	mg/Kg			12/07/20 11:02	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg			12/07/20 11:02	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg			12/07/20 11:02	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg			12/07/20 11:02	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg			12/07/20 11:02	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg			12/07/20 11:02	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg			12/07/20 11:02	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg			12/07/20 11:02	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg			12/07/20 11:02	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg			12/07/20 11:02	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg			12/07/20 11:02	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg			12/07/20 11:02	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg			12/07/20 11:02	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg			12/07/20 11:02	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg			12/07/20 11:02	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg			12/07/20 11:02	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg			12/07/20 11:02	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg			12/07/20 11:02	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	98		75 - 131		12/07/20 11:02	1
Dibromofluoromethane	97		75 - 126		12/07/20 11:02	1
1,2-Dichloroethane-d4 (Surr)	82		70 - 134		12/07/20 11:02	1
Toluene-d8 (Surr)	90		75 - 124		12/07/20 11:02	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191784-1

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

Lab Sample ID: LCS 500-575544/4

Matrix: Solid

Analysis Batch: 575544

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	0.0404		mg/Kg		81	40 - 150
Benzene	0.0500	0.0533		mg/Kg		107	70 - 125
Bromodichloromethane	0.0500	0.0499		mg/Kg		100	67 - 129
Bromoform	0.0500	0.0518		mg/Kg		104	68 - 136
Bromomethane	0.0500	0.0450		mg/Kg		90	70 - 130
2-Butanone (MEK)	0.0500	0.0376		mg/Kg		75	47 - 138
Carbon disulfide	0.0500	0.0563		mg/Kg		113	70 - 129
Carbon tetrachloride	0.0500	0.0614		mg/Kg		123	75 - 125
Chlorobenzene	0.0500	0.0544		mg/Kg		109	50 - 150
Chloroethane	0.0500	0.0562		mg/Kg		112	75 - 125
Chloroform	0.0500	0.0516		mg/Kg		103	57 - 135
Chloromethane	0.0500	0.0583		mg/Kg		117	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0532		mg/Kg		106	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0450		mg/Kg		90	70 - 125
Dibromochloromethane	0.0500	0.0527		mg/Kg		105	69 - 125
1,1-Dichloroethane	0.0500	0.0571		mg/Kg		114	70 - 125
1,2-Dichloroethane	0.0500	0.0453		mg/Kg		91	70 - 130
1,1-Dichloroethene	0.0500	0.0569		mg/Kg		114	70 - 120
1,2-Dichloropropane	0.0500	0.0542		mg/Kg		108	70 - 125
Ethylbenzene	0.0500	0.0572		mg/Kg		114	61 - 136
2-Hexanone	0.0500	0.0365		mg/Kg		73	48 - 146
Methylene Chloride	0.0500	0.0481		mg/Kg		96	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0365		mg/Kg		73	50 - 148
Methyl tert-butyl ether	0.0500	0.0378		mg/Kg		76	50 - 140
Styrene	0.0500	0.0551		mg/Kg		110	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0432		mg/Kg		86	70 - 122
Tetrachloroethene	0.0500	0.0592		mg/Kg		118	70 - 124
Toluene	0.0500	0.0541		mg/Kg		108	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0577		mg/Kg		115	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0430		mg/Kg		86	70 - 125
1,1,1-Trichloroethane	0.0500	0.0573		mg/Kg		115	70 - 128
1,1,2-Trichloroethane	0.0500	0.0468		mg/Kg		94	70 - 125
Trichloroethene	0.0500	0.0588		mg/Kg		118	70 - 125
Vinyl acetate	0.0500	0.0398		mg/Kg		80	40 - 153
Vinyl chloride	0.0500	0.0505		mg/Kg		101	70 - 125
Xylenes, Total	0.100	0.105		mg/Kg		105	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	95		75 - 131
Dibromofluoromethane	91		75 - 126
1,2-Dichloroethane-d4 (Surr)	77		70 - 134
Toluene-d8 (Surr)	91		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191784-1

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

Lab Sample ID: LCSD 500-575544/5
Matrix: Solid
Analysis Batch: 575544

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	0.0386		mg/Kg		77	40 - 150	4	30
Benzene	0.0500	0.0526		mg/Kg		105	70 - 125	1	30
Bromodichloromethane	0.0500	0.0509		mg/Kg		102	67 - 129	2	30
Bromoform	0.0500	0.0515		mg/Kg		103	68 - 136	0	30
Bromomethane	0.0500	0.0450		mg/Kg		90	70 - 130	0	30
2-Butanone (MEK)	0.0500	0.0356		mg/Kg		71	47 - 138	6	30
Carbon disulfide	0.0500	0.0552		mg/Kg		110	70 - 129	2	30
Carbon tetrachloride	0.0500	0.0598		mg/Kg		120	75 - 125	3	30
Chlorobenzene	0.0500	0.0534		mg/Kg		107	50 - 150	2	30
Chloroethane	0.0500	0.0562		mg/Kg		112	75 - 125	0	30
Chloroform	0.0500	0.0505		mg/Kg		101	57 - 135	2	30
Chloromethane	0.0500	0.0576		mg/Kg		115	70 - 125	1	30
cis-1,2-Dichloroethene	0.0500	0.0524		mg/Kg		105	70 - 125	2	30
cis-1,3-Dichloropropene	0.0500	0.0449		mg/Kg		90	70 - 125	0	30
Dibromochloromethane	0.0500	0.0527		mg/Kg		105	69 - 125	0	30
1,1-Dichloroethane	0.0500	0.0552		mg/Kg		110	70 - 125	3	30
1,2-Dichloroethane	0.0500	0.0455		mg/Kg		91	70 - 130	0	30
1,1-Dichloroethene	0.0500	0.0548		mg/Kg		110	70 - 120	4	30
1,2-Dichloropropane	0.0500	0.0532		mg/Kg		106	70 - 125	2	30
Ethylbenzene	0.0500	0.0558		mg/Kg		112	61 - 136	2	30
2-Hexanone	0.0500	0.0377		mg/Kg		75	48 - 146	3	30
Methylene Chloride	0.0500	0.0488		mg/Kg		98	70 - 126	1	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0356		mg/Kg		71	50 - 148	2	30
Methyl tert-butyl ether	0.0500	0.0387		mg/Kg		77	50 - 140	2	30
Styrene	0.0500	0.0525		mg/Kg		105	70 - 125	5	30
1,1,2,2-Tetrachloroethane	0.0500	0.0443		mg/Kg		89	70 - 122	2	30
Tetrachloroethene	0.0500	0.0582		mg/Kg		116	70 - 124	2	30
Toluene	0.0500	0.0533		mg/Kg		107	70 - 125	1	30
trans-1,2-Dichloroethene	0.0500	0.0553		mg/Kg		111	70 - 125	4	30
trans-1,3-Dichloropropene	0.0500	0.0424		mg/Kg		85	70 - 125	1	30
1,1,1-Trichloroethane	0.0500	0.0565		mg/Kg		113	70 - 128	1	30
1,1,2-Trichloroethane	0.0500	0.0478		mg/Kg		96	70 - 125	2	30
Trichloroethene	0.0500	0.0577		mg/Kg		115	70 - 125	2	30
Vinyl acetate	0.0500	0.0425		mg/Kg		85	40 - 153	7	30
Vinyl chloride	0.0500	0.0497		mg/Kg		99	70 - 125	2	30
Xylenes, Total	0.100	0.103		mg/Kg		103	53 - 147	3	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	92		75 - 131
Dibromofluoromethane	91		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 - Lake County - WO 073

Job ID: 500-191784-1

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

Lab Sample ID: MB 500-575123/1-A

Matrix: Solid

Analysis Batch: 575255

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 575123

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	<0.0060		0.033	0.0060	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
Acenaphthylene	<0.0044		0.033	0.0044	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
Anthracene	<0.0056		0.033	0.0056	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
Benzo[a]anthracene	<0.0045		0.033	0.0045	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
Benzo[a]pyrene	<0.0064		0.033	0.0064	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
Benzo[b]fluoranthene	<0.0072		0.033	0.0072	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
Benzo[g,h,i]perylene	<0.011		0.033	0.011	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
Benzo[k]fluoranthene	<0.0098		0.033	0.0098	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
Bis(2-chloroethoxy)methane	<0.034		0.17	0.034	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
Bis(2-chloroethyl)ether	<0.050		0.17	0.050	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
Bis(2-ethylhexyl) phthalate	<0.061		0.17	0.061	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
4-Bromophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
Butyl benzyl phthalate	<0.063		0.17	0.063	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
Carbazole	<0.083		0.17	0.083	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
4-Chloroaniline	<0.16		0.67	0.16	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
4-Chloro-3-methylphenol	<0.11		0.33	0.11	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
2-Chloronaphthalene	<0.037		0.17	0.037	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
2-Chlorophenol	<0.057		0.17	0.057	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
4-Chlorophenyl phenyl ether	<0.039		0.17	0.039	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
Chrysene	<0.0091		0.033	0.0091	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
Dibenz(a,h)anthracene	<0.0064		0.033	0.0064	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
Dibenzofuran	<0.039		0.17	0.039	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
1,2-Dichlorobenzene	<0.040		0.17	0.040	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
1,3-Dichlorobenzene	<0.037		0.17	0.037	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
1,4-Dichlorobenzene	<0.043		0.17	0.043	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
3,3'-Dichlorobenzidine	<0.047		0.17	0.047	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
2,4-Dichlorophenol	<0.079		0.33	0.079	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
Diethyl phthalate	<0.056		0.17	0.056	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
2,4-Dimethylphenol	<0.13		0.33	0.13	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
Dimethyl phthalate	<0.043		0.17	0.043	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
Di-n-butyl phthalate	<0.051		0.17	0.051	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
4,6-Dinitro-2-methylphenol	<0.27		0.67	0.27	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
2,4-Dinitrophenol	<0.59		0.67	0.59	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
2,4-Dinitrotoluene	<0.053		0.17	0.053	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
2,6-Dinitrotoluene	<0.065		0.17	0.065	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
Di-n-octyl phthalate	<0.054		0.17	0.054	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
Fluoranthene	<0.0062		0.033	0.0062	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
Fluorene	<0.0047		0.033	0.0047	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
Hexachlorobenzene	<0.0077		0.067	0.0077	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
Hexachlorobutadiene	<0.052		0.17	0.052	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
Hexachlorocyclopentadiene	<0.19		0.67	0.19	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
Hexachloroethane	<0.051		0.17	0.051	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
Indeno[1,2,3-cd]pyrene	<0.0086		0.033	0.0086	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
Isophorone	<0.037		0.17	0.037	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
2-Methylnaphthalene	<0.0061		0.067	0.0061	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
2-Methylphenol	<0.053		0.17	0.053	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
3 & 4 Methylphenol	<0.055		0.17	0.055	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
Naphthalene	<0.0051		0.033	0.0051	mg/Kg		12/03/20 08:38	12/03/20 20:16	1

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191784-1

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

Lab Sample ID: MB 500-575123/1-A
Matrix: Solid
Analysis Batch: 575255

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575123

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	<0.045		0.17	0.045	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
3-Nitroaniline	<0.10		0.33	0.10	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
4-Nitroaniline	<0.14		0.33	0.14	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
Nitrobenzene	<0.0083		0.033	0.0083	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
2-Nitrophenol	<0.079		0.33	0.079	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
4-Nitrophenol	<0.32		0.67	0.32	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
N-Nitrosodi-n-propylamine	<0.041		0.067	0.041	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
N-Nitrosodiphenylamine	<0.039		0.17	0.039	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
2,2'-oxybis[1-chloropropane]	<0.039		0.17	0.039	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
Pentachlorophenol	<0.53		0.67	0.53	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
Phenanthrene	<0.0046		0.033	0.0046	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
Phenol	<0.074		0.17	0.074	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
Pyrene	<0.0066		0.033	0.0066	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
1,2,4-Trichlorobenzene	<0.036		0.17	0.036	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
2,4,5-Trichlorophenol	<0.076		0.33	0.076	mg/Kg		12/03/20 08:38	12/03/20 20:16	1
2,4,6-Trichlorophenol	<0.11		0.33	0.11	mg/Kg		12/03/20 08:38	12/03/20 20:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	85		43 - 145	12/03/20 08:38	12/03/20 20:16	1
2-Fluorophenol	104		31 - 166	12/03/20 08:38	12/03/20 20:16	1
Nitrobenzene-d5	90		37 - 147	12/03/20 08:38	12/03/20 20:16	1
Phenol-d5	98		30 - 153	12/03/20 08:38	12/03/20 20:16	1
Terphenyl-d14	110		42 - 157	12/03/20 08:38	12/03/20 20:16	1
2,4,6-Tribromophenol	64		31 - 143	12/03/20 08:38	12/03/20 20:16	1

Lab Sample ID: LCS 500-575123/2-A
Matrix: Solid
Analysis Batch: 575255

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575123

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1.33	1.20		mg/Kg		90	65 - 124
Acenaphthylene	1.33	1.18		mg/Kg		88	68 - 120
Anthracene	1.33	1.20		mg/Kg		90	70 - 114
Benzo[a]anthracene	1.33	1.20		mg/Kg		90	67 - 122
Benzo[a]pyrene	1.33	1.27		mg/Kg		95	65 - 133
Benzo[b]fluoranthene	1.33	1.27		mg/Kg		95	69 - 129
Benzo[g,h,i]perylene	1.33	1.26		mg/Kg		95	72 - 131
Benzo[k]fluoranthene	1.33	1.24		mg/Kg		93	68 - 127
Bis(2-chloroethoxy)methane	1.33	1.23		mg/Kg		92	60 - 112
Bis(2-chloroethyl)ether	1.33	1.23		mg/Kg		92	55 - 111
Bis(2-ethylhexyl) phthalate	1.33	1.28		mg/Kg		96	72 - 131
4-Bromophenyl phenyl ether	1.33	1.21		mg/Kg		91	68 - 118
Butyl benzyl phthalate	1.33	1.28		mg/Kg		96	71 - 129
Carbazole	1.33	1.19		mg/Kg		90	65 - 142
4-Chloroaniline	1.33	1.11		mg/Kg		83	30 - 150
4-Chloro-3-methylphenol	1.33	1.26		mg/Kg		94	65 - 122
2-Chloronaphthalene	1.33	1.19		mg/Kg		89	69 - 114
2-Chlorophenol	1.33	1.26		mg/Kg		95	64 - 110

Euofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191784-1

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

Lab Sample ID: LCS 500-575123/2-A

Matrix: Solid

Analysis Batch: 575255

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 575123

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorophenyl phenyl ether	1.33	1.22		mg/Kg		92	62 - 119
Chrysene	1.33	1.20		mg/Kg		90	63 - 120
Dibenz(a,h)anthracene	1.33	1.33		mg/Kg		100	64 - 131
Dibenzofuran	1.33	1.19		mg/Kg		90	66 - 115
1,2-Dichlorobenzene	1.33	1.21		mg/Kg		90	62 - 110
1,3-Dichlorobenzene	1.33	1.18		mg/Kg		88	65 - 124
1,4-Dichlorobenzene	1.33	1.17		mg/Kg		88	61 - 110
3,3'-Dichlorobenzidine	1.33	0.888		mg/Kg		67	35 - 128
2,4-Dichlorophenol	1.33	1.22		mg/Kg		92	58 - 120
Diethyl phthalate	1.33	1.21		mg/Kg		91	58 - 120
2,4-Dimethylphenol	1.33	1.23		mg/Kg		92	60 - 110
Dimethyl phthalate	1.33	1.21		mg/Kg		91	69 - 116
Di-n-butyl phthalate	1.33	1.21		mg/Kg		90	65 - 120
4,6-Dinitro-2-methylphenol	2.67	1.06		mg/Kg		40	10 - 110
2,4-Dinitrophenol	2.67	0.698		mg/Kg		26	10 - 100
2,4-Dinitrotoluene	1.33	1.25		mg/Kg		94	69 - 124
2,6-Dinitrotoluene	1.33	1.27		mg/Kg		95	70 - 123
Di-n-octyl phthalate	1.33	1.21		mg/Kg		91	68 - 134
Fluoranthene	1.33	1.18		mg/Kg		89	62 - 120
Fluorene	1.33	1.22		mg/Kg		91	62 - 120
Hexachlorobenzene	1.33	1.31		mg/Kg		98	63 - 124
Hexachlorobutadiene	1.33	1.26		mg/Kg		95	56 - 120
Hexachlorocyclopentadiene	1.33	0.815		mg/Kg		61	10 - 133
Hexachloroethane	1.33	1.18		mg/Kg		88	60 - 114
Indeno[1,2,3-cd]pyrene	1.33	1.29		mg/Kg		97	68 - 130
Isophorone	1.33	1.27		mg/Kg		95	55 - 110
2-Methylnaphthalene	1.33	1.21		mg/Kg		91	69 - 112
2-Methylphenol	1.33	1.28		mg/Kg		96	60 - 120
3 & 4 Methylphenol	1.33	1.25		mg/Kg		94	57 - 120
Naphthalene	1.33	1.19		mg/Kg		89	63 - 110
2-Nitroaniline	1.33	1.20		mg/Kg		90	57 - 124
3-Nitroaniline	1.33	0.882		mg/Kg		66	40 - 122
4-Nitroaniline	1.33	1.13		mg/Kg		85	60 - 160
Nitrobenzene	1.33	1.24		mg/Kg		93	60 - 116
2-Nitrophenol	1.33	1.23		mg/Kg		93	60 - 120
4-Nitrophenol	2.67	2.53		mg/Kg		95	30 - 122
N-Nitrosodi-n-propylamine	1.33	1.31		mg/Kg		98	56 - 118
N-Nitrosodiphenylamine	1.33	1.19		mg/Kg		89	65 - 112
2,2'-oxybis[1-chloropropane]	1.33	1.36		mg/Kg		102	40 - 124
Pentachlorophenol	2.67	1.84		mg/Kg		69	13 - 112
Phenanthrene	1.33	1.20		mg/Kg		90	62 - 120
Phenol	1.33	1.26		mg/Kg		95	56 - 122
Pyrene	1.33	1.24		mg/Kg		93	61 - 128
1,2,4-Trichlorobenzene	1.33	1.24		mg/Kg		93	66 - 117
2,4,5-Trichlorophenol	1.33	1.19		mg/Kg		90	50 - 120
2,4,6-Trichlorophenol	1.33	1.21		mg/Kg		91	57 - 120

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191784-1

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

Lab Sample ID: LCS 500-575123/2-A
Matrix: Solid
Analysis Batch: 575255

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575123

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	85		43 - 145
2-Fluorophenol	96		31 - 166
Nitrobenzene-d5	88		37 - 147
Phenol-d5	92		30 - 153
Terphenyl-d14	94		42 - 157
2,4,6-Tribromophenol	91		31 - 143

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-575329/1-A
Matrix: Solid
Analysis Batch: 575564

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575329

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	0.397	J	2.0	0.39	mg/Kg		12/04/20 06:53	12/04/20 16:58	1
Arsenic	<0.34		1.0	0.34	mg/Kg		12/04/20 06:53	12/04/20 16:58	1
Barium	<0.11		1.0	0.11	mg/Kg		12/04/20 06:53	12/04/20 16:58	1
Beryllium	<0.093		0.40	0.093	mg/Kg		12/04/20 06:53	12/04/20 16:58	1
Cadmium	0.0738	J	0.20	0.036	mg/Kg		12/04/20 06:53	12/04/20 16:58	1
Chromium	<0.50		1.0	0.50	mg/Kg		12/04/20 06:53	12/04/20 16:58	1
Cobalt	<0.13		0.50	0.13	mg/Kg		12/04/20 06:53	12/04/20 16:58	1
Copper	<0.28		1.0	0.28	mg/Kg		12/04/20 06:53	12/04/20 16:58	1
Iron	<10		20	10	mg/Kg		12/04/20 06:53	12/04/20 16:58	1
Lead	<0.23		0.50	0.23	mg/Kg		12/04/20 06:53	12/04/20 16:58	1
Magnesium	<5.0		10	5.0	mg/Kg		12/04/20 06:53	12/04/20 16:58	1
Calcium	<3.4		20	3.4	mg/Kg		12/04/20 06:53	12/04/20 16:58	1
Manganese	0.163	J	1.0	0.15	mg/Kg		12/04/20 06:53	12/04/20 16:58	1
Nickel	<0.29		1.0	0.29	mg/Kg		12/04/20 06:53	12/04/20 16:58	1
Selenium	<0.59		1.0	0.59	mg/Kg		12/04/20 06:53	12/04/20 16:58	1
Silver	<0.13		0.50	0.13	mg/Kg		12/04/20 06:53	12/04/20 16:58	1
Thallium	<0.50		1.0	0.50	mg/Kg		12/04/20 06:53	12/04/20 16:58	1
Vanadium	<0.12		0.50	0.12	mg/Kg		12/04/20 06:53	12/04/20 16:58	1
Zinc	<0.88		2.0	0.88	mg/Kg		12/04/20 06:53	12/04/20 16:58	1
Potassium	<18		50	18	mg/Kg		12/04/20 06:53	12/04/20 16:58	1
Sodium	<15		100	15	mg/Kg		12/04/20 06:53	12/04/20 16:58	1

Lab Sample ID: LCS 500-575329/2-A
Matrix: Solid
Analysis Batch: 575564

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575329

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
Antimony	50.0	43.1		mg/Kg		86		80 - 120
Arsenic	10.0	9.32		mg/Kg		93		80 - 120
Barium	200	195		mg/Kg		97		80 - 120
Beryllium	5.00	4.88		mg/Kg		98		80 - 120
Cadmium	5.00	4.72		mg/Kg		94		80 - 120
Chromium	20.0	19.7		mg/Kg		98		80 - 120
Cobalt	50.0	50.0		mg/Kg		100		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 - Lake County - WO 073

Job ID: 500-191784-1

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

Lab Sample ID: LCS 500-575329/2-A
Matrix: Solid
Analysis Batch: 575564

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575329

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	100	100		mg/Kg		100	80 - 120
Lead	10.0	9.46		mg/Kg		95	80 - 120
Magnesium	1000	948		mg/Kg		95	80 - 120
Calcium	1000	991		mg/Kg		99	80 - 120
Manganese	50.0	49.9		mg/Kg		100	80 - 120
Nickel	50.0	49.2		mg/Kg		98	80 - 120
Selenium	10.0	8.38		mg/Kg		84	80 - 120
Silver	5.00	4.64		mg/Kg		93	80 - 120
Thallium	10.0	9.93		mg/Kg		99	80 - 120
Vanadium	50.0	49.0		mg/Kg		98	80 - 120
Zinc	50.0	52.6		mg/Kg		105	80 - 120
Potassium	1000	932		mg/Kg		93	80 - 120
Sodium	1000	982		mg/Kg		98	80 - 120

Lab Sample ID: LCS 500-575434/2-A
Matrix: Solid
Analysis Batch: 575686

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575434

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.0932		mg/L		93	80 - 120
Barium	0.500	0.440	J	mg/L		88	80 - 120
Beryllium	0.0500	0.0414		mg/L		83	80 - 120
Cadmium	0.0500	0.0420		mg/L		84	80 - 120
Chromium	0.200	0.163		mg/L		82	80 - 120
Cobalt	0.500	0.432		mg/L		86	80 - 120
Copper	0.250	0.218		mg/L		87	80 - 120
Iron	1.00	0.893		mg/L		89	80 - 120
Lead	0.100	0.0828		mg/L		83	80 - 120
Calcium	10.0	8.46		mg/L		85	80 - 120
Manganese	0.500	0.401		mg/L		80	80 - 120
Nickel	0.500	0.433		mg/L		87	80 - 120
Selenium	0.100	0.0899		mg/L		90	80 - 120
Silver	0.0500	0.0434		mg/L		87	80 - 120
Vanadium	0.500	0.427		mg/L		85	80 - 120
Zinc	0.500	0.488	J	mg/L		98	80 - 120
Potassium	10.0	10.2		mg/L		102	80 - 120

Lab Sample ID: LCS 500-575434/2-A ^2
Matrix: Solid
Analysis Batch: 575870

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575434

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Magnesium	10.0	8.34		mg/L		83	80 - 120

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191784-1

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

Lab Sample ID: LCS 500-575435/2-A
Matrix: Solid
Analysis Batch: 575790

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575435

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Lead	0.100	0.0811		mg/L		81	80 - 120
Manganese	0.500	0.402		mg/L		80	80 - 120

Lab Sample ID: LB 500-575210/1-B
Matrix: Solid
Analysis Batch: 575686

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 575434

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		12/04/20 16:44	12/07/20 11:48	1
Barium	<0.050		0.50	0.050	mg/L		12/04/20 16:44	12/07/20 11:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/04/20 16:44	12/07/20 11:48	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		12/04/20 16:44	12/07/20 11:48	1
Chromium	<0.010		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 11:48	1
Cobalt	<0.010		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 11:48	1
Copper	<0.010		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 11:48	1
Iron	<0.20		0.40	0.20	mg/L		12/04/20 16:44	12/07/20 11:48	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/04/20 16:44	12/07/20 11:48	1
Magnesium	<0.50		2.5	0.50	mg/L		12/04/20 16:44	12/07/20 11:48	1
Calcium	<0.50		5.0	0.50	mg/L		12/04/20 16:44	12/07/20 11:48	1
Manganese	<0.010		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 11:48	1
Nickel	<0.010		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 11:48	1
Selenium	<0.020		0.050	0.020	mg/L		12/04/20 16:44	12/07/20 11:48	1
Silver	<0.010		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 11:48	1
Vanadium	<0.010		0.025	0.010	mg/L		12/04/20 16:44	12/07/20 11:48	1
Zinc	0.0247	J	0.50	0.020	mg/L		12/04/20 16:44	12/07/20 11:48	1
Potassium	<0.50		2.5	0.50	mg/L		12/04/20 16:44	12/07/20 11:48	1

Lab Sample ID: 500-191784-6 MS
Matrix: Solid
Analysis Batch: 575686

Client Sample ID: 3487-1-B08 (0-1.3)
Prep Type: TCLP
Prep Batch: 575434

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Arsenic	<0.010		0.100	0.0998		mg/L		100	75 - 125
Barium	0.40	J	0.500	0.838		mg/L		87	75 - 125
Beryllium	<0.0040		0.0500	0.0430		mg/L		86	75 - 125
Cadmium	0.0032	J	0.0500	0.0475		mg/L		89	75 - 125
Chromium	<0.010		0.200	0.161		mg/L		81	75 - 125
Cobalt	0.026		0.500	0.469		mg/L		88	75 - 125
Copper	<0.010		0.250	0.223		mg/L		89	75 - 125
Iron	<0.20		1.00	0.866		mg/L		87	75 - 125
Lead	0.015		0.100	0.105		mg/L		90	75 - 125
Magnesium	70		10.0	80.5	4	mg/L		102	75 - 125
Calcium	300		10.0	322	4	mg/L		178	75 - 125
Manganese	7.4		0.500	8.09	4	mg/L		137	75 - 125
Nickel	0.022	J	0.500	0.459		mg/L		87	75 - 125
Selenium	<0.020		0.100	0.0940		mg/L		94	75 - 125
Silver	<0.010		0.0500	0.0446		mg/L		89	75 - 125
Vanadium	<0.010		0.500	0.432		mg/L		86	75 - 125
Zinc	0.037	J B	0.500	0.490	J	mg/L		91	75 - 125

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191784-1

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

Lab Sample ID: 500-191784-6 MS
Matrix: Solid
Analysis Batch: 575686

Client Sample ID: 3487-1-B08 (0-1.3)
Prep Type: TCLP
Prep Batch: 575434

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Potassium	1.3	J	10.0	11.7		mg/L		104	75 - 125

Lab Sample ID: 500-191784-6 DU
Matrix: Solid
Analysis Batch: 575686

Client Sample ID: 3487-1-B08 (0-1.3)
Prep Type: TCLP
Prep Batch: 575434

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	<0.010		<0.010		mg/L		NC	20
Barium	0.40	J	0.412	J	mg/L		2	20
Beryllium	<0.0040		<0.0040		mg/L		NC	20
Cadmium	0.0032	J	0.00340	J	mg/L		7	20
Chromium	<0.010		<0.010		mg/L		NC	20
Cobalt	0.026		0.0282		mg/L		7	20
Copper	<0.010		<0.010		mg/L		NC	20
Iron	<0.20		<0.20		mg/L		NC	20
Lead	0.015		0.0158		mg/L		8	20
Magnesium	70		71.9		mg/L		2	20
Calcium	300		310		mg/L		2	20
Manganese	7.4		7.58		mg/L		2	20
Nickel	0.022	J	0.0221	J	mg/L		0	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	0.037	J B	0.0389	J	mg/L		6	20
Potassium	1.3	J	1.22	J	mg/L		4	20

Lab Sample ID: LB 500-575212/1-B
Matrix: Solid
Analysis Batch: 575790

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 575435

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		12/04/20 16:45	12/07/20 10:03	1
Manganese	<0.010		0.025	0.010	mg/L		12/04/20 16:45	12/07/20 10:03	1

Lab Sample ID: 500-191784-6 MS
Matrix: Solid
Analysis Batch: 575790

Client Sample ID: 3487-1-B08 (0-1.3)
Prep Type: SPLP East
Prep Batch: 575435

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.63		0.100	0.712	4	mg/L		86	75 - 125
Manganese	1.5	F1	0.500	1.88	F1	mg/L		74	75 - 125

Lab Sample ID: 500-191784-6 DU
Matrix: Solid
Analysis Batch: 575790

Client Sample ID: 3487-1-B08 (0-1.3)
Prep Type: SPLP East
Prep Batch: 575435

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lead	0.63		0.665		mg/L		6	20
Manganese	1.5	F1	1.59		mg/L		5	20

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191784-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-575434/2-A
Matrix: Solid
Analysis Batch: 575822

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575434

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.414		mg/L		83	80 - 120
Thallium	0.100	0.0856		mg/L		86	80 - 120

Lab Sample ID: LB 500-575210/1-B
Matrix: Solid
Analysis Batch: 575822

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 575434

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/04/20 16:44	12/07/20 15:24	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/04/20 16:44	12/07/20 15:24	1

Lab Sample ID: 500-191784-6 MS
Matrix: Solid
Analysis Batch: 575822

Client Sample ID: 3487-1-B08 (0-1.3)
Prep Type: TCLP
Prep Batch: 575434

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	<0.0060		0.500	0.417		mg/L		83	75 - 125
Thallium	<0.0020		0.100	0.0881		mg/L		88	75 - 125

Lab Sample ID: 500-191784-6 DU
Matrix: Solid
Analysis Batch: 575822

Client Sample ID: 3487-1-B08 (0-1.3)
Prep Type: TCLP
Prep Batch: 575434

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Antimony	<0.0060		<0.0060		mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-575600/12-A
Matrix: Solid
Analysis Batch: 575796

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575600

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/07/20 09:05	12/08/20 08:58	1

Lab Sample ID: LCS 500-575600/15-A
Matrix: Solid
Analysis Batch: 575796

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575600

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00217		mg/L		108	80 - 120

Lab Sample ID: LB 500-575210/1-C
Matrix: Solid
Analysis Batch: 575796

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 575600

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/07/20 09:05	12/08/20 07:48	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191784-1

Method: 7470A - TCLP Mercury (Continued)

Lab Sample ID: 500-191784-4 MS
Matrix: Solid
Analysis Batch: 575796

Client Sample ID: 3487-1-B05 (0-1.3)
Prep Type: TCLP
Prep Batch: 575600

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00020		0.00100	0.000948		mg/L		95	75 - 125

Lab Sample ID: 500-191784-4 MSD
Matrix: Solid
Analysis Batch: 575796

Client Sample ID: 3487-1-B05 (0-1.3)
Prep Type: TCLP
Prep Batch: 575600

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	<0.00020		0.00100	0.00105		mg/L		105	75 - 125	10	20

Lab Sample ID: 500-191784-4 DU
Matrix: Solid
Analysis Batch: 575796

Client Sample ID: 3487-1-B05 (0-1.3)
Prep Type: TCLP
Prep Batch: 575600

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 500-575358/12-A
Matrix: Solid
Analysis Batch: 575661

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575358

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		12/04/20 13:25	12/07/20 10:23	1

Lab Sample ID: LCS 500-575358/13-A
Matrix: Solid
Analysis Batch: 575661

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575358

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.154		mg/Kg		92	80 - 120

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

Lab Sample ID: MB 500-575794/1-A
Matrix: Solid
Analysis Batch: 575857

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575794

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.12		0.24	0.12	mg/Kg		12/08/20 09:57	12/08/20 12:28	1

Lab Sample ID: HLCS 500-575794/2-A
Matrix: Solid
Analysis Batch: 575857

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575794

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	12.0	11.6		mg/Kg		96	90 - 110

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191784-1

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

Lab Sample ID: LCS 500-575794/3-A
Matrix: Solid
Analysis Batch: 575857

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575794
%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 500-575794/4-A
Matrix: Solid
Analysis Batch: 575857

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575794
%Rec.

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	1.20	0.902		mg/Kg		75	75 - 125



Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191784-1

Client Sample ID: 3487-1-B01 (0-6)
Date Collected: 12/01/20 10:00
Date Received: 12/01/20 17:01

Lab Sample ID: 500-191784-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			575212	12/03/20 12:36	CMS	TAL CHI
SPLP East	Prep	3010A			575435	12/04/20 16:45	BDE	TAL CHI
SPLP East	Analysis	6010B		1	575790	12/07/20 10:25	EEN	TAL CHI
TCLP	Leach	1311			575210	12/03/20 12:36	CMS	TAL CHI
TCLP	Prep	3010A			575434	12/04/20 16:44	BDE	TAL CHI
TCLP	Analysis	6010B		1	575686	12/07/20 12:21	JJB	TAL CHI
TCLP	Leach	1311			575210	12/03/20 12:36	CMS	TAL CHI
TCLP	Prep	3010A			575434	12/04/20 16:44	BDE	TAL CHI
TCLP	Analysis	6020A		1	575822	12/07/20 15:52	FXG	TAL CHI
TCLP	Leach	1311			575210	12/03/20 12:36	CMS	TAL CHI
TCLP	Prep	7470A			575600	12/07/20 09:05	MJG	TAL CHI
TCLP	Analysis	7470A		1	575796	12/08/20 08:13	MJG	TAL CHI
Total/NA	Analysis	9045D		1	576068	12/08/20 12:51	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	575670	12/07/20 14:17	LWN	TAL CHI

Client Sample ID: 3487-1-B01 (0-6)
Date Collected: 12/01/20 10:00
Date Received: 12/01/20 17:01

Lab Sample ID: 500-191784-1
Matrix: Solid
Percent Solids: 80.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			574851	12/01/20 17:52	WRE	TAL CHI
Total/NA	Analysis	8260B		1	575544	12/07/20 16:33	PMF	TAL CHI
Total/NA	Prep	3541			575123	12/03/20 08:38	BSO	TAL CHI
Total/NA	Analysis	8270D		1	575255	12/03/20 22:32	NRJ	TAL CHI
Total/NA	Prep	3050B			575329	12/04/20 06:53	LMN	TAL CHI
Total/NA	Analysis	6010B		1	575564	12/04/20 17:29	EEN	TAL CHI
Total/NA	Prep	7471B			575358	12/04/20 13:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	575661	12/07/20 11:01	MJG	TAL CHI
Total/NA	Prep	9010C			575794	12/08/20 09:57	PSP	TAL CHI
Total/NA	Analysis	9012B		1	575857	12/08/20 13:01	PSP	TAL CHI

Client Sample ID: 3487-1-B01 (6-11.4)
Date Collected: 12/01/20 10:05
Date Received: 12/01/20 17:01

Lab Sample ID: 500-191784-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			575212	12/03/20 12:36	CMS	TAL CHI
SPLP East	Prep	3010A			575435	12/04/20 16:45	BDE	TAL CHI
SPLP East	Analysis	6010B		1	575790	12/07/20 10:28	EEN	TAL CHI
TCLP	Leach	1311			575210	12/03/20 12:36	CMS	TAL CHI
TCLP	Prep	3010A			575434	12/04/20 16:44	BDE	TAL CHI
TCLP	Analysis	6010B		1	575686	12/07/20 12:25	JJB	TAL CHI
TCLP	Leach	1311			575210	12/03/20 12:36	CMS	TAL CHI
TCLP	Prep	3010A			575434	12/04/20 16:44	BDE	TAL CHI
TCLP	Analysis	6020A		1	575822	12/07/20 15:55	FXG	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191784-1

Client Sample ID: 3487-1-B01 (6-11.4)

Lab Sample ID: 500-191784-2

Date Collected: 12/01/20 10:05

Matrix: Solid

Date Received: 12/01/20 17:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			575210	12/03/20 12:36	CMS	TAL CHI
TCLP	Prep	7470A			575600	12/07/20 09:05	MJG	TAL CHI
TCLP	Analysis	7470A		1	575796	12/08/20 08:15	MJG	TAL CHI
Total/NA	Analysis	9045D		1	576068	12/08/20 12:56	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	575670	12/07/20 14:17	LWN	TAL CHI

Client Sample ID: 3487-1-B01 (6-11.4)

Lab Sample ID: 500-191784-2

Date Collected: 12/01/20 10:05

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 85.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			574851	12/01/20 17:52	WRE	TAL CHI
Total/NA	Analysis	8260B		1	575544	12/07/20 16:58	PMF	TAL CHI
Total/NA	Prep	3541			575123	12/03/20 08:38	BSO	TAL CHI
Total/NA	Analysis	8270D		1	575255	12/03/20 21:10	NRJ	TAL CHI
Total/NA	Prep	3050B			575329	12/04/20 06:53	LMN	TAL CHI
Total/NA	Analysis	6010B		1	575564	12/04/20 17:39	EEN	TAL CHI
Total/NA	Prep	3050B			575329	12/04/20 06:53	LMN	TAL CHI
Total/NA	Analysis	6010B		10	575790	12/07/20 14:13	EEN	TAL CHI
Total/NA	Prep	7471B			575358	12/04/20 13:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	575661	12/07/20 11:03	MJG	TAL CHI
Total/NA	Prep	9010C			575794	12/08/20 09:57	PSP	TAL CHI
Total/NA	Analysis	9012B		1	575857	12/08/20 13:03	PSP	TAL CHI

Client Sample ID: 3487-1-B03 (0-1.3)

Lab Sample ID: 500-191784-3

Date Collected: 12/01/20 09:25

Matrix: Solid

Date Received: 12/01/20 17:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			575212	12/03/20 12:36	CMS	TAL CHI
SPLP East	Prep	3010A			575435	12/04/20 16:45	BDE	TAL CHI
SPLP East	Analysis	6010B		1	575790	12/07/20 10:31	EEN	TAL CHI
TCLP	Leach	1311			575210	12/03/20 12:36	CMS	TAL CHI
TCLP	Prep	3010A			575434	12/04/20 16:44	BDE	TAL CHI
TCLP	Analysis	6010B		1	575686	12/07/20 12:28	JJB	TAL CHI
TCLP	Leach	1311			575210	12/03/20 12:36	CMS	TAL CHI
TCLP	Prep	3010A			575434	12/04/20 16:44	BDE	TAL CHI
TCLP	Analysis	6020A		1	575822	12/07/20 16:05	FXG	TAL CHI
TCLP	Leach	1311			575210	12/03/20 12:36	CMS	TAL CHI
TCLP	Prep	7470A			575600	12/07/20 09:05	MJG	TAL CHI
TCLP	Analysis	7470A		1	575796	12/08/20 08:18	MJG	TAL CHI
Total/NA	Analysis	9045D		1	576068	12/08/20 12:58	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	575670	12/07/20 14:17	LWN	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191784-1

Client Sample ID: 3487-1-B03 (0-1.3)

Lab Sample ID: 500-191784-3

Date Collected: 12/01/20 09:25

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 82.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			574851	12/01/20 17:52	WRE	TAL CHI
Total/NA	Analysis	8260B		1	575544	12/07/20 17:24	PMF	TAL CHI
Total/NA	Prep	3541			575123	12/03/20 08:38	BSO	TAL CHI
Total/NA	Analysis	8270D		1	575255	12/03/20 22:59	NRJ	TAL CHI
Total/NA	Prep	3050B			575329	12/04/20 06:53	LMN	TAL CHI
Total/NA	Analysis	6010B		1	575564	12/04/20 17:42	EEN	TAL CHI
Total/NA	Prep	7471B			575358	12/04/20 13:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	575661	12/07/20 11:06	MJG	TAL CHI
Total/NA	Prep	9010C			575794	12/08/20 09:57	PSP	TAL CHI
Total/NA	Analysis	9012B		1	575857	12/08/20 13:04	PSP	TAL CHI

Client Sample ID: 3487-1-B05 (0-1.3)

Lab Sample ID: 500-191784-4

Date Collected: 12/01/20 09:00

Matrix: Solid

Date Received: 12/01/20 17:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			575212	12/03/20 12:36	CMS	TAL CHI
SPLP East	Prep	3010A			575435	12/04/20 16:45	BDE	TAL CHI
SPLP East	Analysis	6010B		1	575790	12/07/20 10:44	EEN	TAL CHI
TCLP	Leach	1311			575210	12/03/20 12:36	CMS	TAL CHI
TCLP	Prep	3010A			575434	12/04/20 16:44	BDE	TAL CHI
TCLP	Analysis	6010B		1	575686	12/07/20 12:32	JJB	TAL CHI
TCLP	Leach	1311			575210	12/03/20 12:36	CMS	TAL CHI
TCLP	Prep	3010A			575434	12/04/20 16:44	BDE	TAL CHI
TCLP	Analysis	6020A		1	575822	12/07/20 16:09	FXG	TAL CHI
TCLP	Leach	1311			575210	12/03/20 12:36	CMS	TAL CHI
TCLP	Prep	7470A			575600	12/07/20 09:05	MJG	TAL CHI
TCLP	Analysis	7470A		1	575796	12/08/20 08:20	MJG	TAL CHI
Total/NA	Analysis	9045D		1	576068	12/08/20 13:01	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	575670	12/07/20 14:17	LWN	TAL CHI

Client Sample ID: 3487-1-B05 (0-1.3)

Lab Sample ID: 500-191784-4

Date Collected: 12/01/20 09:00

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 92.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			574851	12/01/20 17:52	WRE	TAL CHI
Total/NA	Analysis	8260B		1	575544	12/07/20 17:49	PMF	TAL CHI
Total/NA	Prep	3541			575123	12/03/20 08:38	BSO	TAL CHI
Total/NA	Analysis	8270D		1	575255	12/03/20 23:26	NRJ	TAL CHI
Total/NA	Prep	3050B			575329	12/04/20 06:53	LMN	TAL CHI
Total/NA	Analysis	6010B		1	575564	12/04/20 17:45	EEN	TAL CHI
Total/NA	Prep	3050B			575329	12/04/20 06:53	LMN	TAL CHI
Total/NA	Analysis	6010B		10	575790	12/07/20 14:16	EEN	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191784-1

Client Sample ID: 3487-1-B05 (0-1.3)

Lab Sample ID: 500-191784-4

Date Collected: 12/01/20 09:00

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 92.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			575358	12/04/20 13:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	575661	12/07/20 11:12	MJG	TAL CHI
Total/NA	Prep	9010C			575794	12/08/20 09:57	PSP	TAL CHI
Total/NA	Analysis	9012B		1	575857	12/08/20 13:06	PSP	TAL CHI

Client Sample ID: 3487-1-B07 (0-1.3)

Lab Sample ID: 500-191784-5

Date Collected: 12/01/20 08:35

Matrix: Solid

Date Received: 12/01/20 17:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			575212	12/03/20 12:36	CMS	TAL CHI
SPLP East	Prep	3010A			575435	12/04/20 16:45	BDE	TAL CHI
SPLP East	Analysis	6010B		1	575790	12/07/20 10:47	EEN	TAL CHI
TCLP	Leach	1311			575210	12/03/20 12:36	CMS	TAL CHI
TCLP	Prep	3010A			575434	12/04/20 16:44	BDE	TAL CHI
TCLP	Analysis	6010B		1	575686	12/07/20 12:35	JJB	TAL CHI
TCLP	Leach	1311			575210	12/03/20 12:36	CMS	TAL CHI
TCLP	Prep	3010A			575434	12/04/20 16:44	BDE	TAL CHI
TCLP	Analysis	6020A		1	575822	12/07/20 16:12	FXG	TAL CHI
TCLP	Leach	1311			575210	12/03/20 12:36	CMS	TAL CHI
TCLP	Prep	7470A			575600	12/07/20 09:05	MJG	TAL CHI
TCLP	Analysis	7470A		1	575796	12/08/20 08:28	MJG	TAL CHI
Total/NA	Analysis	9045D		1	576068	12/08/20 13:03	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	575670	12/07/20 14:17	LWN	TAL CHI

Client Sample ID: 3487-1-B07 (0-1.3)

Lab Sample ID: 500-191784-5

Date Collected: 12/01/20 08:35

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 81.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			574851	12/01/20 17:52	WRE	TAL CHI
Total/NA	Analysis	8260B		1	575544	12/07/20 18:15	PMF	TAL CHI
Total/NA	Prep	3541			575123	12/03/20 08:38	BSO	TAL CHI
Total/NA	Analysis	8270D		1	575255	12/03/20 23:54	NRJ	TAL CHI
Total/NA	Prep	3050B			575329	12/04/20 06:53	LMN	TAL CHI
Total/NA	Analysis	6010B		1	575564	12/04/20 17:48	EEN	TAL CHI
Total/NA	Prep	7471B			575358	12/04/20 13:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	575661	12/07/20 11:14	MJG	TAL CHI
Total/NA	Prep	9010C			575794	12/08/20 09:57	PSP	TAL CHI
Total/NA	Analysis	9012B		1	575857	12/08/20 13:08	PSP	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191784-1

Client Sample ID: 3487-1-B08 (0-1.3)

Lab Sample ID: 500-191784-6

Date Collected: 12/01/20 08:15

Matrix: Solid

Date Received: 12/01/20 17:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			575212	12/03/20 12:36	CMS	TAL CHI
SPLP East	Prep	3010A			575435	12/04/20 16:45	BDE	TAL CHI
SPLP East	Analysis	6010B		1	575790	12/07/20 10:50	EEN	TAL CHI
TCLP	Leach	1311			575210	12/03/20 12:36	CMS	TAL CHI
TCLP	Prep	3010A			575434	12/04/20 16:44	BDE	TAL CHI
TCLP	Analysis	6010B		1	575686	12/07/20 12:38	JJB	TAL CHI
TCLP	Leach	1311			575210	12/03/20 12:36	CMS	TAL CHI
TCLP	Prep	3010A			575434	12/04/20 16:44	BDE	TAL CHI
TCLP	Analysis	6020A		1	575822	12/07/20 16:16	FXG	TAL CHI
TCLP	Leach	1311			575210	12/03/20 12:36	CMS	TAL CHI
TCLP	Prep	7470A			575600	12/07/20 09:05	MJG	TAL CHI
TCLP	Analysis	7470A		1	575796	12/08/20 08:30	MJG	TAL CHI
Total/NA	Analysis	9045D		1	576068	12/08/20 13:06	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	575670	12/07/20 14:17	LWN	TAL CHI

Client Sample ID: 3487-1-B08 (0-1.3)

Lab Sample ID: 500-191784-6

Date Collected: 12/01/20 08:15

Matrix: Solid

Date Received: 12/01/20 17:01

Percent Solids: 82.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			574851	12/01/20 17:52	WRE	TAL CHI
Total/NA	Analysis	8260B		1	575544	12/07/20 18:40	PMF	TAL CHI
Total/NA	Prep	3541			575123	12/03/20 08:38	BSO	TAL CHI
Total/NA	Analysis	8270D		1	575255	12/03/20 21:37	NRJ	TAL CHI
Total/NA	Prep	3050B			575329	12/04/20 06:53	LMN	TAL CHI
Total/NA	Analysis	6010B		1	575564	12/04/20 17:51	EEN	TAL CHI
Total/NA	Prep	3050B			575329	12/04/20 06:53	LMN	TAL CHI
Total/NA	Analysis	6010B		10	575790	12/07/20 14:19	EEN	TAL CHI
Total/NA	Prep	7471B			575358	12/04/20 13:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	575661	12/07/20 11:16	MJG	TAL CHI
Total/NA	Prep	9010C			575794	12/08/20 09:57	PSP	TAL CHI
Total/NA	Analysis	9012B		1	575857	12/08/20 13:13	PSP	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 - Lake County - WO 073

Job ID: 500-191784-1

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
- 15

Address: _____

Regulatory Program: DW NPDES RCRA Other:

Client Contact Company Name: <u>TERRACON</u> Address: <u>192 Exchange Blvd</u> City/State/Zip: <u>Glendale Heights, IL</u> Phone: <u>630-445-6166</u> Fax: _____ Project Name: <u>11207011 N</u> Site: <u>11207011 N</u> PO # _____		Project Manager: <u>Kich.Dyren@terracon.com</u> Tel/Email: <u>Matt.Norris@terracon.com</u>		Site Contact: _____ Lab Contact: _____		Date: <u>12/10/2020</u> Carrier: _____		COC No: _____ 1 of 1 COCs Sampler: <u>D. G. PT</u> For Lab Use Only: Walk-in Client: _____ Lab Sampling: _____ Job / SDG No.: <u>500-191784</u>																																																																																					
Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input checked="" type="checkbox"/> WORKING DAYS TAT if different from Below _____ <input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		 500-191784 COC		Filtered Sample (Y/N) _____ Perform MS / MSD (Y/N) _____ <u>1/00's</u> <u>500's</u> <u>Total 23 Inorganics / PH</u> <u>Total 23 Inorganics</u> <u>SPLP 23 Inorganics</u>		Sample Identification <table border="1"> <thead> <tr> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=Comp, G=Grab)</th> <th>Matrix</th> <th># of Cont.</th> <th>Filtered Sample (Y/N)</th> <th>Perform MS / MSD (Y/N)</th> <th>1/00's</th> <th>500's</th> <th>Total 23 Inorganics / PH</th> <th>Total 23 Inorganics</th> <th>SPLP 23 Inorganics</th> </tr> </thead> <tbody> <tr> <td>12/10/20</td> <td>1000</td> <td>G</td> <td>Soil</td> <td>6</td> <td>N</td> <td>M</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>12/10/20</td> <td>1005</td> <td>G</td> <td>Soil</td> <td>6</td> <td>N</td> <td>M</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>12/10/20</td> <td>0925</td> <td>G</td> <td>Soil</td> <td>6</td> <td>N</td> <td>M</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>12/10/20</td> <td>0900</td> <td>G</td> <td>Soil</td> <td>6</td> <td>N</td> <td>M</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>12/10/20</td> <td>0835</td> <td>G</td> <td>Soil</td> <td>6</td> <td>N</td> <td>M</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>12/10/20</td> <td>0815</td> <td>G</td> <td>Soil</td> <td>6</td> <td>N</td> <td>M</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> </tbody> </table>		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	1/00's	500's	Total 23 Inorganics / PH	Total 23 Inorganics	SPLP 23 Inorganics	12/10/20	1000	G	Soil	6	N	M	X	X	X	X	X	12/10/20	1005	G	Soil	6	N	M	X	X	X	X	X	12/10/20	0925	G	Soil	6	N	M	X	X	X	X	X	12/10/20	0900	G	Soil	6	N	M	X	X	X	X	X	12/10/20	0835	G	Soil	6	N	M	X	X	X	X	X	12/10/20	0815	G	Soil	6	N	M	X	X	X	X	X	Sample Specific Notes: _____	
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Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other _____		Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample. <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months		Special Instructions/QC Requirements & Comments: <u>* NO ALUMINUM</u> <u>* HOLD SPLP 23 INORGANICS PER TERRACON INSTRUCTIONS</u>		Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.: _____ Cooler Temp. (°C): Obs'd: <u>3.1, 0.6</u> Corr'd: <u>0.9, -0.1</u> Term ID No.: _____																																																																																					
Relinquished by: <u>Kan Wong</u> Company: <u>TERRACON</u> Date/Time: <u>12/10/2020 1620</u>		Relinquished by: <u>P. N. Neal</u> Company: <u>ETA</u> Date/Time: <u>12/10/2020 1701</u>		Received by: <u>P. N. Neal</u> Company: <u>ETA</u> Date/Time: <u>12/10/2020 1620</u>		Received in Laboratory by: <u>Paula Buckley</u> Company: <u>ETA</u> Date/Time: <u>12/11/2020 1701</u>																																																																																							

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-191784-1

Login Number: 191784

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Buckley, Paula M

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.9, -0.1 samples were not frozen
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	

ANALYTICAL REPORT

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

Laboratory Job ID: 500-191854-1
Client Project/Site: IDOT - Lake County - WO 073

For:

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

Attn: Mr. Matthew Weiss



Authorized for release by:
12/14/2020 3:29:16 PM

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

LINKS

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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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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191854-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

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

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

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191854-1

Job ID: 500-191854-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-191854-1

Receipt

The samples were received on 12/2/2020 5:50 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.8° C and 1.6° C.

GC/MS VOA

Method 8260B: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for 575898 recovered outside control limits for the following analytes: Chloromethane and 1,1-Dichloroethane. These analytes were biased high in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 8260B: The laboratory control sample (LCS) for 576095 recovered outside control limits for Chloroethane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported. 3487-1-B02 (6-11.3) Dup (500-191854-3) and 3487-1-B04 (0-1.3) (500-191854-4)

Method 8260B: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for 576278 recovered outside control limits for Chloromethane. This analyte was biased high in the LCS/LCSD and was not detected in the associated samples; therefore, the data have been reported. 3487-1-B06 (0-1.3) (500-191854-5)

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

GC/MS Semi VOA

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

Metals

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

General Chemistry

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

Organic Prep

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

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191854-1

Client Sample ID: 3487-1-B02 (0-6)

Lab Sample ID: 500-191854-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.41	J	1.2	0.23	mg/Kg	1	✳	6010B	Total/NA
Arsenic	6.0		0.59	0.20	mg/Kg	1	✳	6010B	Total/NA
Barium	48		0.59	0.067	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.80		0.24	0.055	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.090	J B	0.12	0.021	mg/Kg	1	✳	6010B	Total/NA
Chromium	19		0.59	0.29	mg/Kg	1	✳	6010B	Total/NA
Cobalt	15		0.29	0.077	mg/Kg	1	✳	6010B	Total/NA
Copper	21		0.59	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	17000		12	6.1	mg/Kg	1	✳	6010B	Total/NA
Lead	12		0.29	0.14	mg/Kg	1	✳	6010B	Total/NA
Magnesium	34000		5.9	2.9	mg/Kg	1	✳	6010B	Total/NA
Calcium	96000	B	120	20	mg/Kg	10	✳	6010B	Total/NA
Manganese	480	B	0.59	0.085	mg/Kg	1	✳	6010B	Total/NA
Nickel	37		0.59	0.17	mg/Kg	1	✳	6010B	Total/NA
Vanadium	24		0.29	0.069	mg/Kg	1	✳	6010B	Total/NA
Zinc	49		1.2	0.52	mg/Kg	1	✳	6010B	Total/NA
Potassium	3900		29	10	mg/Kg	1	✳	6010B	Total/NA
Sodium	900	B	59	8.7	mg/Kg	1	✳	6010B	Total/NA
Barium	0.37	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	580		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	33		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.62		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.010	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.3	J	2.5	0.50	mg/L	1		6010B	TCLP
Cadmium	0.0024	J	0.0050	0.0020	mg/L	1		6010B	SPLP East
Lead	0.089		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.90		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.014	J	0.019	0.0062	mg/Kg	1	✳	7471B	Total/NA
pH	8.0		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3487-1-B02 (6-11.3)

Lab Sample ID: 500-191854-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.0070	J	0.037	0.0053	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.52	J	1.1	0.22	mg/Kg	1	✳	6010B	Total/NA
Arsenic	2.9		0.57	0.19	mg/Kg	1	✳	6010B	Total/NA
Barium	50		0.57	0.065	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.70		0.23	0.053	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.073	J B	0.11	0.020	mg/Kg	1	✳	6010B	Total/NA
Chromium	18		0.57	0.28	mg/Kg	1	✳	6010B	Total/NA
Cobalt	7.4		0.28	0.074	mg/Kg	1	✳	6010B	Total/NA
Copper	19		0.57	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	15000		11	5.9	mg/Kg	1	✳	6010B	Total/NA
Lead	9.9		0.28	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	33000		5.7	2.8	mg/Kg	1	✳	6010B	Total/NA
Calcium	80000	B	110	19	mg/Kg	10	✳	6010B	Total/NA
Manganese	300	B	0.57	0.082	mg/Kg	1	✳	6010B	Total/NA
Nickel	25		0.57	0.16	mg/Kg	1	✳	6010B	Total/NA
Vanadium	22		0.28	0.067	mg/Kg	1	✳	6010B	Total/NA
Zinc	45		1.1	0.50	mg/Kg	1	✳	6010B	Total/NA
Potassium	3900		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 - Lake County - WO 073

Job ID: 500-191854-1

Client Sample ID: 3487-1-B02 (6-11.3) (Continued)

Lab Sample ID: 500-191854-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	330	B	57	8.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.71		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	520		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	53		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.2		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.3		2.5	0.50	mg/L	1		6010B	TCLP
Mercury	0.014	J	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: 3487-1-B02 (6-11.3) Dup

Lab Sample ID: 500-191854-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.0067	J	0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.55	J	1.2	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	3.5		0.58	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	58		0.58	0.066	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.74		0.23	0.054	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.091	J B	0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Chromium	18		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.5		0.29	0.076	mg/Kg	1	☼	6010B	Total/NA
Copper	19		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	15000		12	6.0	mg/Kg	1	☼	6010B	Total/NA
Lead	10		0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	34000		5.8	2.9	mg/Kg	1	☼	6010B	Total/NA
Calcium	89000	B	120	20	mg/Kg	10	☼	6010B	Total/NA
Manganese	300	B	0.58	0.084	mg/Kg	1	☼	6010B	Total/NA
Nickel	28		0.58	0.17	mg/Kg	1	☼	6010B	Total/NA
Vanadium	23		0.29	0.068	mg/Kg	1	☼	6010B	Total/NA
Zinc	48		1.2	0.51	mg/Kg	1	☼	6010B	Total/NA
Potassium	4000		29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	380	B	58	8.6	mg/Kg	1	☼	6010B	Total/NA
Barium	0.65		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	540		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	51		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.2		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.3		2.5	0.50	mg/L	1		6010B	TCLP
Mercury	0.019		0.018	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	8.0		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3487-1-B04 (0-1.3)

Lab Sample ID: 500-191854-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.017		0.017	0.0073	mg/Kg	1	☼	8260B	Total/NA
2-Butanone (MEK)	0.0040	J	0.0042	0.0019	mg/Kg	1	☼	8260B	Total/NA
Benzo[a]anthracene	0.026	J	0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.029	J	0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.048		0.039	0.0085	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.016	J	0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.020	J	0.039	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.033	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.054		0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.013	J	0.039	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 - Lake County - WO 073

Job ID: 500-191854-1

Client Sample ID: 3487-1-B04 (0-1.3) (Continued)

Lab Sample ID: 500-191854-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.022	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.047		0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.67	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.0		0.56	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	63		0.56	0.064	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.62		0.22	0.052	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.40	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.7		0.28	0.074	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	14000		11	5.8	mg/Kg	1	☼	6010B	Total/NA
Lead	58		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	18000		5.6	2.8	mg/Kg	1	☼	6010B	Total/NA
Calcium	27000	B	11	1.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	430	B	0.56	0.081	mg/Kg	1	☼	6010B	Total/NA
Nickel	22		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	21		0.28	0.066	mg/Kg	1	☼	6010B	Total/NA
Zinc	87		1.1	0.49	mg/Kg	1	☼	6010B	Total/NA
Potassium	1800		28	9.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	1000	B	56	8.3	mg/Kg	1	☼	6010B	Total/NA
Barium	0.52		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0028	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	210		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.023	J	0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.014		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	68		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	14		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.021	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.2	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.070	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.11		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.52		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.044		0.018	0.0058	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.25	J	0.28	0.14	mg/Kg	1	☼	9012B	Total/NA
pH	7.4		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3487-1-B06 (0-1.3)

Lab Sample ID: 500-191854-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.017	J	0.039	0.0071	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.033	J	0.039	0.0066	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.18		0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.21		0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.31		0.039	0.0085	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.085		0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.13		0.039	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.21		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.022	J	0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.45		0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.011	J	0.039	0.0055	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 - Lake County - WO 073

Job ID: 500-191854-1

Client Sample ID: 3487-1-B06 (0-1.3) (Continued)

Lab Sample ID: 500-191854-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Indeno[1,2,3-cd]pyrene	0.078		0.039	0.010	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.17		0.039	0.0055	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.37		0.039	0.0078	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.62	J	1.1	0.22	mg/Kg	1	✳	6010B	Total/NA
Arsenic	5.6		0.57	0.19	mg/Kg	1	✳	6010B	Total/NA
Barium	46		0.57	0.065	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.56		0.23	0.053	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.47	B	0.11	0.020	mg/Kg	1	✳	6010B	Total/NA
Chromium	15		0.57	0.28	mg/Kg	1	✳	6010B	Total/NA
Cobalt	9.5		0.28	0.075	mg/Kg	1	✳	6010B	Total/NA
Copper	26		0.57	0.16	mg/Kg	1	✳	6010B	Total/NA
Iron	19000	B	110	59	mg/Kg	10	✳	6010B	Total/NA
Lead	130		0.28	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	51000		57	28	mg/Kg	10	✳	6010B	Total/NA
Calcium	87000	B	110	19	mg/Kg	10	✳	6010B	Total/NA
Manganese	420	B	0.57	0.082	mg/Kg	1	✳	6010B	Total/NA
Nickel	22		0.57	0.17	mg/Kg	1	✳	6010B	Total/NA
Vanadium	19		0.28	0.067	mg/Kg	1	✳	6010B	Total/NA
Zinc	110		1.1	0.50	mg/Kg	1	✳	6010B	Total/NA
Potassium	2000		28	10	mg/Kg	1	✳	6010B	Total/NA
Sodium	1100	B	57	8.4	mg/Kg	1	✳	6010B	Total/NA
Barium	0.38	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0038	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	330		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	130		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.030		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.2	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.043	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.038		0.019	0.0063	mg/Kg	1	✳	7471B	Total/NA
pH	9.2		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191854-1

Client Sample ID: 3487-1-B02 (0-6)

Lab Sample ID: 500-191854-1

Date Collected: 12/02/20 08:30

Matrix: Solid

Date Received: 12/02/20 17:50

Percent Solids: 84.1

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	☼	12/03/20 17:19	12/09/20 04:38	1
Benzene	<0.00040		0.0016	0.00040	mg/Kg	☼	12/03/20 17:19	12/09/20 04:38	1
Bromodichloromethane	<0.00032		0.0016	0.00032	mg/Kg	☼	12/03/20 17:19	12/09/20 04:38	1
Bromoform	<0.00046		0.0016	0.00046	mg/Kg	☼	12/03/20 17:19	12/09/20 04:38	1
Bromomethane	<0.0015		0.0039	0.0015	mg/Kg	☼	12/03/20 17:19	12/09/20 04:38	1
2-Butanone (MEK)	<0.0017		0.0039	0.0017	mg/Kg	☼	12/03/20 17:19	12/09/20 04:38	1
Carbon disulfide	<0.00081		0.0039	0.00081	mg/Kg	☼	12/03/20 17:19	12/09/20 04:38	1
Carbon tetrachloride	<0.00045		0.0016	0.00045	mg/Kg	☼	12/03/20 17:19	12/09/20 04:38	1
Chlorobenzene	<0.00058		0.0016	0.00058	mg/Kg	☼	12/03/20 17:19	12/09/20 04:38	1
Chloroethane	<0.0012		0.0039	0.0012	mg/Kg	☼	12/03/20 17:19	12/09/20 04:38	1
Chloroform	<0.00054		0.0016	0.00054	mg/Kg	☼	12/03/20 17:19	12/09/20 04:38	1
Chloromethane	<0.0016 *		0.0039	0.0016	mg/Kg	☼	12/03/20 17:19	12/09/20 04:38	1
cis-1,2-Dichloroethene	<0.00044		0.0016	0.00044	mg/Kg	☼	12/03/20 17:19	12/09/20 04:38	1
cis-1,3-Dichloropropene	<0.00047		0.0016	0.00047	mg/Kg	☼	12/03/20 17:19	12/09/20 04:38	1
Dibromochloromethane	<0.00051		0.0016	0.00051	mg/Kg	☼	12/03/20 17:19	12/09/20 04:38	1
1,1-Dichloroethane	<0.00053 *		0.0016	0.00053	mg/Kg	☼	12/03/20 17:19	12/09/20 04:38	1
1,2-Dichloroethane	<0.0012		0.0039	0.0012	mg/Kg	☼	12/03/20 17:19	12/09/20 04:38	1
1,1-Dichloroethene	<0.00054		0.0016	0.00054	mg/Kg	☼	12/03/20 17:19	12/09/20 04:38	1
1,2-Dichloropropene	<0.00040		0.0016	0.00040	mg/Kg	☼	12/03/20 17:19	12/09/20 04:38	1
1,3-Dichloropropene, Total	<0.00055		0.0016	0.00055	mg/Kg	☼	12/03/20 17:19	12/09/20 04:38	1
Ethylbenzene	<0.00075		0.0016	0.00075	mg/Kg	☼	12/03/20 17:19	12/09/20 04:38	1
2-Hexanone	<0.0012		0.0039	0.0012	mg/Kg	☼	12/03/20 17:19	12/09/20 04:38	1
Methylene Chloride	<0.0015		0.0039	0.0015	mg/Kg	☼	12/03/20 17:19	12/09/20 04:38	1
4-Methyl-2-pentanone (MIBK)	<0.0012		0.0039	0.0012	mg/Kg	☼	12/03/20 17:19	12/09/20 04:38	1
Methyl tert-butyl ether	<0.00046		0.0016	0.00046	mg/Kg	☼	12/03/20 17:19	12/09/20 04:38	1
Styrene	<0.00047		0.0016	0.00047	mg/Kg	☼	12/03/20 17:19	12/09/20 04:38	1
1,1,2,2-Tetrachloroethane	<0.00050		0.0016	0.00050	mg/Kg	☼	12/03/20 17:19	12/09/20 04:38	1
Tetrachloroethene	<0.00053		0.0016	0.00053	mg/Kg	☼	12/03/20 17:19	12/09/20 04:38	1
Toluene	<0.00039		0.0016	0.00039	mg/Kg	☼	12/03/20 17:19	12/09/20 04:38	1
trans-1,2-Dichloroethene	<0.00069		0.0016	0.00069	mg/Kg	☼	12/03/20 17:19	12/09/20 04:38	1
trans-1,3-Dichloropropene	<0.00055		0.0016	0.00055	mg/Kg	☼	12/03/20 17:19	12/09/20 04:38	1
1,1,1-Trichloroethane	<0.00052		0.0016	0.00052	mg/Kg	☼	12/03/20 17:19	12/09/20 04:38	1
1,1,2-Trichloroethane	<0.00067		0.0016	0.00067	mg/Kg	☼	12/03/20 17:19	12/09/20 04:38	1
Trichloroethene	<0.00053		0.0016	0.00053	mg/Kg	☼	12/03/20 17:19	12/09/20 04:38	1
Vinyl acetate	<0.0014		0.0039	0.0014	mg/Kg	☼	12/03/20 17:19	12/09/20 04:38	1
Vinyl chloride	<0.00069		0.0016	0.00069	mg/Kg	☼	12/03/20 17:19	12/09/20 04:38	1
Xylenes, Total	<0.00050		0.0031	0.00050	mg/Kg	☼	12/03/20 17:19	12/09/20 04:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		75 - 131	12/03/20 17:19	12/09/20 04:38	1
Dibromofluoromethane	98		75 - 126	12/03/20 17:19	12/09/20 04:38	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	12/03/20 17:19	12/09/20 04:38	1
Toluene-d8 (Surr)	92		75 - 124	12/03/20 17:19	12/09/20 04:38	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	☼	12/04/20 08:51	12/05/20 14:51	1
Acenaphthylene	<0.0052		0.039	0.0052	mg/Kg	☼	12/04/20 08:51	12/05/20 14:51	1
Anthracene	<0.0066		0.039	0.0066	mg/Kg	☼	12/04/20 08:51	12/05/20 14:51	1
Benzo[a]anthracene	<0.0053		0.039	0.0053	mg/Kg	☼	12/04/20 08:51	12/05/20 14:51	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191854-1

Client Sample ID: 3487-1-B02 (0-6)

Lab Sample ID: 500-191854-1

Date Collected: 12/02/20 08:30

Matrix: Solid

Date Received: 12/02/20 17:50

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.0076		0.039	0.0076	mg/Kg	☼	12/04/20 08:51	12/05/20 14:51	1
Benzo[b]fluoranthene	<0.0085		0.039	0.0085	mg/Kg	☼	12/04/20 08:51	12/05/20 14:51	1
Benzo[g,h,i]perylene	<0.013		0.039	0.013	mg/Kg	☼	12/04/20 08:51	12/05/20 14:51	1
Benzo[k]fluoranthene	<0.012		0.039	0.012	mg/Kg	☼	12/04/20 08:51	12/05/20 14:51	1
Bis(2-chloroethoxy)methane	<0.040		0.20	0.040	mg/Kg	☼	12/04/20 08:51	12/05/20 14:51	1
Bis(2-chloroethyl)ether	<0.059		0.20	0.059	mg/Kg	☼	12/04/20 08:51	12/05/20 14:51	1
Bis(2-ethylhexyl) phthalate	<0.072		0.20	0.072	mg/Kg	☼	12/04/20 08:51	12/05/20 14:51	1
4-Bromophenyl phenyl ether	<0.052		0.20	0.052	mg/Kg	☼	12/04/20 08:51	12/05/20 14:51	1
Butyl benzyl phthalate	<0.075		0.20	0.075	mg/Kg	☼	12/04/20 08:51	12/05/20 14:51	1
Carbazole	<0.099		0.20	0.099	mg/Kg	☼	12/04/20 08:51	12/05/20 14:51	1
4-Chloroaniline	<0.19		0.80	0.19	mg/Kg	☼	12/04/20 08:51	12/05/20 14:51	1
4-Chloro-3-methylphenol	<0.13		0.39	0.13	mg/Kg	☼	12/04/20 08:51	12/05/20 14:51	1
2-Chloronaphthalene	<0.044		0.20	0.044	mg/Kg	☼	12/04/20 08:51	12/05/20 14:51	1
2-Chlorophenol	<0.067		0.20	0.067	mg/Kg	☼	12/04/20 08:51	12/05/20 14:51	1
4-Chlorophenyl phenyl ether	<0.046		0.20	0.046	mg/Kg	☼	12/04/20 08:51	12/05/20 14:51	1
Chrysene	<0.011		0.039	0.011	mg/Kg	☼	12/04/20 08:51	12/05/20 14:51	1
Dibenz(a,h)anthracene	<0.0076		0.039	0.0076	mg/Kg	☼	12/04/20 08:51	12/05/20 14:51	1
Dibenzofuran	<0.046		0.20	0.046	mg/Kg	☼	12/04/20 08:51	12/05/20 14:51	1
1,2-Dichlorobenzene	<0.047		0.20	0.047	mg/Kg	☼	12/04/20 08:51	12/05/20 14:51	1
1,3-Dichlorobenzene	<0.044		0.20	0.044	mg/Kg	☼	12/04/20 08:51	12/05/20 14:51	1
1,4-Dichlorobenzene	<0.051		0.20	0.051	mg/Kg	☼	12/04/20 08:51	12/05/20 14:51	1
3,3'-Dichlorobenzidine	<0.055		0.20	0.055	mg/Kg	☼	12/04/20 08:51	12/05/20 14:51	1
2,4-Dichlorophenol	<0.094		0.39	0.094	mg/Kg	☼	12/04/20 08:51	12/05/20 14:51	1
Diethyl phthalate	<0.067		0.20	0.067	mg/Kg	☼	12/04/20 08:51	12/05/20 14:51	1
2,4-Dimethylphenol	<0.15		0.39	0.15	mg/Kg	☼	12/04/20 08:51	12/05/20 14:51	1
Dimethyl phthalate	<0.052		0.20	0.052	mg/Kg	☼	12/04/20 08:51	12/05/20 14:51	1
Di-n-butyl phthalate	<0.060		0.20	0.060	mg/Kg	☼	12/04/20 08:51	12/05/20 14:51	1
4,6-Dinitro-2-methylphenol	<0.32		0.80	0.32	mg/Kg	☼	12/04/20 08:51	12/05/20 14:51	1
2,4-Dinitrophenol	<0.69		0.80	0.69	mg/Kg	☼	12/04/20 08:51	12/05/20 14:51	1
2,4-Dinitrotoluene	<0.063		0.20	0.063	mg/Kg	☼	12/04/20 08:51	12/05/20 14:51	1
2,6-Dinitrotoluene	<0.078		0.20	0.078	mg/Kg	☼	12/04/20 08:51	12/05/20 14:51	1
Di-n-octyl phthalate	<0.064		0.20	0.064	mg/Kg	☼	12/04/20 08:51	12/05/20 14:51	1
Fluoranthene	<0.0073		0.039	0.0073	mg/Kg	☼	12/04/20 08:51	12/05/20 14:51	1
Fluorene	<0.0055		0.039	0.0055	mg/Kg	☼	12/04/20 08:51	12/05/20 14:51	1
Hexachlorobenzene	<0.0091		0.080	0.0091	mg/Kg	☼	12/04/20 08:51	12/05/20 14:51	1
Hexachlorobutadiene	<0.062		0.20	0.062	mg/Kg	☼	12/04/20 08:51	12/05/20 14:51	1
Hexachlorocyclopentadiene	<0.23		0.80	0.23	mg/Kg	☼	12/04/20 08:51	12/05/20 14:51	1
Hexachloroethane	<0.060		0.20	0.060	mg/Kg	☼	12/04/20 08:51	12/05/20 14:51	1
Indeno[1,2,3-cd]pyrene	<0.010		0.039	0.010	mg/Kg	☼	12/04/20 08:51	12/05/20 14:51	1
Isophorone	<0.044		0.20	0.044	mg/Kg	☼	12/04/20 08:51	12/05/20 14:51	1
2-Methylnaphthalene	<0.0073		0.080	0.0073	mg/Kg	☼	12/04/20 08:51	12/05/20 14:51	1
2-Methylphenol	<0.063		0.20	0.063	mg/Kg	☼	12/04/20 08:51	12/05/20 14:51	1
3 & 4 Methylphenol	<0.066		0.20	0.066	mg/Kg	☼	12/04/20 08:51	12/05/20 14:51	1
Naphthalene	<0.0061		0.039	0.0061	mg/Kg	☼	12/04/20 08:51	12/05/20 14:51	1
2-Nitroaniline	<0.053		0.20	0.053	mg/Kg	☼	12/04/20 08:51	12/05/20 14:51	1
3-Nitroaniline	<0.12		0.39	0.12	mg/Kg	☼	12/04/20 08:51	12/05/20 14:51	1
4-Nitroaniline	<0.16		0.39	0.16	mg/Kg	☼	12/04/20 08:51	12/05/20 14:51	1
Nitrobenzene	<0.0098		0.039	0.0098	mg/Kg	☼	12/04/20 08:51	12/05/20 14:51	1
2-Nitrophenol	<0.093		0.39	0.093	mg/Kg	☼	12/04/20 08:51	12/05/20 14:51	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191854-1

Client Sample ID: 3487-1-B02 (0-6)

Lab Sample ID: 500-191854-1

Date Collected: 12/02/20 08:30

Matrix: Solid

Date Received: 12/02/20 17:50

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.38		0.80	0.38	mg/Kg	☼	12/04/20 08:51	12/05/20 14:51	1
N-Nitrosodi-n-propylamine	<0.048		0.080	0.048	mg/Kg	☼	12/04/20 08:51	12/05/20 14:51	1
N-Nitrosodiphenylamine	<0.047		0.20	0.047	mg/Kg	☼	12/04/20 08:51	12/05/20 14:51	1
2,2'-oxybis[1-chloropropane]	<0.046		0.20	0.046	mg/Kg	☼	12/04/20 08:51	12/05/20 14:51	1
Pentachlorophenol	<0.63		0.80	0.63	mg/Kg	☼	12/04/20 08:51	12/05/20 14:51	1
Phenanthrene	<0.0055		0.039	0.0055	mg/Kg	☼	12/04/20 08:51	12/05/20 14:51	1
Phenol	<0.088		0.20	0.088	mg/Kg	☼	12/04/20 08:51	12/05/20 14:51	1
Pyrene	<0.0078		0.039	0.0078	mg/Kg	☼	12/04/20 08:51	12/05/20 14:51	1
1,2,4-Trichlorobenzene	<0.042		0.20	0.042	mg/Kg	☼	12/04/20 08:51	12/05/20 14:51	1
2,4,5-Trichlorophenol	<0.090		0.39	0.090	mg/Kg	☼	12/04/20 08:51	12/05/20 14:51	1
2,4,6-Trichlorophenol	<0.14		0.39	0.14	mg/Kg	☼	12/04/20 08:51	12/05/20 14:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	78		43 - 145				12/04/20 08:51	12/05/20 14:51	1
2-Fluorophenol	96		31 - 166				12/04/20 08:51	12/05/20 14:51	1
Nitrobenzene-d5	82		37 - 147				12/04/20 08:51	12/05/20 14:51	1
Phenol-d5	97		30 - 153				12/04/20 08:51	12/05/20 14:51	1
Terphenyl-d14	112		42 - 157				12/04/20 08:51	12/05/20 14:51	1
2,4,6-Tribromophenol	75		31 - 143				12/04/20 08:51	12/05/20 14:51	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.41	J	1.2	0.23	mg/Kg	☼	12/07/20 18:02	12/08/20 13:09	1
Arsenic	6.0		0.59	0.20	mg/Kg	☼	12/07/20 18:02	12/08/20 13:09	1
Barium	48		0.59	0.067	mg/Kg	☼	12/07/20 18:02	12/08/20 13:09	1
Beryllium	0.80		0.24	0.055	mg/Kg	☼	12/07/20 18:02	12/08/20 13:09	1
Cadmium	0.090	J B	0.12	0.021	mg/Kg	☼	12/07/20 18:02	12/08/20 13:09	1
Chromium	19		0.59	0.29	mg/Kg	☼	12/07/20 18:02	12/08/20 13:09	1
Cobalt	15		0.29	0.077	mg/Kg	☼	12/07/20 18:02	12/08/20 13:09	1
Copper	21		0.59	0.16	mg/Kg	☼	12/07/20 18:02	12/08/20 13:09	1
Iron	17000		12	6.1	mg/Kg	☼	12/07/20 18:02	12/08/20 13:09	1
Lead	12		0.29	0.14	mg/Kg	☼	12/07/20 18:02	12/08/20 13:09	1
Magnesium	34000		5.9	2.9	mg/Kg	☼	12/07/20 18:02	12/08/20 13:09	1
Calcium	96000	B	120	20	mg/Kg	☼	12/07/20 18:02	12/09/20 13:37	10
Manganese	480	B	0.59	0.085	mg/Kg	☼	12/07/20 18:02	12/08/20 13:09	1
Nickel	37		0.59	0.17	mg/Kg	☼	12/07/20 18:02	12/08/20 13:09	1
Selenium	<0.35		0.59	0.35	mg/Kg	☼	12/07/20 18:02	12/08/20 13:09	1
Silver	<0.076		0.29	0.076	mg/Kg	☼	12/07/20 18:02	12/08/20 13:09	1
Thallium	<0.29		0.59	0.29	mg/Kg	☼	12/07/20 18:02	12/08/20 13:09	1
Vanadium	24		0.29	0.069	mg/Kg	☼	12/07/20 18:02	12/08/20 13:09	1
Zinc	49		1.2	0.52	mg/Kg	☼	12/07/20 18:02	12/08/20 13:09	1
Potassium	3900		29	10	mg/Kg	☼	12/07/20 18:02	12/08/20 13:09	1
Sodium	900	B	59	8.7	mg/Kg	☼	12/07/20 18:02	12/08/20 13:09	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		12/08/20 17:06	12/09/20 22:04	1
Barium	0.37	J	0.50	0.050	mg/L		12/08/20 17:06	12/09/20 22:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/08/20 17:06	12/10/20 12:20	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		12/08/20 17:06	12/09/20 22:04	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191854-1

Client Sample ID: 3487-1-B02 (0-6)

Lab Sample ID: 500-191854-1

Date Collected: 12/02/20 08:30

Matrix: Solid

Date Received: 12/02/20 17:50

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	580		5.0	0.50	mg/L		12/08/20 17:06	12/09/20 22:04	1
Chromium	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 22:04	1
Cobalt	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 22:04	1
Copper	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 22:04	1
Iron	<0.20		0.40	0.20	mg/L		12/08/20 17:06	12/09/20 22:04	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/08/20 17:06	12/09/20 22:04	1
Magnesium	33		2.5	0.50	mg/L		12/08/20 17:06	12/10/20 12:20	1
Manganese	0.62		0.025	0.010	mg/L		12/08/20 17:06	12/10/20 12:20	1
Nickel	0.010	J	0.025	0.010	mg/L		12/08/20 17:06	12/09/20 22:04	1
Potassium	1.3	J	2.5	0.50	mg/L		12/08/20 17:06	12/09/20 22:04	1
Selenium	<0.020		0.050	0.020	mg/L		12/08/20 17:06	12/09/20 22:04	1
Silver	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 22:04	1
Vanadium	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 22:04	1
Zinc	<0.020		0.50	0.020	mg/L		12/08/20 17:06	12/09/20 22:04	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0024	J	0.0050	0.0020	mg/L		12/08/20 17:10	12/09/20 23:02	1
Lead	0.089		0.0075	0.0075	mg/L		12/08/20 17:10	12/09/20 23:02	1
Manganese	0.90		0.025	0.010	mg/L		12/08/20 17:10	12/11/20 10:51	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		12/08/20 17:06	12/09/20 14:43	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/08/20 17:06	12/09/20 14:43	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/09/20 08:35	12/10/20 07:02	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.014	J	0.019	0.0062	mg/Kg	⊛	12/08/20 14:00	12/09/20 06:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.13		0.26	0.13	mg/Kg	⊛	12/07/20 14:07	12/07/20 17:17	1
pH	8.0		0.2	0.2	SU			12/08/20 10:44	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191854-1

Client Sample ID: 3487-1-B02 (6-11.3)

Lab Sample ID: 500-191854-2

Date Collected: 12/02/20 08:35

Matrix: Solid

Date Received: 12/02/20 17:50

Percent Solids: 85.2

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	☼	12/03/20 17:19	12/09/20 05:04	1
Benzene	<0.00040		0.0016	0.00040	mg/Kg	☼	12/03/20 17:19	12/09/20 05:04	1
Bromodichloromethane	<0.00032		0.0016	0.00032	mg/Kg	☼	12/03/20 17:19	12/09/20 05:04	1
Bromoform	<0.00045		0.0016	0.00045	mg/Kg	☼	12/03/20 17:19	12/09/20 05:04	1
Bromomethane	<0.0015		0.0039	0.0015	mg/Kg	☼	12/03/20 17:19	12/09/20 05:04	1
2-Butanone (MEK)	<0.0017		0.0039	0.0017	mg/Kg	☼	12/03/20 17:19	12/09/20 05:04	1
Carbon disulfide	<0.00081		0.0039	0.00081	mg/Kg	☼	12/03/20 17:19	12/09/20 05:04	1
Carbon tetrachloride	<0.00045		0.0016	0.00045	mg/Kg	☼	12/03/20 17:19	12/09/20 05:04	1
Chlorobenzene	<0.00057		0.0016	0.00057	mg/Kg	☼	12/03/20 17:19	12/09/20 05:04	1
Chloroethane	<0.0012		0.0039	0.0012	mg/Kg	☼	12/03/20 17:19	12/09/20 05:04	1
Chloroform	<0.00054		0.0016	0.00054	mg/Kg	☼	12/03/20 17:19	12/09/20 05:04	1
Chloromethane	<0.0016 *		0.0039	0.0016	mg/Kg	☼	12/03/20 17:19	12/09/20 05:04	1
cis-1,2-Dichloroethene	<0.00044		0.0016	0.00044	mg/Kg	☼	12/03/20 17:19	12/09/20 05:04	1
cis-1,3-Dichloropropene	<0.00047		0.0016	0.00047	mg/Kg	☼	12/03/20 17:19	12/09/20 05:04	1
Dibromochloromethane	<0.00051		0.0016	0.00051	mg/Kg	☼	12/03/20 17:19	12/09/20 05:04	1
1,1-Dichloroethane	<0.00053 *		0.0016	0.00053	mg/Kg	☼	12/03/20 17:19	12/09/20 05:04	1
1,2-Dichloroethane	<0.0012		0.0039	0.0012	mg/Kg	☼	12/03/20 17:19	12/09/20 05:04	1
1,1-Dichloroethene	<0.00054		0.0016	0.00054	mg/Kg	☼	12/03/20 17:19	12/09/20 05:04	1
1,2-Dichloropropene	<0.00040		0.0016	0.00040	mg/Kg	☼	12/03/20 17:19	12/09/20 05:04	1
1,3-Dichloropropene, Total	<0.00055		0.0016	0.00055	mg/Kg	☼	12/03/20 17:19	12/09/20 05:04	1
Ethylbenzene	<0.00075		0.0016	0.00075	mg/Kg	☼	12/03/20 17:19	12/09/20 05:04	1
2-Hexanone	<0.0012		0.0039	0.0012	mg/Kg	☼	12/03/20 17:19	12/09/20 05:04	1
Methylene Chloride	<0.0015		0.0039	0.0015	mg/Kg	☼	12/03/20 17:19	12/09/20 05:04	1
4-Methyl-2-pentanone (MIBK)	<0.0012		0.0039	0.0012	mg/Kg	☼	12/03/20 17:19	12/09/20 05:04	1
Methyl tert-butyl ether	<0.00046		0.0016	0.00046	mg/Kg	☼	12/03/20 17:19	12/09/20 05:04	1
Styrene	<0.00047		0.0016	0.00047	mg/Kg	☼	12/03/20 17:19	12/09/20 05:04	1
1,1,2,2-Tetrachloroethane	<0.00050		0.0016	0.00050	mg/Kg	☼	12/03/20 17:19	12/09/20 05:04	1
Tetrachloroethene	<0.00053		0.0016	0.00053	mg/Kg	☼	12/03/20 17:19	12/09/20 05:04	1
Toluene	<0.00039		0.0016	0.00039	mg/Kg	☼	12/03/20 17:19	12/09/20 05:04	1
trans-1,2-Dichloroethene	<0.00069		0.0016	0.00069	mg/Kg	☼	12/03/20 17:19	12/09/20 05:04	1
trans-1,3-Dichloropropene	<0.00055		0.0016	0.00055	mg/Kg	☼	12/03/20 17:19	12/09/20 05:04	1
1,1,1-Trichloroethane	<0.00052		0.0016	0.00052	mg/Kg	☼	12/03/20 17:19	12/09/20 05:04	1
1,1,2-Trichloroethane	<0.00067		0.0016	0.00067	mg/Kg	☼	12/03/20 17:19	12/09/20 05:04	1
Trichloroethene	<0.00053		0.0016	0.00053	mg/Kg	☼	12/03/20 17:19	12/09/20 05:04	1
Vinyl acetate	<0.0014		0.0039	0.0014	mg/Kg	☼	12/03/20 17:19	12/09/20 05:04	1
Vinyl chloride	<0.00069		0.0016	0.00069	mg/Kg	☼	12/03/20 17:19	12/09/20 05:04	1
Xylenes, Total	<0.00050		0.0031	0.00050	mg/Kg	☼	12/03/20 17:19	12/09/20 05:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		75 - 131	12/03/20 17:19	12/09/20 05:04	1
Dibromofluoromethane	100		75 - 126	12/03/20 17:19	12/09/20 05:04	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	12/03/20 17:19	12/09/20 05:04	1
Toluene-d8 (Surr)	91		75 - 124	12/03/20 17:19	12/09/20 05:04	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	☼	12/04/20 08:51	12/05/20 15:18	1
Acenaphthylene	<0.0050		0.037	0.0050	mg/Kg	☼	12/04/20 08:51	12/05/20 15:18	1
Anthracene	<0.0063		0.037	0.0063	mg/Kg	☼	12/04/20 08:51	12/05/20 15:18	1
Benzo[a]anthracene	<0.0051		0.037	0.0051	mg/Kg	☼	12/04/20 08:51	12/05/20 15:18	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191854-1

Client Sample ID: 3487-1-B02 (6-11.3)

Lab Sample ID: 500-191854-2

Date Collected: 12/02/20 08:35

Matrix: Solid

Date Received: 12/02/20 17:50

Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.0073		0.037	0.0073	mg/Kg	☼	12/04/20 08:51	12/05/20 15:18	1
Benzo[b]fluoranthene	<0.0081		0.037	0.0081	mg/Kg	☼	12/04/20 08:51	12/05/20 15:18	1
Benzo[g,h,i]perylene	<0.012		0.037	0.012	mg/Kg	☼	12/04/20 08:51	12/05/20 15:18	1
Benzo[k]fluoranthene	<0.011		0.037	0.011	mg/Kg	☼	12/04/20 08:51	12/05/20 15:18	1
Bis(2-chloroethoxy)methane	<0.038		0.19	0.038	mg/Kg	☼	12/04/20 08:51	12/05/20 15:18	1
Bis(2-chloroethyl)ether	<0.056		0.19	0.056	mg/Kg	☼	12/04/20 08:51	12/05/20 15:18	1
Bis(2-ethylhexyl) phthalate	<0.069		0.19	0.069	mg/Kg	☼	12/04/20 08:51	12/05/20 15:18	1
4-Bromophenyl phenyl ether	<0.050		0.19	0.050	mg/Kg	☼	12/04/20 08:51	12/05/20 15:18	1
Butyl benzyl phthalate	<0.072		0.19	0.072	mg/Kg	☼	12/04/20 08:51	12/05/20 15:18	1
Carbazole	<0.094		0.19	0.094	mg/Kg	☼	12/04/20 08:51	12/05/20 15:18	1
4-Chloroaniline	<0.18		0.76	0.18	mg/Kg	☼	12/04/20 08:51	12/05/20 15:18	1
4-Chloro-3-methylphenol	<0.13		0.37	0.13	mg/Kg	☼	12/04/20 08:51	12/05/20 15:18	1
2-Chloronaphthalene	<0.042		0.19	0.042	mg/Kg	☼	12/04/20 08:51	12/05/20 15:18	1
2-Chlorophenol	<0.064		0.19	0.064	mg/Kg	☼	12/04/20 08:51	12/05/20 15:18	1
4-Chlorophenyl phenyl ether	<0.044		0.19	0.044	mg/Kg	☼	12/04/20 08:51	12/05/20 15:18	1
Chrysene	<0.010		0.037	0.010	mg/Kg	☼	12/04/20 08:51	12/05/20 15:18	1
Dibenz(a,h)anthracene	<0.0073		0.037	0.0073	mg/Kg	☼	12/04/20 08:51	12/05/20 15:18	1
Dibenzofuran	<0.044		0.19	0.044	mg/Kg	☼	12/04/20 08:51	12/05/20 15:18	1
1,2-Dichlorobenzene	<0.045		0.19	0.045	mg/Kg	☼	12/04/20 08:51	12/05/20 15:18	1
1,3-Dichlorobenzene	<0.042		0.19	0.042	mg/Kg	☼	12/04/20 08:51	12/05/20 15:18	1
1,4-Dichlorobenzene	<0.048		0.19	0.048	mg/Kg	☼	12/04/20 08:51	12/05/20 15:18	1
3,3'-Dichlorobenzidine	<0.053		0.19	0.053	mg/Kg	☼	12/04/20 08:51	12/05/20 15:18	1
2,4-Dichlorophenol	<0.089		0.37	0.089	mg/Kg	☼	12/04/20 08:51	12/05/20 15:18	1
Diethyl phthalate	<0.064		0.19	0.064	mg/Kg	☼	12/04/20 08:51	12/05/20 15:18	1
2,4-Dimethylphenol	<0.14		0.37	0.14	mg/Kg	☼	12/04/20 08:51	12/05/20 15:18	1
Dimethyl phthalate	<0.049		0.19	0.049	mg/Kg	☼	12/04/20 08:51	12/05/20 15:18	1
Di-n-butyl phthalate	<0.057		0.19	0.057	mg/Kg	☼	12/04/20 08:51	12/05/20 15:18	1
4,6-Dinitro-2-methylphenol	<0.30		0.76	0.30	mg/Kg	☼	12/04/20 08:51	12/05/20 15:18	1
2,4-Dinitrophenol	<0.66		0.76	0.66	mg/Kg	☼	12/04/20 08:51	12/05/20 15:18	1
2,4-Dinitrotoluene	<0.060		0.19	0.060	mg/Kg	☼	12/04/20 08:51	12/05/20 15:18	1
2,6-Dinitrotoluene	<0.074		0.19	0.074	mg/Kg	☼	12/04/20 08:51	12/05/20 15:18	1
Di-n-octyl phthalate	<0.061		0.19	0.061	mg/Kg	☼	12/04/20 08:51	12/05/20 15:18	1
Fluoranthene	<0.0070		0.037	0.0070	mg/Kg	☼	12/04/20 08:51	12/05/20 15:18	1
Fluorene	<0.0053		0.037	0.0053	mg/Kg	☼	12/04/20 08:51	12/05/20 15:18	1
Hexachlorobenzene	<0.0087		0.076	0.0087	mg/Kg	☼	12/04/20 08:51	12/05/20 15:18	1
Hexachlorobutadiene	<0.059		0.19	0.059	mg/Kg	☼	12/04/20 08:51	12/05/20 15:18	1
Hexachlorocyclopentadiene	<0.22		0.76	0.22	mg/Kg	☼	12/04/20 08:51	12/05/20 15:18	1
Hexachloroethane	<0.057		0.19	0.057	mg/Kg	☼	12/04/20 08:51	12/05/20 15:18	1
Indeno[1,2,3-cd]pyrene	<0.0098		0.037	0.0098	mg/Kg	☼	12/04/20 08:51	12/05/20 15:18	1
Isophorone	<0.042		0.19	0.042	mg/Kg	☼	12/04/20 08:51	12/05/20 15:18	1
2-Methylnaphthalene	<0.0069		0.076	0.0069	mg/Kg	☼	12/04/20 08:51	12/05/20 15:18	1
2-Methylphenol	<0.060		0.19	0.060	mg/Kg	☼	12/04/20 08:51	12/05/20 15:18	1
3 & 4 Methylphenol	<0.063		0.19	0.063	mg/Kg	☼	12/04/20 08:51	12/05/20 15:18	1
Naphthalene	<0.0058		0.037	0.0058	mg/Kg	☼	12/04/20 08:51	12/05/20 15:18	1
2-Nitroaniline	<0.051		0.19	0.051	mg/Kg	☼	12/04/20 08:51	12/05/20 15:18	1
3-Nitroaniline	<0.12		0.37	0.12	mg/Kg	☼	12/04/20 08:51	12/05/20 15:18	1
4-Nitroaniline	<0.16		0.37	0.16	mg/Kg	☼	12/04/20 08:51	12/05/20 15:18	1
Nitrobenzene	<0.0094		0.037	0.0094	mg/Kg	☼	12/04/20 08:51	12/05/20 15:18	1
2-Nitrophenol	<0.089		0.37	0.089	mg/Kg	☼	12/04/20 08:51	12/05/20 15:18	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191854-1

Client Sample ID: 3487-1-B02 (6-11.3)

Lab Sample ID: 500-191854-2

Date Collected: 12/02/20 08:35

Matrix: Solid

Date Received: 12/02/20 17:50

Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.36		0.76	0.36	mg/Kg	☼	12/04/20 08:51	12/05/20 15:18	1
N-Nitrosodi-n-propylamine	<0.046		0.076	0.046	mg/Kg	☼	12/04/20 08:51	12/05/20 15:18	1
N-Nitrosodiphenylamine	<0.044		0.19	0.044	mg/Kg	☼	12/04/20 08:51	12/05/20 15:18	1
2,2'-oxybis[1-chloropropane]	<0.044		0.19	0.044	mg/Kg	☼	12/04/20 08:51	12/05/20 15:18	1
Pentachlorophenol	<0.60		0.76	0.60	mg/Kg	☼	12/04/20 08:51	12/05/20 15:18	1
Phenanthrene	0.0070	J	0.037	0.0053	mg/Kg	☼	12/04/20 08:51	12/05/20 15:18	1
Phenol	<0.084		0.19	0.084	mg/Kg	☼	12/04/20 08:51	12/05/20 15:18	1
Pyrene	<0.0075		0.037	0.0075	mg/Kg	☼	12/04/20 08:51	12/05/20 15:18	1
1,2,4-Trichlorobenzene	<0.041		0.19	0.041	mg/Kg	☼	12/04/20 08:51	12/05/20 15:18	1
2,4,5-Trichlorophenol	<0.086		0.37	0.086	mg/Kg	☼	12/04/20 08:51	12/05/20 15:18	1
2,4,6-Trichlorophenol	<0.13		0.37	0.13	mg/Kg	☼	12/04/20 08:51	12/05/20 15:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	75		43 - 145				12/04/20 08:51	12/05/20 15:18	1
2-Fluorophenol	88		31 - 166				12/04/20 08:51	12/05/20 15:18	1
Nitrobenzene-d5	78		37 - 147				12/04/20 08:51	12/05/20 15:18	1
Phenol-d5	85		30 - 153				12/04/20 08:51	12/05/20 15:18	1
Terphenyl-d14	105		42 - 157				12/04/20 08:51	12/05/20 15:18	1
2,4,6-Tribromophenol	67		31 - 143				12/04/20 08:51	12/05/20 15:18	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.52	J	1.1	0.22	mg/Kg	☼	12/07/20 18:02	12/08/20 13:12	1
Arsenic	2.9		0.57	0.19	mg/Kg	☼	12/07/20 18:02	12/08/20 13:12	1
Barium	50		0.57	0.065	mg/Kg	☼	12/07/20 18:02	12/08/20 13:12	1
Beryllium	0.70		0.23	0.053	mg/Kg	☼	12/07/20 18:02	12/08/20 13:12	1
Cadmium	0.073	J B	0.11	0.020	mg/Kg	☼	12/07/20 18:02	12/08/20 13:12	1
Chromium	18		0.57	0.28	mg/Kg	☼	12/07/20 18:02	12/08/20 13:12	1
Cobalt	7.4		0.28	0.074	mg/Kg	☼	12/07/20 18:02	12/08/20 13:12	1
Copper	19		0.57	0.16	mg/Kg	☼	12/07/20 18:02	12/08/20 13:12	1
Iron	15000		11	5.9	mg/Kg	☼	12/07/20 18:02	12/08/20 13:12	1
Lead	9.9		0.28	0.13	mg/Kg	☼	12/07/20 18:02	12/08/20 13:12	1
Magnesium	33000		5.7	2.8	mg/Kg	☼	12/07/20 18:02	12/08/20 13:12	1
Calcium	80000	B	110	19	mg/Kg	☼	12/07/20 18:02	12/09/20 13:40	10
Manganese	300	B	0.57	0.082	mg/Kg	☼	12/07/20 18:02	12/08/20 13:12	1
Nickel	25		0.57	0.16	mg/Kg	☼	12/07/20 18:02	12/08/20 13:12	1
Selenium	<0.33		0.57	0.33	mg/Kg	☼	12/07/20 18:02	12/08/20 13:12	1
Silver	<0.073		0.28	0.073	mg/Kg	☼	12/07/20 18:02	12/08/20 13:12	1
Thallium	<0.28		0.57	0.28	mg/Kg	☼	12/07/20 18:02	12/08/20 13:12	1
Vanadium	22		0.28	0.067	mg/Kg	☼	12/07/20 18:02	12/08/20 13:12	1
Zinc	45		1.1	0.50	mg/Kg	☼	12/07/20 18:02	12/08/20 13:12	1
Potassium	3900		28	10	mg/Kg	☼	12/07/20 18:02	12/08/20 13:12	1
Sodium	330	B	57	8.4	mg/Kg	☼	12/07/20 18:02	12/08/20 13:12	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		12/08/20 17:06	12/09/20 22:08	1
Barium	0.71		0.50	0.050	mg/L		12/08/20 17:06	12/09/20 22:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/08/20 17:06	12/10/20 12:23	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		12/08/20 17:06	12/09/20 22:08	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191854-1

Client Sample ID: 3487-1-B02 (6-11.3)

Lab Sample ID: 500-191854-2

Date Collected: 12/02/20 08:35

Matrix: Solid

Date Received: 12/02/20 17:50

Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	520		5.0	0.50	mg/L		12/08/20 17:06	12/09/20 22:08	1
Chromium	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 22:08	1
Cobalt	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 22:08	1
Copper	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 22:08	1
Iron	<0.20		0.40	0.20	mg/L		12/08/20 17:06	12/09/20 22:08	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/08/20 17:06	12/09/20 22:08	1
Magnesium	53		2.5	0.50	mg/L		12/08/20 17:06	12/10/20 12:23	1
Manganese	1.2		0.025	0.010	mg/L		12/08/20 17:06	12/10/20 12:23	1
Nickel	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 22:08	1
Potassium	3.3		2.5	0.50	mg/L		12/08/20 17:06	12/09/20 22:08	1
Selenium	<0.020		0.050	0.020	mg/L		12/08/20 17:06	12/09/20 22:08	1
Silver	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 22:08	1
Vanadium	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 22:08	1
Zinc	<0.020		0.50	0.020	mg/L		12/08/20 17:06	12/09/20 22:08	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		12/08/20 17:10	12/09/20 23:06	1
Manganese	<0.010		0.025	0.010	mg/L		12/08/20 17:10	12/11/20 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		12/08/20 17:06	12/09/20 14:45	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/08/20 17:06	12/09/20 14:45	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		12/09/20 08:35	12/10/20 07:04	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.014	J	0.019	0.0062	mg/Kg	✱	12/08/20 14:00	12/09/20 06:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.14		0.27	0.14	mg/Kg	✱	12/07/20 14:07	12/07/20 17:19	1
pH	7.9		0.2	0.2	SU			12/08/20 10:47	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191854-1

Client Sample ID: 3487-1-B02 (6-11.3) Dup

Lab Sample ID: 500-191854-3

Date Collected: 12/02/20 08:40

Matrix: Solid

Date Received: 12/02/20 17:50

Percent Solids: 84.7

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	☼	12/03/20 17:19	12/10/20 10:07	1
Benzene	<0.00040		0.0016	0.00040	mg/Kg	☼	12/03/20 17:19	12/10/20 10:07	1
Bromodichloromethane	<0.00032		0.0016	0.00032	mg/Kg	☼	12/03/20 17:19	12/10/20 10:07	1
Bromoform	<0.00045		0.0016	0.00045	mg/Kg	☼	12/03/20 17:19	12/10/20 10:07	1
Bromomethane	<0.0015		0.0039	0.0015	mg/Kg	☼	12/03/20 17:19	12/10/20 10:07	1
2-Butanone (MEK)	<0.0017		0.0039	0.0017	mg/Kg	☼	12/03/20 17:19	12/10/20 10:07	1
Carbon disulfide	<0.00081		0.0039	0.00081	mg/Kg	☼	12/03/20 17:19	12/10/20 10:07	1
Carbon tetrachloride	<0.00045		0.0016	0.00045	mg/Kg	☼	12/03/20 17:19	12/10/20 10:07	1
Chlorobenzene	<0.00057		0.0016	0.00057	mg/Kg	☼	12/03/20 17:19	12/10/20 10:07	1
Chloroethane	<0.0011 *		0.0039	0.0011	mg/Kg	☼	12/03/20 17:19	12/10/20 10:07	1
Chloroform	<0.00054		0.0016	0.00054	mg/Kg	☼	12/03/20 17:19	12/10/20 10:07	1
Chloromethane	<0.0016		0.0039	0.0016	mg/Kg	☼	12/03/20 17:19	12/10/20 10:07	1
cis-1,2-Dichloroethene	<0.00043		0.0016	0.00043	mg/Kg	☼	12/03/20 17:19	12/10/20 10:07	1
cis-1,3-Dichloropropene	<0.00047		0.0016	0.00047	mg/Kg	☼	12/03/20 17:19	12/10/20 10:07	1
Dibromochloromethane	<0.00051		0.0016	0.00051	mg/Kg	☼	12/03/20 17:19	12/10/20 10:07	1
1,1-Dichloroethane	<0.00053		0.0016	0.00053	mg/Kg	☼	12/03/20 17:19	12/10/20 10:07	1
1,2-Dichloroethane	<0.0012		0.0039	0.0012	mg/Kg	☼	12/03/20 17:19	12/10/20 10:07	1
1,1-Dichloroethene	<0.00053		0.0016	0.00053	mg/Kg	☼	12/03/20 17:19	12/10/20 10:07	1
1,2-Dichloropropene	<0.00040		0.0016	0.00040	mg/Kg	☼	12/03/20 17:19	12/10/20 10:07	1
1,3-Dichloropropene, Total	<0.00054		0.0016	0.00054	mg/Kg	☼	12/03/20 17:19	12/10/20 10:07	1
Ethylbenzene	<0.00074		0.0016	0.00074	mg/Kg	☼	12/03/20 17:19	12/10/20 10:07	1
2-Hexanone	<0.0012		0.0039	0.0012	mg/Kg	☼	12/03/20 17:19	12/10/20 10:07	1
Methylene Chloride	<0.0015		0.0039	0.0015	mg/Kg	☼	12/03/20 17:19	12/10/20 10:07	1
4-Methyl-2-pentanone (MIBK)	<0.0011		0.0039	0.0011	mg/Kg	☼	12/03/20 17:19	12/10/20 10:07	1
Methyl tert-butyl ether	<0.00046		0.0016	0.00046	mg/Kg	☼	12/03/20 17:19	12/10/20 10:07	1
Styrene	<0.00047		0.0016	0.00047	mg/Kg	☼	12/03/20 17:19	12/10/20 10:07	1
1,1,2,2-Tetrachloroethane	<0.00050		0.0016	0.00050	mg/Kg	☼	12/03/20 17:19	12/10/20 10:07	1
Tetrachloroethene	<0.00053		0.0016	0.00053	mg/Kg	☼	12/03/20 17:19	12/10/20 10:07	1
Toluene	<0.00039		0.0016	0.00039	mg/Kg	☼	12/03/20 17:19	12/10/20 10:07	1
trans-1,2-Dichloroethene	<0.00069		0.0016	0.00069	mg/Kg	☼	12/03/20 17:19	12/10/20 10:07	1
trans-1,3-Dichloropropene	<0.00054		0.0016	0.00054	mg/Kg	☼	12/03/20 17:19	12/10/20 10:07	1
1,1,1-Trichloroethane	<0.00052		0.0016	0.00052	mg/Kg	☼	12/03/20 17:19	12/10/20 10:07	1
1,1,2-Trichloroethane	<0.00067		0.0016	0.00067	mg/Kg	☼	12/03/20 17:19	12/10/20 10:07	1
Trichloroethene	<0.00052		0.0016	0.00052	mg/Kg	☼	12/03/20 17:19	12/10/20 10:07	1
Vinyl acetate	<0.0014		0.0039	0.0014	mg/Kg	☼	12/03/20 17:19	12/10/20 10:07	1
Vinyl chloride	<0.00069		0.0016	0.00069	mg/Kg	☼	12/03/20 17:19	12/10/20 10:07	1
Xylenes, Total	<0.00050		0.0031	0.00050	mg/Kg	☼	12/03/20 17:19	12/10/20 10:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		75 - 131	12/03/20 17:19	12/10/20 10:07	1
Dibromofluoromethane	99		75 - 126	12/03/20 17:19	12/10/20 10:07	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	12/03/20 17:19	12/10/20 10:07	1
Toluene-d8 (Surr)	96		75 - 124	12/03/20 17:19	12/10/20 10:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0070		0.038	0.0070	mg/Kg	☼	12/04/20 08:51	12/05/20 15:46	1
Acenaphthylene	<0.0051		0.038	0.0051	mg/Kg	☼	12/04/20 08:51	12/05/20 15:46	1
Anthracene	<0.0065		0.038	0.0065	mg/Kg	☼	12/04/20 08:51	12/05/20 15:46	1
Benzo[a]anthracene	<0.0052		0.038	0.0052	mg/Kg	☼	12/04/20 08:51	12/05/20 15:46	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191854-1

Client Sample ID: 3487-1-B02 (6-11.3) Dup

Lab Sample ID: 500-191854-3

Date Collected: 12/02/20 08:40

Matrix: Solid

Date Received: 12/02/20 17:50

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		0.038	0.0075	mg/Kg	☼	12/04/20 08:51	12/05/20 15:46	1
Benzo[b]fluoranthene	<0.0084		0.038	0.0084	mg/Kg	☼	12/04/20 08:51	12/05/20 15:46	1
Benzo[g,h,i]perylene	<0.012		0.038	0.012	mg/Kg	☼	12/04/20 08:51	12/05/20 15:46	1
Benzo[k]fluoranthene	<0.011		0.038	0.011	mg/Kg	☼	12/04/20 08:51	12/05/20 15:46	1
Bis(2-chloroethoxy)methane	<0.040		0.19	0.040	mg/Kg	☼	12/04/20 08:51	12/05/20 15:46	1
Bis(2-chloroethyl)ether	<0.058		0.19	0.058	mg/Kg	☼	12/04/20 08:51	12/05/20 15:46	1
Bis(2-ethylhexyl) phthalate	<0.071		0.19	0.071	mg/Kg	☼	12/04/20 08:51	12/05/20 15:46	1
4-Bromophenyl phenyl ether	<0.051		0.19	0.051	mg/Kg	☼	12/04/20 08:51	12/05/20 15:46	1
Butyl benzyl phthalate	<0.074		0.19	0.074	mg/Kg	☼	12/04/20 08:51	12/05/20 15:46	1
Carbazole	<0.097		0.19	0.097	mg/Kg	☼	12/04/20 08:51	12/05/20 15:46	1
4-Chloroaniline	<0.18		0.78	0.18	mg/Kg	☼	12/04/20 08:51	12/05/20 15:46	1
4-Chloro-3-methylphenol	<0.13		0.38	0.13	mg/Kg	☼	12/04/20 08:51	12/05/20 15:46	1
2-Chloronaphthalene	<0.043		0.19	0.043	mg/Kg	☼	12/04/20 08:51	12/05/20 15:46	1
2-Chlorophenol	<0.066		0.19	0.066	mg/Kg	☼	12/04/20 08:51	12/05/20 15:46	1
4-Chlorophenyl phenyl ether	<0.045		0.19	0.045	mg/Kg	☼	12/04/20 08:51	12/05/20 15:46	1
Chrysene	<0.011		0.038	0.011	mg/Kg	☼	12/04/20 08:51	12/05/20 15:46	1
Dibenz(a,h)anthracene	<0.0075		0.038	0.0075	mg/Kg	☼	12/04/20 08:51	12/05/20 15:46	1
Dibenzofuran	<0.045		0.19	0.045	mg/Kg	☼	12/04/20 08:51	12/05/20 15:46	1
1,2-Dichlorobenzene	<0.046		0.19	0.046	mg/Kg	☼	12/04/20 08:51	12/05/20 15:46	1
1,3-Dichlorobenzene	<0.044		0.19	0.044	mg/Kg	☼	12/04/20 08:51	12/05/20 15:46	1
1,4-Dichlorobenzene	<0.050		0.19	0.050	mg/Kg	☼	12/04/20 08:51	12/05/20 15:46	1
3,3'-Dichlorobenzidine	<0.054		0.19	0.054	mg/Kg	☼	12/04/20 08:51	12/05/20 15:46	1
2,4-Dichlorophenol	<0.092		0.38	0.092	mg/Kg	☼	12/04/20 08:51	12/05/20 15:46	1
Diethyl phthalate	<0.066		0.19	0.066	mg/Kg	☼	12/04/20 08:51	12/05/20 15:46	1
2,4-Dimethylphenol	<0.15		0.38	0.15	mg/Kg	☼	12/04/20 08:51	12/05/20 15:46	1
Dimethyl phthalate	<0.051		0.19	0.051	mg/Kg	☼	12/04/20 08:51	12/05/20 15:46	1
Di-n-butyl phthalate	<0.059		0.19	0.059	mg/Kg	☼	12/04/20 08:51	12/05/20 15:46	1
4,6-Dinitro-2-methylphenol	<0.31		0.78	0.31	mg/Kg	☼	12/04/20 08:51	12/05/20 15:46	1
2,4-Dinitrophenol	<0.68		0.78	0.68	mg/Kg	☼	12/04/20 08:51	12/05/20 15:46	1
2,4-Dinitrotoluene	<0.062		0.19	0.062	mg/Kg	☼	12/04/20 08:51	12/05/20 15:46	1
2,6-Dinitrotoluene	<0.076		0.19	0.076	mg/Kg	☼	12/04/20 08:51	12/05/20 15:46	1
Di-n-octyl phthalate	<0.063		0.19	0.063	mg/Kg	☼	12/04/20 08:51	12/05/20 15:46	1
Fluoranthene	<0.0072		0.038	0.0072	mg/Kg	☼	12/04/20 08:51	12/05/20 15:46	1
Fluorene	<0.0054		0.038	0.0054	mg/Kg	☼	12/04/20 08:51	12/05/20 15:46	1
Hexachlorobenzene	<0.0090		0.078	0.0090	mg/Kg	☼	12/04/20 08:51	12/05/20 15:46	1
Hexachlorobutadiene	<0.061		0.19	0.061	mg/Kg	☼	12/04/20 08:51	12/05/20 15:46	1
Hexachlorocyclopentadiene	<0.22		0.78	0.22	mg/Kg	☼	12/04/20 08:51	12/05/20 15:46	1
Hexachloroethane	<0.059		0.19	0.059	mg/Kg	☼	12/04/20 08:51	12/05/20 15:46	1
Indeno[1,2,3-cd]pyrene	<0.010		0.038	0.010	mg/Kg	☼	12/04/20 08:51	12/05/20 15:46	1
Isophorone	<0.043		0.19	0.043	mg/Kg	☼	12/04/20 08:51	12/05/20 15:46	1
2-Methylnaphthalene	<0.0071		0.078	0.0071	mg/Kg	☼	12/04/20 08:51	12/05/20 15:46	1
2-Methylphenol	<0.062		0.19	0.062	mg/Kg	☼	12/04/20 08:51	12/05/20 15:46	1
3 & 4 Methylphenol	<0.065		0.19	0.065	mg/Kg	☼	12/04/20 08:51	12/05/20 15:46	1
Naphthalene	<0.0060		0.038	0.0060	mg/Kg	☼	12/04/20 08:51	12/05/20 15:46	1
2-Nitroaniline	<0.052		0.19	0.052	mg/Kg	☼	12/04/20 08:51	12/05/20 15:46	1
3-Nitroaniline	<0.12		0.38	0.12	mg/Kg	☼	12/04/20 08:51	12/05/20 15:46	1
4-Nitroaniline	<0.16		0.38	0.16	mg/Kg	☼	12/04/20 08:51	12/05/20 15:46	1
Nitrobenzene	<0.0097		0.038	0.0097	mg/Kg	☼	12/04/20 08:51	12/05/20 15:46	1
2-Nitrophenol	<0.092		0.38	0.092	mg/Kg	☼	12/04/20 08:51	12/05/20 15:46	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191854-1

Client Sample ID: 3487-1-B02 (6-11.3) Dup

Lab Sample ID: 500-191854-3

Date Collected: 12/02/20 08:40

Matrix: Solid

Date Received: 12/02/20 17:50

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	☼	12/04/20 08:51	12/05/20 15:46	1
N-Nitrosodi-n-propylamine	<0.047		0.078	0.047	mg/Kg	☼	12/04/20 08:51	12/05/20 15:46	1
N-Nitrosodiphenylamine	<0.046		0.19	0.046	mg/Kg	☼	12/04/20 08:51	12/05/20 15:46	1
2,2'-oxybis[1-chloropropane]	<0.045		0.19	0.045	mg/Kg	☼	12/04/20 08:51	12/05/20 15:46	1
Pentachlorophenol	<0.62		0.78	0.62	mg/Kg	☼	12/04/20 08:51	12/05/20 15:46	1
Phenanthrene	0.0067	J	0.038	0.0054	mg/Kg	☼	12/04/20 08:51	12/05/20 15:46	1
Phenol	<0.086		0.19	0.086	mg/Kg	☼	12/04/20 08:51	12/05/20 15:46	1
Pyrene	<0.0077		0.038	0.0077	mg/Kg	☼	12/04/20 08:51	12/05/20 15:46	1
1,2,4-Trichlorobenzene	<0.042		0.19	0.042	mg/Kg	☼	12/04/20 08:51	12/05/20 15:46	1
2,4,5-Trichlorophenol	<0.088		0.38	0.088	mg/Kg	☼	12/04/20 08:51	12/05/20 15:46	1
2,4,6-Trichlorophenol	<0.13		0.38	0.13	mg/Kg	☼	12/04/20 08:51	12/05/20 15:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	78		43 - 145				12/04/20 08:51	12/05/20 15:46	1
2-Fluorophenol	93		31 - 166				12/04/20 08:51	12/05/20 15:46	1
Nitrobenzene-d5	83		37 - 147				12/04/20 08:51	12/05/20 15:46	1
Phenol-d5	84		30 - 153				12/04/20 08:51	12/05/20 15:46	1
Terphenyl-d14	103		42 - 157				12/04/20 08:51	12/05/20 15:46	1
2,4,6-Tribromophenol	67		31 - 143				12/04/20 08:51	12/05/20 15:46	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.55	J	1.2	0.22	mg/Kg	☼	12/07/20 18:02	12/08/20 13:16	1
Arsenic	3.5		0.58	0.20	mg/Kg	☼	12/07/20 18:02	12/08/20 13:16	1
Barium	58		0.58	0.066	mg/Kg	☼	12/07/20 18:02	12/08/20 13:16	1
Beryllium	0.74		0.23	0.054	mg/Kg	☼	12/07/20 18:02	12/08/20 13:16	1
Cadmium	0.091	J B	0.12	0.021	mg/Kg	☼	12/07/20 18:02	12/08/20 13:16	1
Chromium	18		0.58	0.29	mg/Kg	☼	12/07/20 18:02	12/08/20 13:16	1
Cobalt	8.5		0.29	0.076	mg/Kg	☼	12/07/20 18:02	12/08/20 13:16	1
Copper	19		0.58	0.16	mg/Kg	☼	12/07/20 18:02	12/08/20 13:16	1
Iron	15000		12	6.0	mg/Kg	☼	12/07/20 18:02	12/08/20 13:16	1
Lead	10		0.29	0.13	mg/Kg	☼	12/07/20 18:02	12/08/20 13:16	1
Magnesium	34000		5.8	2.9	mg/Kg	☼	12/07/20 18:02	12/08/20 13:16	1
Calcium	89000	B	120	20	mg/Kg	☼	12/07/20 18:02	12/09/20 13:43	10
Manganese	300	B	0.58	0.084	mg/Kg	☼	12/07/20 18:02	12/08/20 13:16	1
Nickel	28		0.58	0.17	mg/Kg	☼	12/07/20 18:02	12/08/20 13:16	1
Selenium	<0.34		0.58	0.34	mg/Kg	☼	12/07/20 18:02	12/08/20 13:16	1
Silver	<0.075		0.29	0.075	mg/Kg	☼	12/07/20 18:02	12/08/20 13:16	1
Thallium	<0.29		0.58	0.29	mg/Kg	☼	12/07/20 18:02	12/08/20 13:16	1
Vanadium	23		0.29	0.068	mg/Kg	☼	12/07/20 18:02	12/08/20 13:16	1
Zinc	48		1.2	0.51	mg/Kg	☼	12/07/20 18:02	12/08/20 13:16	1
Potassium	4000		29	10	mg/Kg	☼	12/07/20 18:02	12/08/20 13:16	1
Sodium	380	B	58	8.6	mg/Kg	☼	12/07/20 18:02	12/08/20 13:16	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		12/08/20 17:06	12/09/20 22:11	1
Barium	0.65		0.50	0.050	mg/L		12/08/20 17:06	12/09/20 22:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/08/20 17:06	12/10/20 12:33	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		12/08/20 17:06	12/09/20 22:11	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191854-1

Client Sample ID: 3487-1-B02 (6-11.3) Dup

Lab Sample ID: 500-191854-3

Date Collected: 12/02/20 08:40

Matrix: Solid

Date Received: 12/02/20 17:50

Percent Solids: 84.7

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		12/08/20 17:06	12/09/20 22:11	1
Chromium	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 22:11	1
Cobalt	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 22:11	1
Copper	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 22:11	1
Iron	<0.20		0.40	0.20	mg/L		12/08/20 17:06	12/09/20 22:11	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/08/20 17:06	12/09/20 22:11	1
Magnesium	51		2.5	0.50	mg/L		12/08/20 17:06	12/10/20 12:33	1
Manganese	1.2		0.025	0.010	mg/L		12/08/20 17:06	12/10/20 12:33	1
Nickel	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 22:11	1
Potassium	3.3		2.5	0.50	mg/L		12/08/20 17:06	12/09/20 22:11	1
Selenium	<0.020		0.050	0.020	mg/L		12/08/20 17:06	12/09/20 22:11	1
Silver	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 22:11	1
Vanadium	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 22:11	1
Zinc	<0.020		0.50	0.020	mg/L		12/08/20 17:06	12/09/20 22:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.010		0.025	0.010	mg/L		12/08/20 17:10	12/11/20 10:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/08/20 17:06	12/09/20 14:47	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/08/20 17:06	12/09/20 14:47	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/09/20 08:35	12/10/20 07:06	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.018	0.0062	mg/Kg	✱	12/08/20 14:00	12/09/20 06:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.15		0.30	0.15	mg/Kg	✱	12/07/20 14:07	12/07/20 17:24	1
pH	8.0		0.2	0.2	SU			12/08/20 10:49	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191854-1

Client Sample ID: 3487-1-B04 (0-1.3)

Lab Sample ID: 500-191854-4

Date Collected: 12/02/20 09:00

Matrix: Solid

Date Received: 12/02/20 17:50

Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.017		0.017	0.0073	mg/Kg	☼	12/03/20 17:19	12/10/20 10:32	1
Benzene	<0.00043		0.0017	0.00043	mg/Kg	☼	12/03/20 17:19	12/10/20 10:32	1
Bromodichloromethane	<0.00034		0.0017	0.00034	mg/Kg	☼	12/03/20 17:19	12/10/20 10:32	1
Bromoform	<0.00049		0.0017	0.00049	mg/Kg	☼	12/03/20 17:19	12/10/20 10:32	1
Bromomethane	<0.0016		0.0042	0.0016	mg/Kg	☼	12/03/20 17:19	12/10/20 10:32	1
2-Butanone (MEK)	0.0040	J	0.0042	0.0019	mg/Kg	☼	12/03/20 17:19	12/10/20 10:32	1
Carbon disulfide	<0.00088		0.0042	0.00088	mg/Kg	☼	12/03/20 17:19	12/10/20 10:32	1
Carbon tetrachloride	<0.00049		0.0017	0.00049	mg/Kg	☼	12/03/20 17:19	12/10/20 10:32	1
Chlorobenzene	<0.00062		0.0017	0.00062	mg/Kg	☼	12/03/20 17:19	12/10/20 10:32	1
Chloroethane	<0.0012	*	0.0042	0.0012	mg/Kg	☼	12/03/20 17:19	12/10/20 10:32	1
Chloroform	<0.00058		0.0017	0.00058	mg/Kg	☼	12/03/20 17:19	12/10/20 10:32	1
Chloromethane	<0.0017		0.0042	0.0017	mg/Kg	☼	12/03/20 17:19	12/10/20 10:32	1
cis-1,2-Dichloroethene	<0.00047		0.0017	0.00047	mg/Kg	☼	12/03/20 17:19	12/10/20 10:32	1
cis-1,3-Dichloropropene	<0.00051		0.0017	0.00051	mg/Kg	☼	12/03/20 17:19	12/10/20 10:32	1
Dibromochloromethane	<0.00055		0.0017	0.00055	mg/Kg	☼	12/03/20 17:19	12/10/20 10:32	1
1,1-Dichloroethane	<0.00058		0.0017	0.00058	mg/Kg	☼	12/03/20 17:19	12/10/20 10:32	1
1,2-Dichloroethane	<0.0013		0.0042	0.0013	mg/Kg	☼	12/03/20 17:19	12/10/20 10:32	1
1,1-Dichloroethene	<0.00058		0.0017	0.00058	mg/Kg	☼	12/03/20 17:19	12/10/20 10:32	1
1,2-Dichloropropene	<0.00044		0.0017	0.00044	mg/Kg	☼	12/03/20 17:19	12/10/20 10:32	1
1,3-Dichloropropene, Total	<0.00059		0.0017	0.00059	mg/Kg	☼	12/03/20 17:19	12/10/20 10:32	1
Ethylbenzene	<0.00081		0.0017	0.00081	mg/Kg	☼	12/03/20 17:19	12/10/20 10:32	1
2-Hexanone	<0.0013		0.0042	0.0013	mg/Kg	☼	12/03/20 17:19	12/10/20 10:32	1
Methylene Chloride	<0.0017		0.0042	0.0017	mg/Kg	☼	12/03/20 17:19	12/10/20 10:32	1
4-Methyl-2-pentanone (MIBK)	<0.0012		0.0042	0.0012	mg/Kg	☼	12/03/20 17:19	12/10/20 10:32	1
Methyl tert-butyl ether	<0.00049		0.0017	0.00049	mg/Kg	☼	12/03/20 17:19	12/10/20 10:32	1
Styrene	<0.00051		0.0017	0.00051	mg/Kg	☼	12/03/20 17:19	12/10/20 10:32	1
1,1,2,2-Tetrachloroethane	<0.00054		0.0017	0.00054	mg/Kg	☼	12/03/20 17:19	12/10/20 10:32	1
Tetrachloroethene	<0.00057		0.0017	0.00057	mg/Kg	☼	12/03/20 17:19	12/10/20 10:32	1
Toluene	<0.00043		0.0017	0.00043	mg/Kg	☼	12/03/20 17:19	12/10/20 10:32	1
trans-1,2-Dichloroethene	<0.00075		0.0017	0.00075	mg/Kg	☼	12/03/20 17:19	12/10/20 10:32	1
trans-1,3-Dichloropropene	<0.00059		0.0017	0.00059	mg/Kg	☼	12/03/20 17:19	12/10/20 10:32	1
1,1,1-Trichloroethane	<0.00056		0.0017	0.00056	mg/Kg	☼	12/03/20 17:19	12/10/20 10:32	1
1,1,2-Trichloroethane	<0.00072		0.0017	0.00072	mg/Kg	☼	12/03/20 17:19	12/10/20 10:32	1
Trichloroethene	<0.00057		0.0017	0.00057	mg/Kg	☼	12/03/20 17:19	12/10/20 10:32	1
Vinyl acetate	<0.0015		0.0042	0.0015	mg/Kg	☼	12/03/20 17:19	12/10/20 10:32	1
Vinyl chloride	<0.00074		0.0017	0.00074	mg/Kg	☼	12/03/20 17:19	12/10/20 10:32	1
Xylenes, Total	<0.00054		0.0034	0.00054	mg/Kg	☼	12/03/20 17:19	12/10/20 10:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		75 - 131	12/03/20 17:19	12/10/20 10:32	1
Dibromofluoromethane	98		75 - 126	12/03/20 17:19	12/10/20 10:32	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 134	12/03/20 17:19	12/10/20 10:32	1
Toluene-d8 (Surr)	94		75 - 124	12/03/20 17:19	12/10/20 10:32	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	☼	12/04/20 08:51	12/05/20 20:44	1
Acenaphthylene	<0.0052		0.039	0.0052	mg/Kg	☼	12/04/20 08:51	12/05/20 20:44	1
Anthracene	<0.0066		0.039	0.0066	mg/Kg	☼	12/04/20 08:51	12/05/20 20:44	1
Benzo[a]anthracene	0.026	J	0.039	0.0053	mg/Kg	☼	12/04/20 08:51	12/05/20 20:44	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191854-1

Client Sample ID: 3487-1-B04 (0-1.3)

Lab Sample ID: 500-191854-4

Date Collected: 12/02/20 09:00

Matrix: Solid

Date Received: 12/02/20 17:50

Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.029	J	0.039	0.0076	mg/Kg	☼	12/04/20 08:51	12/05/20 20:44	1
Benzo[b]fluoranthene	0.048		0.039	0.0085	mg/Kg	☼	12/04/20 08:51	12/05/20 20:44	1
Benzo[g,h,i]perylene	0.016	J	0.039	0.013	mg/Kg	☼	12/04/20 08:51	12/05/20 20:44	1
Benzo[k]fluoranthene	0.020	J	0.039	0.012	mg/Kg	☼	12/04/20 08:51	12/05/20 20:44	1
Bis(2-chloroethoxy)methane	<0.040		0.20	0.040	mg/Kg	☼	12/04/20 08:51	12/05/20 20:44	1
Bis(2-chloroethyl)ether	<0.059		0.20	0.059	mg/Kg	☼	12/04/20 08:51	12/05/20 20:44	1
Bis(2-ethylhexyl) phthalate	<0.072		0.20	0.072	mg/Kg	☼	12/04/20 08:51	12/05/20 20:44	1
4-Bromophenyl phenyl ether	<0.052		0.20	0.052	mg/Kg	☼	12/04/20 08:51	12/05/20 20:44	1
Butyl benzyl phthalate	<0.075		0.20	0.075	mg/Kg	☼	12/04/20 08:51	12/05/20 20:44	1
Carbazole	<0.098		0.20	0.098	mg/Kg	☼	12/04/20 08:51	12/05/20 20:44	1
4-Chloroaniline	<0.18		0.79	0.18	mg/Kg	☼	12/04/20 08:51	12/05/20 20:44	1
4-Chloro-3-methylphenol	<0.13		0.39	0.13	mg/Kg	☼	12/04/20 08:51	12/05/20 20:44	1
2-Chloronaphthalene	<0.043		0.20	0.043	mg/Kg	☼	12/04/20 08:51	12/05/20 20:44	1
2-Chlorophenol	<0.067		0.20	0.067	mg/Kg	☼	12/04/20 08:51	12/05/20 20:44	1
4-Chlorophenyl phenyl ether	<0.046		0.20	0.046	mg/Kg	☼	12/04/20 08:51	12/05/20 20:44	1
Chrysene	0.033	J	0.039	0.011	mg/Kg	☼	12/04/20 08:51	12/05/20 20:44	1
Dibenz(a,h)anthracene	<0.0076		0.039	0.0076	mg/Kg	☼	12/04/20 08:51	12/05/20 20:44	1
Dibenzofuran	<0.046		0.20	0.046	mg/Kg	☼	12/04/20 08:51	12/05/20 20:44	1
1,2-Dichlorobenzene	<0.047		0.20	0.047	mg/Kg	☼	12/04/20 08:51	12/05/20 20:44	1
1,3-Dichlorobenzene	<0.044		0.20	0.044	mg/Kg	☼	12/04/20 08:51	12/05/20 20:44	1
1,4-Dichlorobenzene	<0.050		0.20	0.050	mg/Kg	☼	12/04/20 08:51	12/05/20 20:44	1
3,3'-Dichlorobenzidine	<0.055		0.20	0.055	mg/Kg	☼	12/04/20 08:51	12/05/20 20:44	1
2,4-Dichlorophenol	<0.093		0.39	0.093	mg/Kg	☼	12/04/20 08:51	12/05/20 20:44	1
Diethyl phthalate	<0.067		0.20	0.067	mg/Kg	☼	12/04/20 08:51	12/05/20 20:44	1
2,4-Dimethylphenol	<0.15		0.39	0.15	mg/Kg	☼	12/04/20 08:51	12/05/20 20:44	1
Dimethyl phthalate	<0.051		0.20	0.051	mg/Kg	☼	12/04/20 08:51	12/05/20 20:44	1
Di-n-butyl phthalate	<0.060		0.20	0.060	mg/Kg	☼	12/04/20 08:51	12/05/20 20:44	1
4,6-Dinitro-2-methylphenol	<0.32		0.79	0.32	mg/Kg	☼	12/04/20 08:51	12/05/20 20:44	1
2,4-Dinitrophenol	<0.69		0.79	0.69	mg/Kg	☼	12/04/20 08:51	12/05/20 20:44	1
2,4-Dinitrotoluene	<0.063		0.20	0.063	mg/Kg	☼	12/04/20 08:51	12/05/20 20:44	1
2,6-Dinitrotoluene	<0.077		0.20	0.077	mg/Kg	☼	12/04/20 08:51	12/05/20 20:44	1
Di-n-octyl phthalate	<0.064		0.20	0.064	mg/Kg	☼	12/04/20 08:51	12/05/20 20:44	1
Fluoranthene	0.054		0.039	0.0073	mg/Kg	☼	12/04/20 08:51	12/05/20 20:44	1
Fluorene	<0.0055		0.039	0.0055	mg/Kg	☼	12/04/20 08:51	12/05/20 20:44	1
Hexachlorobenzene	<0.0091		0.079	0.0091	mg/Kg	☼	12/04/20 08:51	12/05/20 20:44	1
Hexachlorobutadiene	<0.062		0.20	0.062	mg/Kg	☼	12/04/20 08:51	12/05/20 20:44	1
Hexachlorocyclopentadiene	<0.23		0.79	0.23	mg/Kg	☼	12/04/20 08:51	12/05/20 20:44	1
Hexachloroethane	<0.060		0.20	0.060	mg/Kg	☼	12/04/20 08:51	12/05/20 20:44	1
Indeno[1,2,3-cd]pyrene	0.013	J	0.039	0.010	mg/Kg	☼	12/04/20 08:51	12/05/20 20:44	1
Isophorone	<0.044		0.20	0.044	mg/Kg	☼	12/04/20 08:51	12/05/20 20:44	1
2-Methylnaphthalene	<0.0072		0.079	0.0072	mg/Kg	☼	12/04/20 08:51	12/05/20 20:44	1
2-Methylphenol	<0.063		0.20	0.063	mg/Kg	☼	12/04/20 08:51	12/05/20 20:44	1
3 & 4 Methylphenol	<0.066		0.20	0.066	mg/Kg	☼	12/04/20 08:51	12/05/20 20:44	1
Naphthalene	<0.0061		0.039	0.0061	mg/Kg	☼	12/04/20 08:51	12/05/20 20:44	1
2-Nitroaniline	<0.053		0.20	0.053	mg/Kg	☼	12/04/20 08:51	12/05/20 20:44	1
3-Nitroaniline	<0.12		0.39	0.12	mg/Kg	☼	12/04/20 08:51	12/05/20 20:44	1
4-Nitroaniline	<0.16		0.39	0.16	mg/Kg	☼	12/04/20 08:51	12/05/20 20:44	1
Nitrobenzene	<0.0098		0.039	0.0098	mg/Kg	☼	12/04/20 08:51	12/05/20 20:44	1
2-Nitrophenol	<0.093		0.39	0.093	mg/Kg	☼	12/04/20 08:51	12/05/20 20:44	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191854-1

Client Sample ID: 3487-1-B04 (0-1.3)

Lab Sample ID: 500-191854-4

Date Collected: 12/02/20 09:00

Matrix: Solid

Date Received: 12/02/20 17:50

Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.37		0.79	0.37	mg/Kg	☼	12/04/20 08:51	12/05/20 20:44	1
N-Nitrosodi-n-propylamine	<0.048		0.079	0.048	mg/Kg	☼	12/04/20 08:51	12/05/20 20:44	1
N-Nitrosodiphenylamine	<0.046		0.20	0.046	mg/Kg	☼	12/04/20 08:51	12/05/20 20:44	1
2,2'-oxybis[1-chloropropane]	<0.046		0.20	0.046	mg/Kg	☼	12/04/20 08:51	12/05/20 20:44	1
Pentachlorophenol	<0.63		0.79	0.63	mg/Kg	☼	12/04/20 08:51	12/05/20 20:44	1
Phenanthrene	0.022	J	0.039	0.0055	mg/Kg	☼	12/04/20 08:51	12/05/20 20:44	1
Phenol	<0.087		0.20	0.087	mg/Kg	☼	12/04/20 08:51	12/05/20 20:44	1
Pyrene	0.047		0.039	0.0078	mg/Kg	☼	12/04/20 08:51	12/05/20 20:44	1
1,2,4-Trichlorobenzene	<0.042		0.20	0.042	mg/Kg	☼	12/04/20 08:51	12/05/20 20:44	1
2,4,5-Trichlorophenol	<0.090		0.39	0.090	mg/Kg	☼	12/04/20 08:51	12/05/20 20:44	1
2,4,6-Trichlorophenol	<0.13		0.39	0.13	mg/Kg	☼	12/04/20 08:51	12/05/20 20:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	90		43 - 145				12/04/20 08:51	12/05/20 20:44	1
2-Fluorophenol	102		31 - 166				12/04/20 08:51	12/05/20 20:44	1
Nitrobenzene-d5	87		37 - 147				12/04/20 08:51	12/05/20 20:44	1
Phenol-d5	100		30 - 153				12/04/20 08:51	12/05/20 20:44	1
Terphenyl-d14	104		42 - 157				12/04/20 08:51	12/05/20 20:44	1
2,4,6-Tribromophenol	75		31 - 143				12/04/20 08:51	12/05/20 20:44	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.67	J	1.1	0.22	mg/Kg	☼	12/07/20 18:02	12/08/20 13:25	1
Arsenic	5.0		0.56	0.19	mg/Kg	☼	12/07/20 18:02	12/08/20 13:25	1
Barium	63		0.56	0.064	mg/Kg	☼	12/07/20 18:02	12/08/20 13:25	1
Beryllium	0.62		0.22	0.052	mg/Kg	☼	12/07/20 18:02	12/08/20 13:25	1
Cadmium	0.40	B	0.11	0.020	mg/Kg	☼	12/07/20 18:02	12/08/20 13:25	1
Chromium	15		0.56	0.28	mg/Kg	☼	12/07/20 18:02	12/08/20 13:25	1
Cobalt	9.7		0.28	0.074	mg/Kg	☼	12/07/20 18:02	12/08/20 13:25	1
Copper	23		0.56	0.16	mg/Kg	☼	12/07/20 18:02	12/08/20 13:25	1
Iron	14000		11	5.8	mg/Kg	☼	12/07/20 18:02	12/08/20 13:25	1
Lead	58		0.28	0.13	mg/Kg	☼	12/07/20 18:02	12/08/20 13:25	1
Magnesium	18000		5.6	2.8	mg/Kg	☼	12/07/20 18:02	12/08/20 13:25	1
Calcium	27000	B	11	1.9	mg/Kg	☼	12/07/20 18:02	12/08/20 13:25	1
Manganese	430	B	0.56	0.081	mg/Kg	☼	12/07/20 18:02	12/09/20 13:46	1
Nickel	22		0.56	0.16	mg/Kg	☼	12/07/20 18:02	12/08/20 13:25	1
Selenium	<0.33		0.56	0.33	mg/Kg	☼	12/07/20 18:02	12/08/20 13:25	1
Silver	<0.072		0.28	0.072	mg/Kg	☼	12/07/20 18:02	12/08/20 13:25	1
Thallium	0.34	J	0.56	0.28	mg/Kg	☼	12/07/20 18:02	12/08/20 13:25	1
Vanadium	21		0.28	0.066	mg/Kg	☼	12/07/20 18:02	12/08/20 13:25	1
Zinc	87		1.1	0.49	mg/Kg	☼	12/07/20 18:02	12/08/20 13:25	1
Potassium	1800		28	9.9	mg/Kg	☼	12/07/20 18:02	12/08/20 13:25	1
Sodium	1000	B	56	8.3	mg/Kg	☼	12/07/20 18:02	12/08/20 13:25	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		12/08/20 17:06	12/09/20 22:15	1
Barium	0.52		0.50	0.050	mg/L		12/08/20 17:06	12/09/20 22:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/08/20 17:06	12/10/20 12:36	1
Cadmium	0.0028	J	0.0050	0.0020	mg/L		12/08/20 17:06	12/09/20 22:15	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191854-1

Client Sample ID: 3487-1-B04 (0-1.3)

Lab Sample ID: 500-191854-4

Date Collected: 12/02/20 09:00

Matrix: Solid

Date Received: 12/02/20 17:50

Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	210		5.0	0.50	mg/L		12/08/20 17:06	12/09/20 22:15	1
Chromium	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 22:15	1
Cobalt	0.023	J	0.025	0.010	mg/L		12/08/20 17:06	12/09/20 22:15	1
Copper	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 22:15	1
Iron	<0.20		0.40	0.20	mg/L		12/08/20 17:06	12/09/20 22:15	1
Lead	0.014		0.0075	0.0075	mg/L		12/08/20 17:06	12/09/20 22:15	1
Magnesium	68		2.5	0.50	mg/L		12/08/20 17:06	12/10/20 12:36	1
Manganese	14		0.025	0.010	mg/L		12/08/20 17:06	12/10/20 12:36	1
Nickel	0.021	J	0.025	0.010	mg/L		12/08/20 17:06	12/09/20 22:15	1
Potassium	1.2	J	2.5	0.50	mg/L		12/08/20 17:06	12/09/20 22:15	1
Selenium	<0.020		0.050	0.020	mg/L		12/08/20 17:06	12/09/20 22:15	1
Silver	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 22:15	1
Vanadium	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 22:15	1
Zinc	0.070	J	0.50	0.020	mg/L		12/08/20 17:06	12/09/20 22:15	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0020		0.0050	0.0020	mg/L		12/08/20 17:10	12/09/20 23:12	1
Lead	0.11		0.0075	0.0075	mg/L		12/08/20 17:10	12/09/20 23:12	1
Manganese	0.52		0.025	0.010	mg/L		12/08/20 17:10	12/11/20 11:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/08/20 17:06	12/09/20 14:49	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/08/20 17:06	12/09/20 14:49	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		12/09/20 08:35	12/10/20 07:08	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.044		0.018	0.0058	mg/Kg	✱	12/08/20 14:00	12/09/20 07:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.25	J	0.28	0.14	mg/Kg	✱	12/07/20 14:07	12/07/20 17:26	1
pH	7.4		0.2	0.2	SU			12/08/20 10:52	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191854-1

Client Sample ID: 3487-1-B06 (0-1.3)

Lab Sample ID: 500-191854-5

Date Collected: 12/02/20 09:25

Matrix: Solid

Date Received: 12/02/20 17:50

Percent Solids: 83.5

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	✳	12/03/20 17:19	12/10/20 23:00	1
Benzene	<0.00038		0.0015	0.00038	mg/Kg	✳	12/03/20 17:19	12/10/20 23:00	1
Bromodichloromethane	<0.00031		0.0015	0.00031	mg/Kg	✳	12/03/20 17:19	12/10/20 23:00	1
Bromoform	<0.00044		0.0015	0.00044	mg/Kg	✳	12/03/20 17:19	12/10/20 23:00	1
Bromomethane	<0.0014		0.0038	0.0014	mg/Kg	✳	12/03/20 17:19	12/10/20 23:00	1
2-Butanone (MEK)	<0.0017		0.0038	0.0017	mg/Kg	✳	12/03/20 17:19	12/10/20 23:00	1
Carbon disulfide	<0.00078		0.0038	0.00078	mg/Kg	✳	12/03/20 17:19	12/10/20 23:00	1
Carbon tetrachloride	<0.00044		0.0015	0.00044	mg/Kg	✳	12/03/20 17:19	12/10/20 23:00	1
Chlorobenzene	<0.00056		0.0015	0.00056	mg/Kg	✳	12/03/20 17:19	12/10/20 23:00	1
Chloroethane	<0.0011		0.0038	0.0011	mg/Kg	✳	12/03/20 17:19	12/10/20 23:00	1
Chloroform	<0.00052		0.0015	0.00052	mg/Kg	✳	12/03/20 17:19	12/10/20 23:00	1
Chloromethane	<0.0015 *		0.0038	0.0015	mg/Kg	✳	12/03/20 17:19	12/10/20 23:00	1
cis-1,2-Dichloroethene	<0.00042		0.0015	0.00042	mg/Kg	✳	12/03/20 17:19	12/10/20 23:00	1
cis-1,3-Dichloropropene	<0.00045		0.0015	0.00045	mg/Kg	✳	12/03/20 17:19	12/10/20 23:00	1
Dibromochloromethane	<0.00049		0.0015	0.00049	mg/Kg	✳	12/03/20 17:19	12/10/20 23:00	1
1,1-Dichloroethane	<0.00052		0.0015	0.00052	mg/Kg	✳	12/03/20 17:19	12/10/20 23:00	1
1,2-Dichloroethane	<0.0012		0.0038	0.0012	mg/Kg	✳	12/03/20 17:19	12/10/20 23:00	1
1,1-Dichloroethene	<0.00052		0.0015	0.00052	mg/Kg	✳	12/03/20 17:19	12/10/20 23:00	1
1,2-Dichloropropene	<0.00039		0.0015	0.00039	mg/Kg	✳	12/03/20 17:19	12/10/20 23:00	1
1,3-Dichloropropene, Total	<0.00053		0.0015	0.00053	mg/Kg	✳	12/03/20 17:19	12/10/20 23:00	1
Ethylbenzene	<0.00072		0.0015	0.00072	mg/Kg	✳	12/03/20 17:19	12/10/20 23:00	1
2-Hexanone	<0.0012		0.0038	0.0012	mg/Kg	✳	12/03/20 17:19	12/10/20 23:00	1
Methylene Chloride	<0.0015		0.0038	0.0015	mg/Kg	✳	12/03/20 17:19	12/10/20 23:00	1
4-Methyl-2-pentanone (MIBK)	<0.0011		0.0038	0.0011	mg/Kg	✳	12/03/20 17:19	12/10/20 23:00	1
Methyl tert-butyl ether	<0.00044		0.0015	0.00044	mg/Kg	✳	12/03/20 17:19	12/10/20 23:00	1
Styrene	<0.00046		0.0015	0.00046	mg/Kg	✳	12/03/20 17:19	12/10/20 23:00	1
1,1,2,2-Tetrachloroethane	<0.00048		0.0015	0.00048	mg/Kg	✳	12/03/20 17:19	12/10/20 23:00	1
Tetrachloroethene	<0.00051		0.0015	0.00051	mg/Kg	✳	12/03/20 17:19	12/10/20 23:00	1
Toluene	<0.00038		0.0015	0.00038	mg/Kg	✳	12/03/20 17:19	12/10/20 23:00	1
trans-1,2-Dichloroethene	<0.00067		0.0015	0.00067	mg/Kg	✳	12/03/20 17:19	12/10/20 23:00	1
trans-1,3-Dichloropropene	<0.00053		0.0015	0.00053	mg/Kg	✳	12/03/20 17:19	12/10/20 23:00	1
1,1,1-Trichloroethane	<0.00051		0.0015	0.00051	mg/Kg	✳	12/03/20 17:19	12/10/20 23:00	1
1,1,2-Trichloroethane	<0.00065		0.0015	0.00065	mg/Kg	✳	12/03/20 17:19	12/10/20 23:00	1
Trichloroethene	<0.00051		0.0015	0.00051	mg/Kg	✳	12/03/20 17:19	12/10/20 23:00	1
Vinyl acetate	<0.0013		0.0038	0.0013	mg/Kg	✳	12/03/20 17:19	12/10/20 23:00	1
Vinyl chloride	<0.00067		0.0015	0.00067	mg/Kg	✳	12/03/20 17:19	12/10/20 23:00	1
Xylenes, Total	<0.00048		0.0030	0.00048	mg/Kg	✳	12/03/20 17:19	12/10/20 23:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		75 - 131	12/03/20 17:19	12/10/20 23:00	1
Dibromofluoromethane	99		75 - 126	12/03/20 17:19	12/10/20 23:00	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	12/03/20 17:19	12/10/20 23:00	1
Toluene-d8 (Surr)	93		75 - 124	12/03/20 17:19	12/10/20 23:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.017	J	0.039	0.0071	mg/Kg	✳	12/04/20 08:51	12/05/20 21:11	1
Acenaphthylene	<0.0052		0.039	0.0052	mg/Kg	✳	12/04/20 08:51	12/05/20 21:11	1
Anthracene	0.033	J	0.039	0.0066	mg/Kg	✳	12/04/20 08:51	12/05/20 21:11	1
Benzo[a]anthracene	0.18		0.039	0.0053	mg/Kg	✳	12/04/20 08:51	12/05/20 21:11	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191854-1

Client Sample ID: 3487-1-B06 (0-1.3)

Lab Sample ID: 500-191854-5

Date Collected: 12/02/20 09:25

Matrix: Solid

Date Received: 12/02/20 17:50

Percent Solids: 83.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.21		0.039	0.0076	mg/Kg	✳	12/04/20 08:51	12/05/20 21:11	1
Benzo[b]fluoranthene	0.31		0.039	0.0085	mg/Kg	✳	12/04/20 08:51	12/05/20 21:11	1
Benzo[g,h,i]perylene	0.085		0.039	0.013	mg/Kg	✳	12/04/20 08:51	12/05/20 21:11	1
Benzo[k]fluoranthene	0.13		0.039	0.012	mg/Kg	✳	12/04/20 08:51	12/05/20 21:11	1
Bis(2-chloroethoxy)methane	<0.040		0.20	0.040	mg/Kg	✳	12/04/20 08:51	12/05/20 21:11	1
Bis(2-chloroethyl)ether	<0.059		0.20	0.059	mg/Kg	✳	12/04/20 08:51	12/05/20 21:11	1
Bis(2-ethylhexyl) phthalate	<0.072		0.20	0.072	mg/Kg	✳	12/04/20 08:51	12/05/20 21:11	1
4-Bromophenyl phenyl ether	<0.052		0.20	0.052	mg/Kg	✳	12/04/20 08:51	12/05/20 21:11	1
Butyl benzyl phthalate	<0.075		0.20	0.075	mg/Kg	✳	12/04/20 08:51	12/05/20 21:11	1
Carbazole	<0.098		0.20	0.098	mg/Kg	✳	12/04/20 08:51	12/05/20 21:11	1
4-Chloroaniline	<0.18		0.79	0.18	mg/Kg	✳	12/04/20 08:51	12/05/20 21:11	1
4-Chloro-3-methylphenol	<0.13		0.39	0.13	mg/Kg	✳	12/04/20 08:51	12/05/20 21:11	1
2-Chloronaphthalene	<0.043		0.20	0.043	mg/Kg	✳	12/04/20 08:51	12/05/20 21:11	1
2-Chlorophenol	<0.067		0.20	0.067	mg/Kg	✳	12/04/20 08:51	12/05/20 21:11	1
4-Chlorophenyl phenyl ether	<0.046		0.20	0.046	mg/Kg	✳	12/04/20 08:51	12/05/20 21:11	1
Chrysene	0.21		0.039	0.011	mg/Kg	✳	12/04/20 08:51	12/05/20 21:11	1
Dibenz(a,h)anthracene	0.022	J	0.039	0.0076	mg/Kg	✳	12/04/20 08:51	12/05/20 21:11	1
Dibenzofuran	<0.046		0.20	0.046	mg/Kg	✳	12/04/20 08:51	12/05/20 21:11	1
1,2-Dichlorobenzene	<0.047		0.20	0.047	mg/Kg	✳	12/04/20 08:51	12/05/20 21:11	1
1,3-Dichlorobenzene	<0.044		0.20	0.044	mg/Kg	✳	12/04/20 08:51	12/05/20 21:11	1
1,4-Dichlorobenzene	<0.050		0.20	0.050	mg/Kg	✳	12/04/20 08:51	12/05/20 21:11	1
3,3'-Dichlorobenzidine	<0.055		0.20	0.055	mg/Kg	✳	12/04/20 08:51	12/05/20 21:11	1
2,4-Dichlorophenol	<0.093		0.39	0.093	mg/Kg	✳	12/04/20 08:51	12/05/20 21:11	1
Diethyl phthalate	<0.067		0.20	0.067	mg/Kg	✳	12/04/20 08:51	12/05/20 21:11	1
2,4-Dimethylphenol	<0.15		0.39	0.15	mg/Kg	✳	12/04/20 08:51	12/05/20 21:11	1
Dimethyl phthalate	<0.051		0.20	0.051	mg/Kg	✳	12/04/20 08:51	12/05/20 21:11	1
Di-n-butyl phthalate	<0.060		0.20	0.060	mg/Kg	✳	12/04/20 08:51	12/05/20 21:11	1
4,6-Dinitro-2-methylphenol	<0.32		0.79	0.32	mg/Kg	✳	12/04/20 08:51	12/05/20 21:11	1
2,4-Dinitrophenol	<0.69		0.79	0.69	mg/Kg	✳	12/04/20 08:51	12/05/20 21:11	1
2,4-Dinitrotoluene	<0.063		0.20	0.063	mg/Kg	✳	12/04/20 08:51	12/05/20 21:11	1
2,6-Dinitrotoluene	<0.077		0.20	0.077	mg/Kg	✳	12/04/20 08:51	12/05/20 21:11	1
Di-n-octyl phthalate	<0.064		0.20	0.064	mg/Kg	✳	12/04/20 08:51	12/05/20 21:11	1
Fluoranthene	0.45		0.039	0.0073	mg/Kg	✳	12/04/20 08:51	12/05/20 21:11	1
Fluorene	0.011	J	0.039	0.0055	mg/Kg	✳	12/04/20 08:51	12/05/20 21:11	1
Hexachlorobenzene	<0.0091		0.079	0.0091	mg/Kg	✳	12/04/20 08:51	12/05/20 21:11	1
Hexachlorobutadiene	<0.062		0.20	0.062	mg/Kg	✳	12/04/20 08:51	12/05/20 21:11	1
Hexachlorocyclopentadiene	<0.23		0.79	0.23	mg/Kg	✳	12/04/20 08:51	12/05/20 21:11	1
Hexachloroethane	<0.060		0.20	0.060	mg/Kg	✳	12/04/20 08:51	12/05/20 21:11	1
Indeno[1,2,3-cd]pyrene	0.078		0.039	0.010	mg/Kg	✳	12/04/20 08:51	12/05/20 21:11	1
Isophorone	<0.044		0.20	0.044	mg/Kg	✳	12/04/20 08:51	12/05/20 21:11	1
2-Methylnaphthalene	<0.0072		0.079	0.0072	mg/Kg	✳	12/04/20 08:51	12/05/20 21:11	1
2-Methylphenol	<0.063		0.20	0.063	mg/Kg	✳	12/04/20 08:51	12/05/20 21:11	1
3 & 4 Methylphenol	<0.066		0.20	0.066	mg/Kg	✳	12/04/20 08:51	12/05/20 21:11	1
Naphthalene	<0.0061		0.039	0.0061	mg/Kg	✳	12/04/20 08:51	12/05/20 21:11	1
2-Nitroaniline	<0.053		0.20	0.053	mg/Kg	✳	12/04/20 08:51	12/05/20 21:11	1
3-Nitroaniline	<0.12		0.39	0.12	mg/Kg	✳	12/04/20 08:51	12/05/20 21:11	1
4-Nitroaniline	<0.16		0.39	0.16	mg/Kg	✳	12/04/20 08:51	12/05/20 21:11	1
Nitrobenzene	<0.0098		0.039	0.0098	mg/Kg	✳	12/04/20 08:51	12/05/20 21:11	1
2-Nitrophenol	<0.093		0.39	0.093	mg/Kg	✳	12/04/20 08:51	12/05/20 21:11	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191854-1

Client Sample ID: 3487-1-B06 (0-1.3)

Lab Sample ID: 500-191854-5

Date Collected: 12/02/20 09:25

Matrix: Solid

Date Received: 12/02/20 17:50

Percent Solids: 83.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.37		0.79	0.37	mg/Kg	☼	12/04/20 08:51	12/05/20 21:11	1
N-Nitrosodi-n-propylamine	<0.048		0.079	0.048	mg/Kg	☼	12/04/20 08:51	12/05/20 21:11	1
N-Nitrosodiphenylamine	<0.046		0.20	0.046	mg/Kg	☼	12/04/20 08:51	12/05/20 21:11	1
2,2'-oxybis[1-chloropropane]	<0.046		0.20	0.046	mg/Kg	☼	12/04/20 08:51	12/05/20 21:11	1
Pentachlorophenol	<0.63		0.79	0.63	mg/Kg	☼	12/04/20 08:51	12/05/20 21:11	1
Phenanthrene	0.17		0.039	0.0055	mg/Kg	☼	12/04/20 08:51	12/05/20 21:11	1
Phenol	<0.087		0.20	0.087	mg/Kg	☼	12/04/20 08:51	12/05/20 21:11	1
Pyrene	0.37		0.039	0.0078	mg/Kg	☼	12/04/20 08:51	12/05/20 21:11	1
1,2,4-Trichlorobenzene	<0.042		0.20	0.042	mg/Kg	☼	12/04/20 08:51	12/05/20 21:11	1
2,4,5-Trichlorophenol	<0.090		0.39	0.090	mg/Kg	☼	12/04/20 08:51	12/05/20 21:11	1
2,4,6-Trichlorophenol	<0.14		0.39	0.14	mg/Kg	☼	12/04/20 08:51	12/05/20 21:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	77		43 - 145				12/04/20 08:51	12/05/20 21:11	1
2-Fluorophenol	90		31 - 166				12/04/20 08:51	12/05/20 21:11	1
Nitrobenzene-d5	81		37 - 147				12/04/20 08:51	12/05/20 21:11	1
Phenol-d5	89		30 - 153				12/04/20 08:51	12/05/20 21:11	1
Terphenyl-d14	101		42 - 157				12/04/20 08:51	12/05/20 21:11	1
2,4,6-Tribromophenol	53		31 - 143				12/04/20 08:51	12/05/20 21:11	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.62	J	1.1	0.22	mg/Kg	☼	12/07/20 18:02	12/08/20 13:29	1
Arsenic	5.6		0.57	0.19	mg/Kg	☼	12/07/20 18:02	12/08/20 13:29	1
Barium	46		0.57	0.065	mg/Kg	☼	12/07/20 18:02	12/08/20 13:29	1
Beryllium	0.56		0.23	0.053	mg/Kg	☼	12/07/20 18:02	12/08/20 13:29	1
Cadmium	0.47	B	0.11	0.020	mg/Kg	☼	12/07/20 18:02	12/08/20 13:29	1
Chromium	15		0.57	0.28	mg/Kg	☼	12/07/20 18:02	12/08/20 13:29	1
Cobalt	9.5		0.28	0.075	mg/Kg	☼	12/07/20 18:02	12/08/20 13:29	1
Copper	26		0.57	0.16	mg/Kg	☼	12/07/20 18:02	12/08/20 13:29	1
Iron	19000	B	110	59	mg/Kg	☼	12/07/20 18:02	12/09/20 13:52	10
Lead	130		0.28	0.13	mg/Kg	☼	12/07/20 18:02	12/08/20 13:29	1
Magnesium	51000		57	28	mg/Kg	☼	12/07/20 18:02	12/09/20 13:52	10
Calcium	87000	B	110	19	mg/Kg	☼	12/07/20 18:02	12/09/20 13:52	10
Manganese	420	B	0.57	0.082	mg/Kg	☼	12/07/20 18:02	12/09/20 13:49	1
Nickel	22		0.57	0.17	mg/Kg	☼	12/07/20 18:02	12/08/20 13:29	1
Selenium	<0.33		0.57	0.33	mg/Kg	☼	12/07/20 18:02	12/08/20 13:29	1
Silver	<0.073		0.28	0.073	mg/Kg	☼	12/07/20 18:02	12/08/20 13:29	1
Thallium	<0.28		0.57	0.28	mg/Kg	☼	12/07/20 18:02	12/08/20 13:29	1
Vanadium	19		0.28	0.067	mg/Kg	☼	12/07/20 18:02	12/08/20 13:29	1
Zinc	110		1.1	0.50	mg/Kg	☼	12/07/20 18:02	12/08/20 13:29	1
Potassium	2000		28	10	mg/Kg	☼	12/07/20 18:02	12/08/20 13:29	1
Sodium	1100	B	57	8.4	mg/Kg	☼	12/07/20 18:02	12/08/20 13:29	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		12/08/20 17:06	12/09/20 22:18	1
Barium	0.38	J	0.50	0.050	mg/L		12/08/20 17:06	12/09/20 22:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/08/20 17:06	12/10/20 12:40	1
Cadmium	0.0038	J	0.0050	0.0020	mg/L		12/08/20 17:06	12/09/20 22:18	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191854-1

Client Sample ID: 3487-1-B06 (0-1.3)

Lab Sample ID: 500-191854-5

Date Collected: 12/02/20 09:25

Matrix: Solid

Date Received: 12/02/20 17:50

Percent Solids: 83.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	330		5.0	0.50	mg/L		12/08/20 17:06	12/09/20 22:18	1
Chromium	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 22:18	1
Cobalt	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 22:18	1
Copper	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 22:18	1
Iron	<0.20		0.40	0.20	mg/L		12/08/20 17:06	12/09/20 22:18	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/08/20 17:06	12/09/20 22:18	1
Magnesium	130		2.5	0.50	mg/L		12/08/20 17:06	12/10/20 12:40	1
Manganese	0.030		0.025	0.010	mg/L		12/08/20 17:06	12/10/20 12:40	1
Nickel	0.013	J	0.025	0.010	mg/L		12/08/20 17:06	12/09/20 22:18	1
Potassium	1.2	J	2.5	0.50	mg/L		12/08/20 17:06	12/09/20 22:18	1
Selenium	<0.020		0.050	0.020	mg/L		12/08/20 17:06	12/09/20 22:18	1
Silver	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 22:18	1
Vanadium	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 22:18	1
Zinc	0.043	J	0.50	0.020	mg/L		12/08/20 17:06	12/09/20 22:18	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		12/08/20 17:06	12/09/20 14:51	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/08/20 17:06	12/09/20 14:51	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		12/09/20 08:35	12/10/20 07:11	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038		0.019	0.0063	mg/Kg	⊛	12/08/20 14:00	12/09/20 07:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.13		0.26	0.13	mg/Kg	⊛	12/07/20 14:07	12/07/20 17:27	1
pH	9.2		0.2	0.2	SU			12/08/20 10:54	1

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191854-1

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)
500-191854-1	3487-1-B02 (0-6)	106	98	93	92
500-191854-2	3487-1-B02 (6-11.3)	105	100	97	91
500-191854-3	3487-1-B02 (6-11.3) Dup	95	99	92	96
500-191854-4	3487-1-B04 (0-1.3)	95	98	89	94
500-191854-5	3487-1-B06 (0-1.3)	98	99	95	93
LCS 500-575898/29	Lab Control Sample	96	91	79	92
LCS 500-576095/4	Lab Control Sample	90	91	79	97
LCS 500-576278/4	Lab Control Sample	96	89	78	96
LCSD 500-575898/5	Lab Control Sample Dup	98	90	80	93
LCSD 500-576095/5	Lab Control Sample Dup	91	91	77	97
LCSD 500-576278/5	Lab Control Sample Dup	97	87	76	96
MB 500-575898/7	Method Blank	103	92	84	93
MB 500-576095/7	Method Blank	91	97	85	93
MB 500-576278/7	Method Blank	94	94	84	95

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)
500-191854-1	3487-1-B02 (0-6)	78	96	82	97	112	75
500-191854-2	3487-1-B02 (6-11.3)	75	88	78	85	105	67
500-191854-3	3487-1-B02 (6-11.3) Dup	78	93	83	84	103	67
500-191854-4	3487-1-B04 (0-1.3)	90	102	87	100	104	75
500-191854-5	3487-1-B06 (0-1.3)	77	90	81	89	101	53
LCS 500-575359/2-A	Lab Control Sample	85	94	88	91	93	90
MB 500-575359/1-A	Method Blank	91	106	92	98	119	72

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 - Lake County - WO 073

Job ID: 500-191854-1

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

Lab Sample ID: MB 500-575898/7

Matrix: Solid

Analysis Batch: 575898

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			12/09/20 01:14	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg			12/09/20 01:14	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg			12/09/20 01:14	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg			12/09/20 01:14	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg			12/09/20 01:14	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			12/09/20 01:14	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg			12/09/20 01:14	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg			12/09/20 01:14	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg			12/09/20 01:14	1
Chloroethane	<0.0015		0.0050	0.0015	mg/Kg			12/09/20 01:14	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg			12/09/20 01:14	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg			12/09/20 01:14	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg			12/09/20 01:14	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg			12/09/20 01:14	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg			12/09/20 01:14	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg			12/09/20 01:14	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg			12/09/20 01:14	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg			12/09/20 01:14	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			12/09/20 01:14	1
1,3-Dichloropropene, Total	<0.00070		0.0020	0.00070	mg/Kg			12/09/20 01:14	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg			12/09/20 01:14	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg			12/09/20 01:14	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg			12/09/20 01:14	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg			12/09/20 01:14	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg			12/09/20 01:14	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg			12/09/20 01:14	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg			12/09/20 01:14	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg			12/09/20 01:14	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg			12/09/20 01:14	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg			12/09/20 01:14	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg			12/09/20 01:14	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg			12/09/20 01:14	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg			12/09/20 01:14	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg			12/09/20 01:14	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg			12/09/20 01:14	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg			12/09/20 01:14	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg			12/09/20 01:14	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	103		75 - 131		12/09/20 01:14	1
Dibromofluoromethane	92		75 - 126		12/09/20 01:14	1
1,2-Dichloroethane-d4 (Surr)	84		70 - 134		12/09/20 01:14	1
Toluene-d8 (Surr)	93		75 - 124		12/09/20 01:14	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191854-1

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

Lab Sample ID: LCS 500-575898/29

Matrix: Solid

Analysis Batch: 575898

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	0.0307		mg/Kg		61	40 - 150
Benzene	0.0500	0.0511		mg/Kg		102	70 - 125
Bromodichloromethane	0.0500	0.0470		mg/Kg		94	67 - 129
Bromoform	0.0500	0.0432		mg/Kg		86	68 - 136
Bromomethane	0.0500	0.0368		mg/Kg		74	70 - 130
2-Butanone (MEK)	0.0500	0.0328		mg/Kg		66	47 - 138
Carbon disulfide	0.0500	0.0558		mg/Kg		112	70 - 129
Carbon tetrachloride	0.0500	0.0555		mg/Kg		111	75 - 125
Chlorobenzene	0.0500	0.0519		mg/Kg		104	50 - 150
Chloroethane	0.0500	0.0495		mg/Kg		99	75 - 125
Chloroform	0.0500	0.0508		mg/Kg		102	57 - 135
Chloromethane	0.0500	0.0643	*	mg/Kg		129	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0510		mg/Kg		102	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0434		mg/Kg		87	70 - 125
Dibromochloromethane	0.0500	0.0478		mg/Kg		96	69 - 125
1,1-Dichloroethane	0.0500	0.0597		mg/Kg		119	70 - 125
1,2-Dichloroethane	0.0500	0.0455		mg/Kg		91	70 - 130
1,1-Dichloroethene	0.0500	0.0553		mg/Kg		111	70 - 120
1,2-Dichloropropane	0.0500	0.0556		mg/Kg		111	70 - 125
Ethylbenzene	0.0500	0.0531		mg/Kg		106	61 - 136
2-Hexanone	0.0500	0.0348		mg/Kg		70	48 - 146
Methylene Chloride	0.0500	0.0491		mg/Kg		98	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0338		mg/Kg		68	50 - 148
Methyl tert-butyl ether	0.0500	0.0395		mg/Kg		79	50 - 140
Styrene	0.0500	0.0511		mg/Kg		102	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0438		mg/Kg		88	70 - 122
Tetrachloroethene	0.0500	0.0470		mg/Kg		94	70 - 124
Toluene	0.0500	0.0499		mg/Kg		100	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0544		mg/Kg		109	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0412		mg/Kg		82	70 - 125
1,1,1-Trichloroethane	0.0500	0.0522		mg/Kg		104	70 - 128
1,1,2-Trichloroethane	0.0500	0.0440		mg/Kg		88	70 - 125
Trichloroethene	0.0500	0.0530		mg/Kg		106	70 - 125
Vinyl acetate	0.0500	0.0351		mg/Kg		70	40 - 153
Vinyl chloride	0.0500	0.0569		mg/Kg		114	70 - 125
Xylenes, Total	0.100	0.0996		mg/Kg		100	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	96		75 - 131
Dibromofluoromethane	91		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 - Lake County - WO 073

Job ID: 500-191854-1

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

Lab Sample ID: LCSD 500-575898/5
Matrix: Solid
Analysis Batch: 575898

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	0.0312		mg/Kg		62	40 - 150	1	30
Benzene	0.0500	0.0556		mg/Kg		111	70 - 125	8	30
Bromodichloromethane	0.0500	0.0515		mg/Kg		103	67 - 129	9	30
Bromoform	0.0500	0.0487		mg/Kg		97	68 - 136	12	30
Bromomethane	0.0500	0.0478		mg/Kg		96	70 - 130	26	30
2-Butanone (MEK)	0.0500	0.0326		mg/Kg		65	47 - 138	0	30
Carbon disulfide	0.0500	0.0606		mg/Kg		121	70 - 129	8	30
Carbon tetrachloride	0.0500	0.0606		mg/Kg		121	75 - 125	9	30
Chlorobenzene	0.0500	0.0564		mg/Kg		113	50 - 150	8	30
Chloroethane	0.0500	0.0615		mg/Kg		123	75 - 125	22	30
Chloroform	0.0500	0.0534		mg/Kg		107	57 - 135	5	30
Chloromethane	0.0500	0.0705	*	mg/Kg		141	70 - 125	9	30
cis-1,2-Dichloroethene	0.0500	0.0549		mg/Kg		110	70 - 125	7	30
cis-1,3-Dichloropropene	0.0500	0.0474		mg/Kg		95	70 - 125	9	30
Dibromochloromethane	0.0500	0.0520		mg/Kg		104	69 - 125	8	30
1,1-Dichloroethane	0.0500	0.0638	*	mg/Kg		128	70 - 125	7	30
1,2-Dichloroethane	0.0500	0.0501		mg/Kg		100	70 - 130	10	30
1,1-Dichloroethene	0.0500	0.0588		mg/Kg		118	70 - 120	6	30
1,2-Dichloropropane	0.0500	0.0613		mg/Kg		123	70 - 125	10	30
Ethylbenzene	0.0500	0.0580		mg/Kg		116	61 - 136	9	30
2-Hexanone	0.0500	0.0396		mg/Kg		79	48 - 146	13	30
Methylene Chloride	0.0500	0.0512		mg/Kg		102	70 - 126	4	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0375		mg/Kg		75	50 - 148	10	30
Methyl tert-butyl ether	0.0500	0.0429		mg/Kg		86	50 - 140	8	30
Styrene	0.0500	0.0569		mg/Kg		114	70 - 125	11	30
1,1,2,2-Tetrachloroethane	0.0500	0.0514		mg/Kg		103	70 - 122	16	30
Tetrachloroethene	0.0500	0.0538		mg/Kg		108	70 - 124	14	30
Toluene	0.0500	0.0558		mg/Kg		112	70 - 125	11	30
trans-1,2-Dichloroethene	0.0500	0.0591		mg/Kg		118	70 - 125	8	30
trans-1,3-Dichloropropene	0.0500	0.0462		mg/Kg		92	70 - 125	11	30
1,1,1-Trichloroethane	0.0500	0.0578		mg/Kg		116	70 - 128	10	30
1,1,2-Trichloroethane	0.0500	0.0490		mg/Kg		98	70 - 125	11	30
Trichloroethene	0.0500	0.0582		mg/Kg		116	70 - 125	9	30
Vinyl acetate	0.0500	0.0408		mg/Kg		82	40 - 153	15	30
Vinyl chloride	0.0500	0.0620		mg/Kg		124	70 - 125	9	30
Xylenes, Total	0.100	0.109		mg/Kg		109	53 - 147	9	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	98		75 - 131
Dibromofluoromethane	90		75 - 126
1,2-Dichloroethane-d4 (Surr)	80		70 - 134
Toluene-d8 (Surr)	93		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191854-1

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

Lab Sample ID: MB 500-576095/7
Matrix: Solid
Analysis Batch: 576095

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			12/10/20 02:54	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg			12/10/20 02:54	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg			12/10/20 02:54	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg			12/10/20 02:54	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg			12/10/20 02:54	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			12/10/20 02:54	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg			12/10/20 02:54	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg			12/10/20 02:54	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg			12/10/20 02:54	1
Chloroethane	<0.0015		0.0050	0.0015	mg/Kg			12/10/20 02:54	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg			12/10/20 02:54	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg			12/10/20 02:54	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg			12/10/20 02:54	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg			12/10/20 02:54	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg			12/10/20 02:54	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg			12/10/20 02:54	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg			12/10/20 02:54	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg			12/10/20 02:54	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			12/10/20 02:54	1
1,3-Dichloropropane, Total	<0.00070		0.0020	0.00070	mg/Kg			12/10/20 02:54	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg			12/10/20 02:54	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg			12/10/20 02:54	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg			12/10/20 02:54	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg			12/10/20 02:54	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg			12/10/20 02:54	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg			12/10/20 02:54	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg			12/10/20 02:54	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg			12/10/20 02:54	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg			12/10/20 02:54	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg			12/10/20 02:54	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg			12/10/20 02:54	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg			12/10/20 02:54	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg			12/10/20 02:54	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg			12/10/20 02:54	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg			12/10/20 02:54	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg			12/10/20 02:54	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg			12/10/20 02:54	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		75 - 131		12/10/20 02:54	1
Dibromofluoromethane	97		75 - 126		12/10/20 02:54	1
1,2-Dichloroethane-d4 (Surr)	85		70 - 134		12/10/20 02:54	1
Toluene-d8 (Surr)	93		75 - 124		12/10/20 02:54	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191854-1

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

Lab Sample ID: LCS 500-576095/4

Matrix: Solid

Analysis Batch: 576095

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	0.0277		mg/Kg		55	40 - 150
Benzene	0.0500	0.0525		mg/Kg		105	70 - 125
Bromodichloromethane	0.0500	0.0475		mg/Kg		95	67 - 129
Bromoform	0.0500	0.0449		mg/Kg		90	68 - 136
Bromomethane	0.0500	0.0470		mg/Kg		94	70 - 130
2-Butanone (MEK)	0.0500	0.0257		mg/Kg		51	47 - 138
Carbon disulfide	0.0500	0.0570		mg/Kg		114	70 - 129
Carbon tetrachloride	0.0500	0.0571		mg/Kg		114	75 - 125
Chlorobenzene	0.0500	0.0519		mg/Kg		104	50 - 150
Chloroethane	0.0500	0.0632	*	mg/Kg		126	75 - 125
Chloroform	0.0500	0.0508		mg/Kg		102	57 - 135
Chloromethane	0.0500	0.0598		mg/Kg		120	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0524		mg/Kg		105	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0416		mg/Kg		83	70 - 125
Dibromochloromethane	0.0500	0.0487		mg/Kg		97	69 - 125
1,1-Dichloroethane	0.0500	0.0604		mg/Kg		121	70 - 125
1,2-Dichloroethane	0.0500	0.0453		mg/Kg		91	70 - 130
1,1-Dichloroethene	0.0500	0.0565		mg/Kg		113	70 - 120
1,2-Dichloropropane	0.0500	0.0542		mg/Kg		108	70 - 125
Ethylbenzene	0.0500	0.0538		mg/Kg		108	61 - 136
2-Hexanone	0.0500	0.0248		mg/Kg		50	48 - 146
Methylene Chloride	0.0500	0.0497		mg/Kg		99	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0272		mg/Kg		54	50 - 148
Methyl tert-butyl ether	0.0500	0.0393		mg/Kg		79	50 - 140
Styrene	0.0500	0.0500		mg/Kg		100	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0426		mg/Kg		85	70 - 122
Tetrachloroethene	0.0500	0.0492		mg/Kg		98	70 - 124
Toluene	0.0500	0.0532		mg/Kg		106	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0564		mg/Kg		113	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0379		mg/Kg		76	70 - 125
1,1,1-Trichloroethane	0.0500	0.0543		mg/Kg		109	70 - 128
1,1,2-Trichloroethane	0.0500	0.0444		mg/Kg		89	70 - 125
Trichloroethene	0.0500	0.0542		mg/Kg		108	70 - 125
Vinyl acetate	0.0500	0.0341		mg/Kg		68	40 - 153
Vinyl chloride	0.0500	0.0610		mg/Kg		122	70 - 125
Xylenes, Total	0.100	0.100		mg/Kg		100	53 - 147

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		75 - 131
Dibromofluoromethane	91		75 - 126
1,2-Dichloroethane-d4 (Surr)	79		70 - 134
Toluene-d8 (Surr)	97		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191854-1

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

Lab Sample ID: LCSD 500-576095/5
Matrix: Solid
Analysis Batch: 576095

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	0.0270		mg/Kg		54	40 - 150	3	30
Benzene	0.0500	0.0495		mg/Kg		99	70 - 125	6	30
Bromodichloromethane	0.0500	0.0448		mg/Kg		90	67 - 129	6	30
Bromoform	0.0500	0.0437		mg/Kg		87	68 - 136	3	30
Bromomethane	0.0500	0.0446		mg/Kg		89	70 - 130	5	30
2-Butanone (MEK)	0.0500	0.0270		mg/Kg		54	47 - 138	5	30
Carbon disulfide	0.0500	0.0509		mg/Kg		102	70 - 129	11	30
Carbon tetrachloride	0.0500	0.0517		mg/Kg		103	75 - 125	10	30
Chlorobenzene	0.0500	0.0492		mg/Kg		98	50 - 150	5	30
Chloroethane	0.0500	0.0569		mg/Kg		114	75 - 125	11	30
Chloroform	0.0500	0.0474		mg/Kg		95	57 - 135	7	30
Chloromethane	0.0500	0.0550		mg/Kg		110	70 - 125	8	30
cis-1,2-Dichloroethene	0.0500	0.0477		mg/Kg		95	70 - 125	9	30
cis-1,3-Dichloropropene	0.0500	0.0409		mg/Kg		82	70 - 125	2	30
Dibromochloromethane	0.0500	0.0470		mg/Kg		94	69 - 125	4	30
1,1-Dichloroethane	0.0500	0.0560		mg/Kg		112	70 - 125	8	30
1,2-Dichloroethane	0.0500	0.0431		mg/Kg		86	70 - 130	5	30
1,1-Dichloroethene	0.0500	0.0506		mg/Kg		101	70 - 120	11	30
1,2-Dichloropropane	0.0500	0.0512		mg/Kg		102	70 - 125	6	30
Ethylbenzene	0.0500	0.0500		mg/Kg		100	61 - 136	7	30
2-Hexanone	0.0500	0.0268		mg/Kg		54	48 - 146	8	30
Methylene Chloride	0.0500	0.0460		mg/Kg		92	70 - 126	8	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0288		mg/Kg		58	50 - 148	6	30
Methyl tert-butyl ether	0.0500	0.0358		mg/Kg		72	50 - 140	9	30
Styrene	0.0500	0.0487		mg/Kg		97	70 - 125	3	30
1,1,2,2-Tetrachloroethane	0.0500	0.0411		mg/Kg		82	70 - 122	3	30
Tetrachloroethene	0.0500	0.0459		mg/Kg		92	70 - 124	7	30
Toluene	0.0500	0.0507		mg/Kg		101	70 - 125	5	30
trans-1,2-Dichloroethene	0.0500	0.0513		mg/Kg		103	70 - 125	9	30
trans-1,3-Dichloropropene	0.0500	0.0369		mg/Kg		74	70 - 125	3	30
1,1,1-Trichloroethane	0.0500	0.0499		mg/Kg		100	70 - 128	8	30
1,1,2-Trichloroethane	0.0500	0.0431		mg/Kg		86	70 - 125	3	30
Trichloroethene	0.0500	0.0507		mg/Kg		101	70 - 125	7	30
Vinyl acetate	0.0500	0.0349		mg/Kg		70	40 - 153	2	30
Vinyl chloride	0.0500	0.0567		mg/Kg		113	70 - 125	7	30
Xylenes, Total	0.100	0.0944		mg/Kg		94	53 - 147	6	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	91		75 - 131
Dibromofluoromethane	91		75 - 126
1,2-Dichloroethane-d4 (Surr)	77		70 - 134
Toluene-d8 (Surr)	97		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191854-1

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

Lab Sample ID: MB 500-576278/7
Matrix: Solid
Analysis Batch: 576278

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			12/10/20 22:35	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg			12/10/20 22:35	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg			12/10/20 22:35	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg			12/10/20 22:35	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg			12/10/20 22:35	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			12/10/20 22:35	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg			12/10/20 22:35	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg			12/10/20 22:35	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg			12/10/20 22:35	1
Chloroethane	<0.0015		0.0050	0.0015	mg/Kg			12/10/20 22:35	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg			12/10/20 22:35	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg			12/10/20 22:35	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg			12/10/20 22:35	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg			12/10/20 22:35	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg			12/10/20 22:35	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg			12/10/20 22:35	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg			12/10/20 22:35	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg			12/10/20 22:35	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			12/10/20 22:35	1
1,3-Dichloropropane, Total	<0.00070		0.0020	0.00070	mg/Kg			12/10/20 22:35	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg			12/10/20 22:35	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg			12/10/20 22:35	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg			12/10/20 22:35	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg			12/10/20 22:35	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg			12/10/20 22:35	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg			12/10/20 22:35	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg			12/10/20 22:35	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg			12/10/20 22:35	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg			12/10/20 22:35	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg			12/10/20 22:35	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg			12/10/20 22:35	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg			12/10/20 22:35	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg			12/10/20 22:35	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg			12/10/20 22:35	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg			12/10/20 22:35	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg			12/10/20 22:35	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg			12/10/20 22:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		75 - 131		12/10/20 22:35	1
Dibromofluoromethane	94		75 - 126		12/10/20 22:35	1
1,2-Dichloroethane-d4 (Surr)	84		70 - 134		12/10/20 22:35	1
Toluene-d8 (Surr)	95		75 - 124		12/10/20 22:35	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191854-1

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

Lab Sample ID: LCS 500-576278/4

Matrix: Solid

Analysis Batch: 576278

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	0.0346		mg/Kg		69	40 - 150
Benzene	0.0500	0.0542		mg/Kg		108	70 - 125
Bromodichloromethane	0.0500	0.0483		mg/Kg		97	67 - 129
Bromoform	0.0500	0.0445		mg/Kg		89	68 - 136
Bromomethane	0.0500	0.0397		mg/Kg		79	70 - 130
2-Butanone (MEK)	0.0500	0.0346		mg/Kg		69	47 - 138
Carbon disulfide	0.0500	0.0577		mg/Kg		115	70 - 129
Carbon tetrachloride	0.0500	0.0575		mg/Kg		115	75 - 125
Chlorobenzene	0.0500	0.0554		mg/Kg		111	50 - 150
Chloroethane	0.0500	0.0582		mg/Kg		116	75 - 125
Chloroform	0.0500	0.0504		mg/Kg		101	57 - 135
Chloromethane	0.0500	0.0688	*	mg/Kg		138	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0526		mg/Kg		105	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0487		mg/Kg		97	70 - 125
Dibromochloromethane	0.0500	0.0521		mg/Kg		104	69 - 125
1,1-Dichloroethane	0.0500	0.0610		mg/Kg		122	70 - 125
1,2-Dichloroethane	0.0500	0.0481		mg/Kg		96	70 - 130
1,1-Dichloroethene	0.0500	0.0553		mg/Kg		111	70 - 120
1,2-Dichloropropane	0.0500	0.0582		mg/Kg		116	70 - 125
Ethylbenzene	0.0500	0.0560		mg/Kg		112	61 - 136
2-Hexanone	0.0500	0.0408		mg/Kg		82	48 - 146
Methylene Chloride	0.0500	0.0489		mg/Kg		98	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0403		mg/Kg		81	50 - 148
Methyl tert-butyl ether	0.0500	0.0409		mg/Kg		82	50 - 140
Styrene	0.0500	0.0533		mg/Kg		107	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0470		mg/Kg		94	70 - 122
Tetrachloroethene	0.0500	0.0528		mg/Kg		106	70 - 124
Toluene	0.0500	0.0564		mg/Kg		113	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0554		mg/Kg		111	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0438		mg/Kg		88	70 - 125
1,1,1-Trichloroethane	0.0500	0.0546		mg/Kg		109	70 - 128
1,1,2-Trichloroethane	0.0500	0.0471		mg/Kg		94	70 - 125
Trichloroethene	0.0500	0.0568		mg/Kg		114	70 - 125
Vinyl acetate	0.0500	0.0402		mg/Kg		80	40 - 153
Vinyl chloride	0.0500	0.0602		mg/Kg		120	70 - 125
Xylenes, Total	0.100	0.106		mg/Kg		106	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	96		75 - 131
Dibromofluoromethane	89		75 - 126
1,2-Dichloroethane-d4 (Surr)	78		70 - 134
Toluene-d8 (Surr)	96		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191854-1

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

Lab Sample ID: LCSD 500-576278/5
Matrix: Solid
Analysis Batch: 576278

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	0.0344		mg/Kg		69	40 - 150	1	30
Benzene	0.0500	0.0505		mg/Kg		101	70 - 125	7	30
Bromodichloromethane	0.0500	0.0459		mg/Kg		92	67 - 129	5	30
Bromoform	0.0500	0.0423		mg/Kg		85	68 - 136	5	30
Bromomethane	0.0500	0.0376		mg/Kg		75	70 - 130	5	30
2-Butanone (MEK)	0.0500	0.0350		mg/Kg		70	47 - 138	1	30
Carbon disulfide	0.0500	0.0538		mg/Kg		108	70 - 129	7	30
Carbon tetrachloride	0.0500	0.0527		mg/Kg		105	75 - 125	9	30
Chlorobenzene	0.0500	0.0517		mg/Kg		103	50 - 150	7	30
Chloroethane	0.0500	0.0481		mg/Kg		96	75 - 125	19	30
Chloroform	0.0500	0.0474		mg/Kg		95	57 - 135	6	30
Chloromethane	0.0500	0.0650	*	mg/Kg		130	70 - 125	6	30
cis-1,2-Dichloroethene	0.0500	0.0490		mg/Kg		98	70 - 125	7	30
cis-1,3-Dichloropropene	0.0500	0.0448		mg/Kg		90	70 - 125	8	30
Dibromochloromethane	0.0500	0.0481		mg/Kg		96	69 - 125	8	30
1,1-Dichloroethane	0.0500	0.0564		mg/Kg		113	70 - 125	8	30
1,2-Dichloroethane	0.0500	0.0438		mg/Kg		88	70 - 130	9	30
1,1-Dichloroethene	0.0500	0.0522		mg/Kg		104	70 - 120	6	30
1,2-Dichloropropane	0.0500	0.0551		mg/Kg		110	70 - 125	5	30
Ethylbenzene	0.0500	0.0529		mg/Kg		106	61 - 136	6	30
2-Hexanone	0.0500	0.0387		mg/Kg		77	48 - 146	5	30
Methylene Chloride	0.0500	0.0446		mg/Kg		89	70 - 126	9	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0380		mg/Kg		76	50 - 148	6	30
Methyl tert-butyl ether	0.0500	0.0374		mg/Kg		75	50 - 140	9	30
Styrene	0.0500	0.0506		mg/Kg		101	70 - 125	5	30
1,1,2,2-Tetrachloroethane	0.0500	0.0432		mg/Kg		86	70 - 122	8	30
Tetrachloroethene	0.0500	0.0497		mg/Kg		99	70 - 124	6	30
Toluene	0.0500	0.0516		mg/Kg		103	70 - 125	9	30
trans-1,2-Dichloroethene	0.0500	0.0521		mg/Kg		104	70 - 125	6	30
trans-1,3-Dichloropropene	0.0500	0.0409		mg/Kg		82	70 - 125	7	30
1,1,1-Trichloroethane	0.0500	0.0493		mg/Kg		99	70 - 128	10	30
1,1,2-Trichloroethane	0.0500	0.0441		mg/Kg		88	70 - 125	7	30
Trichloroethene	0.0500	0.0526		mg/Kg		105	70 - 125	8	30
Vinyl acetate	0.0500	0.0365		mg/Kg		73	40 - 153	10	30
Vinyl chloride	0.0500	0.0587		mg/Kg		117	70 - 125	3	30
Xylenes, Total	0.100	0.0993		mg/Kg		99	53 - 147	7	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	97		75 - 131
Dibromofluoromethane	87		75 - 126
1,2-Dichloroethane-d4 (Surr)	76		70 - 134
Toluene-d8 (Surr)	96		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191854-1

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

Lab Sample ID: MB 500-575359/1-A
Matrix: Solid
Analysis Batch: 575497

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575359

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	<0.0060		0.033	0.0060	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
Acenaphthylene	<0.0044		0.033	0.0044	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
Anthracene	<0.0056		0.033	0.0056	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
Benzo[a]anthracene	<0.0045		0.033	0.0045	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
Benzo[a]pyrene	<0.0064		0.033	0.0064	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
Benzo[b]fluoranthene	<0.0072		0.033	0.0072	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
Benzo[g,h,i]perylene	<0.011		0.033	0.011	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
Benzo[k]fluoranthene	<0.0098		0.033	0.0098	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
Bis(2-chloroethoxy)methane	<0.034		0.17	0.034	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
Bis(2-chloroethyl)ether	<0.050		0.17	0.050	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
Bis(2-ethylhexyl) phthalate	<0.061		0.17	0.061	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
4-Bromophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
Butyl benzyl phthalate	<0.063		0.17	0.063	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
Carbazole	<0.083		0.17	0.083	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
4-Chloroaniline	<0.16		0.67	0.16	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
4-Chloro-3-methylphenol	<0.11		0.33	0.11	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
2-Chloronaphthalene	<0.037		0.17	0.037	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
2-Chlorophenol	<0.057		0.17	0.057	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
4-Chlorophenyl phenyl ether	<0.039		0.17	0.039	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
Chrysene	<0.0091		0.033	0.0091	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
Dibenz(a,h)anthracene	<0.0064		0.033	0.0064	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
Dibenzofuran	<0.039		0.17	0.039	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
1,2-Dichlorobenzene	<0.040		0.17	0.040	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
1,3-Dichlorobenzene	<0.037		0.17	0.037	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
1,4-Dichlorobenzene	<0.043		0.17	0.043	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
3,3'-Dichlorobenzidine	<0.047		0.17	0.047	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
2,4-Dichlorophenol	<0.079		0.33	0.079	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
Diethyl phthalate	<0.056		0.17	0.056	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
2,4-Dimethylphenol	<0.13		0.33	0.13	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
Dimethyl phthalate	<0.043		0.17	0.043	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
Di-n-butyl phthalate	<0.051		0.17	0.051	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
4,6-Dinitro-2-methylphenol	<0.27		0.67	0.27	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
2,4-Dinitrophenol	<0.59		0.67	0.59	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
2,4-Dinitrotoluene	<0.053		0.17	0.053	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
2,6-Dinitrotoluene	<0.065		0.17	0.065	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
Di-n-octyl phthalate	<0.054		0.17	0.054	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
Fluoranthene	<0.0062		0.033	0.0062	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
Fluorene	<0.0047		0.033	0.0047	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
Hexachlorobenzene	<0.0077		0.067	0.0077	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
Hexachlorobutadiene	<0.052		0.17	0.052	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
Hexachlorocyclopentadiene	<0.19		0.67	0.19	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
Hexachloroethane	<0.051		0.17	0.051	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
Indeno[1,2,3-cd]pyrene	<0.0086		0.033	0.0086	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
Isophorone	<0.037		0.17	0.037	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
2-Methylnaphthalene	<0.0061		0.067	0.0061	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
2-Methylphenol	<0.053		0.17	0.053	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
3 & 4 Methylphenol	<0.055		0.17	0.055	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
Naphthalene	<0.0051		0.033	0.0051	mg/Kg		12/04/20 08:51	12/05/20 14:24	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191854-1

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

Lab Sample ID: MB 500-575359/1-A
Matrix: Solid
Analysis Batch: 575497

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575359

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	<0.045		0.17	0.045	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
3-Nitroaniline	<0.10		0.33	0.10	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
4-Nitroaniline	<0.14		0.33	0.14	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
Nitrobenzene	<0.0083		0.033	0.0083	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
2-Nitrophenol	<0.079		0.33	0.079	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
4-Nitrophenol	<0.32		0.67	0.32	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
N-Nitrosodi-n-propylamine	<0.041		0.067	0.041	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
N-Nitrosodiphenylamine	<0.039		0.17	0.039	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
2,2'-oxybis[1-chloropropane]	<0.039		0.17	0.039	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
Pentachlorophenol	<0.53		0.67	0.53	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
Phenanthrene	<0.0046		0.033	0.0046	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
Phenol	<0.074		0.17	0.074	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
Pyrene	<0.0066		0.033	0.0066	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
1,2,4-Trichlorobenzene	<0.036		0.17	0.036	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
2,4,5-Trichlorophenol	<0.076		0.33	0.076	mg/Kg		12/04/20 08:51	12/05/20 14:24	1
2,4,6-Trichlorophenol	<0.11		0.33	0.11	mg/Kg		12/04/20 08:51	12/05/20 14:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	91		43 - 145	12/04/20 08:51	12/05/20 14:24	1
2-Fluorophenol	106		31 - 166	12/04/20 08:51	12/05/20 14:24	1
Nitrobenzene-d5	92		37 - 147	12/04/20 08:51	12/05/20 14:24	1
Phenol-d5	98		30 - 153	12/04/20 08:51	12/05/20 14:24	1
Terphenyl-d14	119		42 - 157	12/04/20 08:51	12/05/20 14:24	1
2,4,6-Tribromophenol	72		31 - 143	12/04/20 08:51	12/05/20 14:24	1

Lab Sample ID: LCS 500-575359/2-A
Matrix: Solid
Analysis Batch: 575497

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575359

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1.33	1.13		mg/Kg		85	65 - 124
Acenaphthylene	1.33	1.12		mg/Kg		84	68 - 120
Anthracene	1.33	1.14		mg/Kg		86	70 - 114
Benzo[a]anthracene	1.33	1.16		mg/Kg		87	67 - 122
Benzo[a]pyrene	1.33	1.22		mg/Kg		92	65 - 133
Benzo[b]fluoranthene	1.33	1.25		mg/Kg		94	69 - 129
Benzo[g,h,i]perylene	1.33	1.22		mg/Kg		92	72 - 131
Benzo[k]fluoranthene	1.33	1.26		mg/Kg		95	68 - 127
Bis(2-chloroethoxy)methane	1.33	1.15		mg/Kg		86	60 - 112
Bis(2-chloroethyl)ether	1.33	1.14		mg/Kg		85	55 - 111
Bis(2-ethylhexyl) phthalate	1.33	1.20		mg/Kg		90	72 - 131
4-Bromophenyl phenyl ether	1.33	1.16		mg/Kg		87	68 - 118
Butyl benzyl phthalate	1.33	1.21		mg/Kg		91	71 - 129
Carbazole	1.33	1.17		mg/Kg		88	65 - 142
4-Chloroaniline	1.33	1.05		mg/Kg		79	30 - 150
4-Chloro-3-methylphenol	1.33	1.15		mg/Kg		86	65 - 122
2-Chloronaphthalene	1.33	1.14		mg/Kg		85	69 - 114
2-Chlorophenol	1.33	1.16		mg/Kg		87	64 - 110

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191854-1

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

Lab Sample ID: LCS 500-575359/2-A

Matrix: Solid

Analysis Batch: 575497

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 575359

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorophenyl phenyl ether	1.33	1.17		mg/Kg		88	62 - 119
Chrysene	1.33	1.15		mg/Kg		86	63 - 120
Dibenz(a,h)anthracene	1.33	1.30		mg/Kg		98	64 - 131
Dibenzofuran	1.33	1.14		mg/Kg		85	66 - 115
1,2-Dichlorobenzene	1.33	1.11		mg/Kg		83	62 - 110
1,3-Dichlorobenzene	1.33	1.08		mg/Kg		81	65 - 124
1,4-Dichlorobenzene	1.33	1.08		mg/Kg		81	61 - 110
3,3'-Dichlorobenzidine	1.33	0.867		mg/Kg		65	35 - 128
2,4-Dichlorophenol	1.33	1.13		mg/Kg		85	58 - 120
Diethyl phthalate	1.33	1.19		mg/Kg		89	58 - 120
2,4-Dimethylphenol	1.33	1.14		mg/Kg		85	60 - 110
Dimethyl phthalate	1.33	1.17		mg/Kg		88	69 - 116
Di-n-butyl phthalate	1.33	1.19		mg/Kg		89	65 - 120
4,6-Dinitro-2-methylphenol	2.67	0.826		mg/Kg		31	10 - 110
2,4-Dinitrophenol	2.67	<0.59		mg/Kg		17	10 - 100
2,4-Dinitrotoluene	1.33	1.17		mg/Kg		88	69 - 124
2,6-Dinitrotoluene	1.33	1.19		mg/Kg		89	70 - 123
Di-n-octyl phthalate	1.33	1.14		mg/Kg		85	68 - 134
Fluoranthene	1.33	1.17		mg/Kg		88	62 - 120
Fluorene	1.33	1.15		mg/Kg		87	62 - 120
Hexachlorobenzene	1.33	1.26		mg/Kg		94	63 - 124
Hexachlorobutadiene	1.33	1.21		mg/Kg		91	56 - 120
Hexachlorocyclopentadiene	1.33	0.695		mg/Kg		52	10 - 133
Hexachloroethane	1.33	1.10		mg/Kg		82	60 - 114
Indeno[1,2,3-cd]pyrene	1.33	1.24		mg/Kg		93	68 - 130
Isophorone	1.33	1.17		mg/Kg		87	55 - 110
2-Methylnaphthalene	1.33	1.15		mg/Kg		86	69 - 112
2-Methylphenol	1.33	1.20		mg/Kg		90	60 - 120
3 & 4 Methylphenol	1.33	1.16		mg/Kg		87	57 - 120
Naphthalene	1.33	1.12		mg/Kg		84	63 - 110
2-Nitroaniline	1.33	1.17		mg/Kg		88	57 - 124
3-Nitroaniline	1.33	0.891		mg/Kg		67	40 - 122
4-Nitroaniline	1.33	1.03		mg/Kg		78	60 - 160
Nitrobenzene	1.33	1.17		mg/Kg		88	60 - 116
2-Nitrophenol	1.33	1.14		mg/Kg		86	60 - 120
4-Nitrophenol	2.67	2.24		mg/Kg		84	30 - 122
N-Nitrosodi-n-propylamine	1.33	1.21		mg/Kg		91	56 - 118
N-Nitrosodiphenylamine	1.33	1.14		mg/Kg		86	65 - 112
2,2'-oxybis[1-chloropropane]	1.33	1.23		mg/Kg		92	40 - 124
Pentachlorophenol	2.67	1.64		mg/Kg		62	13 - 112
Phenanthrene	1.33	1.15		mg/Kg		86	62 - 120
Phenol	1.33	1.18		mg/Kg		88	56 - 122
Pyrene	1.33	1.18		mg/Kg		89	61 - 128
1,2,4-Trichlorobenzene	1.33	1.17		mg/Kg		88	66 - 117
2,4,5-Trichlorophenol	1.33	1.12		mg/Kg		84	50 - 120
2,4,6-Trichlorophenol	1.33	1.10		mg/Kg		82	57 - 120

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191854-1

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

Lab Sample ID: LCS 500-575359/2-A
Matrix: Solid
Analysis Batch: 575497

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575359

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	85		43 - 145
2-Fluorophenol	94		31 - 166
Nitrobenzene-d5	88		37 - 147
Phenol-d5	91		30 - 153
Terphenyl-d14	93		42 - 157
2,4,6-Tribromophenol	90		31 - 143

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-575700/1-A
Matrix: Solid
Analysis Batch: 575870

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575700

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.39		2.0	0.39	mg/Kg		12/07/20 18:02	12/08/20 11:49	1
Arsenic	<0.34		1.0	0.34	mg/Kg		12/07/20 18:02	12/08/20 11:49	1
Barium	<0.11		1.0	0.11	mg/Kg		12/07/20 18:02	12/08/20 11:49	1
Beryllium	<0.093		0.40	0.093	mg/Kg		12/07/20 18:02	12/08/20 11:49	1
Cadmium	0.0369	J	0.20	0.036	mg/Kg		12/07/20 18:02	12/08/20 11:49	1
Chromium	<0.50		1.0	0.50	mg/Kg		12/07/20 18:02	12/08/20 11:49	1
Cobalt	<0.13		0.50	0.13	mg/Kg		12/07/20 18:02	12/08/20 11:49	1
Copper	<0.28		1.0	0.28	mg/Kg		12/07/20 18:02	12/08/20 11:49	1
Iron	<10		20	10	mg/Kg		12/07/20 18:02	12/08/20 11:49	1
Lead	<0.23		0.50	0.23	mg/Kg		12/07/20 18:02	12/08/20 11:49	1
Magnesium	<5.0		10	5.0	mg/Kg		12/07/20 18:02	12/08/20 11:49	1
Calcium	6.25	J	20	3.4	mg/Kg		12/07/20 18:02	12/08/20 11:49	1
Manganese	0.162	J	1.0	0.15	mg/Kg		12/07/20 18:02	12/08/20 11:49	1
Nickel	<0.29		1.0	0.29	mg/Kg		12/07/20 18:02	12/08/20 11:49	1
Selenium	<0.59		1.0	0.59	mg/Kg		12/07/20 18:02	12/08/20 11:49	1
Silver	<0.13		0.50	0.13	mg/Kg		12/07/20 18:02	12/08/20 11:49	1
Thallium	<0.50		1.0	0.50	mg/Kg		12/07/20 18:02	12/08/20 11:49	1
Vanadium	<0.12		0.50	0.12	mg/Kg		12/07/20 18:02	12/08/20 11:49	1
Zinc	<0.88		2.0	0.88	mg/Kg		12/07/20 18:02	12/08/20 11:49	1
Potassium	<18		50	18	mg/Kg		12/07/20 18:02	12/08/20 11:49	1
Sodium	50.5	J	100	15	mg/Kg		12/07/20 18:02	12/08/20 11:49	1

Lab Sample ID: LCS 500-575700/2-A
Matrix: Solid
Analysis Batch: 575870

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575700

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
Antimony	50.0	42.7		mg/Kg		85		80 - 120
Arsenic	10.0	9.14		mg/Kg		91		80 - 120
Barium	200	191		mg/Kg		96		80 - 120
Beryllium	5.00	4.45		mg/Kg		89		80 - 120
Cadmium	5.00	4.55		mg/Kg		91		80 - 120
Chromium	20.0	19.0		mg/Kg		95		80 - 120
Cobalt	50.0	48.0		mg/Kg		96		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 - Lake County - WO 073

Job ID: 500-191854-1

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

Lab Sample ID: LCS 500-575700/2-A
Matrix: Solid
Analysis Batch: 575870

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575700

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	100	109		mg/Kg		109	80 - 120
Lead	10.0	9.29		mg/Kg		93	80 - 120
Magnesium	1000	907		mg/Kg		91	80 - 120
Calcium	1000	942		mg/Kg		94	80 - 120
Manganese	50.0	45.2		mg/Kg		90	80 - 120
Nickel	50.0	47.3		mg/Kg		95	80 - 120
Selenium	10.0	8.61		mg/Kg		86	80 - 120
Silver	5.00	4.59		mg/Kg		92	80 - 120
Thallium	10.0	9.58		mg/Kg		96	80 - 120
Vanadium	50.0	48.3		mg/Kg		97	80 - 120
Zinc	50.0	47.1		mg/Kg		94	80 - 120
Potassium	1000	943		mg/Kg		94	80 - 120
Sodium	1000	1010		mg/Kg		101	80 - 120

Lab Sample ID: LCS 500-575877/2-A
Matrix: Solid
Analysis Batch: 576153

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575877

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	0.504		mg/L		101	80 - 120
Beryllium	0.0500	0.0504		mg/L		101	80 - 120
Cadmium	0.0500	0.0543		mg/L		109	80 - 120
Chromium	0.200	0.193		mg/L		97	80 - 120
Cobalt	0.500	0.511		mg/L		102	80 - 120
Copper	0.250	0.283		mg/L		113	80 - 120
Iron	1.00	0.974		mg/L		97	80 - 120
Lead	0.100	0.0969		mg/L		97	80 - 120
Magnesium	10.0	9.11		mg/L		91	80 - 120
Calcium	10.0	9.86		mg/L		99	80 - 120
Manganese	0.500	0.465		mg/L		93	80 - 120
Nickel	0.500	0.507		mg/L		101	80 - 120
Selenium	0.100	0.105		mg/L		105	80 - 120
Silver	0.0500	0.0537		mg/L		107	80 - 120
Vanadium	0.500	0.505		mg/L		101	80 - 120
Zinc	0.500	0.516		mg/L		103	80 - 120
Potassium	10.0	12.0		mg/L		120	80 - 120

Lab Sample ID: LCS 500-575879/2-A
Matrix: Solid
Analysis Batch: 576153

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575879

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.0500	0.0467		mg/L		93	80 - 120
Lead	0.100	0.0955		mg/L		95	80 - 120

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191854-1

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

Lab Sample ID: LCS 500-575879/2-A
Matrix: Solid
Analysis Batch: 576418

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575879

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Manganese	0.500	0.483		mg/L		97	80 - 120

Lab Sample ID: LB 500-575682/1-B
Matrix: Solid
Analysis Batch: 576153

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 575877

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		12/08/20 17:06	12/09/20 20:51	1
Barium	<0.050		0.50	0.050	mg/L		12/08/20 17:06	12/09/20 20:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/08/20 17:06	12/09/20 20:51	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		12/08/20 17:06	12/09/20 20:51	1
Chromium	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 20:51	1
Cobalt	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 20:51	1
Copper	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 20:51	1
Iron	<0.20		0.40	0.20	mg/L		12/08/20 17:06	12/09/20 20:51	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/08/20 17:06	12/09/20 20:51	1
Magnesium	<0.50		2.5	0.50	mg/L		12/08/20 17:06	12/09/20 20:51	1
Calcium	<0.50		5.0	0.50	mg/L		12/08/20 17:06	12/09/20 20:51	1
Manganese	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 20:51	1
Nickel	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 20:51	1
Selenium	<0.020		0.050	0.020	mg/L		12/08/20 17:06	12/09/20 20:51	1
Silver	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 20:51	1
Vanadium	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 20:51	1
Zinc	<0.020		0.50	0.020	mg/L		12/08/20 17:06	12/09/20 20:51	1
Potassium	<0.50		2.5	0.50	mg/L		12/08/20 17:06	12/09/20 20:51	1

Lab Sample ID: LB 500-575687/1-B
Matrix: Solid
Analysis Batch: 576153

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 575879

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0020		0.0050	0.0020	mg/L		12/08/20 17:10	12/09/20 22:49	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/08/20 17:10	12/09/20 22:49	1

Lab Sample ID: LB 500-575687/1-B
Matrix: Solid
Analysis Batch: 576418

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 575879

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.010		0.025	0.010	mg/L		12/08/20 17:10	12/11/20 10:39	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-575877/2-A
Matrix: Solid
Analysis Batch: 576084

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575877

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.465		mg/L		93	80 - 120
Thallium	0.100	0.0984		mg/L		98	80 - 120

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191854-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LB 500-575682/1-B
 Matrix: Solid
 Analysis Batch: 576084

Client Sample ID: Method Blank
 Prep Type: TCLP
 Prep Batch: 575877

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		12/08/20 17:06	12/09/20 14:02	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/08/20 17:06	12/09/20 14:02	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-576011/12-A
 Matrix: Solid
 Analysis Batch: 576215

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 576011

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/09/20 08:35	12/10/20 06:56	1

Lab Sample ID: LCS 500-576011/14-A
 Matrix: Solid
 Analysis Batch: 576215

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 576011

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00208		mg/L		104	80 - 120

Lab Sample ID: LB 500-575682/1-C
 Matrix: Solid
 Analysis Batch: 576215

Client Sample ID: Method Blank
 Prep Type: TCLP
 Prep Batch: 576011

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/09/20 08:35	12/10/20 06:58	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-575793/12-A
 Matrix: Solid
 Analysis Batch: 576025

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 575793

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		12/08/20 14:00	12/09/20 06:16	1

Lab Sample ID: LCS 500-575793/13-A
 Matrix: Solid
 Analysis Batch: 576025

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 575793

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.171		mg/Kg		102	80 - 120

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

Lab Sample ID: MB 500-575666/1-A
 Matrix: Solid
 Analysis Batch: 575854

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 575666

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.12		0.24	0.12	mg/Kg		12/07/20 14:07	12/07/20 17:04	1

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191854-1

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

Lab Sample ID: HLCS 500-575666/2-A
Matrix: Solid
Analysis Batch: 575854

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575666
%Rec.

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	12.0	12.1		mg/Kg		101	90 - 110

Lab Sample ID: LCS 500-575666/3-A
Matrix: Solid
Analysis Batch: 575854

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575666
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	2.40	2.46		mg/Kg		103	85 - 115

Lab Sample ID: LLCS 500-575666/4-A
Matrix: Solid
Analysis Batch: 575854

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575666
%Rec.

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	1.20	1.41		mg/Kg		117	75 - 125



QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191854-1

GC/MS VOA

Prep Batch: 575743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191854-1	3487-1-B02 (0-6)	Total/NA	Solid	5035	
500-191854-2	3487-1-B02 (6-11.3)	Total/NA	Solid	5035	
500-191854-3	3487-1-B02 (6-11.3) Dup	Total/NA	Solid	5035	
500-191854-4	3487-1-B04 (0-1.3)	Total/NA	Solid	5035	
500-191854-5	3487-1-B06 (0-1.3)	Total/NA	Solid	5035	

Analysis Batch: 575898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191854-1	3487-1-B02 (0-6)	Total/NA	Solid	8260B	575743
500-191854-2	3487-1-B02 (6-11.3)	Total/NA	Solid	8260B	575743
MB 500-575898/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-575898/29	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-575898/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 576095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191854-3	3487-1-B02 (6-11.3) Dup	Total/NA	Solid	8260B	575743
500-191854-4	3487-1-B04 (0-1.3)	Total/NA	Solid	8260B	575743
MB 500-576095/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-576095/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-576095/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 576278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191854-5	3487-1-B06 (0-1.3)	Total/NA	Solid	8260B	575743
MB 500-576278/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-576278/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-576278/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 575359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191854-1	3487-1-B02 (0-6)	Total/NA	Solid	3541	
500-191854-2	3487-1-B02 (6-11.3)	Total/NA	Solid	3541	
500-191854-3	3487-1-B02 (6-11.3) Dup	Total/NA	Solid	3541	
500-191854-4	3487-1-B04 (0-1.3)	Total/NA	Solid	3541	
500-191854-5	3487-1-B06 (0-1.3)	Total/NA	Solid	3541	
MB 500-575359/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-575359/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 575497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191854-1	3487-1-B02 (0-6)	Total/NA	Solid	8270D	575359
500-191854-2	3487-1-B02 (6-11.3)	Total/NA	Solid	8270D	575359
500-191854-3	3487-1-B02 (6-11.3) Dup	Total/NA	Solid	8270D	575359
500-191854-4	3487-1-B04 (0-1.3)	Total/NA	Solid	8270D	575359
500-191854-5	3487-1-B06 (0-1.3)	Total/NA	Solid	8270D	575359
MB 500-575359/1-A	Method Blank	Total/NA	Solid	8270D	575359
LCS 500-575359/2-A	Lab Control Sample	Total/NA	Solid	8270D	575359

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191854-1

Metals

Leach Batch: 575682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191854-1	3487-1-B02 (0-6)	TCLP	Solid	1311	
500-191854-2	3487-1-B02 (6-11.3)	TCLP	Solid	1311	
500-191854-3	3487-1-B02 (6-11.3) Dup	TCLP	Solid	1311	
500-191854-4	3487-1-B04 (0-1.3)	TCLP	Solid	1311	
500-191854-5	3487-1-B06 (0-1.3)	TCLP	Solid	1311	
LB 500-575682/1-B	Method Blank	TCLP	Solid	1311	
LB 500-575682/1-C	Method Blank	TCLP	Solid	1311	

Leach Batch: 575687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191854-1	3487-1-B02 (0-6)	SPLP East	Solid	1312	
500-191854-2	3487-1-B02 (6-11.3)	SPLP East	Solid	1312	
500-191854-3	3487-1-B02 (6-11.3) Dup	SPLP East	Solid	1312	
500-191854-4	3487-1-B04 (0-1.3)	SPLP East	Solid	1312	
LB 500-575687/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 575700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191854-1	3487-1-B02 (0-6)	Total/NA	Solid	3050B	
500-191854-2	3487-1-B02 (6-11.3)	Total/NA	Solid	3050B	
500-191854-3	3487-1-B02 (6-11.3) Dup	Total/NA	Solid	3050B	
500-191854-4	3487-1-B04 (0-1.3)	Total/NA	Solid	3050B	
500-191854-5	3487-1-B06 (0-1.3)	Total/NA	Solid	3050B	
MB 500-575700/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-575700/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 575793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191854-1	3487-1-B02 (0-6)	Total/NA	Solid	7471B	
500-191854-2	3487-1-B02 (6-11.3)	Total/NA	Solid	7471B	
500-191854-3	3487-1-B02 (6-11.3) Dup	Total/NA	Solid	7471B	
500-191854-4	3487-1-B04 (0-1.3)	Total/NA	Solid	7471B	
500-191854-5	3487-1-B06 (0-1.3)	Total/NA	Solid	7471B	
MB 500-575793/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-575793/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 575870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191854-1	3487-1-B02 (0-6)	Total/NA	Solid	6010B	575700
500-191854-2	3487-1-B02 (6-11.3)	Total/NA	Solid	6010B	575700
500-191854-3	3487-1-B02 (6-11.3) Dup	Total/NA	Solid	6010B	575700
500-191854-4	3487-1-B04 (0-1.3)	Total/NA	Solid	6010B	575700
500-191854-5	3487-1-B06 (0-1.3)	Total/NA	Solid	6010B	575700
MB 500-575700/1-A	Method Blank	Total/NA	Solid	6010B	575700
LCS 500-575700/2-A	Lab Control Sample	Total/NA	Solid	6010B	575700

Prep Batch: 575877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191854-1	3487-1-B02 (0-6)	TCLP	Solid	3010A	575682
500-191854-2	3487-1-B02 (6-11.3)	TCLP	Solid	3010A	575682
500-191854-3	3487-1-B02 (6-11.3) Dup	TCLP	Solid	3010A	575682

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191854-1

Metals (Continued)

Prep Batch: 575877 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191854-4	3487-1-B04 (0-1.3)	TCLP	Solid	3010A	575682
500-191854-5	3487-1-B06 (0-1.3)	TCLP	Solid	3010A	575682
LB 500-575682/1-B	Method Blank	TCLP	Solid	3010A	575682
LCS 500-575877/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 575879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191854-1	3487-1-B02 (0-6)	SPLP East	Solid	3010A	575687
500-191854-2	3487-1-B02 (6-11.3)	SPLP East	Solid	3010A	575687
500-191854-3	3487-1-B02 (6-11.3) Dup	SPLP East	Solid	3010A	575687
500-191854-4	3487-1-B04 (0-1.3)	SPLP East	Solid	3010A	575687
LB 500-575687/1-B	Method Blank	SPLP East	Solid	3010A	575687
LCS 500-575879/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 576011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191854-1	3487-1-B02 (0-6)	TCLP	Solid	7470A	575682
500-191854-2	3487-1-B02 (6-11.3)	TCLP	Solid	7470A	575682
500-191854-3	3487-1-B02 (6-11.3) Dup	TCLP	Solid	7470A	575682
500-191854-4	3487-1-B04 (0-1.3)	TCLP	Solid	7470A	575682
500-191854-5	3487-1-B06 (0-1.3)	TCLP	Solid	7470A	575682
LB 500-575682/1-C	Method Blank	TCLP	Solid	7470A	575682
MB 500-576011/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-576011/14-A	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 576025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191854-1	3487-1-B02 (0-6)	Total/NA	Solid	7471B	575793
500-191854-2	3487-1-B02 (6-11.3)	Total/NA	Solid	7471B	575793
500-191854-3	3487-1-B02 (6-11.3) Dup	Total/NA	Solid	7471B	575793
500-191854-4	3487-1-B04 (0-1.3)	Total/NA	Solid	7471B	575793
500-191854-5	3487-1-B06 (0-1.3)	Total/NA	Solid	7471B	575793
MB 500-575793/12-A	Method Blank	Total/NA	Solid	7471B	575793
LCS 500-575793/13-A	Lab Control Sample	Total/NA	Solid	7471B	575793

Analysis Batch: 576084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191854-1	3487-1-B02 (0-6)	TCLP	Solid	6020A	575877
500-191854-2	3487-1-B02 (6-11.3)	TCLP	Solid	6020A	575877
500-191854-3	3487-1-B02 (6-11.3) Dup	TCLP	Solid	6020A	575877
500-191854-4	3487-1-B04 (0-1.3)	TCLP	Solid	6020A	575877
500-191854-5	3487-1-B06 (0-1.3)	TCLP	Solid	6020A	575877
LB 500-575682/1-B	Method Blank	TCLP	Solid	6020A	575877
LCS 500-575877/2-A	Lab Control Sample	Total/NA	Solid	6020A	575877

Analysis Batch: 576152

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191854-1	3487-1-B02 (0-6)	Total/NA	Solid	6010B	575700
500-191854-2	3487-1-B02 (6-11.3)	Total/NA	Solid	6010B	575700
500-191854-3	3487-1-B02 (6-11.3) Dup	Total/NA	Solid	6010B	575700
500-191854-4	3487-1-B04 (0-1.3)	Total/NA	Solid	6010B	575700

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191854-1

Metals (Continued)

Analysis Batch: 576152 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191854-5	3487-1-B06 (0-1.3)	Total/NA	Solid	6010B	575700
500-191854-5	3487-1-B06 (0-1.3)	Total/NA	Solid	6010B	575700

Analysis Batch: 576153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191854-1	3487-1-B02 (0-6)	SPLP East	Solid	6010B	575879
500-191854-1	3487-1-B02 (0-6)	TCLP	Solid	6010B	575877
500-191854-2	3487-1-B02 (6-11.3)	SPLP East	Solid	6010B	575879
500-191854-2	3487-1-B02 (6-11.3)	TCLP	Solid	6010B	575877
500-191854-3	3487-1-B02 (6-11.3) Dup	TCLP	Solid	6010B	575877
500-191854-4	3487-1-B04 (0-1.3)	SPLP East	Solid	6010B	575879
500-191854-4	3487-1-B04 (0-1.3)	TCLP	Solid	6010B	575877
500-191854-5	3487-1-B06 (0-1.3)	TCLP	Solid	6010B	575877
LB 500-575682/1-B	Method Blank	TCLP	Solid	6010B	575877
LB 500-575687/1-B	Method Blank	SPLP East	Solid	6010B	575879
LCS 500-575877/2-A	Lab Control Sample	Total/NA	Solid	6010B	575877
LCS 500-575879/2-A	Lab Control Sample	Total/NA	Solid	6010B	575879

Analysis Batch: 576215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191854-1	3487-1-B02 (0-6)	TCLP	Solid	7470A	576011
500-191854-2	3487-1-B02 (6-11.3)	TCLP	Solid	7470A	576011
500-191854-3	3487-1-B02 (6-11.3) Dup	TCLP	Solid	7470A	576011
500-191854-4	3487-1-B04 (0-1.3)	TCLP	Solid	7470A	576011
500-191854-5	3487-1-B06 (0-1.3)	TCLP	Solid	7470A	576011
LB 500-575682/1-C	Method Blank	TCLP	Solid	7470A	576011
MB 500-576011/12-A	Method Blank	Total/NA	Solid	7470A	576011
LCS 500-576011/14-A	Lab Control Sample	Total/NA	Solid	7470A	576011

Analysis Batch: 576368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191854-1	3487-1-B02 (0-6)	TCLP	Solid	6010B	575877
500-191854-2	3487-1-B02 (6-11.3)	TCLP	Solid	6010B	575877
500-191854-3	3487-1-B02 (6-11.3) Dup	TCLP	Solid	6010B	575877
500-191854-4	3487-1-B04 (0-1.3)	TCLP	Solid	6010B	575877
500-191854-5	3487-1-B06 (0-1.3)	TCLP	Solid	6010B	575877

Analysis Batch: 576418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191854-1	3487-1-B02 (0-6)	SPLP East	Solid	6010B	575879
500-191854-2	3487-1-B02 (6-11.3)	SPLP East	Solid	6010B	575879
500-191854-3	3487-1-B02 (6-11.3) Dup	SPLP East	Solid	6010B	575879
500-191854-4	3487-1-B04 (0-1.3)	SPLP East	Solid	6010B	575879
LB 500-575687/1-B	Method Blank	SPLP East	Solid	6010B	575879
LCS 500-575879/2-A	Lab Control Sample	Total/NA	Solid	6010B	575879

General Chemistry

Analysis Batch: 575543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191854-1	3487-1-B02 (0-6)	Total/NA	Solid	Moisture	

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191854-1

General Chemistry (Continued)

Analysis Batch: 575543 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191854-2	3487-1-B02 (6-11.3)	Total/NA	Solid	Moisture	
500-191854-3	3487-1-B02 (6-11.3) Dup	Total/NA	Solid	Moisture	
500-191854-4	3487-1-B04 (0-1.3)	Total/NA	Solid	Moisture	
500-191854-5	3487-1-B06 (0-1.3)	Total/NA	Solid	Moisture	

Prep Batch: 575666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191854-1	3487-1-B02 (0-6)	Total/NA	Solid	9010C	
500-191854-2	3487-1-B02 (6-11.3)	Total/NA	Solid	9010C	
500-191854-3	3487-1-B02 (6-11.3) Dup	Total/NA	Solid	9010C	
500-191854-4	3487-1-B04 (0-1.3)	Total/NA	Solid	9010C	
500-191854-5	3487-1-B06 (0-1.3)	Total/NA	Solid	9010C	
MB 500-575666/1-A	Method Blank	Total/NA	Solid	9010C	
HLCS 500-575666/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 500-575666/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 500-575666/4-A	Lab Control Sample	Total/NA	Solid	9010C	

Analysis Batch: 575854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191854-1	3487-1-B02 (0-6)	Total/NA	Solid	9012B	575666
500-191854-2	3487-1-B02 (6-11.3)	Total/NA	Solid	9012B	575666
500-191854-3	3487-1-B02 (6-11.3) Dup	Total/NA	Solid	9012B	575666
500-191854-4	3487-1-B04 (0-1.3)	Total/NA	Solid	9012B	575666
500-191854-5	3487-1-B06 (0-1.3)	Total/NA	Solid	9012B	575666
MB 500-575666/1-A	Method Blank	Total/NA	Solid	9012B	575666
HLCS 500-575666/2-A	Lab Control Sample	Total/NA	Solid	9012B	575666
LCS 500-575666/3-A	Lab Control Sample	Total/NA	Solid	9012B	575666
LLCS 500-575666/4-A	Lab Control Sample	Total/NA	Solid	9012B	575666

Analysis Batch: 576068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191854-1	3487-1-B02 (0-6)	Total/NA	Solid	9045D	
500-191854-2	3487-1-B02 (6-11.3)	Total/NA	Solid	9045D	
500-191854-3	3487-1-B02 (6-11.3) Dup	Total/NA	Solid	9045D	
500-191854-4	3487-1-B04 (0-1.3)	Total/NA	Solid	9045D	
500-191854-5	3487-1-B06 (0-1.3)	Total/NA	Solid	9045D	
LCS 500-576068/2	Lab Control Sample	Total/NA	Solid	9045D	
LCS 500-576068/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191854-1

Client Sample ID: 3487-1-B02 (0-6)

Lab Sample ID: 500-191854-1

Date Collected: 12/02/20 08:30

Matrix: Solid

Date Received: 12/02/20 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			575687	12/07/20 14:40	CMS	TAL CHI
SPLP East	Prep	3010A			575879	12/08/20 17:10	BDE	TAL CHI
SPLP East	Analysis	6010B		1	576153	12/09/20 23:02	EEN	TAL CHI
SPLP East	Leach	1312			575687	12/07/20 14:40	CMS	TAL CHI
SPLP East	Prep	3010A			575879	12/08/20 17:10	BDE	TAL CHI
SPLP East	Analysis	6010B		1	576418	12/11/20 10:51	EEN	TAL CHI
TCLP	Leach	1311			575682	12/07/20 14:40	CMS	TAL CHI
TCLP	Prep	3010A			575877	12/08/20 17:06	BDE	TAL CHI
TCLP	Analysis	6010B		1	576153	12/09/20 22:04	EEN	TAL CHI
TCLP	Leach	1311			575682	12/07/20 14:40	CMS	TAL CHI
TCLP	Prep	3010A			575877	12/08/20 17:06	BDE	TAL CHI
TCLP	Analysis	6010B		1	576368	12/10/20 12:20	EEN	TAL CHI
TCLP	Leach	1311			575682	12/07/20 14:40	CMS	TAL CHI
TCLP	Prep	3010A			575877	12/08/20 17:06	BDE	TAL CHI
TCLP	Analysis	6020A		1	576084	12/09/20 14:43	FXG	TAL CHI
TCLP	Leach	1311			575682	12/07/20 14:40	CMS	TAL CHI
TCLP	Prep	7470A			576011	12/09/20 08:35	MJG	TAL CHI
TCLP	Analysis	7470A		1	576215	12/10/20 07:02	MJG	TAL CHI
Total/NA	Analysis	9045D		1	576068	12/08/20 10:44	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	575543	12/07/20 07:07	LWN	TAL CHI

Client Sample ID: 3487-1-B02 (0-6)

Lab Sample ID: 500-191854-1

Date Collected: 12/02/20 08:30

Matrix: Solid

Date Received: 12/02/20 17:50

Percent Solids: 84.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			575743	12/03/20 17:19	WRE	TAL CHI
Total/NA	Analysis	8260B		1	575898	12/09/20 04:38	PMF	TAL CHI
Total/NA	Prep	3541			575359	12/04/20 08:51	BSO	TAL CHI
Total/NA	Analysis	8270D		1	575497	12/05/20 14:51	AJD	TAL CHI
Total/NA	Prep	3050B			575700	12/07/20 18:02	BDE	TAL CHI
Total/NA	Analysis	6010B		1	575870	12/08/20 13:09	EEN	TAL CHI
Total/NA	Prep	3050B			575700	12/07/20 18:02	BDE	TAL CHI
Total/NA	Analysis	6010B		10	576152	12/09/20 13:37	EEN	TAL CHI
Total/NA	Prep	7471B			575793	12/08/20 14:00	MJG	TAL CHI
Total/NA	Analysis	7471B		1	576025	12/09/20 06:51	MJG	TAL CHI
Total/NA	Prep	9010C			575666	12/07/20 14:07	PSP	TAL CHI
Total/NA	Analysis	9012B		1	575854	12/07/20 17:17	PSP	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191854-1

Client Sample ID: 3487-1-B02 (6-11.3)

Lab Sample ID: 500-191854-2

Date Collected: 12/02/20 08:35

Matrix: Solid

Date Received: 12/02/20 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			575687	12/07/20 14:40	CMS	TAL CHI
SPLP East	Prep	3010A			575879	12/08/20 17:10	BDE	TAL CHI
SPLP East	Analysis	6010B		1	576153	12/09/20 23:06	EEN	TAL CHI
SPLP East	Leach	1312			575687	12/07/20 14:40	CMS	TAL CHI
SPLP East	Prep	3010A			575879	12/08/20 17:10	BDE	TAL CHI
SPLP East	Analysis	6010B		1	576418	12/11/20 10:55	EEN	TAL CHI
TCLP	Leach	1311			575682	12/07/20 14:40	CMS	TAL CHI
TCLP	Prep	3010A			575877	12/08/20 17:06	BDE	TAL CHI
TCLP	Analysis	6010B		1	576153	12/09/20 22:08	EEN	TAL CHI
TCLP	Leach	1311			575682	12/07/20 14:40	CMS	TAL CHI
TCLP	Prep	3010A			575877	12/08/20 17:06	BDE	TAL CHI
TCLP	Analysis	6010B		1	576368	12/10/20 12:23	EEN	TAL CHI
TCLP	Leach	1311			575682	12/07/20 14:40	CMS	TAL CHI
TCLP	Prep	3010A			575877	12/08/20 17:06	BDE	TAL CHI
TCLP	Analysis	6020A		1	576084	12/09/20 14:45	FXG	TAL CHI
TCLP	Leach	1311			575682	12/07/20 14:40	CMS	TAL CHI
TCLP	Prep	7470A			576011	12/09/20 08:35	MJG	TAL CHI
TCLP	Analysis	7470A		1	576215	12/10/20 07:04	MJG	TAL CHI
Total/NA	Analysis	9045D		1	576068	12/08/20 10:47	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	575543	12/07/20 07:07	LWN	TAL CHI

Client Sample ID: 3487-1-B02 (6-11.3)

Lab Sample ID: 500-191854-2

Date Collected: 12/02/20 08:35

Matrix: Solid

Date Received: 12/02/20 17:50

Percent Solids: 85.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			575743	12/03/20 17:19	WRE	TAL CHI
Total/NA	Analysis	8260B		1	575898	12/09/20 05:04	PMF	TAL CHI
Total/NA	Prep	3541			575359	12/04/20 08:51	BSO	TAL CHI
Total/NA	Analysis	8270D		1	575497	12/05/20 15:18	AJD	TAL CHI
Total/NA	Prep	3050B			575700	12/07/20 18:02	BDE	TAL CHI
Total/NA	Analysis	6010B		1	575870	12/08/20 13:12	EEN	TAL CHI
Total/NA	Prep	3050B			575700	12/07/20 18:02	BDE	TAL CHI
Total/NA	Analysis	6010B		10	576152	12/09/20 13:40	EEN	TAL CHI
Total/NA	Prep	7471B			575793	12/08/20 14:00	MJG	TAL CHI
Total/NA	Analysis	7471B		1	576025	12/09/20 06:53	MJG	TAL CHI
Total/NA	Prep	9010C			575666	12/07/20 14:07	PSP	TAL CHI
Total/NA	Analysis	9012B		1	575854	12/07/20 17:19	PSP	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191854-1

Client Sample ID: 3487-1-B02 (6-11.3) Dup

Lab Sample ID: 500-191854-3

Date Collected: 12/02/20 08:40

Matrix: Solid

Date Received: 12/02/20 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			575687	12/07/20 14:40	CMS	TAL CHI
SPLP East	Prep	3010A			575879	12/08/20 17:10	BDE	TAL CHI
SPLP East	Analysis	6010B		1	576418	12/11/20 10:58	EEN	TAL CHI
TCLP	Leach	1311			575682	12/07/20 14:40	CMS	TAL CHI
TCLP	Prep	3010A			575877	12/08/20 17:06	BDE	TAL CHI
TCLP	Analysis	6010B		1	576153	12/09/20 22:11	EEN	TAL CHI
TCLP	Leach	1311			575682	12/07/20 14:40	CMS	TAL CHI
TCLP	Prep	3010A			575877	12/08/20 17:06	BDE	TAL CHI
TCLP	Analysis	6010B		1	576368	12/10/20 12:33	EEN	TAL CHI
TCLP	Leach	1311			575682	12/07/20 14:40	CMS	TAL CHI
TCLP	Prep	3010A			575877	12/08/20 17:06	BDE	TAL CHI
TCLP	Analysis	6020A		1	576084	12/09/20 14:47	FXG	TAL CHI
TCLP	Leach	1311			575682	12/07/20 14:40	CMS	TAL CHI
TCLP	Prep	7470A			576011	12/09/20 08:35	MJG	TAL CHI
TCLP	Analysis	7470A		1	576215	12/10/20 07:06	MJG	TAL CHI
Total/NA	Analysis	9045D		1	576068	12/08/20 10:49	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	575543	12/07/20 07:07	LWN	TAL CHI

Client Sample ID: 3487-1-B02 (6-11.3) Dup

Lab Sample ID: 500-191854-3

Date Collected: 12/02/20 08:40

Matrix: Solid

Date Received: 12/02/20 17:50

Percent Solids: 84.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			575743	12/03/20 17:19	WRE	TAL CHI
Total/NA	Analysis	8260B		1	576095	12/10/20 10:07	PMF	TAL CHI
Total/NA	Prep	3541			575359	12/04/20 08:51	BSO	TAL CHI
Total/NA	Analysis	8270D		1	575497	12/05/20 15:46	AJD	TAL CHI
Total/NA	Prep	3050B			575700	12/07/20 18:02	BDE	TAL CHI
Total/NA	Analysis	6010B		1	575870	12/08/20 13:16	EEN	TAL CHI
Total/NA	Prep	3050B			575700	12/07/20 18:02	BDE	TAL CHI
Total/NA	Analysis	6010B		10	576152	12/09/20 13:43	EEN	TAL CHI
Total/NA	Prep	7471B			575793	12/08/20 14:00	MJG	TAL CHI
Total/NA	Analysis	7471B		1	576025	12/09/20 06:54	MJG	TAL CHI
Total/NA	Prep	9010C			575666	12/07/20 14:07	PSP	TAL CHI
Total/NA	Analysis	9012B		1	575854	12/07/20 17:24	PSP	TAL CHI

Client Sample ID: 3487-1-B04 (0-1.3)

Lab Sample ID: 500-191854-4

Date Collected: 12/02/20 09:00

Matrix: Solid

Date Received: 12/02/20 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			575687	12/07/20 14:40	CMS	TAL CHI
SPLP East	Prep	3010A			575879	12/08/20 17:10	BDE	TAL CHI
SPLP East	Analysis	6010B		1	576153	12/09/20 23:12	EEN	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191854-1

Client Sample ID: 3487-1-B04 (0-1.3)

Lab Sample ID: 500-191854-4

Date Collected: 12/02/20 09:00

Matrix: Solid

Date Received: 12/02/20 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			575687	12/07/20 14:40	CMS	TAL CHI
SPLP East	Prep	3010A			575879	12/08/20 17:10	BDE	TAL CHI
SPLP East	Analysis	6010B		1	576418	12/11/20 11:01	EEN	TAL CHI
TCLP	Leach	1311			575682	12/07/20 14:40	CMS	TAL CHI
TCLP	Prep	3010A			575877	12/08/20 17:06	BDE	TAL CHI
TCLP	Analysis	6010B		1	576153	12/09/20 22:15	EEN	TAL CHI
TCLP	Leach	1311			575682	12/07/20 14:40	CMS	TAL CHI
TCLP	Prep	3010A			575877	12/08/20 17:06	BDE	TAL CHI
TCLP	Analysis	6010B		1	576368	12/10/20 12:36	EEN	TAL CHI
TCLP	Leach	1311			575682	12/07/20 14:40	CMS	TAL CHI
TCLP	Prep	3010A			575877	12/08/20 17:06	BDE	TAL CHI
TCLP	Analysis	6020A		1	576084	12/09/20 14:49	FXG	TAL CHI
TCLP	Leach	1311			575682	12/07/20 14:40	CMS	TAL CHI
TCLP	Prep	7470A			576011	12/09/20 08:35	MJG	TAL CHI
TCLP	Analysis	7470A		1	576215	12/10/20 07:08	MJG	TAL CHI
Total/NA	Analysis	9045D		1	576068	12/08/20 10:52	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	575543	12/07/20 07:07	LWN	TAL CHI

Client Sample ID: 3487-1-B04 (0-1.3)

Lab Sample ID: 500-191854-4

Date Collected: 12/02/20 09:00

Matrix: Solid

Date Received: 12/02/20 17:50

Percent Solids: 83.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			575743	12/03/20 17:19	WRE	TAL CHI
Total/NA	Analysis	8260B		1	576095	12/10/20 10:32	PMF	TAL CHI
Total/NA	Prep	3541			575359	12/04/20 08:51	BSO	TAL CHI
Total/NA	Analysis	8270D		1	575497	12/05/20 20:44	AJD	TAL CHI
Total/NA	Prep	3050B			575700	12/07/20 18:02	BDE	TAL CHI
Total/NA	Analysis	6010B		1	575870	12/08/20 13:25	EEN	TAL CHI
Total/NA	Prep	3050B			575700	12/07/20 18:02	BDE	TAL CHI
Total/NA	Analysis	6010B		1	576152	12/09/20 13:46	EEN	TAL CHI
Total/NA	Prep	7471B			575793	12/08/20 14:00	MJG	TAL CHI
Total/NA	Analysis	7471B		1	576025	12/09/20 07:00	MJG	TAL CHI
Total/NA	Prep	9010C			575666	12/07/20 14:07	PSP	TAL CHI
Total/NA	Analysis	9012B		1	575854	12/07/20 17:26	PSP	TAL CHI

Client Sample ID: 3487-1-B06 (0-1.3)

Lab Sample ID: 500-191854-5

Date Collected: 12/02/20 09:25

Matrix: Solid

Date Received: 12/02/20 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			575682	12/07/20 14:40	CMS	TAL CHI
TCLP	Prep	3010A			575877	12/08/20 17:06	BDE	TAL CHI
TCLP	Analysis	6010B		1	576153	12/09/20 22:18	EEN	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191854-1

Client Sample ID: 3487-1-B06 (0-1.3)

Lab Sample ID: 500-191854-5

Date Collected: 12/02/20 09:25

Matrix: Solid

Date Received: 12/02/20 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			575682	12/07/20 14:40	CMS	TAL CHI
TCLP	Prep	3010A			575877	12/08/20 17:06	BDE	TAL CHI
TCLP	Analysis	6010B		1	576368	12/10/20 12:40	EEN	TAL CHI
TCLP	Leach	1311			575682	12/07/20 14:40	CMS	TAL CHI
TCLP	Prep	3010A			575877	12/08/20 17:06	BDE	TAL CHI
TCLP	Analysis	6020A		1	576084	12/09/20 14:51	FXG	TAL CHI
TCLP	Leach	1311			575682	12/07/20 14:40	CMS	TAL CHI
TCLP	Prep	7470A			576011	12/09/20 08:35	MJG	TAL CHI
TCLP	Analysis	7470A		1	576215	12/10/20 07:11	MJG	TAL CHI
Total/NA	Analysis	9045D		1	576068	12/08/20 10:54	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	575543	12/07/20 07:07	LWN	TAL CHI

Client Sample ID: 3487-1-B06 (0-1.3)

Lab Sample ID: 500-191854-5

Date Collected: 12/02/20 09:25

Matrix: Solid

Date Received: 12/02/20 17:50

Percent Solids: 83.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			575743	12/03/20 17:19	WRE	TAL CHI
Total/NA	Analysis	8260B		1	576278	12/10/20 23:00	PMF	TAL CHI
Total/NA	Prep	3541			575359	12/04/20 08:51	BSO	TAL CHI
Total/NA	Analysis	8270D		1	575497	12/05/20 21:11	AJD	TAL CHI
Total/NA	Prep	3050B			575700	12/07/20 18:02	BDE	TAL CHI
Total/NA	Analysis	6010B		1	575870	12/08/20 13:29	EEN	TAL CHI
Total/NA	Prep	3050B			575700	12/07/20 18:02	BDE	TAL CHI
Total/NA	Analysis	6010B		1	576152	12/09/20 13:49	EEN	TAL CHI
Total/NA	Prep	3050B			575700	12/07/20 18:02	BDE	TAL CHI
Total/NA	Analysis	6010B		10	576152	12/09/20 13:52	EEN	TAL CHI
Total/NA	Prep	7471B			575793	12/08/20 14:00	MJG	TAL CHI
Total/NA	Analysis	7471B		1	576025	12/09/20 07:01	MJG	TAL CHI
Total/NA	Prep	9010C			575666	12/07/20 14:07	PSP	TAL CHI
Total/NA	Analysis	9012B		1	575854	12/07/20 17:27	PSP	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 - Lake County - WO 073

Job ID: 500-191854-1

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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- 14
- 15

Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191854-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6010B	SPLP Metals	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9012B	Cyanide, Total and/or Amenable	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
1311	TCLP Extraction	SW846	TAL CHI
1312	SPLP Extraction	SW846	TAL CHI
3010A	Preparation, Total Metals	SW846	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL CHI
7471B	Preparation, Mercury	SW846	TAL CHI
9010C	Cyanide, Distillation	SW846	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191854-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-191854-1	3487-1-B02 (0-6)	Solid	12/02/20 08:30	12/02/20 17:50	
500-191854-2	3487-1-B02 (6-11.3)	Solid	12/02/20 08:35	12/02/20 17:50	
500-191854-3	3487-1-B02 (6-11.3) Dup	Solid	12/02/20 08:40	12/02/20 17:50	
500-191854-4	3487-1-B04 (0-1.3)	Solid	12/02/20 09:00	12/02/20 17:50	
500-191854-5	3487-1-B06 (0-1.3)	Solid	12/02/20 09:25	12/02/20 17:50	

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Address: _____

Regulatory Program: DW NPDES RCRA Other:

TAL-8210

Client Contact		Project Manager: <i>Rich. Ohren @ Terracon</i>		Site Contact:		Date: <i>12/02/2020</i>		COC No:		
Company Name: <i>Terracon</i>		Tel/Email: <i>rich.ohren@terracon.com</i>		Lab Contact:		Carrier:		1 of 1 COCs		
Address: <i>192 Exchange Blvd</i>		Analysis Turnaround Time		Filtered Sample (Y/N) _____ Perform MS / MSD (Y/N) _____ <i>UOC's</i> <i>SUOC's</i> <i>Toxicology Inorganics PA</i> <i>TCR 23 Inorganics</i> <i>SPL 23 Inorganics</i>		 500-191854 COC		Sampler: <i>D.G.A.</i>		
City/State/Zip: <i>Glendale Heights IL</i>		<input type="checkbox"/> CALENDAR DAYS <input checked="" type="checkbox"/> WORKING DAYS						For Lab Use Only:		
Phone: <i>630-445-0160</i>		TAT if different from Below _____						Walk-in Client:		
Fax:		<input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day						Lab Sampling:		
Project Name: <i>11207011N</i>								Job / SDG No.:		
Site: <i>11207011N</i>								<i>500-191854</i>		
P O #										
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes:			
<i>1</i>	<i>3487-1-B02 (0-6)</i>	<i>12/02/20</i>	<i>0830</i>	<i>G</i>	<i>S.1</i>	<i>6</i>	<i>NY</i>	<i>X</i>	<i>X</i>	<i>X</i>
<i>2</i>	<i>3487-1-B02 (6-11.3)</i>	<i>12/02/20</i>	<i>0835</i>	<i>G</i>	<i>S.1</i>	<i>6</i>	<i>NY</i>	<i>X</i>	<i>X</i>	<i>X</i>
<i>3</i>	<i>3487-1-B02 Dup (6-11.3)</i>	<i>12/02/20</i>	<i>0840</i>	<i>G</i>	<i>S.1</i>	<i>6</i>	<i>NY</i>	<i>X</i>	<i>X</i>	<i>X</i>
<i>4</i>	<i>3487-1-B04 (0-1.3)</i>	<i>12/02/20</i>	<i>0900</i>	<i>G</i>	<i>S.1</i>	<i>6</i>	<i>NY</i>	<i>X</i>	<i>X</i>	<i>X</i>
<i>5</i>	<i>3487-1-B06 (0-1.3)</i>	<i>12/02/20</i>	<i>0925</i>	<i>G</i>	<i>S.1</i>	<i>6</i>	<i>NY</i>	<i>X</i>	<i>X</i>	<i>X</i>
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other _____							Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.							<input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months			
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown										
Special Instructions/QC Requirements & Comments: <i>* No A minimum</i> <i>* Hold SPL 23 Inorganics Per Terracon Instructions</i>										
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____		Corr'd: _____		Therm ID No.: _____		
Relinquished by: <i>[Signature]</i>		Company: <i>Terracon</i>		Date/Time: <i>12/02/2020</i>		Received by: <i>[Signature]</i>		Company: <i>EYA</i>		
Relinquished by: <i>[Signature]</i>		Company: <i>EYA</i>		Date/Time: <i>12/2/20 17:50</i>		Received by:		Company:		
Relinquished by:		Company:		Date/Time:		Received in Laboratory by: <i>[Signature]</i>		Company: <i>EYA-OUT</i>		
								Date/Time: <i>12/3/20 07:15</i>		

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-191854-1

Login Number: 191854

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	0.8,1.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





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 346-US Rt 41, N/o Rte 173 - S/o Rockland Rd Office Phone Number, if available: _____

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

US Rte 41 (Southbound) IDOT STA 364+50 to 364+70 (ISGS Site 1896V2-67)

City: Lake Bluff State: IL Zip Code: 60044

County: Lake Township: Shields

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

Latitude: 42.27583 Longitude: - 87.86926

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

EPA 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.): 9

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 1896V2-67.
See Exhibit 8 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]:

Eurofins TestAmerica, Chicago - Lab Report No J191857-1.
Also see Preliminary Site Investigation Report prepared by Terracon. CCDD/USFO facility in MSA County.

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

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

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

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

Matt Weiss
Printed Name:

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

2/26/21
Date:



[Empty Box]
P.E or L.P.G. Seal:

Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	1896V2-67-B01 (0-6)
		Chicago	MSAs		Sample Depth (feet)	(0-6)
					Date Collected	12/2/2020
Volatile Organic Analytical Parameters						
Acetone	mg/kg	---	---	25		0.022
2-Butanone	mg/kg	---	---	17		0.0042
Semivolatile Organic Analytical Parameters						
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.011
Fluoranthene	mg/kg	2.7	4.1	3100		0.0095
Pyrene	mg/kg	1.9	3.0	2300		0.0083
Inorganic Analytical Parameters						
Arsenic	mg/kg	---	13	11.3		6
Barium	mg/kg	---	110	1500		85
Cadmium	mg/kg	---	0.6	5.2		0.35
Chromium, total	mg/kg	---	16.2	21		21
Lead	mg/kg	---	36	107		18
Mercury	mg/kg	---	0.06	0.89		0.038
Selenium	mg/kg	---	0.48	1.3		0.58
Silver	mg/kg	---	0.55	4.4		<0.079
Antimony	mg/kg	---	4.0	5		0.58
Beryllium	mg/kg	---	0.59	22		0.92
Calcium	mg/kg	---	9,300	---		8200
Cobalt	mg/kg	---	8.9	20		14
Copper	mg/kg	---	19.6	2900		22
Cyanide	mg/kg	---	0.51	---		0.4
Iron	mg/kg	---	15,900	15000		21000
Magnesium	mg/kg	---	4,820	325000		4900
Manganese	mg/kg	---	636	630		440
Nickel	mg/kg	---	18	100		31
Potassium	mg/kg	---	1,268	---		2200
Sodium	mg/kg	---	130	---		1300
Thallium	mg/kg	---	0.32	2.6		0.47
Vanadium	mg/kg	---	25.2	550		28
Zinc	mg/kg	---	95	5100		77
pH			6.25	9		8.3

Analyte	Units	Background		Maximum Allowable Concentration	Sample Identification	1896V2-67-B01 (0-6)
		Chicago	MSAs		Sample Depth (feet)	(0-6)
					Date Collected	12/2/2020
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	---	---	---		0.82
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	---	---	---		0.24
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	---	---	---		130
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	---	---	---		49
Manganese,TCLP	mg/L	---	---	---		0.92
Nickel,TCLP	mg/L	---	---	---		<0.010
Potassium,TCLP	mg/L	---	---	---		0.61
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: 500-191857-1
Client Project/Site: IDOT - Lake County - WO 073

For:

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

Attn: Mr. Matthew Weiss



Authorized for release by:
12/14/2020 3:37:32 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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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191857-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191857-1

Job ID: 500-191857-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-191857-1

Receipt

The samples were received on 12/2/2020 5:50 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.8° C and 1.6° C.

GC/MS VOA

Method 8260B: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for 575898 recovered outside control limits for the following analytes: Chloromethane and 1,1-Dichloroethane. These analytes were biased high in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported.

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

GC/MS Semi VOA

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

Metals

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 - Lake County - WO 073

Job ID: 500-191857-1

Client Sample ID: 1896V2-67-B01 (0-6)

Lab Sample ID: 500-191857-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	0.022		0.022	0.0095	mg/Kg	1	✳		8260B	Total/NA
2-Butanone (MEK)	0.0042	J	0.0054	0.0024	mg/Kg	1	✳		8260B	Total/NA
Benzo[b]fluoranthene	0.011	J	0.041	0.0089	mg/Kg	1	✳		8270D	Total/NA
Fluoranthene	0.0095	J	0.041	0.0077	mg/Kg	1	✳		8270D	Total/NA
Pyrene	0.0083	J	0.041	0.0082	mg/Kg	1	✳		8270D	Total/NA
Antimony	0.58	J	1.2	0.24	mg/Kg	1	✳		6010B	Total/NA
Arsenic	6.0		0.62	0.21	mg/Kg	1	✳		6010B	Total/NA
Barium	85		0.62	0.070	mg/Kg	1	✳		6010B	Total/NA
Beryllium	0.92		0.25	0.058	mg/Kg	1	✳		6010B	Total/NA
Cadmium	0.35	B	0.12	0.022	mg/Kg	1	✳		6010B	Total/NA
Chromium	21		0.62	0.30	mg/Kg	1	✳		6010B	Total/NA
Cobalt	14		0.31	0.081	mg/Kg	1	✳		6010B	Total/NA
Copper	22		0.62	0.17	mg/Kg	1	✳		6010B	Total/NA
Iron	21000		12	6.4	mg/Kg	1	✳		6010B	Total/NA
Lead	18		0.31	0.14	mg/Kg	1	✳		6010B	Total/NA
Magnesium	4900		6.2	3.1	mg/Kg	1	✳		6010B	Total/NA
Calcium	8200	B	12	2.1	mg/Kg	1	✳		6010B	Total/NA
Manganese	440		0.62	0.089	mg/Kg	1	✳		6010B	Total/NA
Nickel	31		0.62	0.18	mg/Kg	1	✳		6010B	Total/NA
Selenium	0.58	J	0.62	0.36	mg/Kg	1	✳		6010B	Total/NA
Thallium	0.47	J	0.62	0.31	mg/Kg	1	✳		6010B	Total/NA
Vanadium	28		0.31	0.073	mg/Kg	1	✳		6010B	Total/NA
Zinc	77	B	1.2	0.54	mg/Kg	1	✳		6010B	Total/NA
Potassium	2200		31	11	mg/Kg	1	✳		6010B	Total/NA
Sodium	1300	B	62	9.1	mg/Kg	1	✳		6010B	Total/NA
Barium	0.24	J	0.50	0.050	mg/L	1			6010B	TCLP
Calcium	130		5.0	0.50	mg/L	1			6010B	TCLP
Magnesium	49		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	0.92		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	0.61	J	2.5	0.50	mg/L	1			6010B	TCLP
Manganese	0.82		0.025	0.010	mg/L	1			6010B	SPLP East
Mercury	0.038		0.020	0.0067	mg/Kg	1	✳		7471B	Total/NA
Cyanide, Total	0.40		0.28	0.14	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

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191857-1

Client Sample ID: 1896V2-67-B01 (0-6)

Lab Sample ID: 500-191857-1

Date Collected: 12/02/20 10:45

Matrix: Solid

Date Received: 12/02/20 17:50

Percent Solids: 77.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.022		0.022	0.0095	mg/Kg	☼	12/03/20 17:19	12/09/20 02:05	1
Benzene	<0.00056		0.0022	0.00056	mg/Kg	☼	12/03/20 17:19	12/09/20 02:05	1
Bromodichloromethane	<0.00044		0.0022	0.00044	mg/Kg	☼	12/03/20 17:19	12/09/20 02:05	1
Bromoform	<0.00064		0.0022	0.00064	mg/Kg	☼	12/03/20 17:19	12/09/20 02:05	1
Bromomethane	<0.0021		0.0054	0.0021	mg/Kg	☼	12/03/20 17:19	12/09/20 02:05	1
2-Butanone (MEK)	0.0042 J		0.0054	0.0024	mg/Kg	☼	12/03/20 17:19	12/09/20 02:05	1
Carbon disulfide	<0.0011		0.0054	0.0011	mg/Kg	☼	12/03/20 17:19	12/09/20 02:05	1
Carbon tetrachloride	<0.00063		0.0022	0.00063	mg/Kg	☼	12/03/20 17:19	12/09/20 02:05	1
Chlorobenzene	<0.00080		0.0022	0.00080	mg/Kg	☼	12/03/20 17:19	12/09/20 02:05	1
Chloroethane	<0.0016		0.0054	0.0016	mg/Kg	☼	12/03/20 17:19	12/09/20 02:05	1
Chloroform	<0.00076		0.0022	0.00076	mg/Kg	☼	12/03/20 17:19	12/09/20 02:05	1
Chloromethane	<0.0022 *		0.0054	0.0022	mg/Kg	☼	12/03/20 17:19	12/09/20 02:05	1
cis-1,2-Dichloroethene	<0.00061		0.0022	0.00061	mg/Kg	☼	12/03/20 17:19	12/09/20 02:05	1
cis-1,3-Dichloropropene	<0.00066		0.0022	0.00066	mg/Kg	☼	12/03/20 17:19	12/09/20 02:05	1
Dibromochloromethane	<0.00071		0.0022	0.00071	mg/Kg	☼	12/03/20 17:19	12/09/20 02:05	1
1,1-Dichloroethane	<0.00075 *		0.0022	0.00075	mg/Kg	☼	12/03/20 17:19	12/09/20 02:05	1
1,2-Dichloroethane	<0.0017		0.0054	0.0017	mg/Kg	☼	12/03/20 17:19	12/09/20 02:05	1
1,1-Dichloroethene	<0.00075		0.0022	0.00075	mg/Kg	☼	12/03/20 17:19	12/09/20 02:05	1
1,2-Dichloropropene	<0.00056		0.0022	0.00056	mg/Kg	☼	12/03/20 17:19	12/09/20 02:05	1
1,3-Dichloropropene, Total	<0.00076		0.0022	0.00076	mg/Kg	☼	12/03/20 17:19	12/09/20 02:05	1
Ethylbenzene	<0.0010		0.0022	0.0010	mg/Kg	☼	12/03/20 17:19	12/09/20 02:05	1
2-Hexanone	<0.0017		0.0054	0.0017	mg/Kg	☼	12/03/20 17:19	12/09/20 02:05	1
Methylene Chloride	<0.0021		0.0054	0.0021	mg/Kg	☼	12/03/20 17:19	12/09/20 02:05	1
4-Methyl-2-pentanone (MIBK)	<0.0016		0.0054	0.0016	mg/Kg	☼	12/03/20 17:19	12/09/20 02:05	1
Methyl tert-butyl ether	<0.00064		0.0022	0.00064	mg/Kg	☼	12/03/20 17:19	12/09/20 02:05	1
Styrene	<0.00066		0.0022	0.00066	mg/Kg	☼	12/03/20 17:19	12/09/20 02:05	1
1,1,2,2-Tetrachloroethane	<0.00070		0.0022	0.00070	mg/Kg	☼	12/03/20 17:19	12/09/20 02:05	1
Tetrachloroethene	<0.00074		0.0022	0.00074	mg/Kg	☼	12/03/20 17:19	12/09/20 02:05	1
Toluene	<0.00055		0.0022	0.00055	mg/Kg	☼	12/03/20 17:19	12/09/20 02:05	1
trans-1,2-Dichloroethene	<0.00096		0.0022	0.00096	mg/Kg	☼	12/03/20 17:19	12/09/20 02:05	1
trans-1,3-Dichloropropene	<0.00076		0.0022	0.00076	mg/Kg	☼	12/03/20 17:19	12/09/20 02:05	1
1,1,1-Trichloroethane	<0.00073		0.0022	0.00073	mg/Kg	☼	12/03/20 17:19	12/09/20 02:05	1
1,1,2-Trichloroethane	<0.00093		0.0022	0.00093	mg/Kg	☼	12/03/20 17:19	12/09/20 02:05	1
Trichloroethene	<0.00074		0.0022	0.00074	mg/Kg	☼	12/03/20 17:19	12/09/20 02:05	1
Vinyl acetate	<0.0019		0.0054	0.0019	mg/Kg	☼	12/03/20 17:19	12/09/20 02:05	1
Vinyl chloride	<0.00096		0.0022	0.00096	mg/Kg	☼	12/03/20 17:19	12/09/20 02:05	1
Xylenes, Total	<0.00070		0.0044	0.00070	mg/Kg	☼	12/03/20 17:19	12/09/20 02:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		75 - 131	12/03/20 17:19	12/09/20 02:05	1
Dibromofluoromethane	99		75 - 126	12/03/20 17:19	12/09/20 02:05	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	12/03/20 17:19	12/09/20 02:05	1
Toluene-d8 (Surr)	90		75 - 124	12/03/20 17:19	12/09/20 02:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0074		0.041	0.0074	mg/Kg	☼	12/05/20 04:30	12/07/20 14:53	1
Acenaphthylene	<0.0055		0.041	0.0055	mg/Kg	☼	12/05/20 04:30	12/07/20 14:53	1
Anthracene	<0.0069		0.041	0.0069	mg/Kg	☼	12/05/20 04:30	12/07/20 14:53	1
Benzo[a]anthracene	<0.0056		0.041	0.0056	mg/Kg	☼	12/05/20 04:30	12/07/20 14:53	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191857-1

Client Sample ID: 1896V2-67-B01 (0-6)

Lab Sample ID: 500-191857-1

Date Collected: 12/02/20 10:45

Matrix: Solid

Date Received: 12/02/20 17:50

Percent Solids: 77.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.0080		0.041	0.0080	mg/Kg	☼	12/05/20 04:30	12/07/20 14:53	1
Benzo[b]fluoranthene	0.011	J	0.041	0.0089	mg/Kg	☼	12/05/20 04:30	12/07/20 14:53	1
Benzo[g,h,i]perylene	<0.013		0.041	0.013	mg/Kg	☼	12/05/20 04:30	12/07/20 14:53	1
Benzo[k]fluoranthene	<0.012		0.041	0.012	mg/Kg	☼	12/05/20 04:30	12/07/20 14:53	1
Bis(2-chloroethoxy)methane	<0.042		0.21	0.042	mg/Kg	☼	12/05/20 04:30	12/07/20 14:53	1
Bis(2-chloroethyl)ether	<0.062		0.21	0.062	mg/Kg	☼	12/05/20 04:30	12/07/20 14:53	1
Bis(2-ethylhexyl) phthalate	<0.076		0.21	0.076	mg/Kg	☼	12/05/20 04:30	12/07/20 14:53	1
4-Bromophenyl phenyl ether	<0.055		0.21	0.055	mg/Kg	☼	12/05/20 04:30	12/07/20 14:53	1
Butyl benzyl phthalate	<0.079		0.21	0.079	mg/Kg	☼	12/05/20 04:30	12/07/20 14:53	1
Carbazole	<0.10		0.21	0.10	mg/Kg	☼	12/05/20 04:30	12/07/20 14:53	1
4-Chloroaniline	<0.19		0.83	0.19	mg/Kg	☼	12/05/20 04:30	12/07/20 14:53	1
4-Chloro-3-methylphenol	<0.14		0.41	0.14	mg/Kg	☼	12/05/20 04:30	12/07/20 14:53	1
2-Chloronaphthalene	<0.046		0.21	0.046	mg/Kg	☼	12/05/20 04:30	12/07/20 14:53	1
2-Chlorophenol	<0.071		0.21	0.071	mg/Kg	☼	12/05/20 04:30	12/07/20 14:53	1
4-Chlorophenyl phenyl ether	<0.048		0.21	0.048	mg/Kg	☼	12/05/20 04:30	12/07/20 14:53	1
Chrysene	<0.011		0.041	0.011	mg/Kg	☼	12/05/20 04:30	12/07/20 14:53	1
Dibenz(a,h)anthracene	<0.0080		0.041	0.0080	mg/Kg	☼	12/05/20 04:30	12/07/20 14:53	1
Dibenzofuran	<0.048		0.21	0.048	mg/Kg	☼	12/05/20 04:30	12/07/20 14:53	1
1,2-Dichlorobenzene	<0.049		0.21	0.049	mg/Kg	☼	12/05/20 04:30	12/07/20 14:53	1
1,3-Dichlorobenzene	<0.047		0.21	0.047	mg/Kg	☼	12/05/20 04:30	12/07/20 14:53	1
1,4-Dichlorobenzene	<0.053		0.21	0.053	mg/Kg	☼	12/05/20 04:30	12/07/20 14:53	1
3,3'-Dichlorobenzidine	<0.058		0.21	0.058	mg/Kg	☼	12/05/20 04:30	12/07/20 14:53	1
2,4-Dichlorophenol	<0.098		0.41	0.098	mg/Kg	☼	12/05/20 04:30	12/07/20 14:53	1
Diethyl phthalate	<0.070		0.21	0.070	mg/Kg	☼	12/05/20 04:30	12/07/20 14:53	1
2,4-Dimethylphenol	<0.16		0.41	0.16	mg/Kg	☼	12/05/20 04:30	12/07/20 14:53	1
Dimethyl phthalate	<0.054		0.21	0.054	mg/Kg	☼	12/05/20 04:30	12/07/20 14:53	1
Di-n-butyl phthalate	<0.063		0.21	0.063	mg/Kg	☼	12/05/20 04:30	12/07/20 14:53	1
4,6-Dinitro-2-methylphenol	<0.33		0.83	0.33	mg/Kg	☼	12/05/20 04:30	12/07/20 14:53	1
2,4-Dinitrophenol	<0.73		0.83	0.73	mg/Kg	☼	12/05/20 04:30	12/07/20 14:53	1
2,4-Dinitrotoluene	<0.066		0.21	0.066	mg/Kg	☼	12/05/20 04:30	12/07/20 14:53	1
2,6-Dinitrotoluene	<0.081		0.21	0.081	mg/Kg	☼	12/05/20 04:30	12/07/20 14:53	1
Di-n-octyl phthalate	<0.067		0.21	0.067	mg/Kg	☼	12/05/20 04:30	12/07/20 14:53	1
Fluoranthene	0.0095	J	0.041	0.0077	mg/Kg	☼	12/05/20 04:30	12/07/20 14:53	1
Fluorene	<0.0058		0.041	0.0058	mg/Kg	☼	12/05/20 04:30	12/07/20 14:53	1
Hexachlorobenzene	<0.0096		0.083	0.0096	mg/Kg	☼	12/05/20 04:30	12/07/20 14:53	1
Hexachlorobutadiene	<0.065		0.21	0.065	mg/Kg	☼	12/05/20 04:30	12/07/20 14:53	1
Hexachlorocyclopentadiene	<0.24		0.83	0.24	mg/Kg	☼	12/05/20 04:30	12/07/20 14:53	1
Hexachloroethane	<0.063		0.21	0.063	mg/Kg	☼	12/05/20 04:30	12/07/20 14:53	1
Indeno[1,2,3-cd]pyrene	<0.011		0.041	0.011	mg/Kg	☼	12/05/20 04:30	12/07/20 14:53	1
Isophorone	<0.046		0.21	0.046	mg/Kg	☼	12/05/20 04:30	12/07/20 14:53	1
2-Methylnaphthalene	<0.0076		0.083	0.0076	mg/Kg	☼	12/05/20 04:30	12/07/20 14:53	1
2-Methylphenol	<0.066		0.21	0.066	mg/Kg	☼	12/05/20 04:30	12/07/20 14:53	1
3 & 4 Methylphenol	<0.069		0.21	0.069	mg/Kg	☼	12/05/20 04:30	12/07/20 14:53	1
Naphthalene	<0.0064		0.041	0.0064	mg/Kg	☼	12/05/20 04:30	12/07/20 14:53	1
2-Nitroaniline	<0.056		0.21	0.056	mg/Kg	☼	12/05/20 04:30	12/07/20 14:53	1
3-Nitroaniline	<0.13		0.41	0.13	mg/Kg	☼	12/05/20 04:30	12/07/20 14:53	1
4-Nitroaniline	<0.17		0.41	0.17	mg/Kg	☼	12/05/20 04:30	12/07/20 14:53	1
Nitrobenzene	<0.010		0.041	0.010	mg/Kg	☼	12/05/20 04:30	12/07/20 14:53	1
2-Nitrophenol	<0.098		0.41	0.098	mg/Kg	☼	12/05/20 04:30	12/07/20 14:53	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191857-1

Client Sample ID: 1896V2-67-B01 (0-6)

Lab Sample ID: 500-191857-1

Date Collected: 12/02/20 10:45

Matrix: Solid

Date Received: 12/02/20 17:50

Percent Solids: 77.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.39		0.83	0.39	mg/Kg	☼	12/05/20 04:30	12/07/20 14:53	1
N-Nitrosodi-n-propylamine	<0.051		0.083	0.051	mg/Kg	☼	12/05/20 04:30	12/07/20 14:53	1
N-Nitrosodiphenylamine	<0.049		0.21	0.049	mg/Kg	☼	12/05/20 04:30	12/07/20 14:53	1
2,2'-oxybis[1-chloropropane]	<0.048		0.21	0.048	mg/Kg	☼	12/05/20 04:30	12/07/20 14:53	1
Pentachlorophenol	<0.66		0.83	0.66	mg/Kg	☼	12/05/20 04:30	12/07/20 14:53	1
Phenanthrene	<0.0058		0.041	0.0058	mg/Kg	☼	12/05/20 04:30	12/07/20 14:53	1
Phenol	<0.092		0.21	0.092	mg/Kg	☼	12/05/20 04:30	12/07/20 14:53	1
Pyrene	0.0083	J	0.041	0.0082	mg/Kg	☼	12/05/20 04:30	12/07/20 14:53	1
1,2,4-Trichlorobenzene	<0.045		0.21	0.045	mg/Kg	☼	12/05/20 04:30	12/07/20 14:53	1
2,4,5-Trichlorophenol	<0.094		0.41	0.094	mg/Kg	☼	12/05/20 04:30	12/07/20 14:53	1
2,4,6-Trichlorophenol	<0.14		0.41	0.14	mg/Kg	☼	12/05/20 04:30	12/07/20 14:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	78		43 - 145				12/05/20 04:30	12/07/20 14:53	1
2-Fluorophenol	85		31 - 166				12/05/20 04:30	12/07/20 14:53	1
Nitrobenzene-d5	80		37 - 147				12/05/20 04:30	12/07/20 14:53	1
Phenol-d5	87		30 - 153				12/05/20 04:30	12/07/20 14:53	1
Terphenyl-d14	83		42 - 157				12/05/20 04:30	12/07/20 14:53	1
2,4,6-Tribromophenol	88		31 - 143				12/05/20 04:30	12/07/20 14:53	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.58	J	1.2	0.24	mg/Kg	☼	12/07/20 18:09	12/08/20 18:49	1
Arsenic	6.0		0.62	0.21	mg/Kg	☼	12/07/20 18:09	12/08/20 18:49	1
Barium	85		0.62	0.070	mg/Kg	☼	12/07/20 18:09	12/08/20 18:49	1
Beryllium	0.92		0.25	0.058	mg/Kg	☼	12/07/20 18:09	12/08/20 18:49	1
Cadmium	0.35	B	0.12	0.022	mg/Kg	☼	12/07/20 18:09	12/08/20 18:49	1
Chromium	21		0.62	0.30	mg/Kg	☼	12/07/20 18:09	12/08/20 18:49	1
Cobalt	14		0.31	0.081	mg/Kg	☼	12/07/20 18:09	12/08/20 18:49	1
Copper	22		0.62	0.17	mg/Kg	☼	12/07/20 18:09	12/08/20 18:49	1
Iron	21000		12	6.4	mg/Kg	☼	12/07/20 18:09	12/08/20 18:49	1
Lead	18		0.31	0.14	mg/Kg	☼	12/07/20 18:09	12/08/20 18:49	1
Magnesium	4900		6.2	3.1	mg/Kg	☼	12/07/20 18:09	12/08/20 18:49	1
Calcium	8200	B	12	2.1	mg/Kg	☼	12/07/20 18:09	12/08/20 18:49	1
Manganese	440		0.62	0.089	mg/Kg	☼	12/07/20 18:09	12/08/20 18:49	1
Nickel	31		0.62	0.18	mg/Kg	☼	12/07/20 18:09	12/08/20 18:49	1
Selenium	0.58	J	0.62	0.36	mg/Kg	☼	12/07/20 18:09	12/08/20 18:49	1
Silver	<0.079		0.31	0.079	mg/Kg	☼	12/07/20 18:09	12/08/20 18:49	1
Thallium	0.47	J	0.62	0.31	mg/Kg	☼	12/07/20 18:09	12/08/20 18:49	1
Vanadium	28		0.31	0.073	mg/Kg	☼	12/07/20 18:09	12/08/20 18:49	1
Zinc	77	B	1.2	0.54	mg/Kg	☼	12/07/20 18:09	12/08/20 18:49	1
Potassium	2200		31	11	mg/Kg	☼	12/07/20 18:09	12/08/20 18:49	1
Sodium	1300	B	62	9.1	mg/Kg	☼	12/07/20 18:09	12/08/20 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		12/08/20 17:06	12/09/20 22:01	1
Barium	0.24	J	0.50	0.050	mg/L		12/08/20 17:06	12/09/20 22:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/08/20 17:06	12/10/20 12:16	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		12/08/20 17:06	12/09/20 22:01	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191857-1

Client Sample ID: 1896V2-67-B01 (0-6)

Lab Sample ID: 500-191857-1

Date Collected: 12/02/20 10:45

Matrix: Solid

Date Received: 12/02/20 17:50

Percent Solids: 77.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	130		5.0	0.50	mg/L		12/08/20 17:06	12/09/20 22:01	1
Chromium	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 22:01	1
Cobalt	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 22:01	1
Copper	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 22:01	1
Iron	<0.20		0.40	0.20	mg/L		12/08/20 17:06	12/09/20 22:01	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/08/20 17:06	12/09/20 22:01	1
Magnesium	49		2.5	0.50	mg/L		12/08/20 17:06	12/10/20 12:16	1
Manganese	0.92		0.025	0.010	mg/L		12/08/20 17:06	12/10/20 12:16	1
Nickel	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 22:01	1
Potassium	0.61 J		2.5	0.50	mg/L		12/08/20 17:06	12/09/20 22:01	1
Selenium	<0.020		0.050	0.020	mg/L		12/08/20 17:06	12/09/20 22:01	1
Silver	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 22:01	1
Vanadium	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 22:01	1
Zinc	<0.020		0.50	0.020	mg/L		12/08/20 17:06	12/09/20 22:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.82		0.025	0.010	mg/L		12/08/20 17:10	12/11/20 10:48	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		12/08/20 17:06	12/09/20 14:41	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/08/20 17:06	12/09/20 14:41	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		12/09/20 08:35	12/10/20 07:28	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038		0.020	0.0067	mg/Kg	✱	12/08/20 14:00	12/09/20 07:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.40		0.28	0.14	mg/Kg	✱	12/07/20 14:07	12/07/20 17:38	1
pH	8.3		0.2	0.2	SU			12/08/20 11:01	1

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191857-1

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)
500-191857-1	1896V2-67-B01 (0-6)	106	99	94	90
LCS 500-575898/29	Lab Control Sample	96	91	79	92
LCSD 500-575898/5	Lab Control Sample Dup	98	90	80	93
MB 500-575898/7	Method Blank	103	92	84	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)
500-191857-1	1896V2-67-B01 (0-6)	78	85	80	87	83	88
LCS 500-575488/2-A	Lab Control Sample	81	93	87	91	87	87
MB 500-575488/1-A	Method Blank	81	92	82	96	83	74

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 - Lake County - WO 073

Job ID: 500-191857-1

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

Lab Sample ID: MB 500-575898/7
Matrix: Solid
Analysis Batch: 575898

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			12/09/20 01:14	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg			12/09/20 01:14	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg			12/09/20 01:14	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg			12/09/20 01:14	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg			12/09/20 01:14	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			12/09/20 01:14	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg			12/09/20 01:14	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg			12/09/20 01:14	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg			12/09/20 01:14	1
Chloroethane	<0.0015		0.0050	0.0015	mg/Kg			12/09/20 01:14	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg			12/09/20 01:14	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg			12/09/20 01:14	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg			12/09/20 01:14	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg			12/09/20 01:14	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg			12/09/20 01:14	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg			12/09/20 01:14	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg			12/09/20 01:14	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg			12/09/20 01:14	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			12/09/20 01:14	1
1,3-Dichloropropene, Total	<0.00070		0.0020	0.00070	mg/Kg			12/09/20 01:14	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg			12/09/20 01:14	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg			12/09/20 01:14	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg			12/09/20 01:14	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg			12/09/20 01:14	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg			12/09/20 01:14	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg			12/09/20 01:14	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg			12/09/20 01:14	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg			12/09/20 01:14	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg			12/09/20 01:14	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg			12/09/20 01:14	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg			12/09/20 01:14	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg			12/09/20 01:14	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg			12/09/20 01:14	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg			12/09/20 01:14	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg			12/09/20 01:14	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg			12/09/20 01:14	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg			12/09/20 01:14	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	103		75 - 131		12/09/20 01:14	1
Dibromofluoromethane	92		75 - 126		12/09/20 01:14	1
1,2-Dichloroethane-d4 (Surr)	84		70 - 134		12/09/20 01:14	1
Toluene-d8 (Surr)	93		75 - 124		12/09/20 01:14	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191857-1

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

Lab Sample ID: LCS 500-575898/29

Matrix: Solid

Analysis Batch: 575898

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	0.0307		mg/Kg		61	40 - 150
Benzene	0.0500	0.0511		mg/Kg		102	70 - 125
Bromodichloromethane	0.0500	0.0470		mg/Kg		94	67 - 129
Bromoform	0.0500	0.0432		mg/Kg		86	68 - 136
Bromomethane	0.0500	0.0368		mg/Kg		74	70 - 130
2-Butanone (MEK)	0.0500	0.0328		mg/Kg		66	47 - 138
Carbon disulfide	0.0500	0.0558		mg/Kg		112	70 - 129
Carbon tetrachloride	0.0500	0.0555		mg/Kg		111	75 - 125
Chlorobenzene	0.0500	0.0519		mg/Kg		104	50 - 150
Chloroethane	0.0500	0.0495		mg/Kg		99	75 - 125
Chloroform	0.0500	0.0508		mg/Kg		102	57 - 135
Chloromethane	0.0500	0.0643	*	mg/Kg		129	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0510		mg/Kg		102	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0434		mg/Kg		87	70 - 125
Dibromochloromethane	0.0500	0.0478		mg/Kg		96	69 - 125
1,1-Dichloroethane	0.0500	0.0597		mg/Kg		119	70 - 125
1,2-Dichloroethane	0.0500	0.0455		mg/Kg		91	70 - 130
1,1-Dichloroethene	0.0500	0.0553		mg/Kg		111	70 - 120
1,2-Dichloropropane	0.0500	0.0556		mg/Kg		111	70 - 125
Ethylbenzene	0.0500	0.0531		mg/Kg		106	61 - 136
2-Hexanone	0.0500	0.0348		mg/Kg		70	48 - 146
Methylene Chloride	0.0500	0.0491		mg/Kg		98	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0338		mg/Kg		68	50 - 148
Methyl tert-butyl ether	0.0500	0.0395		mg/Kg		79	50 - 140
Styrene	0.0500	0.0511		mg/Kg		102	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0438		mg/Kg		88	70 - 122
Tetrachloroethene	0.0500	0.0470		mg/Kg		94	70 - 124
Toluene	0.0500	0.0499		mg/Kg		100	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0544		mg/Kg		109	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0412		mg/Kg		82	70 - 125
1,1,1-Trichloroethane	0.0500	0.0522		mg/Kg		104	70 - 128
1,1,2-Trichloroethane	0.0500	0.0440		mg/Kg		88	70 - 125
Trichloroethene	0.0500	0.0530		mg/Kg		106	70 - 125
Vinyl acetate	0.0500	0.0351		mg/Kg		70	40 - 153
Vinyl chloride	0.0500	0.0569		mg/Kg		114	70 - 125
Xylenes, Total	0.100	0.0996		mg/Kg		100	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	96		75 - 131
Dibromofluoromethane	91		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 - Lake County - WO 073

Job ID: 500-191857-1

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

Lab Sample ID: LCSD 500-575898/5
Matrix: Solid
Analysis Batch: 575898

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	0.0312		mg/Kg		62	40 - 150	1	30
Benzene	0.0500	0.0556		mg/Kg		111	70 - 125	8	30
Bromodichloromethane	0.0500	0.0515		mg/Kg		103	67 - 129	9	30
Bromoform	0.0500	0.0487		mg/Kg		97	68 - 136	12	30
Bromomethane	0.0500	0.0478		mg/Kg		96	70 - 130	26	30
2-Butanone (MEK)	0.0500	0.0326		mg/Kg		65	47 - 138	0	30
Carbon disulfide	0.0500	0.0606		mg/Kg		121	70 - 129	8	30
Carbon tetrachloride	0.0500	0.0606		mg/Kg		121	75 - 125	9	30
Chlorobenzene	0.0500	0.0564		mg/Kg		113	50 - 150	8	30
Chloroethane	0.0500	0.0615		mg/Kg		123	75 - 125	22	30
Chloroform	0.0500	0.0534		mg/Kg		107	57 - 135	5	30
Chloromethane	0.0500	0.0705	*	mg/Kg		141	70 - 125	9	30
cis-1,2-Dichloroethene	0.0500	0.0549		mg/Kg		110	70 - 125	7	30
cis-1,3-Dichloropropene	0.0500	0.0474		mg/Kg		95	70 - 125	9	30
Dibromochloromethane	0.0500	0.0520		mg/Kg		104	69 - 125	8	30
1,1-Dichloroethane	0.0500	0.0638	*	mg/Kg		128	70 - 125	7	30
1,2-Dichloroethane	0.0500	0.0501		mg/Kg		100	70 - 130	10	30
1,1-Dichloroethene	0.0500	0.0588		mg/Kg		118	70 - 120	6	30
1,2-Dichloropropane	0.0500	0.0613		mg/Kg		123	70 - 125	10	30
Ethylbenzene	0.0500	0.0580		mg/Kg		116	61 - 136	9	30
2-Hexanone	0.0500	0.0396		mg/Kg		79	48 - 146	13	30
Methylene Chloride	0.0500	0.0512		mg/Kg		102	70 - 126	4	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0375		mg/Kg		75	50 - 148	10	30
Methyl tert-butyl ether	0.0500	0.0429		mg/Kg		86	50 - 140	8	30
Styrene	0.0500	0.0569		mg/Kg		114	70 - 125	11	30
1,1,2,2-Tetrachloroethane	0.0500	0.0514		mg/Kg		103	70 - 122	16	30
Tetrachloroethene	0.0500	0.0538		mg/Kg		108	70 - 124	14	30
Toluene	0.0500	0.0558		mg/Kg		112	70 - 125	11	30
trans-1,2-Dichloroethene	0.0500	0.0591		mg/Kg		118	70 - 125	8	30
trans-1,3-Dichloropropene	0.0500	0.0462		mg/Kg		92	70 - 125	11	30
1,1,1-Trichloroethane	0.0500	0.0578		mg/Kg		116	70 - 128	10	30
1,1,2-Trichloroethane	0.0500	0.0490		mg/Kg		98	70 - 125	11	30
Trichloroethene	0.0500	0.0582		mg/Kg		116	70 - 125	9	30
Vinyl acetate	0.0500	0.0408		mg/Kg		82	40 - 153	15	30
Vinyl chloride	0.0500	0.0620		mg/Kg		124	70 - 125	9	30
Xylenes, Total	0.100	0.109		mg/Kg		109	53 - 147	9	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	98		75 - 131
Dibromofluoromethane	90		75 - 126
1,2-Dichloroethane-d4 (Surr)	80		70 - 134
Toluene-d8 (Surr)	93		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191857-1

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

Lab Sample ID: MB 500-575488/1-A

Matrix: Solid

Analysis Batch: 575573

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 575488

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0060		0.033	0.0060	mg/Kg		12/05/20 04:30	12/07/20 10:23	1
Acenaphthylene	<0.0044		0.033	0.0044	mg/Kg		12/05/20 04:30	12/07/20 10:23	1
Anthracene	<0.0056		0.033	0.0056	mg/Kg		12/05/20 04:30	12/07/20 10:23	1
Benzo[a]anthracene	<0.0045		0.033	0.0045	mg/Kg		12/05/20 04:30	12/07/20 10:23	1
Benzo[a]pyrene	<0.0064		0.033	0.0064	mg/Kg		12/05/20 04:30	12/07/20 10:23	1
Benzo[b]fluoranthene	<0.0072		0.033	0.0072	mg/Kg		12/05/20 04:30	12/07/20 10:23	1
Benzo[g,h,i]perylene	<0.011		0.033	0.011	mg/Kg		12/05/20 04:30	12/07/20 10:23	1
Benzo[k]fluoranthene	<0.0098		0.033	0.0098	mg/Kg		12/05/20 04:30	12/07/20 10:23	1
Bis(2-chloroethoxy)methane	<0.034		0.17	0.034	mg/Kg		12/05/20 04:30	12/07/20 10:23	1
Bis(2-chloroethyl)ether	<0.050		0.17	0.050	mg/Kg		12/05/20 04:30	12/07/20 10:23	1
Bis(2-ethylhexyl) phthalate	<0.061		0.17	0.061	mg/Kg		12/05/20 04:30	12/07/20 10:23	1
4-Bromophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		12/05/20 04:30	12/07/20 10:23	1
Butyl benzyl phthalate	<0.063		0.17	0.063	mg/Kg		12/05/20 04:30	12/07/20 10:23	1
Carbazole	<0.083		0.17	0.083	mg/Kg		12/05/20 04:30	12/07/20 10:23	1
4-Chloroaniline	<0.16		0.67	0.16	mg/Kg		12/05/20 04:30	12/07/20 10:23	1
4-Chloro-3-methylphenol	<0.11		0.33	0.11	mg/Kg		12/05/20 04:30	12/07/20 10:23	1
2-Chloronaphthalene	<0.037		0.17	0.037	mg/Kg		12/05/20 04:30	12/07/20 10:23	1
2-Chlorophenol	<0.057		0.17	0.057	mg/Kg		12/05/20 04:30	12/07/20 10:23	1
4-Chlorophenyl phenyl ether	<0.039		0.17	0.039	mg/Kg		12/05/20 04:30	12/07/20 10:23	1
Chrysene	<0.0091		0.033	0.0091	mg/Kg		12/05/20 04:30	12/07/20 10:23	1
Dibenz(a,h)anthracene	<0.0064		0.033	0.0064	mg/Kg		12/05/20 04:30	12/07/20 10:23	1
Dibenzofuran	<0.039		0.17	0.039	mg/Kg		12/05/20 04:30	12/07/20 10:23	1
1,2-Dichlorobenzene	<0.040		0.17	0.040	mg/Kg		12/05/20 04:30	12/07/20 10:23	1
1,3-Dichlorobenzene	<0.037		0.17	0.037	mg/Kg		12/05/20 04:30	12/07/20 10:23	1
1,4-Dichlorobenzene	<0.043		0.17	0.043	mg/Kg		12/05/20 04:30	12/07/20 10:23	1
3,3'-Dichlorobenzidine	<0.047		0.17	0.047	mg/Kg		12/05/20 04:30	12/07/20 10:23	1
2,4-Dichlorophenol	<0.079		0.33	0.079	mg/Kg		12/05/20 04:30	12/07/20 10:23	1
Diethyl phthalate	<0.056		0.17	0.056	mg/Kg		12/05/20 04:30	12/07/20 10:23	1
2,4-Dimethylphenol	<0.13		0.33	0.13	mg/Kg		12/05/20 04:30	12/07/20 10:23	1
Dimethyl phthalate	<0.043		0.17	0.043	mg/Kg		12/05/20 04:30	12/07/20 10:23	1
Di-n-butyl phthalate	<0.051		0.17	0.051	mg/Kg		12/05/20 04:30	12/07/20 10:23	1
4,6-Dinitro-2-methylphenol	<0.27		0.67	0.27	mg/Kg		12/05/20 04:30	12/07/20 10:23	1
2,4-Dinitrophenol	<0.59		0.67	0.59	mg/Kg		12/05/20 04:30	12/07/20 10:23	1
2,4-Dinitrotoluene	<0.053		0.17	0.053	mg/Kg		12/05/20 04:30	12/07/20 10:23	1
2,6-Dinitrotoluene	<0.065		0.17	0.065	mg/Kg		12/05/20 04:30	12/07/20 10:23	1
Di-n-octyl phthalate	<0.054		0.17	0.054	mg/Kg		12/05/20 04:30	12/07/20 10:23	1
Fluoranthene	<0.0062		0.033	0.0062	mg/Kg		12/05/20 04:30	12/07/20 10:23	1
Fluorene	<0.0047		0.033	0.0047	mg/Kg		12/05/20 04:30	12/07/20 10:23	1
Hexachlorobenzene	<0.0077		0.067	0.0077	mg/Kg		12/05/20 04:30	12/07/20 10:23	1
Hexachlorobutadiene	<0.052		0.17	0.052	mg/Kg		12/05/20 04:30	12/07/20 10:23	1
Hexachlorocyclopentadiene	<0.19		0.67	0.19	mg/Kg		12/05/20 04:30	12/07/20 10:23	1
Hexachloroethane	<0.051		0.17	0.051	mg/Kg		12/05/20 04:30	12/07/20 10:23	1
Indeno[1,2,3-cd]pyrene	<0.0086		0.033	0.0086	mg/Kg		12/05/20 04:30	12/07/20 10:23	1
Isophorone	<0.037		0.17	0.037	mg/Kg		12/05/20 04:30	12/07/20 10:23	1
2-Methylnaphthalene	<0.0061		0.067	0.0061	mg/Kg		12/05/20 04:30	12/07/20 10:23	1
2-Methylphenol	<0.053		0.17	0.053	mg/Kg		12/05/20 04:30	12/07/20 10:23	1
3 & 4 Methylphenol	<0.055		0.17	0.055	mg/Kg		12/05/20 04:30	12/07/20 10:23	1
Naphthalene	<0.0051		0.033	0.0051	mg/Kg		12/05/20 04:30	12/07/20 10:23	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191857-1

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

Lab Sample ID: MB 500-575488/1-A
Matrix: Solid
Analysis Batch: 575573

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575488

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	<0.045		0.17	0.045	mg/Kg		12/05/20 04:30	12/07/20 10:23	1
3-Nitroaniline	<0.10		0.33	0.10	mg/Kg		12/05/20 04:30	12/07/20 10:23	1
4-Nitroaniline	<0.14		0.33	0.14	mg/Kg		12/05/20 04:30	12/07/20 10:23	1
Nitrobenzene	<0.0083		0.033	0.0083	mg/Kg		12/05/20 04:30	12/07/20 10:23	1
2-Nitrophenol	<0.079		0.33	0.079	mg/Kg		12/05/20 04:30	12/07/20 10:23	1
4-Nitrophenol	<0.32		0.67	0.32	mg/Kg		12/05/20 04:30	12/07/20 10:23	1
N-Nitrosodi-n-propylamine	<0.041		0.067	0.041	mg/Kg		12/05/20 04:30	12/07/20 10:23	1
N-Nitrosodiphenylamine	<0.039		0.17	0.039	mg/Kg		12/05/20 04:30	12/07/20 10:23	1
2,2'-oxybis[1-chloropropane]	<0.039		0.17	0.039	mg/Kg		12/05/20 04:30	12/07/20 10:23	1
Pentachlorophenol	<0.53		0.67	0.53	mg/Kg		12/05/20 04:30	12/07/20 10:23	1
Phenanthrene	<0.0046		0.033	0.0046	mg/Kg		12/05/20 04:30	12/07/20 10:23	1
Phenol	<0.074		0.17	0.074	mg/Kg		12/05/20 04:30	12/07/20 10:23	1
Pyrene	<0.0066		0.033	0.0066	mg/Kg		12/05/20 04:30	12/07/20 10:23	1
1,2,4-Trichlorobenzene	<0.036		0.17	0.036	mg/Kg		12/05/20 04:30	12/07/20 10:23	1
2,4,5-Trichlorophenol	<0.076		0.33	0.076	mg/Kg		12/05/20 04:30	12/07/20 10:23	1
2,4,6-Trichlorophenol	<0.11		0.33	0.11	mg/Kg		12/05/20 04:30	12/07/20 10:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	81		43 - 145	12/05/20 04:30	12/07/20 10:23	1
2-Fluorophenol	92		31 - 166	12/05/20 04:30	12/07/20 10:23	1
Nitrobenzene-d5	82		37 - 147	12/05/20 04:30	12/07/20 10:23	1
Phenol-d5	96		30 - 153	12/05/20 04:30	12/07/20 10:23	1
Terphenyl-d14	83		42 - 157	12/05/20 04:30	12/07/20 10:23	1
2,4,6-Tribromophenol	74		31 - 143	12/05/20 04:30	12/07/20 10:23	1

Lab Sample ID: LCS 500-575488/2-A
Matrix: Solid
Analysis Batch: 575573

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575488

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1.33	1.13		mg/Kg		85	65 - 124
Acenaphthylene	1.33	1.12		mg/Kg		84	68 - 120
Anthracene	1.33	1.15		mg/Kg		86	70 - 114
Benzo[a]anthracene	1.33	1.09		mg/Kg		82	67 - 122
Benzo[a]pyrene	1.33	1.15		mg/Kg		86	65 - 133
Benzo[b]fluoranthene	1.33	1.12		mg/Kg		84	69 - 129
Benzo[g,h,i]perylene	1.33	1.14		mg/Kg		85	72 - 131
Benzo[k]fluoranthene	1.33	1.16		mg/Kg		87	68 - 127
Bis(2-chloroethoxy)methane	1.33	1.19		mg/Kg		89	60 - 112
Bis(2-chloroethyl)ether	1.33	1.19		mg/Kg		90	55 - 111
Bis(2-ethylhexyl) phthalate	1.33	1.21		mg/Kg		90	72 - 131
4-Bromophenyl phenyl ether	1.33	1.18		mg/Kg		88	68 - 118
Butyl benzyl phthalate	1.33	1.20		mg/Kg		90	71 - 129
Carbazole	1.33	1.24		mg/Kg		93	65 - 142
4-Chloroaniline	1.33	1.02		mg/Kg		77	30 - 150
4-Chloro-3-methylphenol	1.33	1.14		mg/Kg		86	65 - 122
2-Chloronaphthalene	1.33	1.13		mg/Kg		85	69 - 114
2-Chlorophenol	1.33	1.08		mg/Kg		81	64 - 110

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191857-1

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

Lab Sample ID: LCS 500-575488/2-A

Matrix: Solid

Analysis Batch: 575573

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 575488

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorophenyl phenyl ether	1.33	1.15		mg/Kg		86	62 - 119
Chrysene	1.33	1.15		mg/Kg		86	63 - 120
Dibenz(a,h)anthracene	1.33	1.10		mg/Kg		83	64 - 131
Dibenzofuran	1.33	1.13		mg/Kg		85	66 - 115
1,2-Dichlorobenzene	1.33	1.06		mg/Kg		80	62 - 110
1,3-Dichlorobenzene	1.33	1.03		mg/Kg		77	65 - 124
1,4-Dichlorobenzene	1.33	1.04		mg/Kg		78	61 - 110
3,3'-Dichlorobenzidine	1.33	0.955		mg/Kg		72	35 - 128
2,4-Dichlorophenol	1.33	1.13		mg/Kg		84	58 - 120
Diethyl phthalate	1.33	1.12		mg/Kg		84	58 - 120
2,4-Dimethylphenol	1.33	1.12		mg/Kg		84	60 - 110
Dimethyl phthalate	1.33	1.13		mg/Kg		85	69 - 116
Di-n-butyl phthalate	1.33	1.18		mg/Kg		89	65 - 120
4,6-Dinitro-2-methylphenol	2.67	0.414	J	mg/Kg		16	10 - 110
2,4-Dinitrophenol	2.67	<0.59		mg/Kg		10	10 - 100
2,4-Dinitrotoluene	1.33	1.18		mg/Kg		89	69 - 124
2,6-Dinitrotoluene	1.33	1.14		mg/Kg		86	70 - 123
Di-n-octyl phthalate	1.33	1.22		mg/Kg		91	68 - 134
Fluoranthene	1.33	1.14		mg/Kg		86	62 - 120
Fluorene	1.33	1.15		mg/Kg		86	62 - 120
Hexachlorobenzene	1.33	1.12		mg/Kg		84	63 - 124
Hexachlorobutadiene	1.33	1.04		mg/Kg		78	56 - 120
Hexachlorocyclopentadiene	1.33	0.674		mg/Kg		51	10 - 133
Hexachloroethane	1.33	1.14		mg/Kg		86	60 - 114
Indeno[1,2,3-cd]pyrene	1.33	1.12		mg/Kg		84	68 - 130
Isophorone	1.33	1.15		mg/Kg		86	55 - 110
2-Methylnaphthalene	1.33	1.08		mg/Kg		81	69 - 112
2-Methylphenol	1.33	1.03		mg/Kg		77	60 - 120
3 & 4 Methylphenol	1.33	1.17		mg/Kg		88	57 - 120
Naphthalene	1.33	1.07		mg/Kg		80	63 - 110
2-Nitroaniline	1.33	1.25		mg/Kg		94	57 - 124
3-Nitroaniline	1.33	0.999		mg/Kg		75	40 - 122
4-Nitroaniline	1.33	1.09		mg/Kg		82	60 - 160
Nitrobenzene	1.33	1.11		mg/Kg		83	60 - 116
2-Nitrophenol	1.33	1.08		mg/Kg		81	60 - 120
4-Nitrophenol	2.67	2.21		mg/Kg		83	30 - 122
N-Nitrosodi-n-propylamine	1.33	1.17		mg/Kg		88	56 - 118
N-Nitrosodiphenylamine	1.33	1.15		mg/Kg		86	65 - 112
2,2'-oxybis[1-chloropropane]	1.33	1.31		mg/Kg		98	40 - 124
Pentachlorophenol	2.67	1.26		mg/Kg		47	13 - 112
Phenanthrene	1.33	1.11		mg/Kg		83	62 - 120
Phenol	1.33	1.17		mg/Kg		88	56 - 122
Pyrene	1.33	1.13		mg/Kg		84	61 - 128
1,2,4-Trichlorobenzene	1.33	1.06		mg/Kg		79	66 - 117
2,4,5-Trichlorophenol	1.33	1.02		mg/Kg		77	50 - 120
2,4,6-Trichlorophenol	1.33	1.08		mg/Kg		81	57 - 120

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191857-1

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

Lab Sample ID: LCS 500-575488/2-A
Matrix: Solid
Analysis Batch: 575573

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575488

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	81		43 - 145
2-Fluorophenol	93		31 - 166
Nitrobenzene-d5	87		37 - 147
Phenol-d5	91		30 - 153
Terphenyl-d14	87		42 - 157
2,4,6-Tribromophenol	87		31 - 143

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-575713/1-A
Matrix: Solid
Analysis Batch: 575996

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575713

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.39		2.0	0.39	mg/Kg		12/07/20 18:09	12/08/20 18:07	1
Arsenic	<0.34		1.0	0.34	mg/Kg		12/07/20 18:09	12/08/20 18:07	1
Barium	<0.11		1.0	0.11	mg/Kg		12/07/20 18:09	12/08/20 18:07	1
Beryllium	<0.093		0.40	0.093	mg/Kg		12/07/20 18:09	12/08/20 18:07	1
Cadmium	0.0480	J	0.20	0.036	mg/Kg		12/07/20 18:09	12/08/20 18:07	1
Chromium	<0.50		1.0	0.50	mg/Kg		12/07/20 18:09	12/08/20 18:07	1
Cobalt	<0.13		0.50	0.13	mg/Kg		12/07/20 18:09	12/08/20 18:07	1
Copper	<0.28		1.0	0.28	mg/Kg		12/07/20 18:09	12/08/20 18:07	1
Iron	<10		20	10	mg/Kg		12/07/20 18:09	12/08/20 18:07	1
Lead	<0.23		0.50	0.23	mg/Kg		12/07/20 18:09	12/08/20 18:07	1
Magnesium	<5.0		10	5.0	mg/Kg		12/07/20 18:09	12/08/20 18:07	1
Calcium	4.63	J	20	3.4	mg/Kg		12/07/20 18:09	12/08/20 18:07	1
Manganese	<0.15		1.0	0.15	mg/Kg		12/07/20 18:09	12/08/20 18:07	1
Nickel	<0.29		1.0	0.29	mg/Kg		12/07/20 18:09	12/08/20 18:07	1
Selenium	<0.59		1.0	0.59	mg/Kg		12/07/20 18:09	12/08/20 18:07	1
Silver	<0.13		0.50	0.13	mg/Kg		12/07/20 18:09	12/08/20 18:07	1
Thallium	<0.50		1.0	0.50	mg/Kg		12/07/20 18:09	12/08/20 18:07	1
Vanadium	<0.12		0.50	0.12	mg/Kg		12/07/20 18:09	12/08/20 18:07	1
Zinc	1.26	J	2.0	0.88	mg/Kg		12/07/20 18:09	12/08/20 18:07	1
Potassium	<18		50	18	mg/Kg		12/07/20 18:09	12/08/20 18:07	1
Sodium	51.5	J	100	15	mg/Kg		12/07/20 18:09	12/08/20 18:07	1

Lab Sample ID: LCS 500-575713/2-A
Matrix: Solid
Analysis Batch: 575996

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575713

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
Antimony	50.0	42.9		mg/Kg		86		80 - 120
Arsenic	10.0	9.23		mg/Kg		92		80 - 120
Barium	200	193		mg/Kg		97		80 - 120
Beryllium	5.00	4.36		mg/Kg		87		80 - 120
Cadmium	5.00	4.62		mg/Kg		92		80 - 120
Chromium	20.0	18.6		mg/Kg		93		80 - 120
Cobalt	50.0	47.6		mg/Kg		95		80 - 120
Copper	25.0	23.8		mg/Kg		95		80 - 120

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191857-1

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

Lab Sample ID: LCS 500-575713/2-A
Matrix: Solid
Analysis Batch: 575996

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575713

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	100	96.1		mg/Kg		96	80 - 120
Lead	10.0	9.11		mg/Kg		91	80 - 120
Magnesium	1000	890		mg/Kg		89	80 - 120
Calcium	1000	938		mg/Kg		94	80 - 120
Manganese	50.0	44.6		mg/Kg		89	80 - 120
Nickel	50.0	47.0		mg/Kg		94	80 - 120
Selenium	10.0	8.48		mg/Kg		85	80 - 120
Silver	5.00	4.48		mg/Kg		90	80 - 120
Thallium	10.0	9.41		mg/Kg		94	80 - 120
Vanadium	50.0	47.5		mg/Kg		95	80 - 120
Zinc	50.0	46.3		mg/Kg		93	80 - 120
Potassium	1000	942		mg/Kg		94	80 - 120
Sodium	1000	972		mg/Kg		97	80 - 120

Lab Sample ID: LCS 500-575877/2-A
Matrix: Solid
Analysis Batch: 576153

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575877

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	0.504		mg/L		101	80 - 120
Beryllium	0.0500	0.0504		mg/L		101	80 - 120
Cadmium	0.0500	0.0543		mg/L		109	80 - 120
Chromium	0.200	0.193		mg/L		97	80 - 120
Cobalt	0.500	0.511		mg/L		102	80 - 120
Copper	0.250	0.283		mg/L		113	80 - 120
Iron	1.00	0.974		mg/L		97	80 - 120
Lead	0.100	0.0969		mg/L		97	80 - 120
Magnesium	10.0	9.11		mg/L		91	80 - 120
Calcium	10.0	9.86		mg/L		99	80 - 120
Manganese	0.500	0.465		mg/L		93	80 - 120
Nickel	0.500	0.507		mg/L		101	80 - 120
Selenium	0.100	0.105		mg/L		105	80 - 120
Silver	0.0500	0.0537		mg/L		107	80 - 120
Vanadium	0.500	0.505		mg/L		101	80 - 120
Zinc	0.500	0.516		mg/L		103	80 - 120
Potassium	10.0	12.0		mg/L		120	80 - 120

Lab Sample ID: LCS 500-575879/2-A
Matrix: Solid
Analysis Batch: 576418

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575879

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	0.500	0.483		mg/L		97	80 - 120

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191857-1

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

Lab Sample ID: LB 500-575682/1-B
Matrix: Solid
Analysis Batch: 576153

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 575877

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.010		0.050	0.010	mg/L		12/08/20 17:06	12/09/20 20:51	1
Barium	<0.050		0.50	0.050	mg/L		12/08/20 17:06	12/09/20 20:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/08/20 17:06	12/09/20 20:51	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		12/08/20 17:06	12/09/20 20:51	1
Chromium	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 20:51	1
Cobalt	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 20:51	1
Copper	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 20:51	1
Iron	<0.20		0.40	0.20	mg/L		12/08/20 17:06	12/09/20 20:51	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/08/20 17:06	12/09/20 20:51	1
Magnesium	<0.50		2.5	0.50	mg/L		12/08/20 17:06	12/09/20 20:51	1
Calcium	<0.50		5.0	0.50	mg/L		12/08/20 17:06	12/09/20 20:51	1
Manganese	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 20:51	1
Nickel	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 20:51	1
Selenium	<0.020		0.050	0.020	mg/L		12/08/20 17:06	12/09/20 20:51	1
Silver	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 20:51	1
Vanadium	<0.010		0.025	0.010	mg/L		12/08/20 17:06	12/09/20 20:51	1
Zinc	<0.020		0.50	0.020	mg/L		12/08/20 17:06	12/09/20 20:51	1
Potassium	<0.50		2.5	0.50	mg/L		12/08/20 17:06	12/09/20 20:51	1

Lab Sample ID: LB 500-575687/1-B
Matrix: Solid
Analysis Batch: 576418

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 575879

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Manganese	<0.010		0.025	0.010	mg/L		12/08/20 17:10	12/11/20 10:39	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-575877/2-A
Matrix: Solid
Analysis Batch: 576084

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575877

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	0.100	0.0984		mg/L		98	80 - 120

Lab Sample ID: LB 500-575682/1-B
Matrix: Solid
Analysis Batch: 576084

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 575877

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0060		0.0060	0.0060	mg/L		12/08/20 17:06	12/09/20 14:02	1
Thallium	<0.0020		0.0020	0.0020	mg/L		12/08/20 17:06	12/09/20 14:02	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191857-1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-576011/12-A
Matrix: Solid
Analysis Batch: 576215

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 576011

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/09/20 08:35	12/10/20 06:56	1

Lab Sample ID: LCS 500-576011/14-A
Matrix: Solid
Analysis Batch: 576215

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 576011

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00208		mg/L		104	80 - 120

Lab Sample ID: LB 500-575682/1-C
Matrix: Solid
Analysis Batch: 576215

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 576011

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/09/20 08:35	12/10/20 06:58	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-575820/12-A
Matrix: Solid
Analysis Batch: 576025

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575820

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		12/08/20 14:00	12/09/20 09:09	1

Lab Sample ID: LCS 500-575820/13-A
Matrix: Solid
Analysis Batch: 576025

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575820

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.169		mg/Kg		101	80 - 120

Lab Sample ID: 500-191857-1 MS
Matrix: Solid
Analysis Batch: 576025

Client Sample ID: 1896V2-67-B01 (0-6)
Prep Type: Total/NA
Prep Batch: 575820

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.038		0.100	0.151		mg/Kg	☼	113	75 - 125

Lab Sample ID: 500-191857-1 MSD
Matrix: Solid
Analysis Batch: 576025

Client Sample ID: 1896V2-67-B01 (0-6)
Prep Type: Total/NA
Prep Batch: 575820

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.038		0.101	0.141		mg/Kg	☼	103	75 - 125	7	20

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191857-1

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: 500-191857-1 DU
Matrix: Solid
Analysis Batch: 576025

Client Sample ID: 1896V2-67-B01 (0-6)
Prep Type: Total/NA
Prep Batch: 575820

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	0.038		0.0412		mg/Kg	☼	9	20

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

Lab Sample ID: MB 500-575666/1-A
Matrix: Solid
Analysis Batch: 575854

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575666

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.12		0.24	0.12	mg/Kg		12/07/20 14:07	12/07/20 17:04	1

Lab Sample ID: HLCS 500-575666/2-A
Matrix: Solid
Analysis Batch: 575854

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575666
%Rec. Limits

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	12.0	12.1		mg/Kg		101	90 - 110

Lab Sample ID: LCS 500-575666/3-A
Matrix: Solid
Analysis Batch: 575854

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575666
%Rec. Limits

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	2.40	2.46		mg/Kg		103	85 - 115

Lab Sample ID: LLCS 500-575666/4-A
Matrix: Solid
Analysis Batch: 575854

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575666
%Rec. Limits

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	1.20	1.41		mg/Kg		117	75 - 125

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191857-1

GC/MS VOA

Prep Batch: 575743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191857-1	1896V2-67-B01 (0-6)	Total/NA	Solid	5035	

Analysis Batch: 575898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191857-1	1896V2-67-B01 (0-6)	Total/NA	Solid	8260B	575743
MB 500-575898/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-575898/29	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-575898/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 575488

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191857-1	1896V2-67-B01 (0-6)	Total/NA	Solid	3541	
MB 500-575488/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-575488/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 575573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191857-1	1896V2-67-B01 (0-6)	Total/NA	Solid	8270D	575488
MB 500-575488/1-A	Method Blank	Total/NA	Solid	8270D	575488
LCS 500-575488/2-A	Lab Control Sample	Total/NA	Solid	8270D	575488

Metals

Leach Batch: 575682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191857-1	1896V2-67-B01 (0-6)	TCLP	Solid	1311	
LB 500-575682/1-B	Method Blank	TCLP	Solid	1311	
LB 500-575682/1-C	Method Blank	TCLP	Solid	1311	

Leach Batch: 575687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191857-1	1896V2-67-B01 (0-6)	SPLP East	Solid	1312	
LB 500-575687/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 575713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191857-1	1896V2-67-B01 (0-6)	Total/NA	Solid	3050B	
MB 500-575713/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-575713/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 575820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191857-1	1896V2-67-B01 (0-6)	Total/NA	Solid	7471B	
MB 500-575820/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-575820/13-A	Lab Control Sample	Total/NA	Solid	7471B	
500-191857-1 MS	1896V2-67-B01 (0-6)	Total/NA	Solid	7471B	
500-191857-1 MSD	1896V2-67-B01 (0-6)	Total/NA	Solid	7471B	
500-191857-1 DU	1896V2-67-B01 (0-6)	Total/NA	Solid	7471B	

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191857-1

Metals

Prep Batch: 575877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191857-1	1896V2-67-B01 (0-6)	TCLP	Solid	3010A	575682
LB 500-575682/1-B	Method Blank	TCLP	Solid	3010A	575682
LCS 500-575877/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 575879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191857-1	1896V2-67-B01 (0-6)	SPLP East	Solid	3010A	575687
LB 500-575687/1-B	Method Blank	SPLP East	Solid	3010A	575687
LCS 500-575879/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 575996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191857-1	1896V2-67-B01 (0-6)	Total/NA	Solid	6010B	575713
MB 500-575713/1-A	Method Blank	Total/NA	Solid	6010B	575713
LCS 500-575713/2-A	Lab Control Sample	Total/NA	Solid	6010B	575713

Prep Batch: 576011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191857-1	1896V2-67-B01 (0-6)	TCLP	Solid	7470A	575682
LB 500-575682/1-C	Method Blank	TCLP	Solid	7470A	575682
MB 500-576011/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-576011/14-A	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 576025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191857-1	1896V2-67-B01 (0-6)	Total/NA	Solid	7471B	575820
MB 500-575820/12-A	Method Blank	Total/NA	Solid	7471B	575820
LCS 500-575820/13-A	Lab Control Sample	Total/NA	Solid	7471B	575820
500-191857-1 MS	1896V2-67-B01 (0-6)	Total/NA	Solid	7471B	575820
500-191857-1 MSD	1896V2-67-B01 (0-6)	Total/NA	Solid	7471B	575820
500-191857-1 DU	1896V2-67-B01 (0-6)	Total/NA	Solid	7471B	575820

Analysis Batch: 576084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191857-1	1896V2-67-B01 (0-6)	TCLP	Solid	6020A	575877
LB 500-575682/1-B	Method Blank	TCLP	Solid	6020A	575877
LCS 500-575877/2-A	Lab Control Sample	Total/NA	Solid	6020A	575877

Analysis Batch: 576153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191857-1	1896V2-67-B01 (0-6)	TCLP	Solid	6010B	575877
LB 500-575682/1-B	Method Blank	TCLP	Solid	6010B	575877
LCS 500-575877/2-A	Lab Control Sample	Total/NA	Solid	6010B	575877

Analysis Batch: 576215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191857-1	1896V2-67-B01 (0-6)	TCLP	Solid	7470A	576011
LB 500-575682/1-C	Method Blank	TCLP	Solid	7470A	576011
MB 500-576011/12-A	Method Blank	Total/NA	Solid	7470A	576011
LCS 500-576011/14-A	Lab Control Sample	Total/NA	Solid	7470A	576011

Eurofins TestAmerica, Chicago

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191857-1

Metals

Analysis Batch: 576368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191857-1	1896V2-67-B01 (0-6)	TCLP	Solid	6010B	575877

Analysis Batch: 576418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191857-1	1896V2-67-B01 (0-6)	SPLP East	Solid	6010B	575879
LB 500-575687/1-B	Method Blank	SPLP East	Solid	6010B	575879
LCS 500-575879/2-A	Lab Control Sample	Total/NA	Solid	6010B	575879

General Chemistry

Analysis Batch: 575543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191857-1	1896V2-67-B01 (0-6)	Total/NA	Solid	Moisture	

Prep Batch: 575666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191857-1	1896V2-67-B01 (0-6)	Total/NA	Solid	9010C	
MB 500-575666/1-A	Method Blank	Total/NA	Solid	9010C	
HLCS 500-575666/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 500-575666/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 500-575666/4-A	Lab Control Sample	Total/NA	Solid	9010C	

Analysis Batch: 575854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191857-1	1896V2-67-B01 (0-6)	Total/NA	Solid	9012B	575666
MB 500-575666/1-A	Method Blank	Total/NA	Solid	9012B	575666
HLCS 500-575666/2-A	Lab Control Sample	Total/NA	Solid	9012B	575666
LCS 500-575666/3-A	Lab Control Sample	Total/NA	Solid	9012B	575666
LLCS 500-575666/4-A	Lab Control Sample	Total/NA	Solid	9012B	575666

Analysis Batch: 576068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191857-1	1896V2-67-B01 (0-6)	Total/NA	Solid	9045D	
LCS 500-576068/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-576068/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191857-1

Client Sample ID: 1896V2-67-B01 (0-6)

Lab Sample ID: 500-191857-1

Date Collected: 12/02/20 10:45

Matrix: Solid

Date Received: 12/02/20 17:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			575687	12/07/20 14:40	CMS	TAL CHI
SPLP East	Prep	3010A			575879	12/08/20 17:10	BDE	TAL CHI
SPLP East	Analysis	6010B		1	576418	12/11/20 10:48	EEN	TAL CHI
TCLP	Leach	1311			575682	12/07/20 14:40	CMS	TAL CHI
TCLP	Prep	3010A			575877	12/08/20 17:06	BDE	TAL CHI
TCLP	Analysis	6010B		1	576153	12/09/20 22:01	EEN	TAL CHI
TCLP	Leach	1311			575682	12/07/20 14:40	CMS	TAL CHI
TCLP	Prep	3010A			575877	12/08/20 17:06	BDE	TAL CHI
TCLP	Analysis	6010B		1	576368	12/10/20 12:16	EEN	TAL CHI
TCLP	Leach	1311			575682	12/07/20 14:40	CMS	TAL CHI
TCLP	Prep	3010A			575877	12/08/20 17:06	BDE	TAL CHI
TCLP	Analysis	6020A		1	576084	12/09/20 14:41	FXG	TAL CHI
TCLP	Leach	1311			575682	12/07/20 14:40	CMS	TAL CHI
TCLP	Prep	7470A			576011	12/09/20 08:35	MJG	TAL CHI
TCLP	Analysis	7470A		1	576215	12/10/20 07:28	MJG	TAL CHI
Total/NA	Analysis	9045D		1	576068	12/08/20 11:01	LWN	TAL CHI
Total/NA	Analysis	Moisture		1	575543	12/07/20 07:07	LWN	TAL CHI

Client Sample ID: 1896V2-67-B01 (0-6)

Lab Sample ID: 500-191857-1

Date Collected: 12/02/20 10:45

Matrix: Solid

Date Received: 12/02/20 17:50

Percent Solids: 77.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			575743	12/03/20 17:19	WRE	TAL CHI
Total/NA	Analysis	8260B		1	575898	12/09/20 02:05	PMF	TAL CHI
Total/NA	Prep	3541			575488	12/05/20 04:30	JP1	TAL CHI
Total/NA	Analysis	8270D		1	575573	12/07/20 14:53	GWB	TAL CHI
Total/NA	Prep	3050B			575713	12/07/20 18:09	BDE	TAL CHI
Total/NA	Analysis	6010B		1	575996	12/08/20 18:49	JJB	TAL CHI
Total/NA	Prep	7471B			575820	12/08/20 14:00	MJG	TAL CHI
Total/NA	Analysis	7471B		1	576025	12/09/20 07:34	MJG	TAL CHI
Total/NA	Prep	9010C			575666	12/07/20 14:07	PSP	TAL CHI
Total/NA	Analysis	9012B		1	575854	12/07/20 17:38	PSP	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 - Lake County - WO 073

Job ID: 500-191857-1

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
- 15

Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191857-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9012B	Cyanide, Total and/or Amenable	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
1311	TCLP Extraction	SW846	TAL CHI
1312	SPLP Extraction	SW846	TAL CHI
3010A	Preparation, Total Metals	SW846	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL CHI
7471B	Preparation, Mercury	SW846	TAL CHI
9010C	Cyanide, Distillation	SW846	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Lake County - WO 073

Job ID: 500-191857-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-191857-1	1896V2-67-B01 (0-6)	Solid	12/02/20 10:45	12/02/20 17:50	

1

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Address: _____

Regulatory Program: DW NPDES RCRA Other:

TAL-8210

Client Contact Company Name: <u>Terracon</u> Address: <u>192 Florence Blvd</u> City/State/Zip: <u>Glendale Heights IL</u> Phone: <u>630-445-0160</u> Fax: _____ Project Name: _____ Site: _____ P O #: _____		Project Manager: <u>Schiebgen @Terracon</u> Tel/Email: <u>prof.wcss@terracon.com</u>		Site Contact: _____ Lab Contact: _____		Date: <u>12/02/20</u> Carrier: _____		COC No: _____ 1 of 1 COCs Sampler: <u>D. G. P.</u> For Lab Use Only: Walk-in Client: _____ Lab Sampling: _____ Job / SDG No.: <u>500-191857</u>											
		Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input checked="" type="checkbox"/> WORKING DAYS TAT if different from Below _____ <input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Filtered Sample (Y/N) _____ Perform MS / MSD (Y/N) _____ <u>VOCS</u> <u>Subs</u> <u>1.5 to 23 Inorganics / PAH</u> <u>TCU P23 Inorganics</u> <u>SPU P23 Inorganics</u>		 500-191857 COC				Sample Specific Notes: _____									
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix			# of Cont.											
<u>189602-67-B01 (0-6)</u>		<u>12/02/20</u>	<u>1045</u>	<u>G</u>	<u>Soil</u>	<u>6</u>	<u>N</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>								
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____										Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample. <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown									
Special Instructions/QC Requirements & Comments: <u>* NO Aluminum</u> <u>* Hold SPU 23 Inorganics per Terracon instruction</u>										Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months									
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.: _____		Cooler Temp. (°C): Obs'd: _____		Corr'd: _____		Therm ID No.: _____											
Relinquished by: <u>[Signature]</u>		Company: <u>Terracon</u>		Date/Time: <u>12/02/20 1600</u>		Received by: <u>[Signature]</u>		Company: <u>EY</u>		Date/Time: <u>12/2/20 1600</u>									
Relinquished by: <u>[Signature]</u>		Company: <u>EY</u>		Date/Time: <u>12/2/20 1750</u>		Received by: _____		Company: _____		Date/Time: _____									
Relinquished by: _____		Company: _____		Date/Time: _____		Received in Laboratory by: <u>[Signature]</u>		Company: <u>ETA-CHE</u>		Date/Time: <u>12/3/20 0715</u>									

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-191857-1

Login Number: 191857

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	0.8,1.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

