



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

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

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

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

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

You must have Adobe Acrobat Reader 8.0 or above installed to use the features on this form.

### I. Source Location Information

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

Project Name: FAI 80 at Briggs Street Office Phone Number, if available: \_\_\_\_\_

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

South Briggs St. and I-80 Westbound Exit Ramp. (Pesa Site No. 2233V-1) See Attached Soil Management Table for Stationing

City: Unincorporated State: IL Zip Code: 60433

County: Will Township: Joliet

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

Latitude: 41.51365 Longitude: -88.04277

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS  Map Interpolation  Photo Interpolation  Survey  Other

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

### II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: \_\_\_\_\_

PO Box: \_\_\_\_\_

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4101

Zip Code: 60196 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: sam.mead@illinois.gov

Email, if available: sam.mead@illinois.gov

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

Project Name: FAI 80 at Briggs Street

Latitude: 41.51365 Longitude: -88.04277

Uncontaminated Site Certification

**III. Basis for Certification and Attachments**

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

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

Soil from borings B04, B06, B08, and B10 through B23 were sampled within ISGS Site No 2233V-1. See Exhibits 2 and 3 and Table 1 of the Preliminary Site Investigation Report prepared by Terracon dated November 19, 2015.

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

TestAmerica Lab Report No 500-101071-1 for the above referenced borings only. Also see Preliminary Site Investigation Report prepared by Terracon dated November 19, 2015. 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: 135 Ambassador Drive

City: Naperville State: IL Zip Code: 60540

Phone: 630-717-4263

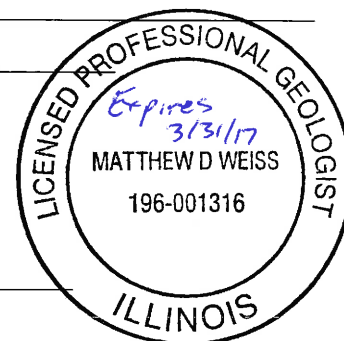
Matt Weiss

Printed Name:

[Signature]

Licensed Professional Engineer or  
Licensed Professional Geologist Signature:

11/19/15  
Date:



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

Boring Location	Station	Eligible for CCDD (Location)	Disposal Specification
2233V-1-B01	STA 21+90.48 to STA 22+50 0 to 20 ft LT	Not eligible for Disposal at CCDD/USFO Facility	b(1)
2233V-1-B02	STA 22+50 to STA 23+50 0 to 20 ft LT	Not eligible for Disposal at CCDD/USFO Facility	(a)(1)
2233V-1-B03	STA 23+50 to STA 24+50 0 to 20 ft LT	Not eligible for Disposal at CCDD/USFO Facility	(a)(1)
2233V-1-B04	STA 24+50 to STA 25+50 0 to 20 ft LT	Eligible for Disposal in MSA County or City of Chicago CCDD/USFO Facility	(a)(2)
2233V-1-B05	STA 25+50 to STA 26+50 0 to 30 ft LT	Not eligible for Disposal at CCDD/USFO Facility	(a)(1)
2233V-1-B06	STA 26+50 to STA 27+74.48 0 to 50 ft LT	Eligible for Disposal in MSA County or City of Chicago CCDD/USFO Facility	(a)(2)
2233V-1-B07	STA 0+00 to STA 0+96.77 0 to 40 ft LT	Not eligible for Disposal at CCDD/USFO Facility	(a)(1)
2233V-1-B08	STA 21+90.48 to STA 22+50 0 to 20 ft RT	Eligible for Disposal in MSA County or City of Chicago CCDD/USFO Facility	(a)(2)
2233V-1-B09	STA 22+50 to STA 23+50 0 to 20 ft RT	Not eligible for Disposal at CCDD/USFO Facility	(a)(1)
2233V-1-B10	STA 23+50 to STA 24+50 0 to 30 ft RT	Eligible for Disposal in MSA County or City of Chicago CCDD/USFO Facility	(a)(2)
2233V-1-B11	STA 24+50 to STA 25+50 0 to 30 ft RT	Eligible for Disposal in MSA County CCDD/USFO Facility, excluding City of Chicago CCDD/USFO Facility	(a)(3)
2233V-1-B12	STA 25+50 to STA 26+50 0 to 30 ft RT	Eligible for Disposal at CCDD/USFO Facility	Not Restricted
2233V-1-B13	STA 26+50 to STA 27+40 0 to 50 ft RT	Eligible for Disposal at CCDD/USFO Facility	Not Restricted
2233V-1-B14	STA 14+50 to STA 15+20 0 to 30 ft LT	Eligible for Disposal in MSA County or City of Chicago CCDD/USFO Facility	(a)(2)
2233V-1-B15	STA 13+50 to STA 14+50 0 to 30 ft LT	Eligible for Disposal in MSA County or City of Chicago CCDD/USFO Facility	(a)(2)
2233V-1-B16	STA 12+50 to STA 13+50 0 to 30 ft LT	Eligible for Disposal in MSA County or City of Chicago CCDD/USFO Facility	(a)(2)
2233V-1-B17	STA 11+45.05 to STA 12+50 0 to 30 ft LT	Eligible for Disposal in MSA County or City of Chicago CCDD/USFO Facility	(a)(2)
2233V-1-B18	STA 11+45.05 to STA 12+50 0 to 30 ft RT	Eligible for Disposal in MSA County or City of Chicago CCDD/USFO Facility	(a)(2)

Boring Location	Station	Eligible for CCDD (Location)	Disposal Specification
2233V-1-B19	STA 12+50 to STA 13+50 0 to 30 ft RT	Eligible for Disposal at CCDD/USFO Facility	Not Restricted
2233V-1-B20	STA 13+50 to STA 14+50 0 to 30 ft RT	Eligible for Disposal in MSA County or City of Chicago CCDD/USFO Facility	(a)(2)
2233V-1-B21	STA 14+50 to STA 15+20 0 to 30 ft RT	Eligible for Disposal in MSA County or City of Chicago CCDD/USFO Facility	(a)(2)
2233V-1-B22	STA 27+40 to STA 28+00 0 to 70 RT	Eligible for Disposal in MSA County or City of Chicago CCDD/USFO Facility	(a)(2)
2233V-1-B23	STA 28+00 to STA 29+00 0 to 40 ft RT, 0 to 30 ft LT	Eligible for Disposal at CCDD/USFO Facility	Not Restricted

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2233V-1-B01 (0-2)	2233V-1-B02 (0-2)	2233V-1-B03 (0-2)
				CCDD	Sample Depth (feet)	(0-2)	(0-2)	(0-2)
		mg/kg			Date Collected	09/10/2015	09/10/2015	09/10/2015
		Chicago	MSAs	pH 6.25-9.0				
<b>Semivolatile Organic Analytical Parameters</b>								
Acenaphthylene	mg/kg	0.03	0.07	85		<0.038	<0.039	<0.041
Anthracene	mg/kg	0.25	0.4	12000		<0.038	<0.039	<0.041
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		<0.038	<0.039	<0.041
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		<0.038	<0.039	<0.041
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.024	0.025	<0.041
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		<0.038	<0.039	<0.041
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		<0.038	<0.039	<0.041
Chrysene	mg/kg	1.2	2.7	88		0.02	<0.039	<0.041
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		<0.038	<0.039	<0.041
Fluoranthene	mg/kg	2.7	4.1	3100		0.041	0.023	0.021
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		<0.038	<0.039	<0.041
Naphthalene	mg/kg	0.04	0.2	1.8		<0.038	<0.039	<0.041
Phenanthrene	mg/kg	1.3	2.5	210		0.019	<0.039	<0.041
Pyrene	mg/kg	1.9	3.0	2300		0.034	<0.039	<0.041
bis(2-Ethylhexyl)phthalate	mg/kg	---	---	46		<0.19	<0.20	<0.21
2-Methylnaphthalene	mg/kg	---	0.14	---		<0.038	<0.039	<0.041
<b>Inorganic Analytical Parameters</b>								
Arsenic	mg/kg	---	13	11.3		7.4	10.0	12.0
Barium	mg/kg	---	110	1500		87	82	86
Cadmium	mg/kg	---	0.6	5.2		0.3	0.22	0.16
Chromium, total	mg/kg	---	16.2	21		14	12	15
Lead	mg/kg	---	36	107		30	17	26
Mercury	mg/kg	---	0.06	0.1		0.046	0.043	0.043
Antimony	mg/kg	---	4.0	5		0.43	0.49	<1.2
Beryllium	mg/kg	---	0.59	22		0.71	0.65	0.91
Calcium	mg/kg	---	9,300	---		12000	31000	1500
Cobalt	mg/kg	---	8.9	20		11	9.3	13
Copper	mg/kg	---	19.6	2900		24	23	28
Iron	mg/kg	---	15,900	15000		22000	21000	28000
Magnesium	mg/kg	---	4,820	325000		7200	18000	2500
Manganese	mg/kg	---	636	630		580	560	650
Nickel	mg/kg	---	18	100		28	23	38
Potassium	mg/kg	---	1,268	---		1100	1200	1000
Sodium	mg/kg	---	130	---		3500	2600	3600
Thallium	mg/kg	---	0.32	2.6		<0.58	<0.60	<0.60
Vanadium	mg/kg	---	25.2	550		22	20	22
Zinc	mg/kg	---	95	5100		62	56	70
pH			6.25	9		9.18	8.71	8.33
<b>Inorganic Analytical Parameters (SPLP)</b>								
Antimony,SPLP	mg/L	---	---	---		<0.0060	<0.0060	<0.0060
Arsenic,SPLP	mg/L	---	---	---		0.095	0.093	0.087
Barium,SPLP	mg/L	---	---	---		0.86	0.72	0.83
Beryllium,SPLP	mg/L	---	---	---		0.0082	0.0068	0.0073
Cadmium,SPLP	mg/L	---	---	---		<0.0050	<0.0050	<0.0050
Calcium,SPLP	mg/L	---	---	---		33	27	18
Chromium,SPLP	mg/L	---	---	---		0.21	0.17	0.16
Cobalt,SPLP	mg/L	---	---	---		0.051	0.04	0.044
Copper,SPLP	mg/L	---	---	---		0.23	0.18	0.21
Iron,SPLP	mg/L	---	---	---		250	190	210
Lead,SPLP	mg/L	---	---	---		0.18	0.13	0.11
Magnesium,SPLP	mg/L	---	---	---		31	26	24
Manganese,SPLP	mg/L	---	---	---		2.2	1.7	1.8
Mercury,SPLP	mg/L	---	---	---		0.00047	0.0002	0.00032
Nickel,SPLP	mg/L	---	---	---		0.18	0.16	0.19
Potassium,SPLP	mg/L	---	---	---		23	21	19
Thallium,SPLP	mg/L	---	---	---		0.0028	0.0041	0.0045
Vanadium,SPLP	mg/L	---	---	---		0.35	0.28	0.26
<b>Inorganic Analytical Parameters (TCLP)</b>								
Arsenic,TCLP	mg/L	---	---	---		<0.050	<0.050	<0.050
Barium,TCLP	mg/L	---	---	---		0.41	0.34	0.47
Cadmium,TCLP	mg/L	---	---	---		<0.0050	0.002	<0.0050
Chromium,TCLP	mg/L	---	---	---		<0.025	0.31	0.012
Lead,TCLP	mg/L	---	---	---		<0.0075	<0.0075	<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020	<0.00020	<0.00020
Antimony,TCLP	mg/L	---	---	---		<0.0060	<0.0060	<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040	<0.0040	<0.0040
Calcium,TCLP	mg/L	---	---	---		220	180	140
Cobalt,TCLP	mg/L	---	---	---		<0.025	1.9	0.43
Copper,TCLP	mg/L	---	---	---		<0.025	0.03	0.01
Iron,TCLP	mg/L	---	---	---		<0.20	32	1.8
Magnesium,TCLP	mg/L	---	---	---		92	79	65
Manganese,TCLP	mg/L	---	---	---		0.67	0.56	0.69
Nickel,TCLP	mg/L	---	---	---		<0.025	0.11	0.015
Potassium,TCLP	mg/L	---	---	---		0.85	0.74	0.62
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.025	0.071	<0.025

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2233V-1-B04 (0-2)	2233V-1-B05 (0-2)	2233V-1-B06 (0-2)
				CCDD	Sample Depth (feet)	(0-2)	(0-2)	(0-2)
		mg/kg			Date Collected	09/10/2015	09/10/2015	09/10/2015
		Chicago	MSAs	pH 6.25-9.0				
<b>Semivolatile Organic Analytical Parameters</b>								
Acenaphthylene	mg/kg	0.03	0.07	85		<0.040	<0.039	<0.038
Anthracene	mg/kg	0.25	0.4	12000		<0.040	<0.039	<0.038
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.011	<0.039	0.0082
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.018	<0.039	0.021
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		<0.040	<0.039	0.026
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.045	<0.039	0.024
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		<0.040	<0.039	<0.038
Chrysene	mg/kg	1.2	2.7	88		0.017	<0.039	0.016
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		<0.040	<0.039	<0.038
Fluoranthene	mg/kg	2.7	4.1	3100		0.02	<0.039	0.013
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.014	<0.039	0.011
Naphthalene	mg/kg	0.04	0.2	1.8		<0.040	<0.039	<0.038
Phenanthrene	mg/kg	1.3	2.5	210		0.012	<0.039	<0.038
Pyrene	mg/kg	1.9	3.0	2300		0.021	<0.039	0.015
bis(2-Ethylhexyl)phthalate	mg/kg	---	---	46		<0.20	<0.20	<0.19
2-Methylnaphthalene	mg/kg	---	0.14	---		<0.040	<0.039	<0.038
<b>Inorganic Analytical Parameters</b>								
Arsenic	mg/kg	---	13	11.3		12.0	9.0	7.6
Barium	mg/kg	---	110	1500		85	94	94
Cadmium	mg/kg	---	0.6	5.2		0.27	0.27	0.23
Chromium, total	mg/kg	---	16.2	21		15	13	14
Lead	mg/kg	---	36	107		22	26	22
Mercury	mg/kg	---	0.06	0.1		0.047	0.033	0.039
Antimony	mg/kg	---	4.0	5		0.26	0.32	0.38
Beryllium	mg/kg	---	0.59	22		0.74	0.7	0.69
Calcium	mg/kg	---	9,300	---		7200	14000	12000
Cobalt	mg/kg	---	8.9	20		12	10	11
Copper	mg/kg	---	19.6	2900		26	19	21
Iron	mg/kg	---	15,900	15000		25000	20000	19000
Magnesium	mg/kg	---	4,820	325000		5600	8400	7800
Manganese	mg/kg	---	636	630		480	570	500
Nickel	mg/kg	---	18	100		28	21	20
Potassium	mg/kg	---	1,268	---		1300	1200	1200
Sodium	mg/kg	---	130	---		4100	2700	880
Thallium	mg/kg	---	0.32	2.6		<0.61	<0.57	<0.59
Vanadium	mg/kg	---	25.2	550		26	22	25
Zinc	mg/kg	---	95	5100		76	64	59
pH			6.25	9		8.07	8.61	7.51
<b>Inorganic Analytical Parameters (SPLP)</b>								
Antimony,SPLP	mg/L	---	---	---		<0.0060	<0.0060	<0.0060
Arsenic,SPLP	mg/L	---	---	---		0.078	0.075	0.041
Barium,SPLP	mg/L	---	---	---		0.72	0.86	0.6
Beryllium,SPLP	mg/L	---	---	---		0.0068	0.0076	0.0052
Cadmium,SPLP	mg/L	---	---	---		<0.0050	<0.0050	<0.0050
Calcium,SPLP	mg/L	---	---	---		30	30	20
Chromium,SPLP	mg/L	---	---	---		0.16	0.18	0.12
Cobalt,SPLP	mg/L	---	---	---		0.035	0.056	0.025
Copper,SPLP	mg/L	---	---	---		0.18	0.24	0.12
Iron,SPLP	mg/L	---	---	---		190	210	120
Lead,SPLP	mg/L	---	---	---		0.15	0.17	0.075
Magnesium,SPLP	mg/L	---	---	---		27	28	21
Manganese,SPLP	mg/L	---	---	---		1.3	1.9	0.97
Mercury,SPLP	mg/L	---	---	---		<0.00020	0.00059	<0.00020
Nickel,SPLP	mg/L	---	---	---		0.13	0.16	0.1
Potassium,SPLP	mg/L	---	---	---		23	19	16
Thallium,SPLP	mg/L	---	---	---		0.0033	0.003	0.0023
Vanadium,SPLP	mg/L	---	---	---		0.28	0.31	0.2
<b>Inorganic Analytical Parameters (TCLP)</b>								
Arsenic,TCLP	mg/L	---	---	---		<0.050	<0.050	<0.050
Barium,TCLP	mg/L	---	---	---		0.46	0.44	0.58
Cadmium,TCLP	mg/L	---	---	---		<0.0050	<0.0050	<0.0050
Chromium,TCLP	mg/L	---	---	---		<0.025	0.23	0.028
Lead,TCLP	mg/L	---	---	---		<0.0075	<0.0075	<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020	<0.00020	<0.00020
Antimony,TCLP	mg/L	---	---	---		<0.0060	<0.0060	<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040	<0.0040	<0.0040
Calcium,TCLP	mg/L	---	---	---		260	200	210
Cobalt,TCLP	mg/L	---	---	---		0.58	1.3	<0.025
Copper,TCLP	mg/L	---	---	---		<0.025	0.024	0.01
Iron,TCLP	mg/L	---	---	---		1.6	16	<0.20
Magnesium,TCLP	mg/L	---	---	---		130	100	100
Manganese,TCLP	mg/L	---	---	---		0.76	4.8	0.46
Nickel,TCLP	mg/L	---	---	---		0.019	0.069	<0.025
Potassium,TCLP	mg/L	---	---	---		1.9	1.8	2.4
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.025	0.076	<0.025

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2233V-1-B07 (0-2)	2233V-1-B08 (0-2)	2233V-1-B09 (0-2)
				CCDD	Sample Depth (feet)	(0-2)	(0-2)	(0-2)
		mg/kg			Date Collected	09/10/2015	09/10/2015	09/10/2015
		Chicago	MSAs	pH 6.25-9.0				
<b>Semivolatile Organic Analytical Parameters</b>								
Acenaphthylene	mg/kg	0.03	0.07	85		<0.039	<0.039	<0.040
Anthracene	mg/kg	0.25	0.4	12000		<0.039	<0.039	<0.040
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		<0.039	<0.039	<0.040
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		<0.039	<0.039	<0.040
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		<0.039	<0.039	<0.040
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		<0.039	<0.039	<0.040
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		<0.039	<0.039	<0.040
Chrysene	mg/kg	1.2	2.7	88		<0.039	<0.039	<0.040
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		<0.039	<0.039	<0.040
Fluoranthene	mg/kg	2.7	4.1	3100		<0.039	<0.039	<0.040
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		<0.039	<0.039	<0.040
Naphthalene	mg/kg	0.04	0.2	1.8		<0.039	<0.039	<0.040
Phenanthrene	mg/kg	1.3	2.5	210		<0.039	<0.039	<0.040
Pyrene	mg/kg	1.9	3.0	2300		<0.039	<0.039	<0.040
bis(2-Ethylhexyl)phthalate	mg/kg	---	---	46		<0.20	<0.20	<0.20
2-Methylnaphthalene	mg/kg	---	0.14	---		<0.039	<0.039	<0.040
<b>Inorganic Analytical Parameters</b>								
Arsenic	mg/kg	---	13	11.3		8.5	13.0	9.4
Barium	mg/kg	---	110	1500		130	80	98
Cadmium	mg/kg	---	0.6	5.2		0.28	0.18	0.27
Chromium, total	mg/kg	---	16.2	21		15	17	13
Lead	mg/kg	---	36	107		19	24	26
Mercury	mg/kg	---	0.06	0.1		0.04	0.048	0.043
Antimony	mg/kg	---	4.0	5		<1.2	<1.2	0.32
Beryllium	mg/kg	---	0.59	22		0.74	0.85	0.72
Calcium	mg/kg	---	9,300	---		4600	2400	17000
Cobalt	mg/kg	---	8.9	20		13	20	12
Copper	mg/kg	---	19.6	2900		18	36	21
Iron	mg/kg	---	15,900	15000		21000	27000	21000
Magnesium	mg/kg	---	4,820	325000		3600	4100	9800
Manganese	mg/kg	---	636	630		930	400	500
Nickel	mg/kg	---	18	100		22	49	22
Potassium	mg/kg	---	1,268	---		1200	1700	1100
Sodium	mg/kg	---	130	---		2500	2600	2800
Thallium	mg/kg	---	0.32	2.6		<0.58	0.62	<0.58
Vanadium	mg/kg	---	25.2	550		27	22	22
Zinc	mg/kg	---	95	5100		55	74	65
pH			6.25	9		7.61	8.43	8.81
<b>Inorganic Analytical Parameters (SPLP)</b>								
Antimony,SPLP	mg/L	---	---	---		<0.0060	<0.0060	<0.0060
Arsenic,SPLP	mg/L	---	---	---		0.077	0.14	0.095
Barium,SPLP	mg/L	---	---	---		1.1	0.75	0.92
Beryllium,SPLP	mg/L	---	---	---		0.009	0.0083	0.0086
Cadmium,SPLP	mg/L	---	---	---		<0.0050	<0.0050	<0.0050
Calcium,SPLP	mg/L	---	---	---		33	26	37
Chromium,SPLP	mg/L	---	---	---		0.21	0.18	0.22
Cobalt,SPLP	mg/L	---	---	---		0.049	0.069	0.06
Copper,SPLP	mg/L	---	---	---		0.18	0.3	0.25
Iron,SPLP	mg/L	---	---	---		230	240	250
Lead,SPLP	mg/L	---	---	---		0.14	0.12	0.16
Magnesium,SPLP	mg/L	---	---	---		31	32	34
Manganese,SPLP	mg/L	---	---	---		1.6	1.5	2.2
Mercury,SPLP	mg/L	---	---	---		0.00028	<0.00020	0.0005
Nickel,SPLP	mg/L	---	---	---		0.17	0.26	0.19
Potassium,SPLP	mg/L	---	---	---		22	28	24
Thallium,SPLP	mg/L	---	---	---		0.0031	0.0091	0.0041
Vanadium,SPLP	mg/L	---	---	---		0.35	0.27	0.35
<b>Inorganic Analytical Parameters (TCLP)</b>								
Arsenic,TCLP	mg/L	---	---	---		<0.050	<0.050	<0.050
Barium,TCLP	mg/L	---	---	---		0.37	0.55	0.52
Cadmium,TCLP	mg/L	---	---	---		<0.0050	<0.0050	<0.0050
Chromium,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Lead,TCLP	mg/L	---	---	---		<0.0075	<0.0075	<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020	<0.00020	<0.00020
Antimony,TCLP	mg/L	---	---	---		<0.0060	<0.0060	<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040	<0.0040	<0.0040
Calcium,TCLP	mg/L	---	---	---		71	220	170
Cobalt,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Copper,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Iron,TCLP	mg/L	---	---	---		0.2	<0.20	<0.20
Magnesium,TCLP	mg/L	---	---	---		22	110	81
Manganese,TCLP	mg/L	---	---	---		0.3	0.64	3.5
Nickel,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Potassium,TCLP	mg/L	---	---	---		2.2	3.4	3
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2233V-1-B09 DUP (0-2)	2233V-1-B10 (0-2)	2233V-1-B11 (0-2)
				CCDD	Sample Depth (feet)	(0-2)	(0-2)	(0-2)
		mg/kg	Date Collected	09/10/2015	09/10/2015	09/10/2015		
		Chicago	MSAs	pH 6.25-9.0				
<b>Semivolatile Organic Analytical Parameters</b>								
Acenaphthylene	mg/kg	0.03	0.07	85		<0.039	<0.039	0.013
Anthracene	mg/kg	0.25	0.4	12000		<0.039	<0.039	0.016
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		<0.039	<0.039	0.12
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		<0.039	<0.039	0.16
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		<0.039	<0.039	0.33
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		<0.039	<0.039	0.097
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		<0.039	<0.039	0.087
Chrysene	mg/kg	1.2	2.7	88		<0.039	<0.039	0.17
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		<0.039	<0.039	0.024
Fluoranthene	mg/kg	2.7	4.1	3100		<0.039	<0.039	0.24
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		<0.039	<0.039	0.093
Naphthalene	mg/kg	0.04	0.2	1.8		<0.039	<0.039	0.0099
Phenanthrene	mg/kg	1.3	2.5	210		<0.039	<0.039	0.074
Pyrene	mg/kg	1.9	3.0	2300		<0.039	<0.039	0.25
bis(2-Ethylhexyl)phthalate	mg/kg	---	---	46		<0.19	<0.20	0.08
2-Methylnaphthalene	mg/kg	---	0.14	---		<0.039	<0.039	0.01
<b>Inorganic Analytical Parameters</b>								
Arsenic	mg/kg	---	13	11.3		11.0	5.7	8.1
Barium	mg/kg	---	110	1500		100	81	68
Cadmium	mg/kg	---	0.6	5.2		0.26	0.26	0.31
Chromium, total	mg/kg	---	16.2	21		14	14	16
Lead	mg/kg	---	36	107		21	24	63
Mercury	mg/kg	---	0.06	0.1		0.039	0.046	0.041
Antimony	mg/kg	---	4.0	5		0.29	<1.2	0.31
Beryllium	mg/kg	---	0.59	22		0.71	0.7	0.71
Calcium	mg/kg	---	9,300	---		7000	8000	47000
Cobalt	mg/kg	---	8.9	20		12	9.6	16
Copper	mg/kg	---	19.6	2900		24	19	25
Iron	mg/kg	---	15,900	15000		24000	16000	22000
Magnesium	mg/kg	---	4,820	325000		5100	5300	21000
Manganese	mg/kg	---	636	630		790	390	440
Nickel	mg/kg	---	18	100		27	21	33
Potassium	mg/kg	---	1,268	---		1200	1000	1900
Sodium	mg/kg	---	130	---		2400	2000	2200
Thallium	mg/kg	---	0.32	2.6		0.41	<0.60	<0.58
Vanadium	mg/kg	---	25.2	550		23	22	19
Zinc	mg/kg	---	95	5100		67	65	71
pH			6.25	9		8.76	8.72	8.92
<b>Inorganic Analytical Parameters (SPLP)</b>								
Antimony,SPLP	mg/L	---	---	---		<0.0060	<0.0060	<0.0060
Arsenic,SPLP	mg/L	---	---	---		0.078	0.05	0.072
Barium,SPLP	mg/L	---	---	---		0.91	0.94	0.58
Beryllium,SPLP	mg/L	---	---	---		0.0084	0.0081	0.0074
Cadmium,SPLP	mg/L	---	---	---		<0.0050	<0.0050	<0.0050
Calcium,SPLP	mg/L	---	---	---		30	38	49
Chromium,SPLP	mg/L	---	---	---		0.21	0.22	0.19
Cobalt,SPLP	mg/L	---	---	---		0.053	0.05	0.052
Copper,SPLP	mg/L	---	---	---		0.23	0.19	0.2
Iron,SPLP	mg/L	---	---	---		230	180	190
Lead,SPLP	mg/L	---	---	---		0.15	0.13	0.32
Magnesium,SPLP	mg/L	---	---	---		31	33	39
Manganese,SPLP	mg/L	---	---	---		2	1.5	1.1
Mercury,SPLP	mg/L	---	---	---		0.00039	0.00039	<0.00020
Nickel,SPLP	mg/L	---	---	---		0.17	0.17	0.18
Potassium,SPLP	mg/L	---	---	---		20	21	30
Thallium,SPLP	mg/L	---	---	---		0.0035	0.0032	0.0022
Vanadium,SPLP	mg/L	---	---	---		0.32	0.31	0.26
<b>Inorganic Analytical Parameters (TCLP)</b>								
Arsenic,TCLP	mg/L	---	---	---		<0.050	<0.050	<0.050
Barium,TCLP	mg/L	---	---	---		0.46	0.42	0.34
Cadmium,TCLP	mg/L	---	---	---		<0.0050	<0.0050	<0.0050
Chromium,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Lead,TCLP	mg/L	---	---	---		<0.0075	<0.0075	<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020	<0.00020	<0.00020
Antimony,TCLP	mg/L	---	---	---		<0.0060	<0.0060	<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040	<0.0040	<0.0040
Calcium,TCLP	mg/L	---	---	---		180	150	310
Cobalt,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Copper,TCLP	mg/L	---	---	---		<0.025	0.013	0.013
Iron,TCLP	mg/L	---	---	---		<0.20	<0.20	<0.20
Magnesium,TCLP	mg/L	---	---	---		84	63	50
Manganese,TCLP	mg/L	---	---	---		1.3	0.27	0.095
Nickel,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Potassium,TCLP	mg/L	---	---	---		2	2.3	3.2
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025



Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2233V-1-B12 (0-2)	2233V-1-B13 (0-2)	2233V-1-B14 (0-2)
				CCDD	Sample Depth (feet)	(0-2)	(0-2)	(0-2)
		mg/kg			Date Collected	09/10/2015	09/10/2015	09/10/2015
		Chicago	MSAs	pH 6.25-9.0				
<b>Semivolatile Organic Analytical Parameters</b>								
Acenaphthylene	mg/kg	0.03	0.07	85		<0.040	<0.037	<0.037
Anthracene	mg/kg	0.25	0.4	12000		<0.040	<0.037	<0.037
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		<0.040	0.045	<0.037
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.037	0.064	<0.037
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.044	0.1	<0.037
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		<0.040	0.044	<0.037
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		<0.040	0.036	<0.037
Chrysene	mg/kg	1.2	2.7	88		0.023	0.06	<0.037
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		<0.040	<0.037	<0.037
Fluoranthene	mg/kg	2.7	4.1	3100		0.023	0.073	<0.037
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		<0.040	0.048	<0.037
Naphthalene	mg/kg	0.04	0.2	1.8		<0.040	<0.037	<0.037
Phenanthrene	mg/kg	1.3	2.5	210		<0.040	0.03	<0.037
Pyrene	mg/kg	1.9	3.0	2300		0.048	0.13	<0.037
bis(2-Ethylhexyl)phthalate	mg/kg	---	---	46		<0.20	<0.19	<0.19
2-Methylnaphthalene	mg/kg	---	0.14	---		<0.040	<0.037	<0.037
<b>Inorganic Analytical Parameters</b>								
Arsenic	mg/kg	---	13	11.3		8.5	7.8	11.0
Barium	mg/kg	---	110	1500		93	61	51
Cadmium	mg/kg	---	0.6	5.2		0.36	0.27	0.23
Chromium, total	mg/kg	---	16.2	21		14	15	14
Lead	mg/kg	---	36	107		49	20	18
Mercury	mg/kg	---	0.06	0.1		0.041	0.026	0.03
Antimony	mg/kg	---	4.0	5		0.35	0.35	0.53
Beryllium	mg/kg	---	0.59	22		0.72	0.67	0.7
Calcium	mg/kg	---	9,300	---		8700	50000	43000
Cobalt	mg/kg	---	8.9	20		9.4	18	12
Copper	mg/kg	---	19.6	2900		21	21	28
Iron	mg/kg	---	15,900	15000		19000	20000	24000
Magnesium	mg/kg	---	4,820	325000		5400	22000	22000
Manganese	mg/kg	---	636	630		430	560	440
Nickel	mg/kg	---	18	100		21	36	34
Potassium	mg/kg	---	1,268	---		1400	2100	2000
Sodium	mg/kg	---	130	---		2500	1800	3700
Thallium	mg/kg	---	0.32	2.6		<0.60	<0.53	<0.58
Vanadium	mg/kg	---	25.2	550		23	18	18
Zinc	mg/kg	---	95	5100		74	50	53
pH			6.25	9		8.77	8.99	8.79
<b>Inorganic Analytical Parameters (SPLP)</b>								
Antimony,SPLP	mg/L	---	---	---		<0.0060	<0.0060	<0.0060
Arsenic,SPLP	mg/L	---	---	---		0.058	0.048	0.053
Barium,SPLP	mg/L	---	---	---		1	0.43	0.4
Beryllium,SPLP	mg/L	---	---	---		0.0098	0.005	0.0042
Cadmium,SPLP	mg/L	---	---	---		<0.0050	<0.0050	<0.0050
Calcium,SPLP	mg/L	---	---	---		36	32	30
Chromium,SPLP	mg/L	---	---	---		0.26	0.12	0.099
Cobalt,SPLP	mg/L	---	---	---		0.056	0.035	0.033
Copper,SPLP	mg/L	---	---	---		0.21	0.14	0.16
Iron,SPLP	mg/L	---	---	---		220	130	120
Lead,SPLP	mg/L	---	---	---		0.23	0.21	0.049
Magnesium,SPLP	mg/L	---	---	---		39	26	27
Manganese,SPLP	mg/L	---	---	---		1.4	0.99	0.56
Mercury,SPLP	mg/L	---	---	---		0.00039	<0.00020	<0.00020
Nickel,SPLP	mg/L	---	---	---		0.19	0.12	0.13
Potassium,SPLP	mg/L	---	---	---		23	20	24
Thallium,SPLP	mg/L	---	---	---		0.0031	<0.0020	0.0055
Vanadium,SPLP	mg/L	---	---	---		0.37	0.18	0.12
<b>Inorganic Analytical Parameters (TCLP)</b>								
Arsenic,TCLP	mg/L	---	---	---		<0.050	<0.050	<0.050
Barium,TCLP	mg/L	---	---	---		0.37	0.41	0.44
Cadmium,TCLP	mg/L	---	---	---		<0.0050	<0.0050	<0.0050
Chromium,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Lead,TCLP	mg/L	---	---	---		<0.0075	<0.0075	<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020	<0.00020	<0.00020
Antimony,TCLP	mg/L	---	---	---		<0.0060	<0.0060	<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040	<0.0040	<0.0040
Calcium,TCLP	mg/L	---	---	---		150	300	370
Cobalt,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Copper,TCLP	mg/L	---	---	---		0.043	<0.025	<0.025
Iron,TCLP	mg/L	---	---	---		<0.20	<0.20	<0.20
Magnesium,TCLP	mg/L	---	---	---		70	51	29
Manganese,TCLP	mg/L	---	---	---		0.11	<0.025	0.22
Nickel,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Potassium,TCLP	mg/L	---	---	---		2.7	4.7	2.9
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2233V-1-B15 (0-2)	2233V-1-B16 (0-2)	2233V-1-B17 (0-2)
				CCDD	Sample Depth (feet)	(0-2)	(0-2)	(0-2)
		mg/kg			Date Collected	09/10/2015	09/10/2015	09/10/2015
		Chicago	MSAs	pH 6.25-9.0				
<b>Semivolatile Organic Analytical Parameters</b>								
Acenaphthylene	mg/kg	0.03	0.07	85		<0.040	<0.038	<0.037
Anthracene	mg/kg	0.25	0.4	12000		<0.040	<0.038	<0.037
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		<0.040	<0.038	<0.037
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		<0.040	<0.038	<0.037
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		<0.040	<0.038	<0.037
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		<0.040	<0.038	<0.037
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		<0.040	<0.038	<0.037
Chrysene	mg/kg	1.2	2.7	88		<0.040	<0.038	<0.037
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		<0.040	<0.038	<0.037
Fluoranthene	mg/kg	2.7	4.1	3100		<0.040	<0.038	<0.037
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		<0.040	<0.038	<0.037
Naphthalene	mg/kg	0.04	0.2	1.8		<0.040	<0.038	<0.037
Phenanthrene	mg/kg	1.3	2.5	210		<0.040	<0.038	<0.037
Pyrene	mg/kg	1.9	3.0	2300		<0.040	<0.038	<0.037
bis(2-Ethylhexyl)phthalate	mg/kg	---	---	46		<0.20	<0.19	<0.19
2-Methylnaphthalene	mg/kg	---	0.14	---		<0.040	<0.038	<0.037
<b>Inorganic Analytical Parameters</b>								
Arsenic	mg/kg	---	13	11.3		3.9	9.7	11.0
Barium	mg/kg	---	110	1500		81	40	59
Cadmium	mg/kg	---	0.6	5.2		0.11	0.24	0.34
Chromium, total	mg/kg	---	16.2	21		19	13	14
Lead	mg/kg	---	36	107		16	14	16
Mercury	mg/kg	---	0.06	0.1		0.057	0.034	0.027
Antimony	mg/kg	---	4.0	5		<1.2	0.39	0.44
Beryllium	mg/kg	---	0.59	22		0.76	0.63	0.65
Calcium	mg/kg	---	9,300	---		1800	75000	46000
Cobalt	mg/kg	---	8.9	20		11	12	12
Copper	mg/kg	---	19.6	2900		18	23	25
Iron	mg/kg	---	15,900	15000		20000	20000	24000
Magnesium	mg/kg	---	4,820	325000		3500	27000	22000
Manganese	mg/kg	---	636	630		250	500	350
Nickel	mg/kg	---	18	100		24	28	33
Potassium	mg/kg	---	1,268	---		1100	1900	1800
Sodium	mg/kg	---	130	---		5100	2600	2200
Thallium	mg/kg	---	0.32	2.6		<0.62	<0.55	<0.56
Vanadium	mg/kg	---	25.2	550		31	17	18
Zinc	mg/kg	---	95	5100		60	57	64
pH			6.25	9		7.58	8.55	8.27
<b>Inorganic Analytical Parameters (SPLP)</b>								
Antimony,SPLP	mg/L	---	---	---		<0.0060	<0.0060	<0.0060
Arsenic,SPLP	mg/L	---	---	---		0.045	0.068	0.14
Barium,SPLP	mg/L	---	---	---		0.92	0.56	0.75
Beryllium,SPLP	mg/L	---	---	---		0.011	0.0065	0.0093
Cadmium,SPLP	mg/L	---	---	---		<0.0050	<0.0050	<0.0050
Calcium,SPLP	mg/L	---	---	---		26	26	49
Chromium,SPLP	mg/L	---	---	---		0.28	0.15	0.21
Cobalt,SPLP	mg/L	---	---	---		0.1	0.062	0.077
Copper,SPLP	mg/L	---	---	---		0.2	0.19	0.34
Iron,SPLP	mg/L	---	---	---		250	170	280
Lead,SPLP	mg/L	---	---	---		0.14	0.098	0.12
Magnesium,SPLP	mg/L	---	---	---		40	31	51
Manganese,SPLP	mg/L	---	---	---		3.3	2.2	1.5
Mercury,SPLP	mg/L	---	---	---		0.0005	0.00025	0.00032
Nickel,SPLP	mg/L	---	---	---		0.22	0.18	0.29
Potassium,SPLP	mg/L	---	---	---		22	25	42
Thallium,SPLP	mg/L	---	---	---		0.0026	0.0036	0.0074
Vanadium,SPLP	mg/L	---	---	---		0.45	0.23	0.27
<b>Inorganic Analytical Parameters (TCLP)</b>								
Arsenic,TCLP	mg/L	---	---	---		<0.050	<0.050	<0.050
Barium,TCLP	mg/L	---	---	---		0.18	0.46	0.46
Cadmium,TCLP	mg/L	---	---	---		<0.0050	<0.0050	0.0041
Chromium,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Lead,TCLP	mg/L	---	---	---		<0.0075	<0.0075	<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020	<0.00020	<0.00020
Antimony,TCLP	mg/L	---	---	---		<0.0060	<0.0060	<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040	<0.0040	<0.0040
Calcium,TCLP	mg/L	---	---	---		29	390	1200
Cobalt,TCLP	mg/L	---	---	---		0.011	<0.025	0.031
Copper,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Iron,TCLP	mg/L	---	---	---		0.31	<0.20	<0.20
Magnesium,TCLP	mg/L	---	---	---		9.7	19	270
Manganese,TCLP	mg/L	---	---	---		3	2.6	5
Nickel,TCLP	mg/L	---	---	---		<0.025	<0.025	0.044
Potassium,TCLP	mg/L	---	---	---		0.93	2.6	1.9
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2233V-1-B18 (0-2)	2233V-1-B19 (0-2)	2233V-1-B20 (0-2)
				CCDD	Sample Depth (feet)	(0-2)	(0-2)	(0-2)
		mg/kg		Date Collected	09/10/2015	09/10/2015	09/10/2015	
		Chicago	MSAs	pH 6.25-9.0				
<b>Semivolatile Organic Analytical Parameters</b>								
Acenaphthylene	mg/kg	0.03	0.07	85		<0.037	<0.038	<0.039
Anthracene	mg/kg	0.25	0.4	12000		<0.037	<0.038	<0.039
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		<0.037	<0.038	<0.039
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		<0.037	<0.038	<0.039
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		<0.037	<0.038	<0.039
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		<0.037	<0.038	<0.039
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		<0.037	<0.038	<0.039
Chrysene	mg/kg	1.2	2.7	88		<0.037	<0.038	<0.039
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		<0.037	<0.038	<0.039
Fluoranthene	mg/kg	2.7	4.1	3100		<0.037	<0.038	<0.039
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		<0.037	<0.038	<0.039
Naphthalene	mg/kg	0.04	0.2	1.8		<0.037	<0.038	<0.039
Phenanthrene	mg/kg	1.3	2.5	210		<0.037	<0.038	<0.039
Pyrene	mg/kg	1.9	3.0	2300		<0.037	<0.038	0.013
bis(2-Ethylhexyl)phthalate	mg/kg	---	---	46		<0.19	<0.19	<0.20
2-Methylnaphthalene	mg/kg	---	0.14	---		<0.037	<0.038	<0.039
<b>Inorganic Analytical Parameters</b>								
Arsenic	mg/kg	---	13	11.3		10.0	11.0	7.7
Barium	mg/kg	---	110	1500		37	85	110
Cadmium	mg/kg	---	0.6	5.2		0.27	0.2	0.25
Chromium, total	mg/kg	---	16.2	21		15	15	14
Lead	mg/kg	---	36	107		17	24	20
Mercury	mg/kg	---	0.06	0.1		0.028	0.041	0.044
Antimony	mg/kg	---	4.0	5		0.37	0.25	<1.2
Beryllium	mg/kg	---	0.59	22		0.67	0.69	0.57
Calcium	mg/kg	---	9,300	---		37000	17000	6500
Cobalt	mg/kg	---	8.9	20		15	12	9.6
Copper	mg/kg	---	19.6	2900		29	29	17
Iron	mg/kg	---	15,900	15000		26000	26000	17000
Magnesium	mg/kg	---	4,820	325000		19000	11000	4400
Manganese	mg/kg	---	636	630		460	380	510
Nickel	mg/kg	---	18	100		34	38	19
Potassium	mg/kg	---	1,268	---		1700	1500	1400
Sodium	mg/kg	---	130	---		1900	1300	1500
Thallium	mg/kg	---	0.32	2.6		<0.55	<0.55	<0.59
Vanadium	mg/kg	---	25.2	550		19	19	23
Zinc	mg/kg	---	95	5100		62	61	68
pH			6.25	9		8.86	8.67	8.21
<b>Inorganic Analytical Parameters (SPLP)</b>								
Antimony,SPLP	mg/L	---	---	---		<0.0060	<0.0060	<0.0060
Arsenic,SPLP	mg/L	---	---	---		0.031	<0.050	0.041
Barium,SPLP	mg/L	---	---	---		0.38	0.25	0.51
Beryllium,SPLP	mg/L	---	---	---		<0.0040	<0.0040	0.0044
Cadmium,SPLP	mg/L	---	---	---		0.0023	<0.0050	0.0021
Calcium,SPLP	mg/L	---	---	---		40	22	24
Chromium,SPLP	mg/L	---	---	---		0.07	0.02	0.11
Cobalt,SPLP	mg/L	---	---	---		0.021	<0.025	0.026
Copper,SPLP	mg/L	---	---	---		0.12	0.023	0.13
Iron,SPLP	mg/L	---	---	---		80	15	130
Lead,SPLP	mg/L	---	---	---		0.053	0.02	0.076
Magnesium,SPLP	mg/L	---	---	---		21	7.9	19
Manganese,SPLP	mg/L	---	---	---		0.42	0.17	0.99
Mercury,SPLP	mg/L	---	---	---		<0.00020	<0.00020	<0.00020
Nickel,SPLP	mg/L	---	---	---		0.088	0.017	0.12
Potassium,SPLP	mg/L	---	---	---		14	4.7	14
Thallium,SPLP	mg/L	---	---	---		0.0028	<0.0020	0.0033
Vanadium,SPLP	mg/L	---	---	---		0.1	0.024	0.18
<b>Inorganic Analytical Parameters (TCLP)</b>								
Arsenic,TCLP	mg/L	---	---	---		<0.050	<0.050	<0.050
Barium,TCLP	mg/L	---	---	---		0.22	0.65	0.5
Cadmium,TCLP	mg/L	---	---	---		<0.0050	<0.0050	<0.0050
Chromium,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Lead,TCLP	mg/L	---	---	---		<0.0075	<0.0075	<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020	<0.00020	<0.00020
Antimony,TCLP	mg/L	---	---	---		<0.0060	<0.0060	<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040	<0.0040	<0.0040
Calcium,TCLP	mg/L	---	---	---		680	240	200
Cobalt,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Copper,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Iron,TCLP	mg/L	---	---	---		<0.20	<0.20	<0.20
Magnesium,TCLP	mg/L	---	---	---		180	85	84
Manganese,TCLP	mg/L	---	---	---		2.3	0.068	0.023
Nickel,TCLP	mg/L	---	---	---		0.023	<0.025	<0.025
Potassium,TCLP	mg/L	---	---	---		1.7	3	3.2
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2233V-1-B20 DUP (0-2)	2233V-1-B21 (0-2)	2233V-1-B22 (0-2)
				CCDD	Sample Depth (feet)	(0-2)	(0-2)	(0-2)
		mg/kg			Date Collected	09/10/2015	09/10/2015	09/10/2015
		Chicago	MSAs	pH 6.25-9.0				
<b>Semivolatile Organic Analytical Parameters</b>								
Acenaphthylene	mg/kg	0.03	0.07	85		<0.041	<0.038	<0.038
Anthracene	mg/kg	0.25	0.4	12000		<0.041	<0.038	<0.038
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		<0.041	<0.038	<0.038
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		<0.041	<0.038	<0.038
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		<0.041	<0.038	<0.038
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		<0.041	<0.038	<0.038
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		<0.041	<0.038	<0.038
Chrysene	mg/kg	1.2	2.7	88		<0.041	<0.038	<0.038
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		<0.041	<0.038	<0.038
Fluoranthene	mg/kg	2.7	4.1	3100		<0.041	<0.038	<0.038
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		<0.041	<0.038	<0.038
Naphthalene	mg/kg	0.04	0.2	1.8		<0.041	<0.038	<0.038
Phenanthrene	mg/kg	1.3	2.5	210		<0.041	<0.038	<0.038
Pyrene	mg/kg	1.9	3.0	2300		<0.041	<0.038	<0.038
bis(2-Ethylhexyl)phthalate	mg/kg	---	---	46		<0.21	<0.19	<0.19
2-Methylnaphthalene	mg/kg	---	0.14	---		<0.041	<0.038	<0.038
<b>Inorganic Analytical Parameters</b>								
Arsenic	mg/kg	---	13	11.3		6.0	13.0	11.0
Barium	mg/kg	---	110	1500		130	38	71
Cadmium	mg/kg	---	0.6	5.2		0.24	0.29	0.31
Chromium, total	mg/kg	---	16.2	21		14	12	15
Lead	mg/kg	---	36	107		17	19	31
Mercury	mg/kg	---	0.06	0.1		0.048	0.036	0.043
Antimony	mg/kg	---	4.0	5		<1.3	0.32	0.27
Beryllium	mg/kg	---	0.59	22		0.56	0.53	0.59
Calcium	mg/kg	---	9,300	---		4200	54000	15000
Cobalt	mg/kg	---	8.9	20		8.8	12	12
Copper	mg/kg	---	19.6	2900		15	37	26
Iron	mg/kg	---	15,900	15000		15000	22000	23000
Magnesium	mg/kg	---	4,820	325000		3000	22000	11000
Manganese	mg/kg	---	636	630		290	320	460
Nickel	mg/kg	---	18	100		17	32	32
Potassium	mg/kg	---	1,268	---		1200	1900	1600
Sodium	mg/kg	---	130	---		1600	1300	2300
Thallium	mg/kg	---	0.32	2.6		<0.63	0.57	<0.56
Vanadium	mg/kg	---	25.2	550		23	16	21
Zinc	mg/kg	---	95	5100		64	80	92
pH			6.25	9		8.14	8.63	8.11
<b>Inorganic Analytical Parameters (SPLP)</b>								
Antimony,SPLP	mg/L	---	---	---		<0.0060	<0.0060	<0.0060
Arsenic,SPLP	mg/L	---	---	---		<0.050	0.014	0.072
Barium,SPLP	mg/L	---	---	---		0.55	0.21	0.62
Beryllium,SPLP	mg/L	---	---	---		<0.0040	<0.0040	0.0067
Cadmium,SPLP	mg/L	---	---	---		<0.0050	<0.0050	0.0027
Calcium,SPLP	mg/L	---	---	---		24	35	28
Chromium,SPLP	mg/L	---	---	---		0.019	0.039	0.13
Cobalt,SPLP	mg/L	---	---	---		0.012	<0.025	0.059
Copper,SPLP	mg/L	---	---	---		0.057	0.063	0.21
Iron,SPLP	mg/L	---	---	---		18	36	190
Lead,SPLP	mg/L	---	---	---		0.059	0.017	0.18
Magnesium,SPLP	mg/L	---	---	---		7.4	12	23
Manganese,SPLP	mg/L	---	---	---		1.4	0.16	2.1
Mercury,SPLP	mg/L	---	---	---		<0.00020	<0.00020	0.00028
Nickel,SPLP	mg/L	---	---	---		0.021	0.039	0.2
Potassium,SPLP	mg/L	---	---	---		3.5	9.5	17
Thallium,SPLP	mg/L	---	---	---		<0.0020	0.0024	0.0048
Vanadium,SPLP	mg/L	---	---	---		0.061	0.047	0.23
<b>Inorganic Analytical Parameters (TCLP)</b>								
Arsenic,TCLP	mg/L	---	---	---		<0.050	<0.050	<0.050
Barium,TCLP	mg/L	---	---	---		0.73	0.31	0.5
Cadmium,TCLP	mg/L	---	---	---		<0.0050	<0.0050	<0.0050
Chromium,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Lead,TCLP	mg/L	---	---	---		<0.0075	<0.0075	<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020	<0.00020	<0.00020
Antimony,TCLP	mg/L	---	---	---		<0.0060	<0.0060	<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040	<0.0040	<0.0040
Calcium,TCLP	mg/L	---	---	---		200	420	190
Cobalt,TCLP	mg/L	---	---	---		0.012	<0.025	0.016
Copper,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Iron,TCLP	mg/L	---	---	---		<0.20	<0.20	<0.20
Magnesium,TCLP	mg/L	---	---	---		72	15	70
Manganese,TCLP	mg/L	---	---	---		9.5	0.29	7.5
Nickel,TCLP	mg/L	---	---	---		<0.025	<0.025	0.014
Potassium,TCLP	mg/L	---	---	---		2.8	1.6	5.1
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2233V-1-B23 (0-2)
				CCDD	Sample Depth (feet)	(0-2)
		mg/kg	Date Collected	09/10/2015		
		Chicago	MSAs	pH 6.25-9.0		
<b>Semivolatile Organic Analytical Parameters</b>						
Acenaphthylene	mg/kg	0.03	0.07	85		0.031
Anthracene	mg/kg	0.25	0.4	12000		0.0078
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.053
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.088
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.13
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.064
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.048
Chrysene	mg/kg	1.2	2.7	88		0.061
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		<0.037
Fluoranthene	mg/kg	2.7	4.1	3100		0.052
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.059
Naphthalene	mg/kg	0.04	0.2	1.8		<0.037
Phenanthrene	mg/kg	1.3	2.5	210		0.023
Pyrene	mg/kg	1.9	3.0	2300		0.1
bis(2-Ethylhexyl)phthalate	mg/kg	---	---	46		<0.19
2-Methylnaphthalene	mg/kg	---	0.14	---		<0.037
<b>Inorganic Analytical Parameters</b>						
Arsenic	mg/kg	---	13	11.3		8.9
Barium	mg/kg	---	110	1500		89
Cadmium	mg/kg	---	0.6	5.2		0.37
Chromium, total	mg/kg	---	16.2	21		13
Lead	mg/kg	---	36	107		38
Mercury	mg/kg	---	0.06	0.1		0.047
Antimony	mg/kg	---	4.0	5		0.31
Beryllium	mg/kg	---	0.59	22		0.6
Calcium	mg/kg	---	9,300	---		13000
Cobalt	mg/kg	---	8.9	20		9
Copper	mg/kg	---	19.6	2900		20
Iron	mg/kg	---	15,900	15000		18000
Magnesium	mg/kg	---	4,820	325000		8600
Manganese	mg/kg	---	636	630		440
Nickel	mg/kg	---	18	100		20
Potassium	mg/kg	---	1,268	---		1200
Sodium	mg/kg	---	130	---		1100
Thallium	mg/kg	---	0.32	2.6		<0.55
Vanadium	mg/kg	---	25.2	550		21
Zinc	mg/kg	---	95	5100		88
pH			6.25	9		8.4
<b>Inorganic Analytical Parameters (SPLP)</b>						
Antimony,SPLP	mg/L	---	---	---		<0.0060
Arsenic,SPLP	mg/L	---	---	---		0.021
Barium,SPLP	mg/L	---	---	---		0.55
Beryllium,SPLP	mg/L	---	---	---		<0.0040
Cadmium,SPLP	mg/L	---	---	---		0.0023
Calcium,SPLP	mg/L	---	---	---		25
Chromium,SPLP	mg/L	---	---	---		0.088
Cobalt,SPLP	mg/L	---	---	---		0.016
Copper,SPLP	mg/L	---	---	---		0.11
Iron,SPLP	mg/L	---	---	---		91
Lead,SPLP	mg/L	---	---	---		0.12
Magnesium,SPLP	mg/L	---	---	---		16
Manganese,SPLP	mg/L	---	---	---		0.9
Mercury,SPLP	mg/L	---	---	---		<0.00020
Nickel,SPLP	mg/L	---	---	---		0.079
Potassium,SPLP	mg/L	---	---	---		11
Thallium,SPLP	mg/L	---	---	---		0.0022
Vanadium,SPLP	mg/L	---	---	---		0.15
<b>Inorganic Analytical Parameters (TCLP)</b>						
Arsenic,TCLP	mg/L	---	---	---		<0.050
Barium,TCLP	mg/L	---	---	---		0.42
Cadmium,TCLP	mg/L	---	---	---		<0.0050
Chromium,TCLP	mg/L	---	---	---		<0.025
Lead,TCLP	mg/L	---	---	---		<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020
Antimony,TCLP	mg/L	---	---	---		<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040
Calcium,TCLP	mg/L	---	---	---		170
Cobalt,TCLP	mg/L	---	---	---		<0.025
Copper,TCLP	mg/L	---	---	---		<0.025
Iron,TCLP	mg/L	---	---	---		<0.20
Magnesium,TCLP	mg/L	---	---	---		79
Manganese,TCLP	mg/L	---	---	---		0.088
Nickel,TCLP	mg/L	---	---	---		<0.025
Potassium,TCLP	mg/L	---	---	---		5.6
Thallium,TCLP	mg/L	---	---	---		<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.025

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

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

TestAmerica Job ID: 500-101071-1

Client Project/Site: IDOT - I-80 at Briggs Street - WO 011

For:

Terracon Consulting Eng & Scientists  
135 Ambassador Drive  
Naperville, Illinois 60540

Attn: Mr. Matthew Weiss



Authorized for release by:  
9/21/2015 3:54:58 PM

Richard Wright, Senior Project Manager  
(708)534-5200  
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### LINKS

Review your project  
results through  
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Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

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

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

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

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# Case Narrative

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Job ID: 500-101071-1**

**Laboratory: TestAmerica Chicago**

## Narrative

### Job Narrative 500-101071-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 9/11/2015 1:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.8° C, 3.1° C and 3.4° C.

#### GC/MS VOA

Method(s) 8260B: The following analyte recovered outside control limits for the LCS associated with 500-304173: Bromomethane. This is not indicative of a systematic control problem because this was a random marginal exceedance. Qualified results have been reported.

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

#### GC/MS Semi VOA

Method(s) 8270D: The following samples contained one base surrogate outside acceptance limits: 2233V-1-B05 (0-2) (500-101071-5), 2233V-1-B12 (0-2) (500-101071-13), 2233V-1-B13 (0-2) (500-101071-14), 2233V-1-B20 (0-2) (500-101071-21), 2233V-1-B23 (0-2) (500-101071-25), (500-101071-F-1-B MS) and (500-101071-F-1-C MSD). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

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

#### Metals

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 - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B01 (0-2)**

**Lab Sample ID: 500-101071-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Benzo[b]fluoranthene	0.024	J F1	0.038	0.0083	mg/Kg	1		☼	8270D	Total/NA
Chrysene	0.020	J	0.038	0.010	mg/Kg	1		☼	8270D	Total/NA
Fluoranthene	0.041		0.038	0.0071	mg/Kg	1		☼	8270D	Total/NA
Phenanthrene	0.019	J	0.038	0.0053	mg/Kg	1		☼	8270D	Total/NA
Pyrene	0.034	J F1	0.038	0.0076	mg/Kg	1		☼	8270D	Total/NA
Antimony	0.43	J F1	1.2	0.24	mg/Kg	1		☼	6010B	Total/NA
Arsenic	7.4	F1	0.58	0.27	mg/Kg	1		☼	6010B	Total/NA
Barium	87	F1	0.58	0.11	mg/Kg	1		☼	6010B	Total/NA
Beryllium	0.71		0.23	0.050	mg/Kg	1		☼	6010B	Total/NA
Cadmium	0.30	B F1	0.12	0.034	mg/Kg	1		☼	6010B	Total/NA
Chromium	14		0.58	0.10	mg/Kg	1		☼	6010B	Total/NA
Cobalt	11		0.29	0.065	mg/Kg	1		☼	6010B	Total/NA
Copper	24	F1	0.58	0.13	mg/Kg	1		☼	6010B	Total/NA
Iron	22000	B	12	4.5	mg/Kg	1		☼	6010B	Total/NA
Lead	30		0.29	0.14	mg/Kg	1		☼	6010B	Total/NA
Magnesium	7200	F2	5.8	2.4	mg/Kg	1		☼	6010B	Total/NA
Calcium	12000		12	3.7	mg/Kg	1		☼	6010B	Total/NA
Manganese	580		0.58	0.11	mg/Kg	1		☼	6010B	Total/NA
Nickel	28		0.58	0.16	mg/Kg	1		☼	6010B	Total/NA
Vanadium	22		0.29	0.085	mg/Kg	1		☼	6010B	Total/NA
Zinc	62	F1 B	1.2	0.37	mg/Kg	1		☼	6010B	Total/NA
Potassium	1100	F1	29	4.7	mg/Kg	1		☼	6010B	Total/NA
Sodium	3500		58	7.6	mg/Kg	1		☼	6010B	Total/NA
Barium	0.41	J	0.50	0.050	mg/L	1			6010B	TCLP
Calcium	220		2.5	0.50	mg/L	1			6010B	TCLP
Magnesium	92		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	0.67		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	0.85	J F1	2.5	0.50	mg/L	1			6010B	TCLP
Arsenic	0.095		0.050	0.010	mg/L	1			6010B	SPLP East
Barium	0.86		0.50	0.050	mg/L	1			6010B	SPLP East
Beryllium	0.0082		0.0040	0.0040	mg/L	1			6010B	SPLP East
Calcium	33	F1	2.5	0.50	mg/L	1			6010B	SPLP East
Chromium	0.21		0.025	0.010	mg/L	1			6010B	SPLP East
Cobalt	0.051		0.025	0.010	mg/L	1			6010B	SPLP East
Copper	0.23		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	250		0.20	0.20	mg/L	1			6010B	SPLP East
Lead	0.18		0.0075	0.0075	mg/L	1			6010B	SPLP East
Magnesium	31		2.5	0.50	mg/L	1			6010B	SPLP East
Manganese	2.2		0.025	0.010	mg/L	1			6010B	SPLP East
Nickel	0.18		0.025	0.010	mg/L	1			6010B	SPLP East
Potassium	23		2.5	0.50	mg/L	1			6010B	SPLP East
Vanadium	0.35		0.025	0.010	mg/L	1			6010B	SPLP East
Zinc	1.9	F1	0.10	0.020	mg/L	1			6010B	SPLP East
Thallium	0.0028		0.0020	0.0020	mg/L	1			6020A	SPLP East
Mercury	0.00047		0.00020	0.00020	mg/L	1			7470A	SPLP East
Mercury	0.046		0.018	0.0064	mg/Kg	1		☼	7471B	Total/NA
pH	9.18		0.200	0.200	SU	1			9045D	Total/NA

**Client Sample ID: 2233V-1-B02 (0-2)**

**Lab Sample ID: 500-101071-2**

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B02 (0-2) (Continued)**

**Lab Sample ID: 500-101071-2**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Benzo[b]fluoranthene	0.025	J	0.039	0.0085	mg/Kg	1	☼	☼	8270D	Total/NA
Fluoranthene	0.023	J	0.039	0.0073	mg/Kg	1	☼	☼	8270D	Total/NA
Antimony	0.49	J	1.2	0.25	mg/Kg	1	☼	☼	6010B	Total/NA
Arsenic	10		0.60	0.28	mg/Kg	1	☼	☼	6010B	Total/NA
Barium	82		0.60	0.11	mg/Kg	1	☼	☼	6010B	Total/NA
Beryllium	0.65		0.24	0.052	mg/Kg	1	☼	☼	6010B	Total/NA
Cadmium	0.22	B	0.12	0.035	mg/Kg	1	☼	☼	6010B	Total/NA
Chromium	12		0.60	0.10	mg/Kg	1	☼	☼	6010B	Total/NA
Cobalt	9.3		0.30	0.068	mg/Kg	1	☼	☼	6010B	Total/NA
Copper	23		0.60	0.13	mg/Kg	1	☼	☼	6010B	Total/NA
Iron	21000	B	12	4.6	mg/Kg	1	☼	☼	6010B	Total/NA
Lead	17		0.30	0.15	mg/Kg	1	☼	☼	6010B	Total/NA
Magnesium	18000		6.0	2.4	mg/Kg	1	☼	☼	6010B	Total/NA
Calcium	31000		12	3.8	mg/Kg	1	☼	☼	6010B	Total/NA
Manganese	560		0.60	0.12	mg/Kg	1	☼	☼	6010B	Total/NA
Nickel	23		0.60	0.16	mg/Kg	1	☼	☼	6010B	Total/NA
Selenium	0.48	J	0.60	0.30	mg/Kg	1	☼	☼	6010B	Total/NA
Vanadium	20		0.30	0.087	mg/Kg	1	☼	☼	6010B	Total/NA
Zinc	56	B	1.2	0.38	mg/Kg	1	☼	☼	6010B	Total/NA
Potassium	1200		30	4.9	mg/Kg	1	☼	☼	6010B	Total/NA
Sodium	2600		60	7.9	mg/Kg	1	☼	☼	6010B	Total/NA
Barium	0.34	J	0.50	0.050	mg/L	1			6010B	TCLP
Cadmium	0.0020	J	0.0050	0.0020	mg/L	1			6010B	TCLP
Calcium	180		2.5	0.50	mg/L	1			6010B	TCLP
Chromium	0.31		0.025	0.010	mg/L	1			6010B	TCLP
Cobalt	1.9		0.025	0.010	mg/L	1			6010B	TCLP
Copper	0.030		0.025	0.010	mg/L	1			6010B	TCLP
Iron	32		0.20	0.20	mg/L	1			6010B	TCLP
Magnesium	79		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	0.56		0.025	0.010	mg/L	1			6010B	TCLP
Nickel	0.11		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	0.74	J	2.5	0.50	mg/L	1			6010B	TCLP
Vanadium	0.071		0.025	0.010	mg/L	1			6010B	TCLP
Zinc	0.58		0.10	0.020	mg/L	1			6010B	TCLP
Arsenic	0.093		0.050	0.010	mg/L	1			6010B	SPLP East
Barium	0.72		0.50	0.050	mg/L	1			6010B	SPLP East
Beryllium	0.0068		0.0040	0.0040	mg/L	1			6010B	SPLP East
Calcium	27		2.5	0.50	mg/L	1			6010B	SPLP East
Chromium	0.17		0.025	0.010	mg/L	1			6010B	SPLP East
Cobalt	0.040		0.025	0.010	mg/L	1			6010B	SPLP East
Copper	0.18		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	190		0.20	0.20	mg/L	1			6010B	SPLP East
Lead	0.13		0.0075	0.0075	mg/L	1			6010B	SPLP East
Magnesium	26		2.5	0.50	mg/L	1			6010B	SPLP East
Manganese	1.7		0.025	0.010	mg/L	1			6010B	SPLP East
Nickel	0.16		0.025	0.010	mg/L	1			6010B	SPLP East
Potassium	21		2.5	0.50	mg/L	1			6010B	SPLP East
Vanadium	0.28		0.025	0.010	mg/L	1			6010B	SPLP East
Zinc	0.61		0.10	0.020	mg/L	1			6010B	SPLP East
Thallium	0.0041		0.0020	0.0020	mg/L	1			6020A	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

## Client Sample ID: 2233V-1-B02 (0-2) (Continued)

## Lab Sample ID: 500-101071-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.00020		0.00020	0.00020	mg/L	1		7470A	SPLP East
Mercury	0.043		0.020	0.0069	mg/Kg	1	☼	7471B	Total/NA
pH	8.71		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2233V-1-B03 (0-2)

## Lab Sample ID: 500-101071-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.021	J	0.041	0.0076	mg/Kg	1	☼	8270D	Total/NA
Arsenic	12		0.60	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	86		0.60	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.91		0.24	0.052	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.16	B	0.12	0.035	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.60	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.30	0.068	mg/Kg	1	☼	6010B	Total/NA
Copper	28		0.60	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	28000	B	12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	26		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2500		6.0	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	1500		12	3.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	650		0.60	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	38		0.60	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.40	J	0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.30	0.087	mg/Kg	1	☼	6010B	Total/NA
Zinc	70	B	1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Potassium	1000		30	4.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	3600		60	7.9	mg/Kg	1	☼	6010B	Total/NA
Barium	0.47	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	140		2.5	0.50	mg/L	1		6010B	TCLP
Chromium	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Cobalt	0.43		0.025	0.010	mg/L	1		6010B	TCLP
Copper	0.010	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	1.8		0.20	0.20	mg/L	1		6010B	TCLP
Magnesium	65		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.69		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.62	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.079	J	0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.087		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.83		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0073		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	18		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.16		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.044		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.21		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	210		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.11		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	24		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	1.8		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.19		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	19		2.5	0.50	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

## Client Sample ID: 2233V-1-B03 (0-2) (Continued)

## Lab Sample ID: 500-101071-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Vanadium	0.26		0.025	0.010	mg/L	1			6010B	SPLP East
Zinc	0.58		0.10	0.020	mg/L	1			6010B	SPLP East
Thallium	0.0045		0.0020	0.0020	mg/L	1			6020A	SPLP East
Mercury	0.00032		0.00020	0.00020	mg/L	1			7470A	SPLP East
Mercury	0.043		0.021	0.0072	mg/Kg	1	*		7471B	Total/NA
pH	8.33		0.200	0.200	SU	1			9045D	Total/NA

## Client Sample ID: 2233V-1-B04 (0-2)

## Lab Sample ID: 500-101071-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Benzo[a]anthracene	0.011	J	0.040	0.0054	mg/Kg	1	*		8270D	Total/NA
Benzo[a]pyrene	0.018	J	0.040	0.0078	mg/Kg	1	*		8270D	Total/NA
Benzo[g,h,i]perylene	0.045		0.040	0.013	mg/Kg	1	*		8270D	Total/NA
Chrysene	0.017	J	0.040	0.011	mg/Kg	1	*		8270D	Total/NA
Fluoranthene	0.020	J	0.040	0.0074	mg/Kg	1	*		8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.014	J	0.040	0.010	mg/Kg	1	*		8270D	Total/NA
Phenanthrene	0.012	J	0.040	0.0056	mg/Kg	1	*		8270D	Total/NA
Pyrene	0.021	J	0.040	0.0080	mg/Kg	1	*		8270D	Total/NA
Antimony	0.26	J	1.2	0.26	mg/Kg	1	*		6010B	Total/NA
Arsenic	12		0.61	0.28	mg/Kg	1	*		6010B	Total/NA
Barium	85		0.61	0.11	mg/Kg	1	*		6010B	Total/NA
Beryllium	0.74		0.25	0.053	mg/Kg	1	*		6010B	Total/NA
Cadmium	0.27	B	0.12	0.036	mg/Kg	1	*		6010B	Total/NA
Chromium	15		0.61	0.11	mg/Kg	1	*		6010B	Total/NA
Cobalt	12		0.31	0.069	mg/Kg	1	*		6010B	Total/NA
Copper	26		0.61	0.13	mg/Kg	1	*		6010B	Total/NA
Iron	25000	B	12	4.7	mg/Kg	1	*		6010B	Total/NA
Lead	22		0.31	0.15	mg/Kg	1	*		6010B	Total/NA
Magnesium	5600		6.1	2.5	mg/Kg	1	*		6010B	Total/NA
Calcium	7200		12	4.0	mg/Kg	1	*		6010B	Total/NA
Manganese	480		0.61	0.12	mg/Kg	1	*		6010B	Total/NA
Nickel	28		0.61	0.17	mg/Kg	1	*		6010B	Total/NA
Vanadium	26		0.31	0.090	mg/Kg	1	*		6010B	Total/NA
Zinc	76	B	1.2	0.39	mg/Kg	1	*		6010B	Total/NA
Potassium	1300		31	5.0	mg/Kg	1	*		6010B	Total/NA
Sodium	4100		61	8.1	mg/Kg	1	*		6010B	Total/NA
Barium	0.46	J	0.50	0.050	mg/L	1			6010B	TCLP
Calcium	260		2.5	0.50	mg/L	1			6010B	TCLP
Cobalt	0.58		0.025	0.010	mg/L	1			6010B	TCLP
Iron	1.6		0.20	0.20	mg/L	1			6010B	TCLP
Magnesium	130		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	0.76		0.025	0.010	mg/L	1			6010B	TCLP
Nickel	0.019	J	0.025	0.010	mg/L	1			6010B	TCLP
Potassium	1.9	J	2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.091	J	0.10	0.020	mg/L	1			6010B	TCLP
Arsenic	0.078		0.050	0.010	mg/L	1			6010B	SPLP East
Barium	0.72		0.50	0.050	mg/L	1			6010B	SPLP East
Beryllium	0.0068		0.0040	0.0040	mg/L	1			6010B	SPLP East
Calcium	30		2.5	0.50	mg/L	1			6010B	SPLP East
Chromium	0.16		0.025	0.010	mg/L	1			6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

## Client Sample ID: 2233V-1-B04 (0-2) (Continued)

## Lab Sample ID: 500-101071-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	0.035		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.18		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	190		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.15		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	27		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	1.3		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.13		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	23		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.28		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	1.8		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0033		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.047		0.018	0.0063	mg/Kg	1	☼	7471B	Total/NA
pH	8.07		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2233V-1-B05 (0-2)

## Lab Sample ID: 500-101071-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.32	J	1.1	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.0		0.57	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	94		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.70		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.27	B	0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	13		0.57	0.099	mg/Kg	1	☼	6010B	Total/NA
Cobalt	10		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	19		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	20000	B	11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	26		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	8400		5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	14000		11	3.7	mg/Kg	1	☼	6010B	Total/NA
Manganese	570		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	21		0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	64	B	1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	1200		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	2700		57	7.6	mg/Kg	1	☼	6010B	Total/NA
Barium	0.44	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	200		2.5	0.50	mg/L	1		6010B	TCLP
Chromium	0.23		0.025	0.010	mg/L	1		6010B	TCLP
Cobalt	1.3		0.025	0.010	mg/L	1		6010B	TCLP
Copper	0.024	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	16		0.20	0.20	mg/L	1		6010B	TCLP
Magnesium	100		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	4.8		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.069		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.8	J	2.5	0.50	mg/L	1		6010B	TCLP
Vanadium	0.076		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.15		0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.075		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.86		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0076		0.0040	0.0040	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

## Client Sample ID: 2233V-1-B05 (0-2) (Continued)

## Lab Sample ID: 500-101071-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	30		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.18		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.056		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.24		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	210		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.17		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	28		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	1.9		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.16		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	19		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.31		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.64		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0030		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.00059		0.00020	0.00020	mg/L	1		7470A	SPLP East
Mercury	0.033		0.020	0.0068	mg/Kg	1	*	7471B	Total/NA
pH	8.61		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2233V-1-B06 (0-2)

## Lab Sample ID: 500-101071-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0082	J	0.038	0.0052	mg/Kg	1	*	8270D	Total/NA
Benzo[a]pyrene	0.021	J	0.038	0.0075	mg/Kg	1	*	8270D	Total/NA
Benzo[b]fluoranthene	0.026	J	0.038	0.0083	mg/Kg	1	*	8270D	Total/NA
Benzo[g,h,i]perylene	0.024	J	0.038	0.012	mg/Kg	1	*	8270D	Total/NA
Chrysene	0.016	J	0.038	0.011	mg/Kg	1	*	8270D	Total/NA
Fluoranthene	0.013	J	0.038	0.0072	mg/Kg	1	*	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.011	J	0.038	0.010	mg/Kg	1	*	8270D	Total/NA
Pyrene	0.015	J	0.038	0.0077	mg/Kg	1	*	8270D	Total/NA
Antimony	0.38	J	1.2	0.24	mg/Kg	1	*	6010B	Total/NA
Arsenic	7.6		0.59	0.27	mg/Kg	1	*	6010B	Total/NA
Barium	94		0.59	0.11	mg/Kg	1	*	6010B	Total/NA
Beryllium	0.69		0.24	0.051	mg/Kg	1	*	6010B	Total/NA
Cadmium	0.23	B	0.12	0.034	mg/Kg	1	*	6010B	Total/NA
Chromium	14		0.59	0.10	mg/Kg	1	*	6010B	Total/NA
Cobalt	11		0.29	0.067	mg/Kg	1	*	6010B	Total/NA
Copper	21		0.59	0.13	mg/Kg	1	*	6010B	Total/NA
Iron	19000	B	12	4.5	mg/Kg	1	*	6010B	Total/NA
Lead	22		0.29	0.15	mg/Kg	1	*	6010B	Total/NA
Magnesium	7800		5.9	2.4	mg/Kg	1	*	6010B	Total/NA
Calcium	12000		12	3.8	mg/Kg	1	*	6010B	Total/NA
Manganese	500		0.59	0.12	mg/Kg	1	*	6010B	Total/NA
Nickel	20		0.59	0.16	mg/Kg	1	*	6010B	Total/NA
Selenium	0.45	J	0.59	0.29	mg/Kg	1	*	6010B	Total/NA
Vanadium	25		0.29	0.086	mg/Kg	1	*	6010B	Total/NA
Zinc	59	B	1.2	0.37	mg/Kg	1	*	6010B	Total/NA
Potassium	1200		29	4.8	mg/Kg	1	*	6010B	Total/NA
Sodium	880		59	7.8	mg/Kg	1	*	6010B	Total/NA
Barium	0.58		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	210		2.5	0.50	mg/L	1		6010B	TCLP
Chromium	0.028		0.025	0.010	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

## Client Sample ID: 2233V-1-B06 (0-2) (Continued)

## Lab Sample ID: 500-101071-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.010	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	100		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.46		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		0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.041	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.60		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0052		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	20		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.12		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.025		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.12		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	120		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.075		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	21		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.97		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.10		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	16		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.20		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.70		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0023		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.039		0.020	0.0069	mg/Kg	1	☼	7471B	Total/NA
pH	7.51		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2233V-1-B07 (0-2)

## Lab Sample ID: 500-101071-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.5		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	130		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.74		0.23	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.28	B	0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.58	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	18		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	21000	B	12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	19		0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	3600		5.8	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	4600		12	3.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	930		0.58	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	22		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Vanadium	27		0.29	0.085	mg/Kg	1	☼	6010B	Total/NA
Zinc	55	B	1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	1200		29	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	2500		58	7.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.37	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	71		2.5	0.50	mg/L	1		6010B	TCLP
Iron	0.20		0.20	0.20	mg/L	1		6010B	TCLP
Magnesium	22		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.30		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.2	J	2.5	0.50	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

## Client Sample ID: 2233V-1-B07 (0-2) (Continued)

## Lab Sample ID: 500-101071-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	0.045	J	0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.077		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	1.1		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0090		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	33		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.21		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.049		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.18		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	230		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.14		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	31		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	1.6		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.17		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	22		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.35		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.72		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0031		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.00028		0.00020	0.00020	mg/L	1		7470A	SPLP East
Mercury	0.040		0.020	0.0071	mg/Kg	1	☼	7471B	Total/NA
pH	7.61		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2233V-1-B08 (0-2)

## Lab Sample ID: 500-101071-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	13		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	80		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.85		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.18	B	0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.58	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	20		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	36		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	27000	B	12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	24		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	4100		5.8	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	2400		12	3.7	mg/Kg	1	☼	6010B	Total/NA
Manganese	400		0.58	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	49		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.62		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.29	0.085	mg/Kg	1	☼	6010B	Total/NA
Zinc	74	B	1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	1700		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	2600		58	7.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.55		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	220		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	110		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.64		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.4		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.099	J	0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.14		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.75		0.50	0.050	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago



# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

## Client Sample ID: 2233V-1-B08 (0-2) (Continued)

## Lab Sample ID: 500-101071-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.0083		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	26		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.18		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.069		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.30		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	240		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.12		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	32		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	1.5		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.26		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	28		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.27		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.87		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0091		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.048		0.017	0.0060	mg/Kg	1	✳	7471B	Total/NA
pH	8.43		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2233V-1-B09 (0-2)

## Lab Sample ID: 500-101071-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.32	J	1.2	0.24	mg/Kg	1	✳	6010B	Total/NA
Arsenic	9.4		0.58	0.27	mg/Kg	1	✳	6010B	Total/NA
Barium	98		0.58	0.11	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.72		0.23	0.050	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.27	B	0.12	0.033	mg/Kg	1	✳	6010B	Total/NA
Chromium	13		0.58	0.099	mg/Kg	1	✳	6010B	Total/NA
Cobalt	12		0.29	0.065	mg/Kg	1	✳	6010B	Total/NA
Copper	21		0.58	0.13	mg/Kg	1	✳	6010B	Total/NA
Iron	21000	B	12	4.4	mg/Kg	1	✳	6010B	Total/NA
Lead	26		0.29	0.14	mg/Kg	1	✳	6010B	Total/NA
Magnesium	9800		5.8	2.3	mg/Kg	1	✳	6010B	Total/NA
Calcium	17000		12	3.7	mg/Kg	1	✳	6010B	Total/NA
Manganese	500		0.58	0.11	mg/Kg	1	✳	6010B	Total/NA
Nickel	22		0.58	0.16	mg/Kg	1	✳	6010B	Total/NA
Selenium	0.45	J	0.58	0.29	mg/Kg	1	✳	6010B	Total/NA
Vanadium	22		0.29	0.084	mg/Kg	1	✳	6010B	Total/NA
Zinc	65	B	1.2	0.36	mg/Kg	1	✳	6010B	Total/NA
Potassium	1100		29	4.7	mg/Kg	1	✳	6010B	Total/NA
Sodium	2800		58	7.6	mg/Kg	1	✳	6010B	Total/NA
Barium	0.52		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	170		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	81		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	3.5		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.0		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.12		0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.095		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.92		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0086		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	37		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.22		0.025	0.010	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

## Client Sample ID: 2233V-1-B09 (0-2) (Continued)

## Lab Sample ID: 500-101071-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	0.060		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.25		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	250		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.16		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	34		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	2.2		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.19		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	24		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.35		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.78		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0041		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.00050		0.00020	0.00020	mg/L	1		7470A	SPLP East
Mercury	0.043		0.020	0.0071	mg/Kg	1	*	7471B	Total/NA
pH	8.81		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2233V-1-B09 DUP (0-2)

## Lab Sample ID: 500-101071-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.29	J	1.2	0.25	mg/Kg	1	*	6010B	Total/NA
Arsenic	11		0.60	0.28	mg/Kg	1	*	6010B	Total/NA
Barium	100		0.60	0.11	mg/Kg	1	*	6010B	Total/NA
Beryllium	0.71		0.24	0.052	mg/Kg	1	*	6010B	Total/NA
Cadmium	0.26	B	0.12	0.035	mg/Kg	1	*	6010B	Total/NA
Chromium	14		0.60	0.10	mg/Kg	1	*	6010B	Total/NA
Cobalt	12		0.30	0.068	mg/Kg	1	*	6010B	Total/NA
Copper	24		0.60	0.13	mg/Kg	1	*	6010B	Total/NA
Iron	24000	B	12	4.7	mg/Kg	1	*	6010B	Total/NA
Lead	21		0.30	0.15	mg/Kg	1	*	6010B	Total/NA
Magnesium	5100		6.0	2.5	mg/Kg	1	*	6010B	Total/NA
Calcium	7000		12	3.9	mg/Kg	1	*	6010B	Total/NA
Manganese	790		0.60	0.12	mg/Kg	1	*	6010B	Total/NA
Nickel	27		0.60	0.16	mg/Kg	1	*	6010B	Total/NA
Thallium	0.41	J	0.60	0.30	mg/Kg	1	*	6010B	Total/NA
Vanadium	23		0.30	0.088	mg/Kg	1	*	6010B	Total/NA
Zinc	67	B	1.2	0.38	mg/Kg	1	*	6010B	Total/NA
Potassium	1200		30	4.9	mg/Kg	1	*	6010B	Total/NA
Sodium	2400		60	8.0	mg/Kg	1	*	6010B	Total/NA
Barium	0.46	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	180		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	84		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.3		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.0	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.078	J	0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.078		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.91		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0084		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	30		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.21		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.053		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.23		0.025	0.010	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

## Client Sample ID: 2233V-1-B09 DUP (0-2) (Continued)

## Lab Sample ID: 500-101071-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	230		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.15		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	31		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	2.0		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.17		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	20		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.32		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.79		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0035		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.00039		0.00020	0.00020	mg/L	1		7470A	SPLP East
Mercury	0.039		0.018	0.0062	mg/Kg	1	*	7471B	Total/NA
pH	8.76		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2233V-1-B10 (0-2)

## Lab Sample ID: 500-101071-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.7		0.60	0.28	mg/Kg	1	*	6010B	Total/NA
Barium	81		0.60	0.11	mg/Kg	1	*	6010B	Total/NA
Beryllium	0.70		0.24	0.052	mg/Kg	1	*	6010B	Total/NA
Cadmium	0.26	B	0.12	0.035	mg/Kg	1	*	6010B	Total/NA
Chromium	14		0.60	0.10	mg/Kg	1	*	6010B	Total/NA
Cobalt	9.6		0.30	0.068	mg/Kg	1	*	6010B	Total/NA
Copper	19		0.60	0.13	mg/Kg	1	*	6010B	Total/NA
Iron	16000	B	12	4.6	mg/Kg	1	*	6010B	Total/NA
Lead	24		0.30	0.15	mg/Kg	1	*	6010B	Total/NA
Magnesium	5300		6.0	2.4	mg/Kg	1	*	6010B	Total/NA
Calcium	8000		12	3.9	mg/Kg	1	*	6010B	Total/NA
Manganese	390		0.60	0.12	mg/Kg	1	*	6010B	Total/NA
Nickel	21		0.60	0.16	mg/Kg	1	*	6010B	Total/NA
Selenium	0.37	J	0.60	0.30	mg/Kg	1	*	6010B	Total/NA
Vanadium	22		0.30	0.088	mg/Kg	1	*	6010B	Total/NA
Zinc	65	B	1.2	0.38	mg/Kg	1	*	6010B	Total/NA
Potassium	1000		30	4.9	mg/Kg	1	*	6010B	Total/NA
Sodium	2000		60	7.9	mg/Kg	1	*	6010B	Total/NA
Barium	0.42	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	150		2.5	0.50	mg/L	1		6010B	TCLP
Copper	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	63		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.27		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.3	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.24		0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.050		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.94		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0081		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	38		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.22		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.050		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.19		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	180		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.13		0.0075	0.0075	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

## Client Sample ID: 2233V-1-B10 (0-2) (Continued)

## Lab Sample ID: 500-101071-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	33		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	1.5		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.17		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	21		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.31		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	1.7		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0032		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.00039		0.00020	0.00020	mg/L	1		7470A	SPLP East
Mercury	0.046		0.020	0.0069	mg/Kg	1	☼	7471B	Total/NA
pH	8.72		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2233V-1-B11 (0-2)

## Lab Sample ID: 500-101071-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.013	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.016	J	0.038	0.0064	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.12		0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.16		0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.33		0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.097		0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.087		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.080	J	0.19	0.070	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.17		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.024	J	0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.24		0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.093		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.010	J	0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.0099	J	0.038	0.0059	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.074		0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.25		0.038	0.0077	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.31	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.1		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	68		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.71		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.31	B	0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.58	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	16		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	25		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	22000	B	12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	63		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	21000		5.8	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	47000		12	3.7	mg/Kg	1	☼	6010B	Total/NA
Manganese	440		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	33		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.50	J	0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	71	B	1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	1900		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	2200		58	7.6	mg/Kg	1	☼	6010B	Total/NA
Barium	0.34	J	0.50	0.050	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

## Client Sample ID: 2233V-1-B11 (0-2) (Continued)

## Lab Sample ID: 500-101071-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	310		2.5	0.50	mg/L	1		6010B	TCLP
Copper	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	50		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.095		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.2		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.60		0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.072		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.58		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0074		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	49		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.19		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.052		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.20		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	190		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.32		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	39		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	1.1		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.18		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	30		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.26		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.77		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0022		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.041		0.019	0.0067	mg/Kg	1	☼	7471B	Total/NA
pH	8.92		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2233V-1-B12 (0-2)

## Lab Sample ID: 500-101071-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	0.037	J	0.040	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.044		0.040	0.0086	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.023	J	0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.023	J	0.040	0.0074	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.048		0.040	0.0079	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.35	J	1.2	0.25	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.5		0.60	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	93		0.60	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.72		0.24	0.052	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.36	B	0.12	0.035	mg/Kg	1	☼	6010B	Total/NA
Chromium	14		0.60	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.4		0.30	0.068	mg/Kg	1	☼	6010B	Total/NA
Copper	21		0.60	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	19000	B	12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	49		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	5400		6.0	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	8700		12	3.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	430		0.60	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	21		0.60	0.16	mg/Kg	1	☼	6010B	Total/NA
Vanadium	23		0.30	0.088	mg/Kg	1	☼	6010B	Total/NA
Zinc	74	B	1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Potassium	1400		30	4.9	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

## Client Sample ID: 2233V-1-B12 (0-2) (Continued)

## Lab Sample ID: 500-101071-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	2500		60	7.9	mg/Kg	1	☼	6010B	Total/NA
Barium	0.37	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	150		2.5	0.50	mg/L	1		6010B	TCLP
Copper	0.043		0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	70		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.11		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.7		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.10		0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.058		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	1.0		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0098		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	36		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.26		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.056		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.21		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	220		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.23		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	39		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	1.4		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.19		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	23		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.37		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	1.9		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0031		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.00039		0.00020	0.00020	mg/L	1		7470A	SPLP East
Mercury	0.041		0.018	0.0064	mg/Kg	1	☼	7471B	Total/NA
pH	8.77		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2233V-1-B13 (0-2)

## Lab Sample ID: 500-101071-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.045		0.037	0.0050	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.064		0.037	0.0071	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.10		0.037	0.0080	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.044		0.037	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.036	J	0.037	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.060		0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.073		0.037	0.0068	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.048		0.037	0.0096	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.030	J	0.037	0.0051	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.13		0.037	0.0073	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.35	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.8		0.53	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	61		0.53	0.097	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.67		0.21	0.046	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.27	B	0.11	0.031	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.53	0.091	mg/Kg	1	☼	6010B	Total/NA
Cobalt	18		0.27	0.060	mg/Kg	1	☼	6010B	Total/NA
Copper	21		0.53	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	20000	B	11	4.1	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B13 (0-2) (Continued)**

**Lab Sample ID: 500-101071-14**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Lead	20		0.27	0.13	mg/Kg	1		☼	6010B	Total/NA
Magnesium	22000		5.3	2.2	mg/Kg	1		☼	6010B	Total/NA
Calcium	50000		11	3.4	mg/Kg	1		☼	6010B	Total/NA
Manganese	560		0.53	0.10	mg/Kg	1		☼	6010B	Total/NA
Nickel	36		0.53	0.14	mg/Kg	1		☼	6010B	Total/NA
Vanadium	18		0.27	0.077	mg/Kg	1		☼	6010B	Total/NA
Zinc	50	B	1.1	0.34	mg/Kg	1		☼	6010B	Total/NA
Potassium	2100		27	4.3	mg/Kg	1		☼	6010B	Total/NA
Sodium	1800		53	7.0	mg/Kg	1		☼	6010B	Total/NA
Barium	0.41	J	0.50	0.050	mg/L	1			6010B	TCLP
Calcium	300		2.5	0.50	mg/L	1			6010B	TCLP
Magnesium	51		2.5	0.50	mg/L	1			6010B	TCLP
Potassium	4.7		2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.28		0.10	0.020	mg/L	1			6010B	TCLP
Arsenic	0.048	J	0.050	0.010	mg/L	1			6010B	SPLP East
Barium	0.43	J	0.50	0.050	mg/L	1			6010B	SPLP East
Beryllium	0.0050		0.0040	0.0040	mg/L	1			6010B	SPLP East
Calcium	32		2.5	0.50	mg/L	1			6010B	SPLP East
Chromium	0.12		0.025	0.010	mg/L	1			6010B	SPLP East
Cobalt	0.035		0.025	0.010	mg/L	1			6010B	SPLP East
Copper	0.14		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	130		0.20	0.20	mg/L	1			6010B	SPLP East
Lead	0.21		0.0075	0.0075	mg/L	1			6010B	SPLP East
Magnesium	26		2.5	0.50	mg/L	1			6010B	SPLP East
Manganese	0.99		0.025	0.010	mg/L	1			6010B	SPLP East
Nickel	0.12		0.025	0.010	mg/L	1			6010B	SPLP East
Potassium	20		2.5	0.50	mg/L	1			6010B	SPLP East
Vanadium	0.18		0.025	0.010	mg/L	1			6010B	SPLP East
Zinc	0.50		0.10	0.020	mg/L	1			6010B	SPLP East
Mercury	0.026		0.017	0.0058	mg/Kg	1		☼	7471B	Total/NA
pH	8.99		0.200	0.200	SU	1			9045D	Total/NA

**Client Sample ID: 2233V-1-B14 (0-2)**

**Lab Sample ID: 500-101071-15**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Antimony	0.53	J	1.2	0.24	mg/Kg	1		☼	6010B	Total/NA
Arsenic	11		0.58	0.27	mg/Kg	1		☼	6010B	Total/NA
Barium	51		0.58	0.11	mg/Kg	1		☼	6010B	Total/NA
Beryllium	0.70		0.23	0.050	mg/Kg	1		☼	6010B	Total/NA
Cadmium	0.23	B	0.12	0.033	mg/Kg	1		☼	6010B	Total/NA
Chromium	14		0.58	0.099	mg/Kg	1		☼	6010B	Total/NA
Cobalt	12		0.29	0.065	mg/Kg	1		☼	6010B	Total/NA
Copper	28		0.58	0.13	mg/Kg	1		☼	6010B	Total/NA
Iron	24000	B	12	4.5	mg/Kg	1		☼	6010B	Total/NA
Lead	18		0.29	0.14	mg/Kg	1		☼	6010B	Total/NA
Magnesium	22000		5.8	2.3	mg/Kg	1		☼	6010B	Total/NA
Calcium	43000		12	3.7	mg/Kg	1		☼	6010B	Total/NA
Manganese	440		0.58	0.11	mg/Kg	1		☼	6010B	Total/NA
Nickel	34		0.58	0.16	mg/Kg	1		☼	6010B	Total/NA
Vanadium	18		0.29	0.084	mg/Kg	1		☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

## Client Sample ID: 2233V-1-B14 (0-2) (Continued)

## Lab Sample ID: 500-101071-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	53	B	1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	2000		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	3700		580	76	mg/Kg	10	☼	6010B	Total/NA
Barium	0.44	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	370		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	29		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.22		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.9		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.081	J	0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.053		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.40	J	0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0042		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	30		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.099		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.033		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.16		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	120		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.049		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	27		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.56		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.13		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	24		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.12		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.47		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0055		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.030		0.017	0.0061	mg/Kg	1	☼	7471B	Total/NA
pH	8.79		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2233V-1-B15 (0-2)

## Lab Sample ID: 500-101071-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.9		0.62	0.29	mg/Kg	1	☼	6010B	Total/NA
Barium	81		0.62	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.76		0.25	0.054	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.11	J B	0.12	0.036	mg/Kg	1	☼	6010B	Total/NA
Chromium	19		0.62	0.11	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.31	0.071	mg/Kg	1	☼	6010B	Total/NA
Copper	18		0.62	0.14	mg/Kg	1	☼	6010B	Total/NA
Iron	20000	B	12	4.8	mg/Kg	1	☼	6010B	Total/NA
Lead	16		0.31	0.16	mg/Kg	1	☼	6010B	Total/NA
Magnesium	3500		6.2	2.5	mg/Kg	1	☼	6010B	Total/NA
Calcium	1800		12	4.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	250		0.62	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	24		0.62	0.17	mg/Kg	1	☼	6010B	Total/NA
Vanadium	31		0.31	0.091	mg/Kg	1	☼	6010B	Total/NA
Zinc	60	B	1.2	0.40	mg/Kg	1	☼	6010B	Total/NA
Potassium	1100		31	5.1	mg/Kg	1	☼	6010B	Total/NA
Sodium	5100		310	41	mg/Kg	5	☼	6010B	Total/NA
Barium	0.18	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	29		2.5	0.50	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago



# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B15 (0-2) (Continued)**

**Lab Sample ID: 500-101071-16**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.31		0.20	0.20	mg/L	1		6010B	TCLP
Magnesium	9.7		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	3.0		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.93	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.054	J	0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.045	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.92		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.011		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	26		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.28		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.10		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.20		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	250		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.14		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	40		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	3.3		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.22		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	22		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.45		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.71		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0026		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.00050		0.00020	0.00020	mg/L	1		7470A	SPLP East
Mercury	0.057		0.020	0.0071	mg/Kg	1	☼	7471B	Total/NA
pH	7.58		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2233V-1-B16 (0-2)**

**Lab Sample ID: 500-101071-17**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.39	J	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.7		0.55	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	40		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.63		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.24	B	0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Chromium	13		0.55	0.095	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.28	0.063	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	20000	B	11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	27000		5.5	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	75000		110	36	mg/Kg	10	☼	6010B	Total/NA
Manganese	500		0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	28		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.57		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	17		0.28	0.081	mg/Kg	1	☼	6010B	Total/NA
Zinc	57	B	1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Potassium	1900		28	4.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	2600		55	7.3	mg/Kg	1	☼	6010B	Total/NA
Barium	0.46	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	390		2.5	0.50	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

## Client Sample ID: 2233V-1-B16 (0-2) (Continued)

## Lab Sample ID: 500-101071-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	19		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	2.6		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.6		2.5	0.50	mg/L	1		6010B	TCLP
Arsenic	0.068		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.56		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0065		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	26		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.15		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.062		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.19		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	170		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.098		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	31		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	2.2		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.18		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	25		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.23		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.51		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0036		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.00025		0.00020	0.00020	mg/L	1		7470A	SPLP East
Mercury	0.034		0.018	0.0063	mg/Kg	1	*	7471B	Total/NA
pH	8.55		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2233V-1-B17 (0-2)

## Lab Sample ID: 500-101071-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.44	J	1.1	0.23	mg/Kg	1	*	6010B	Total/NA
Arsenic	11		0.56	0.26	mg/Kg	1	*	6010B	Total/NA
Barium	59		0.56	0.10	mg/Kg	1	*	6010B	Total/NA
Beryllium	0.65		0.22	0.048	mg/Kg	1	*	6010B	Total/NA
Cadmium	0.34	B	0.11	0.032	mg/Kg	1	*	6010B	Total/NA
Chromium	14		0.56	0.096	mg/Kg	1	*	6010B	Total/NA
Cobalt	12		0.28	0.063	mg/Kg	1	*	6010B	Total/NA
Copper	25		0.56	0.12	mg/Kg	1	*	6010B	Total/NA
Iron	24000	B	11	4.3	mg/Kg	1	*	6010B	Total/NA
Lead	16		0.28	0.14	mg/Kg	1	*	6010B	Total/NA
Magnesium	22000		5.6	2.3	mg/Kg	1	*	6010B	Total/NA
Calcium	46000		11	3.6	mg/Kg	1	*	6010B	Total/NA
Manganese	350		0.56	0.11	mg/Kg	1	*	6010B	Total/NA
Nickel	33		0.56	0.15	mg/Kg	1	*	6010B	Total/NA
Selenium	0.34	J	0.56	0.28	mg/Kg	1	*	6010B	Total/NA
Vanadium	18		0.28	0.081	mg/Kg	1	*	6010B	Total/NA
Zinc	64	B	1.1	0.35	mg/Kg	1	*	6010B	Total/NA
Potassium	1800		28	4.6	mg/Kg	1	*	6010B	Total/NA
Sodium	2200		56	7.4	mg/Kg	1	*	6010B	Total/NA
Barium	0.46	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0041	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	1200		25	5.0	mg/L	10		6010B	TCLP
Cobalt	0.031		0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	270		2.5	0.50	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

## Client Sample ID: 2233V-1-B17 (0-2) (Continued)

## Lab Sample ID: 500-101071-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	5.0		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	0.084	J B	0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.14		0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.75		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0093		0.0040	0.0040	mg/L	1		6010B	SPLP East
Calcium	49		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.21		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.077		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.34		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	280		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.12		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	51		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	1.5		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.29		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	42		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.27		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	2.7		0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0074		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.00032		0.00020	0.00020	mg/L	1		7470A	SPLP East
Mercury	0.027		0.018	0.0064	mg/Kg	1	*	7471B	Total/NA
pH	8.27		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2233V-1-B18 (0-2)

## Lab Sample ID: 500-101071-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.37	J	1.1	0.23	mg/Kg	1	*	6010B	Total/NA
Arsenic	10		0.55	0.25	mg/Kg	1	*	6010B	Total/NA
Barium	37		0.55	0.10	mg/Kg	1	*	6010B	Total/NA
Beryllium	0.67		0.22	0.047	mg/Kg	1	*	6010B	Total/NA
Cadmium	0.27	B	0.11	0.032	mg/Kg	1	*	6010B	Total/NA
Chromium	15		0.55	0.094	mg/Kg	1	*	6010B	Total/NA
Cobalt	15		0.27	0.062	mg/Kg	1	*	6010B	Total/NA
Copper	29		0.55	0.12	mg/Kg	1	*	6010B	Total/NA
Iron	26000	B	11	4.2	mg/Kg	1	*	6010B	Total/NA
Lead	17		0.27	0.14	mg/Kg	1	*	6010B	Total/NA
Magnesium	19000		5.5	2.2	mg/Kg	1	*	6010B	Total/NA
Calcium	37000		11	3.5	mg/Kg	1	*	6010B	Total/NA
Manganese	460		0.55	0.11	mg/Kg	1	*	6010B	Total/NA
Nickel	34		0.55	0.15	mg/Kg	1	*	6010B	Total/NA
Vanadium	19		0.27	0.080	mg/Kg	1	*	6010B	Total/NA
Zinc	62	B	1.1	0.35	mg/Kg	1	*	6010B	Total/NA
Potassium	1700		27	4.5	mg/Kg	1	*	6010B	Total/NA
Sodium	1900		55	7.2	mg/Kg	1	*	6010B	Total/NA
Barium	0.22	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	680		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	180		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	2.3		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.023	J	0.025	0.010	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

## Client Sample ID: 2233V-1-B18 (0-2) (Continued)

## Lab Sample ID: 500-101071-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	1.7	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.062	J B	0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.031	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.38	J	0.50	0.050	mg/L	1		6010B	SPLP East
Cadmium	0.0023	J	0.0050	0.0020	mg/L	1		6010B	SPLP East
Calcium	40	F1	2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.070		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.021	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.12		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	80		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.053		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	21	F1	2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.42		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.088		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	14	F1	2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.10		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.34	B	0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0028		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.028		0.019	0.0066	mg/Kg	1	☼	7471B	Total/NA
pH	8.86		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2233V-1-B19 (0-2)

## Lab Sample ID: 500-101071-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.25	J	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	11		0.55	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	85		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.69		0.22	0.047	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.20	B	0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.55	0.094	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.27	0.062	mg/Kg	1	☼	6010B	Total/NA
Copper	29		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	26000	B	11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	24		0.27	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	11000		5.5	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	17000		11	3.5	mg/Kg	1	☼	6010B	Total/NA
Manganese	380		0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	38		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.27	0.080	mg/Kg	1	☼	6010B	Total/NA
Zinc	61	B	1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Potassium	1500		27	4.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	1300		55	7.2	mg/Kg	1	☼	6010B	Total/NA
Barium	0.65		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	240		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	85		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.068		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.0		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.049	J	0.10	0.020	mg/L	1		6010B	TCLP
Barium	0.25	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	22		2.5	0.50	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

## Client Sample ID: 2233V-1-B19 (0-2) (Continued)

## Lab Sample ID: 500-101071-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.020	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.023	J	0.025	0.010	mg/L	1		6010B	SPLP East
Iron	15		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.020		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	7.9		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.17		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.017	J	0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	4.7		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.024	J	0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.12	B	0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.041		0.019	0.0067	mg/Kg	1	*	7471B	Total/NA
pH	8.67		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2233V-1-B20 (0-2)

## Lab Sample ID: 500-101071-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	0.013	J	0.039	0.0078	mg/Kg	1	*	8270D	Total/NA
Arsenic	7.7		0.59	0.27	mg/Kg	1	*	6010B	Total/NA
Barium	110		0.59	0.11	mg/Kg	1	*	6010B	Total/NA
Beryllium	0.57		0.24	0.051	mg/Kg	1	*	6010B	Total/NA
Cadmium	0.25		0.12	0.034	mg/Kg	1	*	6010B	Total/NA
Chromium	14		0.59	0.10	mg/Kg	1	*	6010B	Total/NA
Cobalt	9.6		0.30	0.067	mg/Kg	1	*	6010B	Total/NA
Copper	17		0.59	0.13	mg/Kg	1	*	6010B	Total/NA
Iron	17000		12	4.6	mg/Kg	1	*	6010B	Total/NA
Lead	20		0.30	0.15	mg/Kg	1	*	6010B	Total/NA
Magnesium	4400		5.9	2.4	mg/Kg	1	*	6010B	Total/NA
Calcium	6500		12	3.8	mg/Kg	1	*	6010B	Total/NA
Manganese	510		0.59	0.12	mg/Kg	1	*	6010B	Total/NA
Nickel	19		0.59	0.16	mg/Kg	1	*	6010B	Total/NA
Selenium	0.67		0.59	0.29	mg/Kg	1	*	6010B	Total/NA
Vanadium	23		0.30	0.087	mg/Kg	1	*	6010B	Total/NA
Zinc	68		1.2	0.38	mg/Kg	1	*	6010B	Total/NA
Potassium	1400		30	4.8	mg/Kg	1	*	6010B	Total/NA
Sodium	1500		59	7.8	mg/Kg	1	*	6010B	Total/NA
Barium	0.50		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	200		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	84		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.023	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.2	F1	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.15		0.10	0.020	mg/L	1		6010B	TCLP
Arsenic	0.041	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.51		0.50	0.050	mg/L	1		6010B	SPLP East
Beryllium	0.0044		0.0040	0.0040	mg/L	1		6010B	SPLP East
Cadmium	0.0021	J	0.0050	0.0020	mg/L	1		6010B	SPLP East
Calcium	24		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.11		0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.026		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.13		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	130		0.20	0.20	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

## Client Sample ID: 2233V-1-B20 (0-2) (Continued)

## Lab Sample ID: 500-101071-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.076		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	19		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.99		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.12		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	14		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.18		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.46	B	0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0033		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.044		0.020	0.0070	mg/Kg	1	☼	7471B	Total/NA
pH	8.21		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2233V-1-B20 DUP (0-2)

## Lab Sample ID: 500-101071-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.022		0.019	0.0037	mg/Kg	1	☼	8260B	Total/NA
Arsenic	6.0		0.63	0.29	mg/Kg	1	☼	6010B	Total/NA
Barium	130		0.63	0.12	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.56		0.25	0.054	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.24		0.13	0.036	mg/Kg	1	☼	6010B	Total/NA
Chromium	14		0.63	0.11	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.8		0.31	0.071	mg/Kg	1	☼	6010B	Total/NA
Copper	15		0.63	0.14	mg/Kg	1	☼	6010B	Total/NA
Iron	15000		13	4.8	mg/Kg	1	☼	6010B	Total/NA
Lead	17		0.31	0.16	mg/Kg	1	☼	6010B	Total/NA
Magnesium	3000		6.3	2.6	mg/Kg	1	☼	6010B	Total/NA
Calcium	4200		13	4.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	290		0.63	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	17		0.63	0.17	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.79		0.63	0.31	mg/Kg	1	☼	6010B	Total/NA
Vanadium	23		0.31	0.092	mg/Kg	1	☼	6010B	Total/NA
Zinc	64		1.3	0.40	mg/Kg	1	☼	6010B	Total/NA
Potassium	1200		31	5.1	mg/Kg	1	☼	6010B	Total/NA
Sodium	1600		63	8.3	mg/Kg	1	☼	6010B	Total/NA
Barium	0.73		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	200		2.5	0.50	mg/L	1		6010B	TCLP
Cobalt	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	72		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	9.5		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.8		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.14		0.10	0.020	mg/L	1		6010B	TCLP
Barium	0.55		0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	24		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.019	J	0.025	0.010	mg/L	1		6010B	SPLP East
Cobalt	0.012	J	0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.057		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	18		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.059		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	7.4		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	1.4		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.021	J	0.025	0.010	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

## Client Sample ID: 2233V-1-B20 DUP (0-2) (Continued)

## Lab Sample ID: 500-101071-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	3.5		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.061		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.18	B	0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.048		0.020	0.0070	mg/Kg	1	☼	7471B	Total/NA
pH	8.14		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2233V-1-B21 (0-2)

## Lab Sample ID: 500-101071-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.32	J	1.1	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	13		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	38		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.53		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.29		0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	12		0.57	0.098	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	37		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	22000		11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	19		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	22000		5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	54000		110	37	mg/Kg	10	☼	6010B	Total/NA
Manganese	320		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	32		0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.57		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	16		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	80		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	1900		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	1300		57	7.6	mg/Kg	1	☼	6010B	Total/NA
Barium	0.31	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	420		2.5	0.50	mg/L	1		6010B	TCLP
Magnesium	15		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.29		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.6	J	2.5	0.50	mg/L	1		6010B	TCLP
Arsenic	0.014	J	0.050	0.010	mg/L	1		6010B	SPLP East
Barium	0.21	J	0.50	0.050	mg/L	1		6010B	SPLP East
Calcium	35		2.5	0.50	mg/L	1		6010B	SPLP East
Chromium	0.039		0.025	0.010	mg/L	1		6010B	SPLP East
Copper	0.063		0.025	0.010	mg/L	1		6010B	SPLP East
Iron	36		0.20	0.20	mg/L	1		6010B	SPLP East
Lead	0.017		0.0075	0.0075	mg/L	1		6010B	SPLP East
Magnesium	12		2.5	0.50	mg/L	1		6010B	SPLP East
Manganese	0.16		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.039		0.025	0.010	mg/L	1		6010B	SPLP East
Potassium	9.5		2.5	0.50	mg/L	1		6010B	SPLP East
Vanadium	0.047		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	0.20	B	0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0024		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.036		0.018	0.0064	mg/Kg	1	☼	7471B	Total/NA
pH	8.63		0.200	0.200	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B22 (0-2)**

**Lab Sample ID: 500-101071-24**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Antimony	0.27	J	1.1	0.23	mg/Kg	1		☼	6010B	Total/NA
Arsenic	11		0.56	0.26	mg/Kg	1		☼	6010B	Total/NA
Barium	71		0.56	0.10	mg/Kg	1		☼	6010B	Total/NA
Beryllium	0.59		0.22	0.048	mg/Kg	1		☼	6010B	Total/NA
Cadmium	0.31		0.11	0.032	mg/Kg	1		☼	6010B	Total/NA
Chromium	15		0.56	0.096	mg/Kg	1		☼	6010B	Total/NA
Cobalt	12		0.28	0.063	mg/Kg	1		☼	6010B	Total/NA
Copper	26		0.56	0.12	mg/Kg	1		☼	6010B	Total/NA
Iron	23000		11	4.3	mg/Kg	1		☼	6010B	Total/NA
Lead	31		0.28	0.14	mg/Kg	1		☼	6010B	Total/NA
Magnesium	11000		5.6	2.3	mg/Kg	1		☼	6010B	Total/NA
Calcium	15000		11	3.6	mg/Kg	1		☼	6010B	Total/NA
Manganese	460		0.56	0.11	mg/Kg	1		☼	6010B	Total/NA
Nickel	32		0.56	0.15	mg/Kg	1		☼	6010B	Total/NA
Vanadium	21		0.28	0.081	mg/Kg	1		☼	6010B	Total/NA
Zinc	92		1.1	0.35	mg/Kg	1		☼	6010B	Total/NA
Potassium	1600		28	4.5	mg/Kg	1		☼	6010B	Total/NA
Sodium	2300		56	7.3	mg/Kg	1		☼	6010B	Total/NA
Barium	0.50		0.50	0.050	mg/L	1			6010B	TCLP
Calcium	190		2.5	0.50	mg/L	1			6010B	TCLP
Cobalt	0.016	J	0.025	0.010	mg/L	1			6010B	TCLP
Magnesium	70		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	7.5		0.025	0.010	mg/L	1			6010B	TCLP
Nickel	0.014	J	0.025	0.010	mg/L	1			6010B	TCLP
Potassium	5.1		2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.60		0.10	0.020	mg/L	1			6010B	TCLP
Arsenic	0.072		0.050	0.010	mg/L	1			6010B	SPLP East
Barium	0.62		0.50	0.050	mg/L	1			6010B	SPLP East
Beryllium	0.0067		0.0040	0.0040	mg/L	1			6010B	SPLP East
Cadmium	0.0027	J	0.0050	0.0020	mg/L	1			6010B	SPLP East
Calcium	28		2.5	0.50	mg/L	1			6010B	SPLP East
Chromium	0.13		0.025	0.010	mg/L	1			6010B	SPLP East
Cobalt	0.059		0.025	0.010	mg/L	1			6010B	SPLP East
Copper	0.21		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	190		0.20	0.20	mg/L	1			6010B	SPLP East
Lead	0.18		0.0075	0.0075	mg/L	1			6010B	SPLP East
Magnesium	23		2.5	0.50	mg/L	1			6010B	SPLP East
Manganese	2.1		0.025	0.010	mg/L	1			6010B	SPLP East
Nickel	0.20		0.025	0.010	mg/L	1			6010B	SPLP East
Potassium	17		2.5	0.50	mg/L	1			6010B	SPLP East
Vanadium	0.23		0.025	0.010	mg/L	1			6010B	SPLP East
Zinc	0.64	B	0.10	0.020	mg/L	1			6010B	SPLP East
Thallium	0.0048		0.0020	0.0020	mg/L	1			6020A	SPLP East
Mercury	0.00028		0.00020	0.00020	mg/L	1			7470A	SPLP East
Mercury	0.043		0.019	0.0065	mg/Kg	1		☼	7471B	Total/NA
pH	8.11		0.200	0.200	SU	1			9045D	Total/NA

**Client Sample ID: 2233V-1-B23 (0-2)**

**Lab Sample ID: 500-101071-25**

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago



# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B23 (0-2) (Continued)**

**Lab Sample ID: 500-101071-25**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acenaphthylene	0.031	J	0.037	0.0049	mg/Kg	1	☼	☼	8270D	Total/NA
Anthracene	0.0078	J	0.037	0.0062	mg/Kg	1	☼	☼	8270D	Total/NA
Benzo[a]anthracene	0.053		0.037	0.0050	mg/Kg	1	☼	☼	8270D	Total/NA
Benzo[a]pyrene	0.088		0.037	0.0072	mg/Kg	1	☼	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.13		0.037	0.0080	mg/Kg	1	☼	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.064		0.037	0.012	mg/Kg	1	☼	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.048		0.037	0.011	mg/Kg	1	☼	☼	8270D	Total/NA
Chrysene	0.061		0.037	0.010	mg/Kg	1	☼	☼	8270D	Total/NA
Fluoranthene	0.052		0.037	0.0069	mg/Kg	1	☼	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.059		0.037	0.0096	mg/Kg	1	☼	☼	8270D	Total/NA
Phenanthrene	0.023	J	0.037	0.0052	mg/Kg	1	☼	☼	8270D	Total/NA
Pyrene	0.10		0.037	0.0074	mg/Kg	1	☼	☼	8270D	Total/NA
Antimony	0.31	J	1.1	0.23	mg/Kg	1	☼	☼	6010B	Total/NA
Arsenic	8.9		0.55	0.25	mg/Kg	1	☼	☼	6010B	Total/NA
Barium	89		0.55	0.10	mg/Kg	1	☼	☼	6010B	Total/NA
Beryllium	0.60		0.22	0.048	mg/Kg	1	☼	☼	6010B	Total/NA
Cadmium	0.37		0.11	0.032	mg/Kg	1	☼	☼	6010B	Total/NA
Chromium	13		0.55	0.095	mg/Kg	1	☼	☼	6010B	Total/NA
Cobalt	9.0		0.28	0.062	mg/Kg	1	☼	☼	6010B	Total/NA
Copper	20		0.55	0.12	mg/Kg	1	☼	☼	6010B	Total/NA
Iron	18000		11	4.2	mg/Kg	1	☼	☼	6010B	Total/NA
Lead	38		0.28	0.14	mg/Kg	1	☼	☼	6010B	Total/NA
Magnesium	8600		5.5	2.2	mg/Kg	1	☼	☼	6010B	Total/NA
Calcium	13000		11	3.5	mg/Kg	1	☼	☼	6010B	Total/NA
Manganese	440		0.55	0.11	mg/Kg	1	☼	☼	6010B	Total/NA
Nickel	20		0.55	0.15	mg/Kg	1	☼	☼	6010B	Total/NA
Selenium	0.29	J	0.55	0.27	mg/Kg	1	☼	☼	6010B	Total/NA
Vanadium	21		0.28	0.080	mg/Kg	1	☼	☼	6010B	Total/NA
Zinc	88		1.1	0.35	mg/Kg	1	☼	☼	6010B	Total/NA
Potassium	1200		28	4.5	mg/Kg	1	☼	☼	6010B	Total/NA
Sodium	1100		55	7.3	mg/Kg	1	☼	☼	6010B	Total/NA
Barium	0.42	J	0.50	0.050	mg/L	1			6010B	TCLP
Calcium	170		2.5	0.50	mg/L	1			6010B	TCLP
Magnesium	79		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	0.088		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	5.6		2.5	0.50	mg/L	1			6010B	TCLP
Arsenic	0.021	J	0.050	0.010	mg/L	1			6010B	SPLP East
Barium	0.55		0.50	0.050	mg/L	1			6010B	SPLP East
Cadmium	0.0023	J	0.0050	0.0020	mg/L	1			6010B	SPLP East
Calcium	25		2.5	0.50	mg/L	1			6010B	SPLP East
Chromium	0.088		0.025	0.010	mg/L	1			6010B	SPLP East
Cobalt	0.016	J	0.025	0.010	mg/L	1			6010B	SPLP East
Copper	0.11		0.025	0.010	mg/L	1			6010B	SPLP East
Iron	91		0.20	0.20	mg/L	1			6010B	SPLP East
Lead	0.12		0.0075	0.0075	mg/L	1			6010B	SPLP East
Magnesium	16		2.5	0.50	mg/L	1			6010B	SPLP East
Manganese	0.90		0.025	0.010	mg/L	1			6010B	SPLP East
Nickel	0.079		0.025	0.010	mg/L	1			6010B	SPLP East
Potassium	11		2.5	0.50	mg/L	1			6010B	SPLP East
Vanadium	0.15		0.025	0.010	mg/L	1			6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B23 (0-2) (Continued)**

**Lab Sample ID: 500-101071-25**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	1.1	B	0.10	0.020	mg/L	1		6010B	SPLP East
Thallium	0.0022		0.0020	0.0020	mg/L	1		6020A	SPLP East
Mercury	0.047		0.018	0.0063	mg/Kg	1	*	7471B	Total/NA
pH	8.40		0.200	0.200	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Method Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

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	Mercury (CVAA)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9014	Cyanide	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	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 = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

# Sample Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-101071-1	2233V-1-B01 (0-2)	Solid	09/10/15 11:45	09/11/15 13:00
500-101071-2	2233V-1-B02 (0-2)	Solid	09/10/15 11:55	09/11/15 13:00
500-101071-3	2233V-1-B03 (0-2)	Solid	09/10/15 12:05	09/11/15 13:00
500-101071-4	2233V-1-B04 (0-2)	Solid	09/10/15 12:15	09/11/15 13:00
500-101071-5	2233V-1-B05 (0-2)	Solid	09/10/15 12:30	09/11/15 13:00
500-101071-6	2233V-1-B06 (0-2)	Solid	09/10/15 12:45	09/11/15 13:00
500-101071-7	2233V-1-B07 (0-2)	Solid	09/10/15 12:55	09/11/15 13:00
500-101071-8	2233V-1-B08 (0-2)	Solid	09/10/15 11:05	09/11/15 13:00
500-101071-9	2233V-1-B09 (0-2)	Solid	09/10/15 10:40	09/11/15 13:00
500-101071-10	2233V-1-B09 DUP (0-2)	Solid	09/10/15 10:45	09/11/15 13:00
500-101071-11	2233V-1-B10 (0-2)	Solid	09/10/15 10:25	09/11/15 13:00
500-101071-12	2233V-1-B11 (0-2)	Solid	09/10/15 10:15	09/11/15 13:00
500-101071-13	2233V-1-B12 (0-2)	Solid	09/10/15 10:05	09/11/15 13:00
500-101071-14	2233V-1-B13 (0-2)	Solid	09/10/15 09:55	09/11/15 13:00
500-101071-15	2233V-1-B14 (0-2)	Solid	09/10/15 09:40	09/11/15 13:00
500-101071-16	2233V-1-B15 (0-2)	Solid	09/10/15 09:25	09/11/15 13:00
500-101071-17	2233V-1-B16 (0-2)	Solid	09/10/15 09:15	09/11/15 13:00
500-101071-18	2233V-1-B17 (0-2)	Solid	09/10/15 09:10	09/11/15 13:00
500-101071-19	2233V-1-B18 (0-2)	Solid	09/10/15 08:55	09/11/15 13:00
500-101071-20	2233V-1-B19 (0-2)	Solid	09/10/15 08:45	09/11/15 13:00
500-101071-21	2233V-1-B20 (0-2)	Solid	09/10/15 08:25	09/11/15 13:00
500-101071-22	2233V-1-B20 DUP (0-2)	Solid	09/10/15 08:30	09/11/15 13:00
500-101071-23	2233V-1-B21 (0-2)	Solid	09/10/15 08:15	09/11/15 13:00
500-101071-24	2233V-1-B22 (0-2)	Solid	09/10/15 08:05	09/11/15 13:00
500-101071-25	2233V-1-B23 (0-2)	Solid	09/10/15 07:55	09/11/15 13:00

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B01 (0-2)**

**Lab Sample ID: 500-101071-1**

**Date Collected: 09/10/15 11:45**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 83.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0039	mg/Kg	☼	09/11/15 17:00	09/14/15 19:21	1
Benzene	<0.0050		0.0050	0.0011	mg/Kg	☼	09/11/15 17:00	09/14/15 19:21	1
Bromodichloromethane	<0.0050		0.0050	0.00084	mg/Kg	☼	09/11/15 17:00	09/14/15 19:21	1
Bromoform	<0.0050		0.0050	0.0010	mg/Kg	☼	09/11/15 17:00	09/14/15 19:21	1
Bromomethane	<0.0050		0.0050	0.0018	mg/Kg	☼	09/11/15 17:00	09/14/15 19:21	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	09/11/15 17:00	09/14/15 19:21	1
Carbon disulfide	<0.0050		0.0050	0.0018	mg/Kg	☼	09/11/15 17:00	09/14/15 19:21	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg	☼	09/11/15 17:00	09/14/15 19:21	1
Chlorobenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/11/15 17:00	09/14/15 19:21	1
Chloroethane	<0.0050		0.0050	0.0021	mg/Kg	☼	09/11/15 17:00	09/14/15 19:21	1
Chloroform	<0.0050		0.0050	0.00097	mg/Kg	☼	09/11/15 17:00	09/14/15 19:21	1
Chloromethane	<0.0050		0.0050	0.0012	mg/Kg	☼	09/11/15 17:00	09/14/15 19:21	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	09/11/15 17:00	09/14/15 19:21	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg	☼	09/11/15 17:00	09/14/15 19:21	1
Dibromochloromethane	<0.0050		0.0050	0.00057	mg/Kg	☼	09/11/15 17:00	09/14/15 19:21	1
1,1-Dichloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	09/11/15 17:00	09/14/15 19:21	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	09/11/15 17:00	09/14/15 19:21	1
1,1-Dichloroethene	<0.0050		0.0050	0.0018	mg/Kg	☼	09/11/15 17:00	09/14/15 19:21	1
1,2-Dichloropropane	<0.0050		0.0050	0.0013	mg/Kg	☼	09/11/15 17:00	09/14/15 19:21	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.0014	mg/Kg	☼	09/11/15 17:00	09/14/15 19:21	1
Ethylbenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/11/15 17:00	09/14/15 19:21	1
2-Hexanone	<0.0050		0.0050	0.0015	mg/Kg	☼	09/11/15 17:00	09/14/15 19:21	1
Methylene Chloride	<0.0050		0.0050	0.0038	mg/Kg	☼	09/11/15 17:00	09/14/15 19:21	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0010	mg/Kg	☼	09/11/15 17:00	09/14/15 19:21	1
Methyl tert-butyl ether	<0.0050		0.0050	0.0012	mg/Kg	☼	09/11/15 17:00	09/14/15 19:21	1
Styrene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/11/15 17:00	09/14/15 19:21	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00079	mg/Kg	☼	09/11/15 17:00	09/14/15 19:21	1
Tetrachloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	09/11/15 17:00	09/14/15 19:21	1
Toluene	<0.0050		0.0050	0.0017	mg/Kg	☼	09/11/15 17:00	09/14/15 19:21	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/11/15 17:00	09/14/15 19:21	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0014	mg/Kg	☼	09/11/15 17:00	09/14/15 19:21	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.0012	mg/Kg	☼	09/11/15 17:00	09/14/15 19:21	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00096	mg/Kg	☼	09/11/15 17:00	09/14/15 19:21	1
Trichloroethene	<0.0050		0.0050	0.0013	mg/Kg	☼	09/11/15 17:00	09/14/15 19:21	1
Vinyl acetate	<0.0050		0.0050	0.0013	mg/Kg	☼	09/11/15 17:00	09/14/15 19:21	1
Vinyl chloride	<0.0050		0.0050	0.0012	mg/Kg	☼	09/11/15 17:00	09/14/15 19:21	1
Xylenes, Total	<0.010		0.010	0.0018	mg/Kg	☼	09/11/15 17:00	09/14/15 19:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122	09/11/15 17:00	09/14/15 19:21	1
Dibromofluoromethane	100		75 - 120	09/11/15 17:00	09/14/15 19:21	1
1,2-Dichloroethane-d4 (Surr)	121		70 - 134	09/11/15 17:00	09/14/15 19:21	1
Toluene-d8 (Surr)	111		75 - 122	09/11/15 17:00	09/14/15 19:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	09/14/15 07:43	09/16/15 12:46	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	09/14/15 07:43	09/16/15 12:46	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	09/14/15 07:43	09/16/15 12:46	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	09/14/15 07:43	09/16/15 12:46	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B01 (0-2)**

**Lab Sample ID: 500-101071-1**

**Date Collected: 09/10/15 11:45**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**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	<0.038		0.038	0.0074	mg/Kg	☼	09/14/15 07:43	09/16/15 12:46	1
<b>Benzo[b]fluoranthene</b>	<b>0.024</b>	<b>J F1</b>	0.038	0.0083	mg/Kg	☼	09/14/15 07:43	09/16/15 12:46	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	09/14/15 07:43	09/16/15 12:46	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	09/14/15 07:43	09/16/15 12:46	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	09/14/15 07:43	09/16/15 12:46	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	09/14/15 07:43	09/16/15 12:46	1
Bis(2-ethylhexyl) phthalate	<0.19	F1	0.19	0.070	mg/Kg	☼	09/14/15 07:43	09/16/15 12:46	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	09/14/15 07:43	09/16/15 12:46	1
Butyl benzyl phthalate	<0.19	F1	0.19	0.073	mg/Kg	☼	09/14/15 07:43	09/16/15 12:46	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	09/14/15 07:43	09/16/15 12:46	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	09/14/15 07:43	09/16/15 12:46	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	09/14/15 07:43	09/16/15 12:46	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/14/15 07:43	09/16/15 12:46	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	09/14/15 07:43	09/16/15 12:46	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	09/14/15 07:43	09/16/15 12:46	1
<b>Chrysene</b>	<b>0.020</b>	<b>J</b>	0.038	0.010	mg/Kg	☼	09/14/15 07:43	09/16/15 12:46	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	09/14/15 07:43	09/16/15 12:46	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/14/15 07:43	09/16/15 12:46	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	09/14/15 07:43	09/16/15 12:46	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/14/15 07:43	09/16/15 12:46	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	09/14/15 07:43	09/16/15 12:46	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	09/14/15 07:43	09/16/15 12:46	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	09/14/15 07:43	09/16/15 12:46	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	09/14/15 07:43	09/16/15 12:46	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	09/14/15 07:43	09/16/15 12:46	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/14/15 07:43	09/16/15 12:46	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	09/14/15 07:43	09/16/15 12:46	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	09/14/15 07:43	09/16/15 12:46	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	09/14/15 07:43	09/16/15 12:46	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	09/14/15 07:43	09/16/15 12:46	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	09/14/15 07:43	09/16/15 12:46	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	09/14/15 07:43	09/16/15 12:46	1
<b>Fluoranthene</b>	<b>0.041</b>		0.038	0.0071	mg/Kg	☼	09/14/15 07:43	09/16/15 12:46	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	09/14/15 07:43	09/16/15 12:46	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	09/14/15 07:43	09/16/15 12:46	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	09/14/15 07:43	09/16/15 12:46	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	09/14/15 07:43	09/16/15 12:46	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	09/14/15 07:43	09/16/15 12:46	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	09/14/15 07:43	09/16/15 12:46	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	09/14/15 07:43	09/16/15 12:46	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	09/14/15 07:43	09/16/15 12:46	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	09/14/15 07:43	09/16/15 12:46	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	09/14/15 07:43	09/16/15 12:46	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	09/14/15 07:43	09/16/15 12:46	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	09/14/15 07:43	09/16/15 12:46	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	09/14/15 07:43	09/16/15 12:46	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	09/14/15 07:43	09/16/15 12:46	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	09/14/15 07:43	09/16/15 12:46	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	09/14/15 07:43	09/16/15 12:46	1

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B01 (0-2)**

**Lab Sample ID: 500-101071-1**

**Date Collected: 09/10/15 11:45**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**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	<0.77		0.77	0.36	mg/Kg	☼	09/14/15 07:43	09/16/15 12:46	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	09/14/15 07:43	09/16/15 12:46	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	09/14/15 07:43	09/16/15 12:46	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	09/14/15 07:43	09/16/15 12:46	1
Pentachlorophenol	<0.77	F1	0.77	0.61	mg/Kg	☼	09/14/15 07:43	09/16/15 12:46	1
<b>Phenanthrene</b>	<b>0.019</b>	<b>J</b>	0.038	0.0053	mg/Kg	☼	09/14/15 07:43	09/16/15 12:46	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	09/14/15 07:43	09/16/15 12:46	1
<b>Pyrene</b>	<b>0.034</b>	<b>J F1</b>	0.038	0.0076	mg/Kg	☼	09/14/15 07:43	09/16/15 12:46	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/14/15 07:43	09/16/15 12:46	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	09/14/15 07:43	09/16/15 12:46	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	09/14/15 07:43	09/16/15 12:46	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorobiphenyl	89		25 - 119				09/14/15 07:43	09/16/15 12:46	1
2-Fluorophenol	85		25 - 110				09/14/15 07:43	09/16/15 12:46	1
Nitrobenzene-d5	98		25 - 115				09/14/15 07:43	09/16/15 12:46	1
Phenol-d5	90		31 - 110				09/14/15 07:43	09/16/15 12:46	1
Terphenyl-d14	102		36 - 134				09/14/15 07:43	09/16/15 12:46	1
2,4,6-Tribromophenol	77		35 - 137				09/14/15 07:43	09/16/15 12:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.43</b>	<b>J F1</b>	1.2	0.24	mg/Kg	☼	09/16/15 12:00	09/16/15 17:20	1
<b>Arsenic</b>	<b>7.4</b>	<b>F1</b>	0.58	0.27	mg/Kg	☼	09/16/15 12:00	09/16/15 17:20	1
<b>Barium</b>	<b>87</b>	<b>F1</b>	0.58	0.11	mg/Kg	☼	09/16/15 12:00	09/16/15 17:20	1
<b>Beryllium</b>	<b>0.71</b>		0.23	0.050	mg/Kg	☼	09/16/15 12:00	09/16/15 17:20	1
<b>Cadmium</b>	<b>0.30</b>	<b>B F1</b>	0.12	0.034	mg/Kg	☼	09/16/15 12:00	09/16/15 17:20	1
<b>Chromium</b>	<b>14</b>		0.58	0.10	mg/Kg	☼	09/16/15 12:00	09/16/15 17:20	1
<b>Cobalt</b>	<b>11</b>		0.29	0.065	mg/Kg	☼	09/16/15 12:00	09/16/15 17:20	1
<b>Copper</b>	<b>24</b>	<b>F1</b>	0.58	0.13	mg/Kg	☼	09/16/15 12:00	09/16/15 17:20	1
<b>Iron</b>	<b>22000</b>	<b>B</b>	12	4.5	mg/Kg	☼	09/16/15 12:00	09/16/15 17:20	1
<b>Lead</b>	<b>30</b>		0.29	0.14	mg/Kg	☼	09/16/15 12:00	09/16/15 17:20	1
<b>Magnesium</b>	<b>7200</b>	<b>F2</b>	5.8	2.4	mg/Kg	☼	09/16/15 12:00	09/16/15 17:20	1
<b>Calcium</b>	<b>12000</b>		12	3.7	mg/Kg	☼	09/16/15 12:00	09/16/15 17:20	1
<b>Manganese</b>	<b>580</b>		0.58	0.11	mg/Kg	☼	09/16/15 12:00	09/16/15 17:20	1
<b>Nickel</b>	<b>28</b>		0.58	0.16	mg/Kg	☼	09/16/15 12:00	09/16/15 17:20	1
Selenium	<0.58	F1	0.58	0.29	mg/Kg	☼	09/16/15 12:00	09/16/15 17:20	1
Silver	<0.29	F1	0.29	0.068	mg/Kg	☼	09/16/15 12:00	09/16/15 17:20	1
Thallium	<0.58	F1	0.58	0.28	mg/Kg	☼	09/16/15 12:00	09/16/15 17:20	1
<b>Vanadium</b>	<b>22</b>		0.29	0.085	mg/Kg	☼	09/16/15 12:00	09/16/15 17:20	1
<b>Zinc</b>	<b>62</b>	<b>F1 B</b>	1.2	0.37	mg/Kg	☼	09/16/15 12:00	09/17/15 18:15	1
<b>Potassium</b>	<b>1100</b>	<b>F1</b>	29	4.7	mg/Kg	☼	09/16/15 12:00	09/16/15 17:20	1
<b>Sodium</b>	<b>3500</b>		58	7.6	mg/Kg	☼	09/16/15 12:00	09/16/15 17:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/18/15 09:30	09/18/15 19:22	1
<b>Barium</b>	<b>0.41</b>	<b>J</b>	0.50	0.050	mg/L		09/18/15 09:30	09/18/15 19:22	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/18/15 09:30	09/18/15 19:22	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/18/15 09:30	09/18/15 19:22	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B01 (0-2)**

**Lab Sample ID: 500-101071-1**

**Date Collected: 09/10/15 11:45**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 83.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>220</b>		2.5	0.50	mg/L		09/18/15 09:30	09/18/15 19:22	1
Chromium	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 19:22	1
Cobalt	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 19:22	1
Copper	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 19:22	1
Iron	<0.20		0.20	0.20	mg/L		09/18/15 09:30	09/18/15 19:22	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/18/15 09:30	09/18/15 19:22	1
<b>Magnesium</b>	<b>92</b>		2.5	0.50	mg/L		09/18/15 09:30	09/18/15 19:22	1
<b>Manganese</b>	<b>0.67</b>		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 19:22	1
Nickel	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 19:22	1
<b>Potassium</b>	<b>0.85</b>	<b>J F1</b>	2.5	0.50	mg/L		09/18/15 09:30	09/18/15 19:22	1
Selenium	<0.050		0.050	0.020	mg/L		09/18/15 09:30	09/18/15 19:22	1
Silver	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 19:22	1
Vanadium	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 19:22	1
Zinc	<0.10		0.10	0.020	mg/L		09/18/15 09:30	09/18/15 19:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.095</b>		0.050	0.010	mg/L		09/15/15 17:00	09/16/15 19:02	1
<b>Barium</b>	<b>0.86</b>		0.50	0.050	mg/L		09/15/15 17:00	09/16/15 19:02	1
<b>Beryllium</b>	<b>0.0082</b>		0.0040	0.0040	mg/L		09/15/15 17:00	09/16/15 19:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/15/15 17:00	09/16/15 19:02	1
<b>Calcium</b>	<b>33</b>	<b>F1</b>	2.5	0.50	mg/L		09/15/15 17:00	09/16/15 19:02	1
<b>Chromium</b>	<b>0.21</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 19:02	1
<b>Cobalt</b>	<b>0.051</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 19:02	1
<b>Copper</b>	<b>0.23</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 19:02	1
<b>Iron</b>	<b>250</b>		0.20	0.20	mg/L		09/15/15 17:00	09/16/15 19:02	1
<b>Lead</b>	<b>0.18</b>		0.0075	0.0075	mg/L		09/15/15 17:00	09/16/15 19:02	1
<b>Magnesium</b>	<b>31</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 19:02	1
<b>Manganese</b>	<b>2.2</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 19:02	1
<b>Nickel</b>	<b>0.18</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 19:02	1
<b>Potassium</b>	<b>23</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 19:02	1
Selenium	<0.050		0.050	0.020	mg/L		09/15/15 17:00	09/16/15 19:02	1
Silver	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 19:02	1
<b>Vanadium</b>	<b>0.35</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 19:02	1
<b>Zinc</b>	<b>1.9</b>	<b>F1</b>	0.10	0.020	mg/L		09/15/15 17:00	09/16/15 19:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/18/15 09:30	09/18/15 17:24	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/18/15 09:30	09/18/15 17:24	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	F1	0.0060	0.0060	mg/L		09/15/15 17:00	09/16/15 11:21	1
<b>Thallium</b>	<b>0.0028</b>		0.0020	0.0020	mg/L		09/15/15 17:00	09/16/15 11:21	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.00047</b>		0.00020	0.00020	mg/L		09/15/15 18:30	09/16/15 11:13	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B01 (0-2)**

**Lab Sample ID: 500-101071-1**

**Date Collected: 09/10/15 11:45**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 83.9**

**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		09/18/15 15:30	09/21/15 09:07	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.046		0.018	0.0064	mg/Kg	☼	09/16/15 15:00	09/17/15 10:23	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.18	mg/Kg	☼	09/15/15 18:40	09/15/15 21:19	1
pH	9.18		0.200	0.200	SU			09/14/15 15:27	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B02 (0-2)**

**Lab Sample ID: 500-101071-2**

**Date Collected: 09/10/15 11:55**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 81.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.021		0.021	0.0040	mg/Kg	☼	09/11/15 17:00	09/14/15 19:46	1
Benzene	<0.0052		0.0052	0.0012	mg/Kg	☼	09/11/15 17:00	09/14/15 19:46	1
Bromodichloromethane	<0.0052		0.0052	0.00088	mg/Kg	☼	09/11/15 17:00	09/14/15 19:46	1
Bromoform	<0.0052		0.0052	0.0011	mg/Kg	☼	09/11/15 17:00	09/14/15 19:46	1
Bromomethane	<0.0052		0.0052	0.0019	mg/Kg	☼	09/11/15 17:00	09/14/15 19:46	1
2-Butanone (MEK)	<0.0052		0.0052	0.0019	mg/Kg	☼	09/11/15 17:00	09/14/15 19:46	1
Carbon disulfide	<0.0052		0.0052	0.0019	mg/Kg	☼	09/11/15 17:00	09/14/15 19:46	1
Carbon tetrachloride	<0.0052		0.0052	0.0011	mg/Kg	☼	09/11/15 17:00	09/14/15 19:46	1
Chlorobenzene	<0.0052		0.0052	0.0012	mg/Kg	☼	09/11/15 17:00	09/14/15 19:46	1
Chloroethane	<0.0052		0.0052	0.0022	mg/Kg	☼	09/11/15 17:00	09/14/15 19:46	1
Chloroform	<0.0052		0.0052	0.0010	mg/Kg	☼	09/11/15 17:00	09/14/15 19:46	1
Chloromethane	<0.0052		0.0052	0.0013	mg/Kg	☼	09/11/15 17:00	09/14/15 19:46	1
cis-1,2-Dichloroethene	<0.0052		0.0052	0.0011	mg/Kg	☼	09/11/15 17:00	09/14/15 19:46	1
cis-1,3-Dichloropropene	<0.0052		0.0052	0.0012	mg/Kg	☼	09/11/15 17:00	09/14/15 19:46	1
Dibromochloromethane	<0.0052		0.0052	0.00060	mg/Kg	☼	09/11/15 17:00	09/14/15 19:46	1
1,1-Dichloroethane	<0.0052		0.0052	0.0011	mg/Kg	☼	09/11/15 17:00	09/14/15 19:46	1
1,2-Dichloroethane	<0.0052		0.0052	0.00077	mg/Kg	☼	09/11/15 17:00	09/14/15 19:46	1
1,1-Dichloroethene	<0.0052		0.0052	0.0019	mg/Kg	☼	09/11/15 17:00	09/14/15 19:46	1
1,2-Dichloropropane	<0.0052		0.0052	0.0014	mg/Kg	☼	09/11/15 17:00	09/14/15 19:46	1
1,3-Dichloropropane, Total	<0.0052		0.0052	0.0015	mg/Kg	☼	09/11/15 17:00	09/14/15 19:46	1
Ethylbenzene	<0.0052		0.0052	0.0013	mg/Kg	☼	09/11/15 17:00	09/14/15 19:46	1
2-Hexanone	<0.0052		0.0052	0.0016	mg/Kg	☼	09/11/15 17:00	09/14/15 19:46	1
Methylene Chloride	<0.0052		0.0052	0.0039	mg/Kg	☼	09/11/15 17:00	09/14/15 19:46	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0011	mg/Kg	☼	09/11/15 17:00	09/14/15 19:46	1
Methyl tert-butyl ether	<0.0052		0.0052	0.0012	mg/Kg	☼	09/11/15 17:00	09/14/15 19:46	1
Styrene	<0.0052		0.0052	0.0012	mg/Kg	☼	09/11/15 17:00	09/14/15 19:46	1
1,1,2,2-Tetrachloroethane	<0.0052		0.0052	0.00083	mg/Kg	☼	09/11/15 17:00	09/14/15 19:46	1
Tetrachloroethene	<0.0052		0.0052	0.0011	mg/Kg	☼	09/11/15 17:00	09/14/15 19:46	1
Toluene	<0.0052		0.0052	0.0018	mg/Kg	☼	09/11/15 17:00	09/14/15 19:46	1
trans-1,2-Dichloroethene	<0.0052		0.0052	0.0013	mg/Kg	☼	09/11/15 17:00	09/14/15 19:46	1
trans-1,3-Dichloropropene	<0.0052		0.0052	0.0015	mg/Kg	☼	09/11/15 17:00	09/14/15 19:46	1
1,1,1-Trichloroethane	<0.0052		0.0052	0.0012	mg/Kg	☼	09/11/15 17:00	09/14/15 19:46	1
1,1,2-Trichloroethane	<0.0052		0.0052	0.0010	mg/Kg	☼	09/11/15 17:00	09/14/15 19:46	1
Trichloroethene	<0.0052		0.0052	0.0014	mg/Kg	☼	09/11/15 17:00	09/14/15 19:46	1
Vinyl acetate	<0.0052		0.0052	0.0014	mg/Kg	☼	09/11/15 17:00	09/14/15 19:46	1
Vinyl chloride	<0.0052		0.0052	0.0012	mg/Kg	☼	09/11/15 17:00	09/14/15 19:46	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg	☼	09/11/15 17:00	09/14/15 19:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 122	09/11/15 17:00	09/14/15 19:46	1
Dibromofluoromethane	102		75 - 120	09/11/15 17:00	09/14/15 19:46	1
1,2-Dichloroethane-d4 (Surr)	121		70 - 134	09/11/15 17:00	09/14/15 19:46	1
Toluene-d8 (Surr)	114		75 - 122	09/11/15 17:00	09/14/15 19:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	09/14/15 07:43	09/16/15 13:13	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	09/14/15 07:43	09/16/15 13:13	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	09/14/15 07:43	09/16/15 13:13	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	09/14/15 07:43	09/16/15 13:13	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B02 (0-2)**

**Lab Sample ID: 500-101071-2**

**Date Collected: 09/10/15 11:55**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**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	<0.039		0.039	0.0077	mg/Kg	☼	09/14/15 07:43	09/16/15 13:13	1
<b>Benzo[b]fluoranthene</b>	<b>0.025</b>	<b>J</b>	0.039	0.0085	mg/Kg	☼	09/14/15 07:43	09/16/15 13:13	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	09/14/15 07:43	09/16/15 13:13	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	09/14/15 07:43	09/16/15 13:13	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	09/14/15 07:43	09/16/15 13:13	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	09/14/15 07:43	09/16/15 13:13	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	09/14/15 07:43	09/16/15 13:13	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	09/14/15 07:43	09/16/15 13:13	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	09/14/15 07:43	09/16/15 13:13	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	09/14/15 07:43	09/16/15 13:13	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	09/14/15 07:43	09/16/15 13:13	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	09/14/15 07:43	09/16/15 13:13	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	09/14/15 07:43	09/16/15 13:13	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	09/14/15 07:43	09/16/15 13:13	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	09/14/15 07:43	09/16/15 13:13	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	09/14/15 07:43	09/16/15 13:13	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	09/14/15 07:43	09/16/15 13:13	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	09/14/15 07:43	09/16/15 13:13	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	09/14/15 07:43	09/16/15 13:13	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	09/14/15 07:43	09/16/15 13:13	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	09/14/15 07:43	09/16/15 13:13	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	09/14/15 07:43	09/16/15 13:13	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	09/14/15 07:43	09/16/15 13:13	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	09/14/15 07:43	09/16/15 13:13	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	09/14/15 07:43	09/16/15 13:13	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	09/14/15 07:43	09/16/15 13:13	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	09/14/15 07:43	09/16/15 13:13	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	09/14/15 07:43	09/16/15 13:13	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	09/14/15 07:43	09/16/15 13:13	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	09/14/15 07:43	09/16/15 13:13	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	09/14/15 07:43	09/16/15 13:13	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	09/14/15 07:43	09/16/15 13:13	1
<b>Fluoranthene</b>	<b>0.023</b>	<b>J</b>	0.039	0.0073	mg/Kg	☼	09/14/15 07:43	09/16/15 13:13	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	09/14/15 07:43	09/16/15 13:13	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	09/14/15 07:43	09/16/15 13:13	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	09/14/15 07:43	09/16/15 13:13	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	09/14/15 07:43	09/16/15 13:13	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	09/14/15 07:43	09/16/15 13:13	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	09/14/15 07:43	09/16/15 13:13	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	09/14/15 07:43	09/16/15 13:13	1
2-Methylnaphthalene	<0.039		0.039	0.0073	mg/Kg	☼	09/14/15 07:43	09/16/15 13:13	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	09/14/15 07:43	09/16/15 13:13	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	09/14/15 07:43	09/16/15 13:13	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	09/14/15 07:43	09/16/15 13:13	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	09/14/15 07:43	09/16/15 13:13	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	09/14/15 07:43	09/16/15 13:13	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	09/14/15 07:43	09/16/15 13:13	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	09/14/15 07:43	09/16/15 13:13	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	09/14/15 07:43	09/16/15 13:13	1

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B02 (0-2)**

**Lab Sample ID: 500-101071-2**

**Date Collected: 09/10/15 11:55**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**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	<0.80		0.80	0.38	mg/Kg	☼	09/14/15 07:43	09/16/15 13:13	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	09/14/15 07:43	09/16/15 13:13	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	09/14/15 07:43	09/16/15 13:13	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	09/14/15 07:43	09/16/15 13:13	1
Pentachlorophenol	<0.80		0.80	0.63	mg/Kg	☼	09/14/15 07:43	09/16/15 13:13	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	09/14/15 07:43	09/16/15 13:13	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	09/14/15 07:43	09/16/15 13:13	1
Pyrene	<0.039		0.039	0.0079	mg/Kg	☼	09/14/15 07:43	09/16/15 13:13	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	09/14/15 07:43	09/16/15 13:13	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	09/14/15 07:43	09/16/15 13:13	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	09/14/15 07:43	09/16/15 13:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	88		25 - 119	09/14/15 07:43	09/16/15 13:13	1
2-Fluorophenol	89		25 - 110	09/14/15 07:43	09/16/15 13:13	1
Nitrobenzene-d5	103		25 - 115	09/14/15 07:43	09/16/15 13:13	1
Phenol-d5	94		31 - 110	09/14/15 07:43	09/16/15 13:13	1
Terphenyl-d14	101		36 - 134	09/14/15 07:43	09/16/15 13:13	1
2,4,6-Tribromophenol	100		35 - 137	09/14/15 07:43	09/16/15 13:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.49</b>	<b>J</b>	1.2	0.25	mg/Kg	☼	09/16/15 12:00	09/16/15 17:44	1
<b>Arsenic</b>	<b>10</b>		0.60	0.28	mg/Kg	☼	09/16/15 12:00	09/16/15 17:44	1
<b>Barium</b>	<b>82</b>		0.60	0.11	mg/Kg	☼	09/16/15 12:00	09/16/15 17:44	1
<b>Beryllium</b>	<b>0.65</b>		0.24	0.052	mg/Kg	☼	09/16/15 12:00	09/16/15 17:44	1
<b>Cadmium</b>	<b>0.22</b>	<b>B</b>	0.12	0.035	mg/Kg	☼	09/16/15 12:00	09/16/15 17:44	1
<b>Chromium</b>	<b>12</b>		0.60	0.10	mg/Kg	☼	09/16/15 12:00	09/16/15 17:44	1
<b>Cobalt</b>	<b>9.3</b>		0.30	0.068	mg/Kg	☼	09/16/15 12:00	09/16/15 17:44	1
<b>Copper</b>	<b>23</b>		0.60	0.13	mg/Kg	☼	09/16/15 12:00	09/16/15 17:44	1
<b>Iron</b>	<b>21000</b>	<b>B</b>	12	4.6	mg/Kg	☼	09/16/15 12:00	09/16/15 17:44	1
<b>Lead</b>	<b>17</b>		0.30	0.15	mg/Kg	☼	09/16/15 12:00	09/16/15 17:44	1
<b>Magnesium</b>	<b>18000</b>		6.0	2.4	mg/Kg	☼	09/16/15 12:00	09/16/15 17:44	1
<b>Calcium</b>	<b>31000</b>		12	3.8	mg/Kg	☼	09/16/15 12:00	09/16/15 17:44	1
<b>Manganese</b>	<b>560</b>		0.60	0.12	mg/Kg	☼	09/16/15 12:00	09/16/15 17:44	1
<b>Nickel</b>	<b>23</b>		0.60	0.16	mg/Kg	☼	09/16/15 12:00	09/16/15 17:44	1
<b>Selenium</b>	<b>0.48</b>	<b>J</b>	0.60	0.30	mg/Kg	☼	09/16/15 12:00	09/16/15 17:44	1
Silver	<0.30		0.30	0.070	mg/Kg	☼	09/16/15 12:00	09/16/15 17:44	1
Thallium	<0.60		0.60	0.29	mg/Kg	☼	09/16/15 12:00	09/16/15 17:44	1
<b>Vanadium</b>	<b>20</b>		0.30	0.087	mg/Kg	☼	09/16/15 12:00	09/16/15 17:44	1
<b>Zinc</b>	<b>56</b>	<b>B</b>	1.2	0.38	mg/Kg	☼	09/16/15 12:00	09/17/15 18:48	1
<b>Potassium</b>	<b>1200</b>		30	4.9	mg/Kg	☼	09/16/15 12:00	09/16/15 17:44	1
<b>Sodium</b>	<b>2600</b>		60	7.9	mg/Kg	☼	09/16/15 12:00	09/16/15 17:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/18/15 09:30	09/18/15 19:49	1
<b>Barium</b>	<b>0.34</b>	<b>J</b>	0.50	0.050	mg/L		09/18/15 09:30	09/18/15 19:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/18/15 09:30	09/18/15 19:49	1
<b>Cadmium</b>	<b>0.0020</b>	<b>J</b>	0.0050	0.0020	mg/L		09/18/15 09:30	09/18/15 19:49	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B02 (0-2)**

**Lab Sample ID: 500-101071-2**

Date Collected: 09/10/15 11:55

Matrix: Solid

Date Received: 09/11/15 13:00

Percent Solids: 81.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	180		2.5	0.50	mg/L		09/18/15 09:30	09/18/15 19:49	1
Chromium	0.31		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 19:49	1
Cobalt	1.9		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 19:49	1
Copper	0.030		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 19:49	1
Iron	32		0.20	0.20	mg/L		09/18/15 09:30	09/18/15 19:49	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/18/15 09:30	09/18/15 19:49	1
Magnesium	79		2.5	0.50	mg/L		09/18/15 09:30	09/18/15 19:49	1
Manganese	0.56		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 19:49	1
Nickel	0.11		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 19:49	1
Potassium	0.74	J	2.5	0.50	mg/L		09/18/15 09:30	09/18/15 19:49	1
Selenium	<0.050		0.050	0.020	mg/L		09/18/15 09:30	09/18/15 19:49	1
Silver	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 19:49	1
Vanadium	0.071		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 19:49	1
Zinc	0.58		0.10	0.020	mg/L		09/18/15 09:30	09/18/15 19:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.093		0.050	0.010	mg/L		09/15/15 17:00	09/16/15 19:45	1
Barium	0.72		0.50	0.050	mg/L		09/15/15 17:00	09/16/15 19:45	1
Beryllium	0.0068		0.0040	0.0040	mg/L		09/15/15 17:00	09/16/15 19:45	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/15/15 17:00	09/16/15 19:45	1
Calcium	27		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 19:45	1
Chromium	0.17		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 19:45	1
Cobalt	0.040		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 19:45	1
Copper	0.18		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 19:45	1
Iron	190		0.20	0.20	mg/L		09/15/15 17:00	09/16/15 19:45	1
Lead	0.13		0.0075	0.0075	mg/L		09/15/15 17:00	09/16/15 19:45	1
Magnesium	26		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 19:45	1
Manganese	1.7		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 19:45	1
Nickel	0.16		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 19:45	1
Potassium	21		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 19:45	1
Selenium	<0.050		0.050	0.020	mg/L		09/15/15 17:00	09/16/15 19:45	1
Silver	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 19:45	1
Vanadium	0.28		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 19:45	1
Zinc	0.61		0.10	0.020	mg/L		09/15/15 17:00	09/16/15 19:45	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		09/18/15 09:30	09/18/15 17:27	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/18/15 09:30	09/18/15 17:27	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/15/15 17:00	09/16/15 11:31	1
Thallium	0.0041		0.0020	0.0020	mg/L		09/15/15 17:00	09/16/15 11:31	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020		0.00020	0.00020	mg/L		09/15/15 18:30	09/16/15 12:02	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B02 (0-2)**

**Lab Sample ID: 500-101071-2**

Date Collected: 09/10/15 11:55

Matrix: Solid

Date Received: 09/11/15 13:00

Percent Solids: 81.9

**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		09/18/15 15:30	09/21/15 09:09	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.043		0.020	0.0069	mg/Kg	☼	09/16/15 15:00	09/17/15 10:31	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.60		0.60	0.20	mg/Kg	☼	09/16/15 14:15	09/16/15 16:51	1
pH	8.71		0.200	0.200	SU			09/14/15 15:29	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B03 (0-2)**

**Lab Sample ID: 500-101071-3**

**Date Collected: 09/10/15 12:05**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 80.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.021		0.021	0.0040	mg/Kg	☼	09/11/15 17:00	09/14/15 22:58	1
Benzene	<0.0052		0.0052	0.0011	mg/Kg	☼	09/11/15 17:00	09/14/15 22:58	1
Bromodichloromethane	<0.0052		0.0052	0.00087	mg/Kg	☼	09/11/15 17:00	09/14/15 22:58	1
Bromoform	<0.0052		0.0052	0.0011	mg/Kg	☼	09/11/15 17:00	09/14/15 22:58	1
Bromomethane	<0.0052	*	0.0052	0.0019	mg/Kg	☼	09/11/15 17:00	09/14/15 22:58	1
2-Butanone (MEK)	<0.0052		0.0052	0.0018	mg/Kg	☼	09/11/15 17:00	09/14/15 22:58	1
Carbon disulfide	<0.0052		0.0052	0.0019	mg/Kg	☼	09/11/15 17:00	09/14/15 22:58	1
Carbon tetrachloride	<0.0052		0.0052	0.0011	mg/Kg	☼	09/11/15 17:00	09/14/15 22:58	1
Chlorobenzene	<0.0052		0.0052	0.0012	mg/Kg	☼	09/11/15 17:00	09/14/15 22:58	1
Chloroethane	<0.0052		0.0052	0.0022	mg/Kg	☼	09/11/15 17:00	09/14/15 22:58	1
Chloroform	<0.0052		0.0052	0.0010	mg/Kg	☼	09/11/15 17:00	09/14/15 22:58	1
Chloromethane	<0.0052		0.0052	0.0012	mg/Kg	☼	09/11/15 17:00	09/14/15 22:58	1
cis-1,2-Dichloroethene	<0.0052		0.0052	0.0011	mg/Kg	☼	09/11/15 17:00	09/14/15 22:58	1
cis-1,3-Dichloropropene	<0.0052		0.0052	0.0012	mg/Kg	☼	09/11/15 17:00	09/14/15 22:58	1
Dibromochloromethane	<0.0052		0.0052	0.00059	mg/Kg	☼	09/11/15 17:00	09/14/15 22:58	1
1,1-Dichloroethane	<0.0052		0.0052	0.0011	mg/Kg	☼	09/11/15 17:00	09/14/15 22:58	1
1,2-Dichloroethane	<0.0052		0.0052	0.00077	mg/Kg	☼	09/11/15 17:00	09/14/15 22:58	1
1,1-Dichloroethene	<0.0052		0.0052	0.0019	mg/Kg	☼	09/11/15 17:00	09/14/15 22:58	1
1,2-Dichloropropane	<0.0052		0.0052	0.0014	mg/Kg	☼	09/11/15 17:00	09/14/15 22:58	1
1,3-Dichloropropane, Total	<0.0052		0.0052	0.0015	mg/Kg	☼	09/11/15 17:00	09/14/15 22:58	1
Ethylbenzene	<0.0052		0.0052	0.0013	mg/Kg	☼	09/11/15 17:00	09/14/15 22:58	1
2-Hexanone	<0.0052		0.0052	0.0016	mg/Kg	☼	09/11/15 17:00	09/14/15 22:58	1
Methylene Chloride	<0.0052		0.0052	0.0039	mg/Kg	☼	09/11/15 17:00	09/14/15 22:58	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0011	mg/Kg	☼	09/11/15 17:00	09/14/15 22:58	1
Methyl tert-butyl ether	<0.0052		0.0052	0.0012	mg/Kg	☼	09/11/15 17:00	09/14/15 22:58	1
Styrene	<0.0052		0.0052	0.0012	mg/Kg	☼	09/11/15 17:00	09/14/15 22:58	1
1,1,2,2-Tetrachloroethane	<0.0052		0.0052	0.00082	mg/Kg	☼	09/11/15 17:00	09/14/15 22:58	1
Tetrachloroethene	<0.0052		0.0052	0.0011	mg/Kg	☼	09/11/15 17:00	09/14/15 22:58	1
Toluene	<0.0052		0.0052	0.0018	mg/Kg	☼	09/11/15 17:00	09/14/15 22:58	1
trans-1,2-Dichloroethene	<0.0052		0.0052	0.0013	mg/Kg	☼	09/11/15 17:00	09/14/15 22:58	1
trans-1,3-Dichloropropene	<0.0052		0.0052	0.0015	mg/Kg	☼	09/11/15 17:00	09/14/15 22:58	1
1,1,1-Trichloroethane	<0.0052		0.0052	0.0012	mg/Kg	☼	09/11/15 17:00	09/14/15 22:58	1
1,1,2-Trichloroethane	<0.0052		0.0052	0.0010	mg/Kg	☼	09/11/15 17:00	09/14/15 22:58	1
Trichloroethene	<0.0052		0.0052	0.0014	mg/Kg	☼	09/11/15 17:00	09/14/15 22:58	1
Vinyl acetate	<0.0052		0.0052	0.0014	mg/Kg	☼	09/11/15 17:00	09/14/15 22:58	1
Vinyl chloride	<0.0052		0.0052	0.0012	mg/Kg	☼	09/11/15 17:00	09/14/15 22:58	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg	☼	09/11/15 17:00	09/14/15 22:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 122	09/11/15 17:00	09/14/15 22:58	1
Dibromofluoromethane	107		75 - 120	09/11/15 17:00	09/14/15 22:58	1
1,2-Dichloroethane-d4 (Surr)	125		70 - 134	09/11/15 17:00	09/14/15 22:58	1
Toluene-d8 (Surr)	116		75 - 122	09/11/15 17:00	09/14/15 22:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☼	09/14/15 07:43	09/16/15 13:41	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	09/14/15 07:43	09/16/15 13:41	1
Anthracene	<0.041		0.041	0.0068	mg/Kg	☼	09/14/15 07:43	09/16/15 13:41	1
Benzo[a]anthracene	<0.041		0.041	0.0055	mg/Kg	☼	09/14/15 07:43	09/16/15 13:41	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B03 (0-2)**

**Lab Sample ID: 500-101071-3**

**Date Collected: 09/10/15 12:05**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 80.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.041		0.041	0.0079	mg/Kg	☼	09/14/15 07:43	09/16/15 13:41	1
Benzo[b]fluoranthene	<0.041		0.041	0.0088	mg/Kg	☼	09/14/15 07:43	09/16/15 13:41	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	09/14/15 07:43	09/16/15 13:41	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	09/14/15 07:43	09/16/15 13:41	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	09/14/15 07:43	09/16/15 13:41	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.061	mg/Kg	☼	09/14/15 07:43	09/16/15 13:41	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	09/14/15 07:43	09/16/15 13:41	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	09/14/15 07:43	09/16/15 13:41	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☼	09/14/15 07:43	09/16/15 13:41	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	09/14/15 07:43	09/16/15 13:41	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☼	09/14/15 07:43	09/16/15 13:41	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	09/14/15 07:43	09/16/15 13:41	1
2-Chloronaphthalene	<0.21		0.21	0.045	mg/Kg	☼	09/14/15 07:43	09/16/15 13:41	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☼	09/14/15 07:43	09/16/15 13:41	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	09/14/15 07:43	09/16/15 13:41	1
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	09/14/15 07:43	09/16/15 13:41	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0079	mg/Kg	☼	09/14/15 07:43	09/16/15 13:41	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	09/14/15 07:43	09/16/15 13:41	1
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	09/14/15 07:43	09/16/15 13:41	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	09/14/15 07:43	09/16/15 13:41	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	09/14/15 07:43	09/16/15 13:41	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.057	mg/Kg	☼	09/14/15 07:43	09/16/15 13:41	1
2,4-Dichlorophenol	<0.41		0.41	0.097	mg/Kg	☼	09/14/15 07:43	09/16/15 13:41	1
Diethyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	09/14/15 07:43	09/16/15 13:41	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	09/14/15 07:43	09/16/15 13:41	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	09/14/15 07:43	09/16/15 13:41	1
Di-n-butyl phthalate	<0.21		0.21	0.062	mg/Kg	☼	09/14/15 07:43	09/16/15 13:41	1
4,6-Dinitro-2-methylphenol	<0.83		0.83	0.33	mg/Kg	☼	09/14/15 07:43	09/16/15 13:41	1
2,4-Dinitrophenol	<0.83		0.83	0.72	mg/Kg	☼	09/14/15 07:43	09/16/15 13:41	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	09/14/15 07:43	09/16/15 13:41	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	09/14/15 07:43	09/16/15 13:41	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	09/14/15 07:43	09/16/15 13:41	1
<b>Fluoranthene</b>	<b>0.021</b>	<b>J</b>	0.041	0.0076	mg/Kg	☼	09/14/15 07:43	09/16/15 13:41	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	09/14/15 07:43	09/16/15 13:41	1
Hexachlorobenzene	<0.083		0.083	0.0095	mg/Kg	☼	09/14/15 07:43	09/16/15 13:41	1
Hexachlorobutadiene	<0.21		0.21	0.064	mg/Kg	☼	09/14/15 07:43	09/16/15 13:41	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☼	09/14/15 07:43	09/16/15 13:41	1
Hexachloroethane	<0.21		0.21	0.062	mg/Kg	☼	09/14/15 07:43	09/16/15 13:41	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	09/14/15 07:43	09/16/15 13:41	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	09/14/15 07:43	09/16/15 13:41	1
2-Methylnaphthalene	<0.041		0.041	0.0075	mg/Kg	☼	09/14/15 07:43	09/16/15 13:41	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	09/14/15 07:43	09/16/15 13:41	1
3 & 4 Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	09/14/15 07:43	09/16/15 13:41	1
Naphthalene	<0.041		0.041	0.0063	mg/Kg	☼	09/14/15 07:43	09/16/15 13:41	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	☼	09/14/15 07:43	09/16/15 13:41	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	09/14/15 07:43	09/16/15 13:41	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	09/14/15 07:43	09/16/15 13:41	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	09/14/15 07:43	09/16/15 13:41	1
2-Nitrophenol	<0.41		0.41	0.097	mg/Kg	☼	09/14/15 07:43	09/16/15 13:41	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B03 (0-2)**

**Lab Sample ID: 500-101071-3**

**Date Collected: 09/10/15 12:05**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 80.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	☼	09/14/15 07:43	09/16/15 13:41	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.050	mg/Kg	☼	09/14/15 07:43	09/16/15 13:41	1
N-Nitrosodiphenylamine	<0.21		0.21	0.048	mg/Kg	☼	09/14/15 07:43	09/16/15 13:41	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.047	mg/Kg	☼	09/14/15 07:43	09/16/15 13:41	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	☼	09/14/15 07:43	09/16/15 13:41	1
Phenanthrene	<0.041		0.041	0.0057	mg/Kg	☼	09/14/15 07:43	09/16/15 13:41	1
Phenol	<0.21		0.21	0.091	mg/Kg	☼	09/14/15 07:43	09/16/15 13:41	1
Pyrene	<0.041		0.041	0.0081	mg/Kg	☼	09/14/15 07:43	09/16/15 13:41	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	09/14/15 07:43	09/16/15 13:41	1
2,4,5-Trichlorophenol	<0.41		0.41	0.093	mg/Kg	☼	09/14/15 07:43	09/16/15 13:41	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	09/14/15 07:43	09/16/15 13:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	89		25 - 119	09/14/15 07:43	09/16/15 13:41	1
2-Fluorophenol	82		25 - 110	09/14/15 07:43	09/16/15 13:41	1
Nitrobenzene-d5	99		25 - 115	09/14/15 07:43	09/16/15 13:41	1
Phenol-d5	87		31 - 110	09/14/15 07:43	09/16/15 13:41	1
Terphenyl-d14	98		36 - 134	09/14/15 07:43	09/16/15 13:41	1
2,4,6-Tribromophenol	88		35 - 137	09/14/15 07:43	09/16/15 13:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.25	mg/Kg	☼	09/16/15 12:00	09/16/15 17:49	1
<b>Arsenic</b>	<b>12</b>		0.60	0.28	mg/Kg	☼	09/16/15 12:00	09/16/15 17:49	1
<b>Barium</b>	<b>86</b>		0.60	0.11	mg/Kg	☼	09/16/15 12:00	09/16/15 17:49	1
<b>Beryllium</b>	<b>0.91</b>		0.24	0.052	mg/Kg	☼	09/16/15 12:00	09/16/15 17:49	1
<b>Cadmium</b>	<b>0.16</b>	<b>B</b>	0.12	0.035	mg/Kg	☼	09/16/15 12:00	09/16/15 17:49	1
<b>Chromium</b>	<b>15</b>		0.60	0.10	mg/Kg	☼	09/16/15 12:00	09/16/15 17:49	1
<b>Cobalt</b>	<b>13</b>		0.30	0.068	mg/Kg	☼	09/16/15 12:00	09/16/15 17:49	1
<b>Copper</b>	<b>28</b>		0.60	0.13	mg/Kg	☼	09/16/15 12:00	09/16/15 17:49	1
<b>Iron</b>	<b>28000</b>	<b>B</b>	12	4.6	mg/Kg	☼	09/16/15 12:00	09/16/15 17:49	1
<b>Lead</b>	<b>26</b>		0.30	0.15	mg/Kg	☼	09/16/15 12:00	09/16/15 17:49	1
<b>Magnesium</b>	<b>2500</b>		6.0	2.4	mg/Kg	☼	09/16/15 12:00	09/16/15 17:49	1
<b>Calcium</b>	<b>1500</b>		12	3.9	mg/Kg	☼	09/16/15 12:00	09/16/15 17:49	1
<b>Manganese</b>	<b>650</b>		0.60	0.12	mg/Kg	☼	09/16/15 12:00	09/16/15 17:49	1
<b>Nickel</b>	<b>38</b>		0.60	0.16	mg/Kg	☼	09/16/15 12:00	09/16/15 17:49	1
<b>Selenium</b>	<b>0.40</b>	<b>J</b>	0.60	0.30	mg/Kg	☼	09/16/15 12:00	09/16/15 17:49	1
Silver	<0.30		0.30	0.070	mg/Kg	☼	09/16/15 12:00	09/16/15 17:49	1
Thallium	<0.60		0.60	0.29	mg/Kg	☼	09/16/15 12:00	09/16/15 17:49	1
<b>Vanadium</b>	<b>22</b>		0.30	0.087	mg/Kg	☼	09/16/15 12:00	09/16/15 17:49	1
<b>Zinc</b>	<b>70</b>	<b>B</b>	1.2	0.38	mg/Kg	☼	09/16/15 12:00	09/17/15 18:55	1
<b>Potassium</b>	<b>1000</b>		30	4.9	mg/Kg	☼	09/16/15 12:00	09/16/15 17:49	1
<b>Sodium</b>	<b>3600</b>		60	7.9	mg/Kg	☼	09/16/15 12:00	09/16/15 17:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/18/15 09:30	09/18/15 20:11	1
<b>Barium</b>	<b>0.47</b>	<b>J</b>	0.50	0.050	mg/L		09/18/15 09:30	09/18/15 20:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/18/15 09:30	09/18/15 20:11	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/18/15 09:30	09/18/15 20:11	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B03 (0-2)**

**Lab Sample ID: 500-101071-3**

Date Collected: 09/10/15 12:05

Matrix: Solid

Date Received: 09/11/15 13:00

Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	140		2.5	0.50	mg/L		09/18/15 09:30	09/18/15 20:11	1
Chromium	0.012	J	0.025	0.010	mg/L		09/18/15 09:30	09/18/15 20:11	1
Cobalt	0.43		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 20:11	1
Copper	0.010	J	0.025	0.010	mg/L		09/18/15 09:30	09/18/15 20:11	1
Iron	1.8		0.20	0.20	mg/L		09/18/15 09:30	09/18/15 20:11	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/18/15 09:30	09/18/15 20:11	1
Magnesium	65		2.5	0.50	mg/L		09/18/15 09:30	09/18/15 20:11	1
Manganese	0.69		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 20:11	1
Nickel	0.015	J	0.025	0.010	mg/L		09/18/15 09:30	09/18/15 20:11	1
Potassium	0.62	J	2.5	0.50	mg/L		09/18/15 09:30	09/18/15 20:11	1
Selenium	<0.050		0.050	0.020	mg/L		09/18/15 09:30	09/18/15 20:11	1
Silver	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 20:11	1
Vanadium	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 20:11	1
Zinc	0.079	J	0.10	0.020	mg/L		09/18/15 09:30	09/18/15 20:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.087		0.050	0.010	mg/L		09/15/15 17:00	09/16/15 19:52	1
Barium	0.83		0.50	0.050	mg/L		09/15/15 17:00	09/16/15 19:52	1
Beryllium	0.0073		0.0040	0.0040	mg/L		09/15/15 17:00	09/16/15 19:52	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/15/15 17:00	09/16/15 19:52	1
Calcium	18		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 19:52	1
Chromium	0.16		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 19:52	1
Cobalt	0.044		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 19:52	1
Copper	0.21		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 19:52	1
Iron	210		0.20	0.20	mg/L		09/15/15 17:00	09/16/15 19:52	1
Lead	0.11		0.0075	0.0075	mg/L		09/15/15 17:00	09/16/15 19:52	1
Magnesium	24		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 19:52	1
Manganese	1.8		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 19:52	1
Nickel	0.19		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 19:52	1
Potassium	19		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 19:52	1
Selenium	<0.050		0.050	0.020	mg/L		09/15/15 17:00	09/16/15 19:52	1
Silver	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 19:52	1
Vanadium	0.26		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 19:52	1
Zinc	0.58		0.10	0.020	mg/L		09/15/15 17:00	09/16/15 19:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/18/15 09:30	09/18/15 17:28	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/18/15 09:30	09/18/15 17:28	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/15/15 17:00	09/16/15 11:33	1
Thallium	0.0045		0.0020	0.0020	mg/L		09/15/15 17:00	09/16/15 11:33	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00032		0.00020	0.00020	mg/L		09/15/15 18:30	09/16/15 11:20	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B03 (0-2)**

**Lab Sample ID: 500-101071-3**

**Date Collected: 09/10/15 12:05**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 80.4**

**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		09/18/15 15:30	09/21/15 09:15	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.043		0.021	0.0072	mg/Kg	☼	09/16/15 15:00	09/17/15 10:34	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	09/16/15 14:15	09/16/15 16:52	1
pH	8.33		0.200	0.200	SU			09/14/15 15:32	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B04 (0-2)**

**Lab Sample ID: 500-101071-4**

**Date Collected: 09/10/15 12:15**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 80.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.028		0.028	0.0055	mg/Kg	☼	09/11/15 17:00	09/14/15 23:23	1
Benzene	<0.0071		0.0071	0.0016	mg/Kg	☼	09/11/15 17:00	09/14/15 23:23	1
Bromodichloromethane	<0.0071		0.0071	0.0012	mg/Kg	☼	09/11/15 17:00	09/14/15 23:23	1
Bromoform	<0.0071		0.0071	0.0014	mg/Kg	☼	09/11/15 17:00	09/14/15 23:23	1
Bromomethane	<0.0071	*	0.0071	0.0026	mg/Kg	☼	09/11/15 17:00	09/14/15 23:23	1
2-Butanone (MEK)	<0.0071		0.0071	0.0025	mg/Kg	☼	09/11/15 17:00	09/14/15 23:23	1
Carbon disulfide	<0.0071		0.0071	0.0026	mg/Kg	☼	09/11/15 17:00	09/14/15 23:23	1
Carbon tetrachloride	<0.0071		0.0071	0.0015	mg/Kg	☼	09/11/15 17:00	09/14/15 23:23	1
Chlorobenzene	<0.0071		0.0071	0.0017	mg/Kg	☼	09/11/15 17:00	09/14/15 23:23	1
Chloroethane	<0.0071		0.0071	0.0030	mg/Kg	☼	09/11/15 17:00	09/14/15 23:23	1
Chloroform	<0.0071		0.0071	0.0014	mg/Kg	☼	09/11/15 17:00	09/14/15 23:23	1
Chloromethane	<0.0071		0.0071	0.0017	mg/Kg	☼	09/11/15 17:00	09/14/15 23:23	1
cis-1,2-Dichloroethene	<0.0071		0.0071	0.0014	mg/Kg	☼	09/11/15 17:00	09/14/15 23:23	1
cis-1,3-Dichloropropene	<0.0071		0.0071	0.0016	mg/Kg	☼	09/11/15 17:00	09/14/15 23:23	1
Dibromochloromethane	<0.0071		0.0071	0.00082	mg/Kg	☼	09/11/15 17:00	09/14/15 23:23	1
1,1-Dichloroethane	<0.0071		0.0071	0.0015	mg/Kg	☼	09/11/15 17:00	09/14/15 23:23	1
1,2-Dichloroethane	<0.0071		0.0071	0.0011	mg/Kg	☼	09/11/15 17:00	09/14/15 23:23	1
1,1-Dichloroethene	<0.0071		0.0071	0.0026	mg/Kg	☼	09/11/15 17:00	09/14/15 23:23	1
1,2-Dichloropropane	<0.0071		0.0071	0.0019	mg/Kg	☼	09/11/15 17:00	09/14/15 23:23	1
1,3-Dichloropropene, Total	<0.0071		0.0071	0.0020	mg/Kg	☼	09/11/15 17:00	09/14/15 23:23	1
Ethylbenzene	<0.0071		0.0071	0.0018	mg/Kg	☼	09/11/15 17:00	09/14/15 23:23	1
2-Hexanone	<0.0071		0.0071	0.0022	mg/Kg	☼	09/11/15 17:00	09/14/15 23:23	1
Methylene Chloride	<0.0071		0.0071	0.0054	mg/Kg	☼	09/11/15 17:00	09/14/15 23:23	1
4-Methyl-2-pentanone (MIBK)	<0.0071		0.0071	0.0015	mg/Kg	☼	09/11/15 17:00	09/14/15 23:23	1
Methyl tert-butyl ether	<0.0071		0.0071	0.0017	mg/Kg	☼	09/11/15 17:00	09/14/15 23:23	1
Styrene	<0.0071		0.0071	0.0017	mg/Kg	☼	09/11/15 17:00	09/14/15 23:23	1
1,1,2,2-Tetrachloroethane	<0.0071		0.0071	0.0011	mg/Kg	☼	09/11/15 17:00	09/14/15 23:23	1
Tetrachloroethene	<0.0071		0.0071	0.0015	mg/Kg	☼	09/11/15 17:00	09/14/15 23:23	1
Toluene	<0.0071		0.0071	0.0025	mg/Kg	☼	09/11/15 17:00	09/14/15 23:23	1
trans-1,2-Dichloroethene	<0.0071		0.0071	0.0018	mg/Kg	☼	09/11/15 17:00	09/14/15 23:23	1
trans-1,3-Dichloropropene	<0.0071		0.0071	0.0020	mg/Kg	☼	09/11/15 17:00	09/14/15 23:23	1
1,1,1-Trichloroethane	<0.0071		0.0071	0.0016	mg/Kg	☼	09/11/15 17:00	09/14/15 23:23	1
1,1,2-Trichloroethane	<0.0071		0.0071	0.0014	mg/Kg	☼	09/11/15 17:00	09/14/15 23:23	1
Trichloroethene	<0.0071		0.0071	0.0019	mg/Kg	☼	09/11/15 17:00	09/14/15 23:23	1
Vinyl acetate	<0.0071		0.0071	0.0019	mg/Kg	☼	09/11/15 17:00	09/14/15 23:23	1
Vinyl chloride	<0.0071		0.0071	0.0017	mg/Kg	☼	09/11/15 17:00	09/14/15 23:23	1
Xylenes, Total	<0.014		0.014	0.0026	mg/Kg	☼	09/11/15 17:00	09/14/15 23:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122	09/11/15 17:00	09/14/15 23:23	1
Dibromofluoromethane	103		75 - 120	09/11/15 17:00	09/14/15 23:23	1
1,2-Dichloroethane-d4 (Surr)	123		70 - 134	09/11/15 17:00	09/14/15 23:23	1
Toluene-d8 (Surr)	112		75 - 122	09/11/15 17:00	09/14/15 23:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	09/14/15 07:43	09/17/15 11:49	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	09/14/15 07:43	09/17/15 11:49	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	09/14/15 07:43	09/17/15 11:49	1
<b>Benzo[a]anthracene</b>	<b>0.011</b>	<b>J</b>	0.040	0.0054	mg/Kg	☼	09/14/15 07:43	09/17/15 11:49	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B04 (0-2)**

**Lab Sample ID: 500-101071-4**

**Date Collected: 09/10/15 12:15**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 80.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.018</b>	<b>J</b>	0.040	0.0078	mg/Kg	☼	09/14/15 07:43	09/17/15 11:49	1
Benzo[b]fluoranthene	<0.040		0.040	0.0086	mg/Kg	☼	09/14/15 07:43	09/17/15 11:49	1
<b>Benzo[g,h,i]perylene</b>	<b>0.045</b>		0.040	0.013	mg/Kg	☼	09/14/15 07:43	09/17/15 11:49	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	09/14/15 07:43	09/17/15 11:49	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	09/14/15 07:43	09/17/15 11:49	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	09/14/15 07:43	09/17/15 11:49	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	09/14/15 07:43	09/17/15 11:49	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	09/14/15 07:43	09/17/15 11:49	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	09/14/15 07:43	09/17/15 11:49	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	09/14/15 07:43	09/17/15 11:49	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	09/14/15 07:43	09/17/15 11:49	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	09/14/15 07:43	09/17/15 11:49	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	09/14/15 07:43	09/17/15 11:49	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	09/14/15 07:43	09/17/15 11:49	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	09/14/15 07:43	09/17/15 11:49	1
<b>Chrysene</b>	<b>0.017</b>	<b>J</b>	0.040	0.011	mg/Kg	☼	09/14/15 07:43	09/17/15 11:49	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	09/14/15 07:43	09/17/15 11:49	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	09/14/15 07:43	09/17/15 11:49	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	09/14/15 07:43	09/17/15 11:49	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	09/14/15 07:43	09/17/15 11:49	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	09/14/15 07:43	09/17/15 11:49	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	09/14/15 07:43	09/17/15 11:49	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	09/14/15 07:43	09/17/15 11:49	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	09/14/15 07:43	09/17/15 11:49	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	09/14/15 07:43	09/17/15 11:49	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	09/14/15 07:43	09/17/15 11:49	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	09/14/15 07:43	09/17/15 11:49	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	09/14/15 07:43	09/17/15 11:49	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	09/14/15 07:43	09/17/15 11:49	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	09/14/15 07:43	09/17/15 11:49	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	09/14/15 07:43	09/17/15 11:49	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	09/14/15 07:43	09/17/15 11:49	1
<b>Fluoranthene</b>	<b>0.020</b>	<b>J</b>	0.040	0.0074	mg/Kg	☼	09/14/15 07:43	09/17/15 11:49	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	09/14/15 07:43	09/17/15 11:49	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	09/14/15 07:43	09/17/15 11:49	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	09/14/15 07:43	09/17/15 11:49	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	09/14/15 07:43	09/17/15 11:49	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	09/14/15 07:43	09/17/15 11:49	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.014</b>	<b>J</b>	0.040	0.010	mg/Kg	☼	09/14/15 07:43	09/17/15 11:49	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	09/14/15 07:43	09/17/15 11:49	1
2-Methylnaphthalene	<0.040		0.040	0.0074	mg/Kg	☼	09/14/15 07:43	09/17/15 11:49	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	09/14/15 07:43	09/17/15 11:49	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	09/14/15 07:43	09/17/15 11:49	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	09/14/15 07:43	09/17/15 11:49	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	09/14/15 07:43	09/17/15 11:49	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	09/14/15 07:43	09/17/15 11:49	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	09/14/15 07:43	09/17/15 11:49	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	09/14/15 07:43	09/17/15 11:49	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	09/14/15 07:43	09/17/15 11:49	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B04 (0-2)**

**Lab Sample ID: 500-101071-4**

**Date Collected: 09/10/15 12:15**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**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	<0.81		0.81	0.38	mg/Kg	☼	09/14/15 07:43	09/17/15 11:49	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	09/14/15 07:43	09/17/15 11:49	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	09/14/15 07:43	09/17/15 11:49	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	09/14/15 07:43	09/17/15 11:49	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	☼	09/14/15 07:43	09/17/15 11:49	1
<b>Phenanthrene</b>	<b>0.012</b>	<b>J</b>	0.040	0.0056	mg/Kg	☼	09/14/15 07:43	09/17/15 11:49	1
Phenol	<0.20		0.20	0.089	mg/Kg	☼	09/14/15 07:43	09/17/15 11:49	1
<b>Pyrene</b>	<b>0.021</b>	<b>J</b>	0.040	0.0080	mg/Kg	☼	09/14/15 07:43	09/17/15 11:49	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	09/14/15 07:43	09/17/15 11:49	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	09/14/15 07:43	09/17/15 11:49	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	09/14/15 07:43	09/17/15 11:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	102		25 - 119	09/14/15 07:43	09/17/15 11:49	1
2-Fluorophenol	49		25 - 110	09/14/15 07:43	09/17/15 11:49	1
Nitrobenzene-d5	99		25 - 115	09/14/15 07:43	09/17/15 11:49	1
Phenol-d5	97		31 - 110	09/14/15 07:43	09/17/15 11:49	1
Terphenyl-d14	113		36 - 134	09/14/15 07:43	09/17/15 11:49	1
2,4,6-Tribromophenol	53		35 - 137	09/14/15 07:43	09/17/15 11:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.26</b>	<b>J</b>	1.2	0.26	mg/Kg	☼	09/16/15 12:00	09/16/15 17:54	1
<b>Arsenic</b>	<b>12</b>		0.61	0.28	mg/Kg	☼	09/16/15 12:00	09/16/15 17:54	1
<b>Barium</b>	<b>85</b>		0.61	0.11	mg/Kg	☼	09/16/15 12:00	09/16/15 17:54	1
<b>Beryllium</b>	<b>0.74</b>		0.25	0.053	mg/Kg	☼	09/16/15 12:00	09/16/15 17:54	1
<b>Cadmium</b>	<b>0.27</b>	<b>B</b>	0.12	0.036	mg/Kg	☼	09/16/15 12:00	09/16/15 17:54	1
<b>Chromium</b>	<b>15</b>		0.61	0.11	mg/Kg	☼	09/16/15 12:00	09/16/15 17:54	1
<b>Cobalt</b>	<b>12</b>		0.31	0.069	mg/Kg	☼	09/16/15 12:00	09/16/15 17:54	1
<b>Copper</b>	<b>26</b>		0.61	0.13	mg/Kg	☼	09/16/15 12:00	09/16/15 17:54	1
<b>Iron</b>	<b>25000</b>	<b>B</b>	12	4.7	mg/Kg	☼	09/16/15 12:00	09/16/15 17:54	1
<b>Lead</b>	<b>22</b>		0.31	0.15	mg/Kg	☼	09/16/15 12:00	09/16/15 17:54	1
<b>Magnesium</b>	<b>5600</b>		6.1	2.5	mg/Kg	☼	09/16/15 12:00	09/16/15 17:54	1
<b>Calcium</b>	<b>7200</b>		12	4.0	mg/Kg	☼	09/16/15 12:00	09/16/15 17:54	1
<b>Manganese</b>	<b>480</b>		0.61	0.12	mg/Kg	☼	09/16/15 12:00	09/16/15 17:54	1
<b>Nickel</b>	<b>28</b>		0.61	0.17	mg/Kg	☼	09/16/15 12:00	09/16/15 17:54	1
Selenium	<0.61		0.61	0.30	mg/Kg	☼	09/16/15 12:00	09/16/15 17:54	1
Silver	<0.31		0.31	0.072	mg/Kg	☼	09/16/15 12:00	09/16/15 17:54	1
Thallium	<0.61		0.61	0.30	mg/Kg	☼	09/16/15 12:00	09/16/15 17:54	1
<b>Vanadium</b>	<b>26</b>		0.31	0.090	mg/Kg	☼	09/16/15 12:00	09/16/15 17:54	1
<b>Zinc</b>	<b>76</b>	<b>B</b>	1.2	0.39	mg/Kg	☼	09/16/15 12:00	09/17/15 19:02	1
<b>Potassium</b>	<b>1300</b>		31	5.0	mg/Kg	☼	09/16/15 12:00	09/16/15 17:54	1
<b>Sodium</b>	<b>4100</b>		61	8.1	mg/Kg	☼	09/16/15 12:00	09/16/15 17:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/18/15 09:30	09/18/15 20:18	1
<b>Barium</b>	<b>0.46</b>	<b>J</b>	0.50	0.050	mg/L		09/18/15 09:30	09/18/15 20:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/18/15 09:30	09/18/15 20:18	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/18/15 09:30	09/18/15 20:18	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B04 (0-2)**

**Lab Sample ID: 500-101071-4**

**Date Collected: 09/10/15 12:15**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 80.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>260</b>		2.5	0.50	mg/L		09/18/15 09:30	09/18/15 20:18	1
Chromium	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 20:18	1
<b>Cobalt</b>	<b>0.58</b>		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 20:18	1
Copper	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 20:18	1
<b>Iron</b>	<b>1.6</b>		0.20	0.20	mg/L		09/18/15 09:30	09/18/15 20:18	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/18/15 09:30	09/18/15 20:18	1
<b>Magnesium</b>	<b>130</b>		2.5	0.50	mg/L		09/18/15 09:30	09/18/15 20:18	1
<b>Manganese</b>	<b>0.76</b>		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 20:18	1
<b>Nickel</b>	<b>0.019</b>	J	0.025	0.010	mg/L		09/18/15 09:30	09/18/15 20:18	1
<b>Potassium</b>	<b>1.9</b>	J	2.5	0.50	mg/L		09/18/15 09:30	09/18/15 20:18	1
Selenium	<0.050		0.050	0.020	mg/L		09/18/15 09:30	09/18/15 20:18	1
Silver	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 20:18	1
Vanadium	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 20:18	1
<b>Zinc</b>	<b>0.091</b>	J	0.10	0.020	mg/L		09/18/15 09:30	09/18/15 20:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.078</b>		0.050	0.010	mg/L		09/15/15 17:00	09/16/15 19:59	1
<b>Barium</b>	<b>0.72</b>		0.50	0.050	mg/L		09/15/15 17:00	09/16/15 19:59	1
<b>Beryllium</b>	<b>0.0068</b>		0.0040	0.0040	mg/L		09/15/15 17:00	09/16/15 19:59	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/15/15 17:00	09/16/15 19:59	1
<b>Calcium</b>	<b>30</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 19:59	1
<b>Chromium</b>	<b>0.16</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 19:59	1
<b>Cobalt</b>	<b>0.035</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 19:59	1
<b>Copper</b>	<b>0.18</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 19:59	1
<b>Iron</b>	<b>190</b>		0.20	0.20	mg/L		09/15/15 17:00	09/16/15 19:59	1
<b>Lead</b>	<b>0.15</b>		0.0075	0.0075	mg/L		09/15/15 17:00	09/16/15 19:59	1
<b>Magnesium</b>	<b>27</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 19:59	1
<b>Manganese</b>	<b>1.3</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 19:59	1
<b>Nickel</b>	<b>0.13</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 19:59	1
<b>Potassium</b>	<b>23</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 19:59	1
Selenium	<0.050		0.050	0.020	mg/L		09/15/15 17:00	09/16/15 19:59	1
Silver	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 19:59	1
<b>Vanadium</b>	<b>0.28</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 19:59	1
<b>Zinc</b>	<b>1.8</b>		0.10	0.020	mg/L		09/15/15 17:00	09/16/15 19:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/18/15 09:30	09/18/15 17:29	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/18/15 09:30	09/18/15 17:29	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/15/15 17:00	09/16/15 11:35	1
<b>Thallium</b>	<b>0.0033</b>		0.0020	0.0020	mg/L		09/15/15 17:00	09/16/15 11:35	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/15/15 18:30	09/16/15 11:22	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B04 (0-2)**

**Lab Sample ID: 500-101071-4**

**Date Collected: 09/10/15 12:15**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 80.5**

**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		09/18/15 15:30	09/21/15 09:17	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.047		0.018	0.0063	mg/Kg	☼	09/16/15 15:00	09/17/15 10:36	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.61		0.61	0.20	mg/Kg	☼	09/16/15 14:15	09/16/15 16:53	1
pH	8.07		0.200	0.200	SU			09/14/15 15:34	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B05 (0-2)**

**Lab Sample ID: 500-101071-5**

**Date Collected: 09/10/15 12:30**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 81.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.023		0.023	0.0044	mg/Kg	☼	09/11/15 17:00	09/14/15 23:48	1
Benzene	<0.0056		0.0056	0.0013	mg/Kg	☼	09/11/15 17:00	09/14/15 23:48	1
Bromodichloromethane	<0.0056		0.0056	0.00095	mg/Kg	☼	09/11/15 17:00	09/14/15 23:48	1
Bromoform	<0.0056		0.0056	0.0012	mg/Kg	☼	09/11/15 17:00	09/14/15 23:48	1
Bromomethane	<0.0056 *		0.0056	0.0021	mg/Kg	☼	09/11/15 17:00	09/14/15 23:48	1
2-Butanone (MEK)	<0.0056		0.0056	0.0020	mg/Kg	☼	09/11/15 17:00	09/14/15 23:48	1
Carbon disulfide	<0.0056		0.0056	0.0021	mg/Kg	☼	09/11/15 17:00	09/14/15 23:48	1
Carbon tetrachloride	<0.0056		0.0056	0.0012	mg/Kg	☼	09/11/15 17:00	09/14/15 23:48	1
Chlorobenzene	<0.0056		0.0056	0.0013	mg/Kg	☼	09/11/15 17:00	09/14/15 23:48	1
Chloroethane	<0.0056		0.0056	0.0024	mg/Kg	☼	09/11/15 17:00	09/14/15 23:48	1
Chloroform	<0.0056		0.0056	0.0011	mg/Kg	☼	09/11/15 17:00	09/14/15 23:48	1
Chloromethane	<0.0056		0.0056	0.0014	mg/Kg	☼	09/11/15 17:00	09/14/15 23:48	1
cis-1,2-Dichloroethene	<0.0056		0.0056	0.0012	mg/Kg	☼	09/11/15 17:00	09/14/15 23:48	1
cis-1,3-Dichloropropene	<0.0056		0.0056	0.0013	mg/Kg	☼	09/11/15 17:00	09/14/15 23:48	1
Dibromochloromethane	<0.0056		0.0056	0.00065	mg/Kg	☼	09/11/15 17:00	09/14/15 23:48	1
1,1-Dichloroethane	<0.0056		0.0056	0.0012	mg/Kg	☼	09/11/15 17:00	09/14/15 23:48	1
1,2-Dichloroethane	<0.0056		0.0056	0.00084	mg/Kg	☼	09/11/15 17:00	09/14/15 23:48	1
1,1-Dichloroethene	<0.0056		0.0056	0.0021	mg/Kg	☼	09/11/15 17:00	09/14/15 23:48	1
1,2-Dichloropropane	<0.0056		0.0056	0.0015	mg/Kg	☼	09/11/15 17:00	09/14/15 23:48	1
1,3-Dichloropropane, Total	<0.0056		0.0056	0.0016	mg/Kg	☼	09/11/15 17:00	09/14/15 23:48	1
Ethylbenzene	<0.0056		0.0056	0.0014	mg/Kg	☼	09/11/15 17:00	09/14/15 23:48	1
2-Hexanone	<0.0056		0.0056	0.0017	mg/Kg	☼	09/11/15 17:00	09/14/15 23:48	1
Methylene Chloride	<0.0056		0.0056	0.0043	mg/Kg	☼	09/11/15 17:00	09/14/15 23:48	1
4-Methyl-2-pentanone (MIBK)	<0.0056		0.0056	0.0012	mg/Kg	☼	09/11/15 17:00	09/14/15 23:48	1
Methyl tert-butyl ether	<0.0056		0.0056	0.0013	mg/Kg	☼	09/11/15 17:00	09/14/15 23:48	1
Styrene	<0.0056		0.0056	0.0013	mg/Kg	☼	09/11/15 17:00	09/14/15 23:48	1
1,1,2,2-Tetrachloroethane	<0.0056		0.0056	0.00090	mg/Kg	☼	09/11/15 17:00	09/14/15 23:48	1
Tetrachloroethene	<0.0056		0.0056	0.0012	mg/Kg	☼	09/11/15 17:00	09/14/15 23:48	1
Toluene	<0.0056		0.0056	0.0020	mg/Kg	☼	09/11/15 17:00	09/14/15 23:48	1
trans-1,2-Dichloroethene	<0.0056		0.0056	0.0014	mg/Kg	☼	09/11/15 17:00	09/14/15 23:48	1
trans-1,3-Dichloropropene	<0.0056		0.0056	0.0016	mg/Kg	☼	09/11/15 17:00	09/14/15 23:48	1
1,1,1-Trichloroethane	<0.0056		0.0056	0.0013	mg/Kg	☼	09/11/15 17:00	09/14/15 23:48	1
1,1,2-Trichloroethane	<0.0056		0.0056	0.0011	mg/Kg	☼	09/11/15 17:00	09/14/15 23:48	1
Trichloroethene	<0.0056		0.0056	0.0015	mg/Kg	☼	09/11/15 17:00	09/14/15 23:48	1
Vinyl acetate	<0.0056		0.0056	0.0015	mg/Kg	☼	09/11/15 17:00	09/14/15 23:48	1
Vinyl chloride	<0.0056		0.0056	0.0013	mg/Kg	☼	09/11/15 17:00	09/14/15 23:48	1
Xylenes, Total	<0.011		0.011	0.0021	mg/Kg	☼	09/11/15 17:00	09/14/15 23:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 122	09/11/15 17:00	09/14/15 23:48	1
Dibromofluoromethane	99		75 - 120	09/11/15 17:00	09/14/15 23:48	1
1,2-Dichloroethane-d4 (Surr)	131		70 - 134	09/11/15 17:00	09/14/15 23:48	1
Toluene-d8 (Surr)	114		75 - 122	09/11/15 17:00	09/14/15 23:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	09/14/15 07:43	09/16/15 18:47	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	09/14/15 07:43	09/16/15 18:47	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	09/14/15 07:43	09/16/15 18:47	1
Benzo[a]anthracene	<0.039		0.039	0.0052	mg/Kg	☼	09/14/15 07:43	09/16/15 18:47	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B05 (0-2)**

**Lab Sample ID: 500-101071-5**

**Date Collected: 09/10/15 12:30**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 81.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.039		0.039	0.0075	mg/Kg	☼	09/14/15 07:43	09/16/15 18:47	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	09/14/15 07:43	09/16/15 18:47	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	09/14/15 07:43	09/16/15 18:47	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	09/14/15 07:43	09/16/15 18:47	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	09/14/15 07:43	09/16/15 18:47	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	09/14/15 07:43	09/16/15 18:47	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	09/14/15 07:43	09/16/15 18:47	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	09/14/15 07:43	09/16/15 18:47	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	09/14/15 07:43	09/16/15 18:47	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	09/14/15 07:43	09/16/15 18:47	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	09/14/15 07:43	09/16/15 18:47	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	09/14/15 07:43	09/16/15 18:47	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	09/14/15 07:43	09/16/15 18:47	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	09/14/15 07:43	09/16/15 18:47	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	09/14/15 07:43	09/16/15 18:47	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	09/14/15 07:43	09/16/15 18:47	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	09/14/15 07:43	09/16/15 18:47	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	09/14/15 07:43	09/16/15 18:47	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	09/14/15 07:43	09/16/15 18:47	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	09/14/15 07:43	09/16/15 18:47	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	09/14/15 07:43	09/16/15 18:47	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	09/14/15 07:43	09/16/15 18:47	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	09/14/15 07:43	09/16/15 18:47	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	09/14/15 07:43	09/16/15 18:47	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	09/14/15 07:43	09/16/15 18:47	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	09/14/15 07:43	09/16/15 18:47	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	09/14/15 07:43	09/16/15 18:47	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	09/14/15 07:43	09/16/15 18:47	1
2,4-Dinitrophenol	<0.78		0.78	0.69	mg/Kg	☼	09/14/15 07:43	09/16/15 18:47	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	09/14/15 07:43	09/16/15 18:47	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	09/14/15 07:43	09/16/15 18:47	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	09/14/15 07:43	09/16/15 18:47	1
Fluoranthene	<0.039		0.039	0.0072	mg/Kg	☼	09/14/15 07:43	09/16/15 18:47	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	09/14/15 07:43	09/16/15 18:47	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	09/14/15 07:43	09/16/15 18:47	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	09/14/15 07:43	09/16/15 18:47	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	09/14/15 07:43	09/16/15 18:47	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	09/14/15 07:43	09/16/15 18:47	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	09/14/15 07:43	09/16/15 18:47	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	09/14/15 07:43	09/16/15 18:47	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	09/14/15 07:43	09/16/15 18:47	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	09/14/15 07:43	09/16/15 18:47	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	09/14/15 07:43	09/16/15 18:47	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	09/14/15 07:43	09/16/15 18:47	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	09/14/15 07:43	09/16/15 18:47	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	09/14/15 07:43	09/16/15 18:47	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	09/14/15 07:43	09/16/15 18:47	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	09/14/15 07:43	09/16/15 18:47	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	09/14/15 07:43	09/16/15 18:47	1

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B05 (0-2)**

**Lab Sample ID: 500-101071-5**

**Date Collected: 09/10/15 12:30**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 81.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	09/14/15 07:43	09/16/15 18:47	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	09/14/15 07:43	09/16/15 18:47	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	09/14/15 07:43	09/16/15 18:47	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	09/14/15 07:43	09/16/15 18:47	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	09/14/15 07:43	09/16/15 18:47	1
Phenanthrene	<0.039		0.039	0.0054	mg/Kg	☼	09/14/15 07:43	09/16/15 18:47	1
Phenol	<0.20		0.20	0.086	mg/Kg	☼	09/14/15 07:43	09/16/15 18:47	1
Pyrene	<0.039		0.039	0.0077	mg/Kg	☼	09/14/15 07:43	09/16/15 18:47	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/14/15 07:43	09/16/15 18:47	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	09/14/15 07:43	09/16/15 18:47	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	09/14/15 07:43	09/16/15 18:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	81		25 - 119	09/14/15 07:43	09/16/15 18:47	1
2-Fluorophenol	80		25 - 110	09/14/15 07:43	09/16/15 18:47	1
Nitrobenzene-d5	92		25 - 115	09/14/15 07:43	09/16/15 18:47	1
Phenol-d5	84		31 - 110	09/14/15 07:43	09/16/15 18:47	1
Terphenyl-d14	150	X	36 - 134	09/14/15 07:43	09/16/15 18:47	1
2,4,6-Tribromophenol	64		35 - 137	09/14/15 07:43	09/16/15 18:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.32</b>	<b>J</b>	1.1	0.24	mg/Kg	☼	09/16/15 12:00	09/16/15 18:07	1
<b>Arsenic</b>	<b>9.0</b>		0.57	0.27	mg/Kg	☼	09/16/15 12:00	09/16/15 18:07	1
<b>Barium</b>	<b>94</b>		0.57	0.11	mg/Kg	☼	09/16/15 12:00	09/16/15 18:07	1
<b>Beryllium</b>	<b>0.70</b>		0.23	0.050	mg/Kg	☼	09/16/15 12:00	09/16/15 18:07	1
<b>Cadmium</b>	<b>0.27</b>	<b>B</b>	0.11	0.033	mg/Kg	☼	09/16/15 12:00	09/16/15 18:07	1
<b>Chromium</b>	<b>13</b>		0.57	0.099	mg/Kg	☼	09/16/15 12:00	09/16/15 18:07	1
<b>Cobalt</b>	<b>10</b>		0.29	0.065	mg/Kg	☼	09/16/15 12:00	09/16/15 18:07	1
<b>Copper</b>	<b>19</b>		0.57	0.12	mg/Kg	☼	09/16/15 12:00	09/16/15 18:07	1
<b>Iron</b>	<b>20000</b>	<b>B</b>	11	4.4	mg/Kg	☼	09/16/15 12:00	09/16/15 18:07	1
<b>Lead</b>	<b>26</b>		0.29	0.14	mg/Kg	☼	09/16/15 12:00	09/16/15 18:07	1
<b>Magnesium</b>	<b>8400</b>		5.7	2.3	mg/Kg	☼	09/16/15 12:00	09/16/15 18:07	1
<b>Calcium</b>	<b>14000</b>		11	3.7	mg/Kg	☼	09/16/15 12:00	09/16/15 18:07	1
<b>Manganese</b>	<b>570</b>		0.57	0.11	mg/Kg	☼	09/16/15 12:00	09/16/15 18:07	1
<b>Nickel</b>	<b>21</b>		0.57	0.16	mg/Kg	☼	09/16/15 12:00	09/16/15 18:07	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	09/16/15 12:00	09/16/15 18:07	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	09/16/15 12:00	09/16/15 18:07	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	09/16/15 12:00	09/16/15 18:07	1
<b>Vanadium</b>	<b>22</b>		0.29	0.084	mg/Kg	☼	09/16/15 12:00	09/16/15 18:07	1
<b>Zinc</b>	<b>64</b>	<b>B</b>	1.1	0.36	mg/Kg	☼	09/16/15 12:00	09/17/15 19:24	1
<b>Potassium</b>	<b>1200</b>		29	4.7	mg/Kg	☼	09/16/15 12:00	09/16/15 18:07	1
<b>Sodium</b>	<b>2700</b>		57	7.6	mg/Kg	☼	09/16/15 12:00	09/17/15 19:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/18/15 09:30	09/18/15 20:25	1
<b>Barium</b>	<b>0.44</b>	<b>J</b>	0.50	0.050	mg/L		09/18/15 09:30	09/18/15 20:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/18/15 09:30	09/18/15 20:25	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/18/15 09:30	09/18/15 20:25	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B05 (0-2)**

**Lab Sample ID: 500-101071-5**

**Date Collected: 09/10/15 12:30**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 81.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	200		2.5	0.50	mg/L		09/18/15 09:30	09/18/15 20:25	1
Chromium	0.23		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 20:25	1
Cobalt	1.3		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 20:25	1
Copper	0.024	J	0.025	0.010	mg/L		09/18/15 09:30	09/18/15 20:25	1
Iron	16		0.20	0.20	mg/L		09/18/15 09:30	09/18/15 20:25	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/18/15 09:30	09/18/15 20:25	1
Magnesium	100		2.5	0.50	mg/L		09/18/15 09:30	09/18/15 20:25	1
Manganese	4.8		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 20:25	1
Nickel	0.069		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 20:25	1
Potassium	1.8	J	2.5	0.50	mg/L		09/18/15 09:30	09/18/15 20:25	1
Selenium	<0.050		0.050	0.020	mg/L		09/18/15 09:30	09/18/15 20:25	1
Silver	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 20:25	1
Vanadium	0.076		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 20:25	1
Zinc	0.15		0.10	0.020	mg/L		09/18/15 09:30	09/18/15 20:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.075		0.050	0.010	mg/L		09/15/15 17:00	09/16/15 20:05	1
Barium	0.86		0.50	0.050	mg/L		09/15/15 17:00	09/16/15 20:05	1
Beryllium	0.0076		0.0040	0.0040	mg/L		09/15/15 17:00	09/16/15 20:05	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/15/15 17:00	09/16/15 20:05	1
Calcium	30		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 20:05	1
Chromium	0.18		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 20:05	1
Cobalt	0.056		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 20:05	1
Copper	0.24		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 20:05	1
Iron	210		0.20	0.20	mg/L		09/15/15 17:00	09/16/15 20:05	1
Lead	0.17		0.0075	0.0075	mg/L		09/15/15 17:00	09/16/15 20:05	1
Magnesium	28		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 20:05	1
Manganese	1.9		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 20:05	1
Nickel	0.16		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 20:05	1
Potassium	19		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 20:05	1
Selenium	<0.050		0.050	0.020	mg/L		09/15/15 17:00	09/16/15 20:05	1
Silver	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 20:05	1
Vanadium	0.31		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 20:05	1
Zinc	0.64		0.10	0.020	mg/L		09/15/15 17:00	09/16/15 20:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/18/15 09:30	09/18/15 17:32	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/18/15 09:30	09/18/15 17:32	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/15/15 17:00	09/16/15 11:36	1
Thallium	0.0030		0.0020	0.0020	mg/L		09/15/15 17:00	09/16/15 11:36	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00059		0.00020	0.00020	mg/L		09/15/15 18:30	09/16/15 11:24	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B05 (0-2)**

**Lab Sample ID: 500-101071-5**

**Date Collected: 09/10/15 12:30**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 81.2**

**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		09/18/15 15:30	09/21/15 09:23	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<b>0.033</b>		0.020	0.0068	mg/Kg	☼	09/16/15 15:00	09/17/15 10:37	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.61		0.61	0.20	mg/Kg	☼	09/16/15 14:15	09/16/15 16:53	1
pH	<b>8.61</b>		0.200	0.200	SU			09/14/15 15:37	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B06 (0-2)**

**Lab Sample ID: 500-101071-6**

**Date Collected: 09/10/15 12:45**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 84.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0039	mg/Kg	☼	09/11/15 17:00	09/15/15 00:13	1
Benzene	<0.0050		0.0050	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 00:13	1
Bromodichloromethane	<0.0050		0.0050	0.00085	mg/Kg	☼	09/11/15 17:00	09/15/15 00:13	1
Bromoform	<0.0050		0.0050	0.0010	mg/Kg	☼	09/11/15 17:00	09/15/15 00:13	1
Bromomethane	<0.0050	*	0.0050	0.0018	mg/Kg	☼	09/11/15 17:00	09/15/15 00:13	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	09/11/15 17:00	09/15/15 00:13	1
Carbon disulfide	<0.0050		0.0050	0.0018	mg/Kg	☼	09/11/15 17:00	09/15/15 00:13	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 00:13	1
Chlorobenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 00:13	1
Chloroethane	<0.0050		0.0050	0.0021	mg/Kg	☼	09/11/15 17:00	09/15/15 00:13	1
Chloroform	<0.0050		0.0050	0.00098	mg/Kg	☼	09/11/15 17:00	09/15/15 00:13	1
Chloromethane	<0.0050		0.0050	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 00:13	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	09/11/15 17:00	09/15/15 00:13	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 00:13	1
Dibromochloromethane	<0.0050		0.0050	0.00058	mg/Kg	☼	09/11/15 17:00	09/15/15 00:13	1
1,1-Dichloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	09/11/15 17:00	09/15/15 00:13	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	09/11/15 17:00	09/15/15 00:13	1
1,1-Dichloroethene	<0.0050		0.0050	0.0018	mg/Kg	☼	09/11/15 17:00	09/15/15 00:13	1
1,2-Dichloropropane	<0.0050		0.0050	0.0013	mg/Kg	☼	09/11/15 17:00	09/15/15 00:13	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.0014	mg/Kg	☼	09/11/15 17:00	09/15/15 00:13	1
Ethylbenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 00:13	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg	☼	09/11/15 17:00	09/15/15 00:13	1
Methylene Chloride	<0.0050		0.0050	0.0038	mg/Kg	☼	09/11/15 17:00	09/15/15 00:13	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0010	mg/Kg	☼	09/11/15 17:00	09/15/15 00:13	1
Methyl tert-butyl ether	<0.0050		0.0050	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 00:13	1
Styrene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 00:13	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00080	mg/Kg	☼	09/11/15 17:00	09/15/15 00:13	1
Tetrachloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	09/11/15 17:00	09/15/15 00:13	1
Toluene	<0.0050		0.0050	0.0017	mg/Kg	☼	09/11/15 17:00	09/15/15 00:13	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.0013	mg/Kg	☼	09/11/15 17:00	09/15/15 00:13	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0014	mg/Kg	☼	09/11/15 17:00	09/15/15 00:13	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 00:13	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00097	mg/Kg	☼	09/11/15 17:00	09/15/15 00:13	1
Trichloroethene	<0.0050		0.0050	0.0014	mg/Kg	☼	09/11/15 17:00	09/15/15 00:13	1
Vinyl acetate	<0.0050		0.0050	0.0013	mg/Kg	☼	09/11/15 17:00	09/15/15 00:13	1
Vinyl chloride	<0.0050		0.0050	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 00:13	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg	☼	09/11/15 17:00	09/15/15 00:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122	09/11/15 17:00	09/15/15 00:13	1
Dibromofluoromethane	106		75 - 120	09/11/15 17:00	09/15/15 00:13	1
1,2-Dichloroethane-d4 (Surr)	123		70 - 134	09/11/15 17:00	09/15/15 00:13	1
Toluene-d8 (Surr)	112		75 - 122	09/11/15 17:00	09/15/15 00:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	09/14/15 07:43	09/17/15 12:12	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	09/14/15 07:43	09/17/15 12:12	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	09/14/15 07:43	09/17/15 12:12	1
<b>Benzo[a]anthracene</b>	<b>0.0082</b>	<b>J</b>	0.038	0.0052	mg/Kg	☼	09/14/15 07:43	09/17/15 12:12	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B06 (0-2)**

**Lab Sample ID: 500-101071-6**

**Date Collected: 09/10/15 12:45**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 84.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.021</b>	<b>J</b>	0.038	0.0075	mg/Kg	☼	09/14/15 07:43	09/17/15 12:12	1
<b>Benzo[b]fluoranthene</b>	<b>0.026</b>	<b>J</b>	0.038	0.0083	mg/Kg	☼	09/14/15 07:43	09/17/15 12:12	1
<b>Benzo[g,h,i]perylene</b>	<b>0.024</b>	<b>J</b>	0.038	0.012	mg/Kg	☼	09/14/15 07:43	09/17/15 12:12	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	09/14/15 07:43	09/17/15 12:12	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	09/14/15 07:43	09/17/15 12:12	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	09/14/15 07:43	09/17/15 12:12	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	09/14/15 07:43	09/17/15 12:12	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	09/14/15 07:43	09/17/15 12:12	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	09/14/15 07:43	09/17/15 12:12	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	09/14/15 07:43	09/17/15 12:12	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	09/14/15 07:43	09/17/15 12:12	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	09/14/15 07:43	09/17/15 12:12	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	09/14/15 07:43	09/17/15 12:12	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	09/14/15 07:43	09/17/15 12:12	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	09/14/15 07:43	09/17/15 12:12	1
<b>Chrysene</b>	<b>0.016</b>	<b>J</b>	0.038	0.011	mg/Kg	☼	09/14/15 07:43	09/17/15 12:12	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	09/14/15 07:43	09/17/15 12:12	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/14/15 07:43	09/17/15 12:12	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	09/14/15 07:43	09/17/15 12:12	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/14/15 07:43	09/17/15 12:12	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	09/14/15 07:43	09/17/15 12:12	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	09/14/15 07:43	09/17/15 12:12	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	09/14/15 07:43	09/17/15 12:12	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	09/14/15 07:43	09/17/15 12:12	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	09/14/15 07:43	09/17/15 12:12	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/14/15 07:43	09/17/15 12:12	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	09/14/15 07:43	09/17/15 12:12	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	09/14/15 07:43	09/17/15 12:12	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	09/14/15 07:43	09/17/15 12:12	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	09/14/15 07:43	09/17/15 12:12	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	09/14/15 07:43	09/17/15 12:12	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	09/14/15 07:43	09/17/15 12:12	1
<b>Fluoranthene</b>	<b>0.013</b>	<b>J</b>	0.038	0.0072	mg/Kg	☼	09/14/15 07:43	09/17/15 12:12	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	09/14/15 07:43	09/17/15 12:12	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	09/14/15 07:43	09/17/15 12:12	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	09/14/15 07:43	09/17/15 12:12	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	09/14/15 07:43	09/17/15 12:12	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	09/14/15 07:43	09/17/15 12:12	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.011</b>	<b>J</b>	0.038	0.010	mg/Kg	☼	09/14/15 07:43	09/17/15 12:12	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	09/14/15 07:43	09/17/15 12:12	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	09/14/15 07:43	09/17/15 12:12	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	09/14/15 07:43	09/17/15 12:12	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	09/14/15 07:43	09/17/15 12:12	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	09/14/15 07:43	09/17/15 12:12	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	09/14/15 07:43	09/17/15 12:12	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	09/14/15 07:43	09/17/15 12:12	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	09/14/15 07:43	09/17/15 12:12	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	09/14/15 07:43	09/17/15 12:12	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	09/14/15 07:43	09/17/15 12:12	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B06 (0-2)**

**Lab Sample ID: 500-101071-6**

**Date Collected: 09/10/15 12:45**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 84.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	09/14/15 07:43	09/17/15 12:12	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	09/14/15 07:43	09/17/15 12:12	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	09/14/15 07:43	09/17/15 12:12	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	09/14/15 07:43	09/17/15 12:12	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	09/14/15 07:43	09/17/15 12:12	1
Phenanthrene	<0.038		0.038	0.0054	mg/Kg	☼	09/14/15 07:43	09/17/15 12:12	1
Phenol	<0.19		0.19	0.086	mg/Kg	☼	09/14/15 07:43	09/17/15 12:12	1
<b>Pyrene</b>	<b>0.015</b>	<b>J</b>	0.038	0.0077	mg/Kg	☼	09/14/15 07:43	09/17/15 12:12	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/14/15 07:43	09/17/15 12:12	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	09/14/15 07:43	09/17/15 12:12	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	09/14/15 07:43	09/17/15 12:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	98		25 - 119	09/14/15 07:43	09/17/15 12:12	1
2-Fluorophenol	61		25 - 110	09/14/15 07:43	09/17/15 12:12	1
Nitrobenzene-d5	95		25 - 115	09/14/15 07:43	09/17/15 12:12	1
Phenol-d5	99		31 - 110	09/14/15 07:43	09/17/15 12:12	1
Terphenyl-d14	114		36 - 134	09/14/15 07:43	09/17/15 12:12	1
2,4,6-Tribromophenol	55		35 - 137	09/14/15 07:43	09/17/15 12:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.38</b>	<b>J</b>	1.2	0.24	mg/Kg	☼	09/16/15 12:00	09/16/15 18:12	1
<b>Arsenic</b>	<b>7.6</b>		0.59	0.27	mg/Kg	☼	09/16/15 12:00	09/16/15 18:12	1
<b>Barium</b>	<b>94</b>		0.59	0.11	mg/Kg	☼	09/16/15 12:00	09/16/15 18:12	1
<b>Beryllium</b>	<b>0.69</b>		0.24	0.051	mg/Kg	☼	09/16/15 12:00	09/16/15 18:12	1
<b>Cadmium</b>	<b>0.23</b>	<b>B</b>	0.12	0.034	mg/Kg	☼	09/16/15 12:00	09/16/15 18:12	1
<b>Chromium</b>	<b>14</b>		0.59	0.10	mg/Kg	☼	09/16/15 12:00	09/16/15 18:12	1
<b>Cobalt</b>	<b>11</b>		0.29	0.067	mg/Kg	☼	09/16/15 12:00	09/16/15 18:12	1
<b>Copper</b>	<b>21</b>		0.59	0.13	mg/Kg	☼	09/16/15 12:00	09/16/15 18:12	1
<b>Iron</b>	<b>19000</b>	<b>B</b>	12	4.5	mg/Kg	☼	09/16/15 12:00	09/16/15 18:12	1
<b>Lead</b>	<b>22</b>		0.29	0.15	mg/Kg	☼	09/16/15 12:00	09/16/15 18:12	1
<b>Magnesium</b>	<b>7800</b>		5.9	2.4	mg/Kg	☼	09/16/15 12:00	09/16/15 18:12	1
<b>Calcium</b>	<b>12000</b>		12	3.8	mg/Kg	☼	09/16/15 12:00	09/16/15 18:12	1
<b>Manganese</b>	<b>500</b>		0.59	0.12	mg/Kg	☼	09/16/15 12:00	09/16/15 18:12	1
<b>Nickel</b>	<b>20</b>		0.59	0.16	mg/Kg	☼	09/16/15 12:00	09/16/15 18:12	1
<b>Selenium</b>	<b>0.45</b>	<b>J</b>	0.59	0.29	mg/Kg	☼	09/16/15 12:00	09/16/15 18:12	1
Silver	<0.29		0.29	0.069	mg/Kg	☼	09/16/15 12:00	09/16/15 18:12	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	09/16/15 12:00	09/16/15 18:12	1
<b>Vanadium</b>	<b>25</b>		0.29	0.086	mg/Kg	☼	09/16/15 12:00	09/16/15 18:12	1
<b>Zinc</b>	<b>59</b>	<b>B</b>	1.2	0.37	mg/Kg	☼	09/16/15 12:00	09/17/15 19:42	1
<b>Potassium</b>	<b>1200</b>		29	4.8	mg/Kg	☼	09/16/15 12:00	09/16/15 18:12	1
<b>Sodium</b>	<b>880</b>		59	7.8	mg/Kg	☼	09/16/15 12:00	09/17/15 19:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/18/15 09:30	09/18/15 20:31	1
<b>Barium</b>	<b>0.58</b>		0.50	0.050	mg/L		09/18/15 09:30	09/18/15 20:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/18/15 09:30	09/18/15 20:31	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/18/15 09:30	09/18/15 20:31	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B06 (0-2)**

**Lab Sample ID: 500-101071-6**

**Date Collected: 09/10/15 12:45**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 84.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	210		2.5	0.50	mg/L		09/18/15 09:30	09/18/15 20:31	1
Chromium	0.028		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 20:31	1
Cobalt	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 20:31	1
Copper	0.010	J	0.025	0.010	mg/L		09/18/15 09:30	09/18/15 20:31	1
Iron	<0.20		0.20	0.20	mg/L		09/18/15 09:30	09/18/15 20:31	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/18/15 09:30	09/18/15 20:31	1
Magnesium	100		2.5	0.50	mg/L		09/18/15 09:30	09/18/15 20:31	1
Manganese	0.46		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 20:31	1
Nickel	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 20:31	1
Potassium	2.4	J	2.5	0.50	mg/L		09/18/15 09:30	09/18/15 20:31	1
Selenium	<0.050		0.050	0.020	mg/L		09/18/15 09:30	09/18/15 20:31	1
Silver	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 20:31	1
Vanadium	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 20:31	1
Zinc	0.20		0.10	0.020	mg/L		09/18/15 09:30	09/18/15 20:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.041	J	0.050	0.010	mg/L		09/15/15 17:00	09/16/15 20:12	1
Barium	0.60		0.50	0.050	mg/L		09/15/15 17:00	09/16/15 20:12	1
Beryllium	0.0052		0.0040	0.0040	mg/L		09/15/15 17:00	09/16/15 20:12	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/15/15 17:00	09/16/15 20:12	1
Calcium	20		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 20:12	1
Chromium	0.12		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 20:12	1
Cobalt	0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 20:12	1
Copper	0.12		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 20:12	1
Iron	120		0.20	0.20	mg/L		09/15/15 17:00	09/16/15 20:12	1
Lead	0.075		0.0075	0.0075	mg/L		09/15/15 17:00	09/16/15 20:12	1
Magnesium	21		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 20:12	1
Manganese	0.97		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 20:12	1
Nickel	0.10		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 20:12	1
Potassium	16		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 20:12	1
Selenium	<0.050		0.050	0.020	mg/L		09/15/15 17:00	09/16/15 20:12	1
Silver	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 20:12	1
Vanadium	0.20		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 20:12	1
Zinc	0.70		0.10	0.020	mg/L		09/15/15 17:00	09/16/15 20:12	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		09/18/15 09:30	09/18/15 17:33	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/18/15 09:30	09/18/15 17:33	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/15/15 17:00	09/16/15 11:38	1
Thallium	0.0023		0.0020	0.0020	mg/L		09/15/15 17:00	09/16/15 11:38	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/15/15 18:30	09/16/15 11:29	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B06 (0-2)**

**Lab Sample ID: 500-101071-6**

**Date Collected: 09/10/15 12:45**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 84.0**

**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		09/18/15 15:30	09/21/15 09:25	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.039		0.020	0.0069	mg/Kg	☼	09/16/15 15:00	09/17/15 10:44	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.19	mg/Kg	☼	09/16/15 14:15	09/16/15 16:54	1
pH	7.51		0.200	0.200	SU			09/14/15 15:40	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B07 (0-2)**

**Lab Sample ID: 500-101071-7**

**Date Collected: 09/10/15 12:55**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 82.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.021		0.021	0.0040	mg/Kg	☼	09/11/15 17:00	09/15/15 00:38	1
Benzene	<0.0052		0.0052	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 00:38	1
Bromodichloromethane	<0.0052		0.0052	0.00088	mg/Kg	☼	09/11/15 17:00	09/15/15 00:38	1
Bromoform	<0.0052		0.0052	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 00:38	1
Bromomethane	<0.0052 *		0.0052	0.0019	mg/Kg	☼	09/11/15 17:00	09/15/15 00:38	1
2-Butanone (MEK)	<0.0052		0.0052	0.0018	mg/Kg	☼	09/11/15 17:00	09/15/15 00:38	1
Carbon disulfide	<0.0052		0.0052	0.0019	mg/Kg	☼	09/11/15 17:00	09/15/15 00:38	1
Carbon tetrachloride	<0.0052		0.0052	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 00:38	1
Chlorobenzene	<0.0052		0.0052	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 00:38	1
Chloroethane	<0.0052		0.0052	0.0022	mg/Kg	☼	09/11/15 17:00	09/15/15 00:38	1
Chloroform	<0.0052		0.0052	0.0010	mg/Kg	☼	09/11/15 17:00	09/15/15 00:38	1
Chloromethane	<0.0052		0.0052	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 00:38	1
cis-1,2-Dichloroethene	<0.0052		0.0052	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 00:38	1
cis-1,3-Dichloropropene	<0.0052		0.0052	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 00:38	1
Dibromochloromethane	<0.0052		0.0052	0.00060	mg/Kg	☼	09/11/15 17:00	09/15/15 00:38	1
1,1-Dichloroethane	<0.0052		0.0052	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 00:38	1
1,2-Dichloroethane	<0.0052		0.0052	0.00077	mg/Kg	☼	09/11/15 17:00	09/15/15 00:38	1
1,1-Dichloroethene	<0.0052		0.0052	0.0019	mg/Kg	☼	09/11/15 17:00	09/15/15 00:38	1
1,2-Dichloropropane	<0.0052		0.0052	0.0014	mg/Kg	☼	09/11/15 17:00	09/15/15 00:38	1
1,3-Dichloropropane, Total	<0.0052		0.0052	0.0015	mg/Kg	☼	09/11/15 17:00	09/15/15 00:38	1
Ethylbenzene	<0.0052		0.0052	0.0013	mg/Kg	☼	09/11/15 17:00	09/15/15 00:38	1
2-Hexanone	<0.0052		0.0052	0.0016	mg/Kg	☼	09/11/15 17:00	09/15/15 00:38	1
Methylene Chloride	<0.0052		0.0052	0.0039	mg/Kg	☼	09/11/15 17:00	09/15/15 00:38	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 00:38	1
Methyl tert-butyl ether	<0.0052		0.0052	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 00:38	1
Styrene	<0.0052		0.0052	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 00:38	1
1,1,2,2-Tetrachloroethane	<0.0052		0.0052	0.00082	mg/Kg	☼	09/11/15 17:00	09/15/15 00:38	1
Tetrachloroethene	<0.0052		0.0052	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 00:38	1
Toluene	<0.0052		0.0052	0.0018	mg/Kg	☼	09/11/15 17:00	09/15/15 00:38	1
trans-1,2-Dichloroethene	<0.0052		0.0052	0.0013	mg/Kg	☼	09/11/15 17:00	09/15/15 00:38	1
trans-1,3-Dichloropropene	<0.0052		0.0052	0.0015	mg/Kg	☼	09/11/15 17:00	09/15/15 00:38	1
1,1,1-Trichloroethane	<0.0052		0.0052	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 00:38	1
1,1,2-Trichloroethane	<0.0052		0.0052	0.0010	mg/Kg	☼	09/11/15 17:00	09/15/15 00:38	1
Trichloroethene	<0.0052		0.0052	0.0014	mg/Kg	☼	09/11/15 17:00	09/15/15 00:38	1
Vinyl acetate	<0.0052		0.0052	0.0014	mg/Kg	☼	09/11/15 17:00	09/15/15 00:38	1
Vinyl chloride	<0.0052		0.0052	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 00:38	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg	☼	09/11/15 17:00	09/15/15 00:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 122	09/11/15 17:00	09/15/15 00:38	1
Dibromofluoromethane	103		75 - 120	09/11/15 17:00	09/15/15 00:38	1
1,2-Dichloroethane-d4 (Surr)	123		70 - 134	09/11/15 17:00	09/15/15 00:38	1
Toluene-d8 (Surr)	114		75 - 122	09/11/15 17:00	09/15/15 00:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	09/14/15 07:43	09/16/15 14:09	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	09/14/15 07:43	09/16/15 14:09	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	09/14/15 07:43	09/16/15 14:09	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	09/14/15 07:43	09/16/15 14:09	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B07 (0-2)**

**Lab Sample ID: 500-101071-7**

**Date Collected: 09/10/15 12:55**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 82.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	09/14/15 07:43	09/16/15 14:09	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	09/14/15 07:43	09/16/15 14:09	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	09/14/15 07:43	09/16/15 14:09	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	09/14/15 07:43	09/16/15 14:09	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	09/14/15 07:43	09/16/15 14:09	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	09/14/15 07:43	09/16/15 14:09	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	09/14/15 07:43	09/16/15 14:09	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	09/14/15 07:43	09/16/15 14:09	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	09/14/15 07:43	09/16/15 14:09	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	09/14/15 07:43	09/16/15 14:09	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	09/14/15 07:43	09/16/15 14:09	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	09/14/15 07:43	09/16/15 14:09	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	09/14/15 07:43	09/16/15 14:09	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	09/14/15 07:43	09/16/15 14:09	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	09/14/15 07:43	09/16/15 14:09	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	09/14/15 07:43	09/16/15 14:09	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	09/14/15 07:43	09/16/15 14:09	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	09/14/15 07:43	09/16/15 14:09	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	09/14/15 07:43	09/16/15 14:09	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	09/14/15 07:43	09/16/15 14:09	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	09/14/15 07:43	09/16/15 14:09	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	09/14/15 07:43	09/16/15 14:09	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	09/14/15 07:43	09/16/15 14:09	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	09/14/15 07:43	09/16/15 14:09	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	09/14/15 07:43	09/16/15 14:09	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	09/14/15 07:43	09/16/15 14:09	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	09/14/15 07:43	09/16/15 14:09	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	09/14/15 07:43	09/16/15 14:09	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	09/14/15 07:43	09/16/15 14:09	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	09/14/15 07:43	09/16/15 14:09	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	09/14/15 07:43	09/16/15 14:09	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	09/14/15 07:43	09/16/15 14:09	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	09/14/15 07:43	09/16/15 14:09	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	09/14/15 07:43	09/16/15 14:09	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	09/14/15 07:43	09/16/15 14:09	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	09/14/15 07:43	09/16/15 14:09	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	09/14/15 07:43	09/16/15 14:09	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	09/14/15 07:43	09/16/15 14:09	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	09/14/15 07:43	09/16/15 14:09	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	09/14/15 07:43	09/16/15 14:09	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	09/14/15 07:43	09/16/15 14:09	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	09/14/15 07:43	09/16/15 14:09	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	09/14/15 07:43	09/16/15 14:09	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	09/14/15 07:43	09/16/15 14:09	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	09/14/15 07:43	09/16/15 14:09	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	09/14/15 07:43	09/16/15 14:09	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	09/14/15 07:43	09/16/15 14:09	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	09/14/15 07:43	09/16/15 14:09	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	09/14/15 07:43	09/16/15 14:09	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B07 (0-2)**

**Lab Sample ID: 500-101071-7**

**Date Collected: 09/10/15 12:55**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 82.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	09/14/15 07:43	09/16/15 14:09	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	09/14/15 07:43	09/16/15 14:09	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	09/14/15 07:43	09/16/15 14:09	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	09/14/15 07:43	09/16/15 14:09	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	09/14/15 07:43	09/16/15 14:09	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	09/14/15 07:43	09/16/15 14:09	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	09/14/15 07:43	09/16/15 14:09	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	☼	09/14/15 07:43	09/16/15 14:09	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/14/15 07:43	09/16/15 14:09	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	09/14/15 07:43	09/16/15 14:09	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	09/14/15 07:43	09/16/15 14:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	87		25 - 119	09/14/15 07:43	09/16/15 14:09	1
2-Fluorophenol	82		25 - 110	09/14/15 07:43	09/16/15 14:09	1
Nitrobenzene-d5	96		25 - 115	09/14/15 07:43	09/16/15 14:09	1
Phenol-d5	88		31 - 110	09/14/15 07:43	09/16/15 14:09	1
Terphenyl-d14	102		36 - 134	09/14/15 07:43	09/16/15 14:09	1
2,4,6-Tribromophenol	96		35 - 137	09/14/15 07:43	09/16/15 14:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	09/16/15 12:00	09/16/15 18:17	1
<b>Arsenic</b>	<b>8.5</b>		0.58	0.27	mg/Kg	☼	09/16/15 12:00	09/16/15 18:17	1
<b>Barium</b>	<b>130</b>		0.58	0.11	mg/Kg	☼	09/16/15 12:00	09/16/15 18:17	1
<b>Beryllium</b>	<b>0.74</b>		0.23	0.051	mg/Kg	☼	09/16/15 12:00	09/16/15 18:17	1
<b>Cadmium</b>	<b>0.28</b>	<b>B</b>	0.12	0.034	mg/Kg	☼	09/16/15 12:00	09/16/15 18:17	1
<b>Chromium</b>	<b>15</b>		0.58	0.10	mg/Kg	☼	09/16/15 12:00	09/16/15 18:17	1
<b>Cobalt</b>	<b>13</b>		0.29	0.066	mg/Kg	☼	09/16/15 12:00	09/16/15 18:17	1
<b>Copper</b>	<b>18</b>		0.58	0.13	mg/Kg	☼	09/16/15 12:00	09/16/15 18:17	1
<b>Iron</b>	<b>21000</b>	<b>B</b>	12	4.5	mg/Kg	☼	09/16/15 12:00	09/16/15 18:17	1
<b>Lead</b>	<b>19</b>		0.29	0.15	mg/Kg	☼	09/16/15 12:00	09/16/15 18:17	1
<b>Magnesium</b>	<b>3600</b>		5.8	2.4	mg/Kg	☼	09/16/15 12:00	09/16/15 18:17	1
<b>Calcium</b>	<b>4600</b>		12	3.8	mg/Kg	☼	09/16/15 12:00	09/16/15 18:17	1
<b>Manganese</b>	<b>930</b>		0.58	0.12	mg/Kg	☼	09/16/15 12:00	09/16/15 18:17	1
<b>Nickel</b>	<b>22</b>		0.58	0.16	mg/Kg	☼	09/16/15 12:00	09/16/15 18:17	1
Selenium	<0.58		0.58	0.29	mg/Kg	☼	09/16/15 12:00	09/16/15 18:17	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	09/16/15 12:00	09/16/15 18:17	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	09/16/15 12:00	09/16/15 18:17	1
<b>Vanadium</b>	<b>27</b>		0.29	0.085	mg/Kg	☼	09/16/15 12:00	09/16/15 18:17	1
<b>Zinc</b>	<b>55</b>	<b>B</b>	1.2	0.37	mg/Kg	☼	09/16/15 12:00	09/17/15 19:48	1
<b>Potassium</b>	<b>1200</b>		29	4.8	mg/Kg	☼	09/16/15 12:00	09/16/15 18:17	1
<b>Sodium</b>	<b>2500</b>		58	7.7	mg/Kg	☼	09/16/15 12:00	09/17/15 19:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/18/15 09:30	09/18/15 20:38	1
<b>Barium</b>	<b>0.37</b>	<b>J</b>	0.50	0.050	mg/L		09/18/15 09:30	09/18/15 20:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/18/15 09:30	09/18/15 20:38	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/18/15 09:30	09/18/15 20:38	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B07 (0-2)**

**Lab Sample ID: 500-101071-7**

**Date Collected: 09/10/15 12:55**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 82.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>71</b>		2.5	0.50	mg/L		09/18/15 09:30	09/18/15 20:38	1
Chromium	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 20:38	1
Cobalt	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 20:38	1
Copper	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 20:38	1
<b>Iron</b>	<b>0.20</b>		0.20	0.20	mg/L		09/18/15 09:30	09/18/15 20:38	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/18/15 09:30	09/18/15 20:38	1
<b>Magnesium</b>	<b>22</b>		2.5	0.50	mg/L		09/18/15 09:30	09/18/15 20:38	1
<b>Manganese</b>	<b>0.30</b>		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 20:38	1
Nickel	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 20:38	1
<b>Potassium</b>	<b>2.2 J</b>		2.5	0.50	mg/L		09/18/15 09:30	09/18/15 20:38	1
Selenium	<0.050		0.050	0.020	mg/L		09/18/15 09:30	09/18/15 20:38	1
Silver	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 20:38	1
Vanadium	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 20:38	1
<b>Zinc</b>	<b>0.045 J</b>		0.10	0.020	mg/L		09/18/15 09:30	09/18/15 20:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.077</b>		0.050	0.010	mg/L		09/15/15 17:00	09/16/15 20:19	1
<b>Barium</b>	<b>1.1</b>		0.50	0.050	mg/L		09/15/15 17:00	09/16/15 20:19	1
<b>Beryllium</b>	<b>0.0090</b>		0.0040	0.0040	mg/L		09/15/15 17:00	09/16/15 20:19	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/15/15 17:00	09/16/15 20:19	1
<b>Calcium</b>	<b>33</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 20:19	1
<b>Chromium</b>	<b>0.21</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 20:19	1
<b>Cobalt</b>	<b>0.049</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 20:19	1
<b>Copper</b>	<b>0.18</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 20:19	1
<b>Iron</b>	<b>230</b>		0.20	0.20	mg/L		09/15/15 17:00	09/16/15 20:19	1
<b>Lead</b>	<b>0.14</b>		0.0075	0.0075	mg/L		09/15/15 17:00	09/16/15 20:19	1
<b>Magnesium</b>	<b>31</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 20:19	1
<b>Manganese</b>	<b>1.6</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 20:19	1
<b>Nickel</b>	<b>0.17</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 20:19	1
<b>Potassium</b>	<b>22</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 20:19	1
Selenium	<0.050		0.050	0.020	mg/L		09/15/15 17:00	09/16/15 20:19	1
Silver	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 20:19	1
<b>Vanadium</b>	<b>0.35</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 20:19	1
<b>Zinc</b>	<b>0.72</b>		0.10	0.020	mg/L		09/15/15 17:00	09/16/15 20:19	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		09/18/15 09:30	09/18/15 17:34	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/18/15 09:30	09/18/15 17:34	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/15/15 17:00	09/16/15 11:40	1
<b>Thallium</b>	<b>0.0031</b>		0.0020	0.0020	mg/L		09/15/15 17:00	09/16/15 11:40	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.00028</b>		0.00020	0.00020	mg/L		09/15/15 18:30	09/16/15 11:31	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B07 (0-2)**

**Lab Sample ID: 500-101071-7**

**Date Collected: 09/10/15 12:55**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 82.3**

**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		09/18/15 15:30	09/21/15 09:27	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<b>0.040</b>		0.020	0.0071	mg/Kg	☼	09/16/15 15:00	09/17/15 10:46	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	09/16/15 14:15	09/16/15 16:54	1
pH	<b>7.61</b>		0.200	0.200	SU			09/14/15 15:42	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B08 (0-2)**

**Lab Sample ID: 500-101071-8**

**Date Collected: 09/10/15 11:05**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 84.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0037	mg/Kg	☼	09/11/15 17:00	09/15/15 01:03	1
Benzene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 01:03	1
Bromodichloromethane	<0.0048		0.0048	0.00080	mg/Kg	☼	09/11/15 17:00	09/15/15 01:03	1
Bromoform	<0.0048		0.0048	0.00097	mg/Kg	☼	09/11/15 17:00	09/15/15 01:03	1
Bromomethane	<0.0048	*	0.0048	0.0018	mg/Kg	☼	09/11/15 17:00	09/15/15 01:03	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	09/11/15 17:00	09/15/15 01:03	1
Carbon disulfide	<0.0048		0.0048	0.0018	mg/Kg	☼	09/11/15 17:00	09/15/15 01:03	1
Carbon tetrachloride	<0.0048		0.0048	0.0010	mg/Kg	☼	09/11/15 17:00	09/15/15 01:03	1
Chlorobenzene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 01:03	1
Chloroethane	<0.0048		0.0048	0.0020	mg/Kg	☼	09/11/15 17:00	09/15/15 01:03	1
Chloroform	<0.0048		0.0048	0.00093	mg/Kg	☼	09/11/15 17:00	09/15/15 01:03	1
Chloromethane	<0.0048		0.0048	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 01:03	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00097	mg/Kg	☼	09/11/15 17:00	09/15/15 01:03	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 01:03	1
Dibromochloromethane	<0.0048		0.0048	0.00055	mg/Kg	☼	09/11/15 17:00	09/15/15 01:03	1
1,1-Dichloroethane	<0.0048		0.0048	0.00098	mg/Kg	☼	09/11/15 17:00	09/15/15 01:03	1
1,2-Dichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	09/11/15 17:00	09/15/15 01:03	1
1,1-Dichloroethene	<0.0048		0.0048	0.0017	mg/Kg	☼	09/11/15 17:00	09/15/15 01:03	1
1,2-Dichloropropane	<0.0048		0.0048	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 01:03	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.0013	mg/Kg	☼	09/11/15 17:00	09/15/15 01:03	1
Ethylbenzene	<0.0048		0.0048	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 01:03	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	09/11/15 17:00	09/15/15 01:03	1
Methylene Chloride	<0.0048		0.0048	0.0036	mg/Kg	☼	09/11/15 17:00	09/15/15 01:03	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.00098	mg/Kg	☼	09/11/15 17:00	09/15/15 01:03	1
Methyl tert-butyl ether	<0.0048		0.0048	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 01:03	1
Styrene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 01:03	1
1,1,2,2-Tetrachloroethane	<0.0048		0.0048	0.00076	mg/Kg	☼	09/11/15 17:00	09/15/15 01:03	1
Tetrachloroethene	<0.0048		0.0048	0.00099	mg/Kg	☼	09/11/15 17:00	09/15/15 01:03	1
Toluene	<0.0048		0.0048	0.0017	mg/Kg	☼	09/11/15 17:00	09/15/15 01:03	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 01:03	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.0013	mg/Kg	☼	09/11/15 17:00	09/15/15 01:03	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 01:03	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00092	mg/Kg	☼	09/11/15 17:00	09/15/15 01:03	1
Trichloroethene	<0.0048		0.0048	0.0013	mg/Kg	☼	09/11/15 17:00	09/15/15 01:03	1
Vinyl acetate	<0.0048		0.0048	0.0013	mg/Kg	☼	09/11/15 17:00	09/15/15 01:03	1
Vinyl chloride	<0.0048		0.0048	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 01:03	1
Xylenes, Total	<0.0095		0.0095	0.0018	mg/Kg	☼	09/11/15 17:00	09/15/15 01:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122	09/11/15 17:00	09/15/15 01:03	1
Dibromofluoromethane	103		75 - 120	09/11/15 17:00	09/15/15 01:03	1
1,2-Dichloroethane-d4 (Surr)	129		70 - 134	09/11/15 17:00	09/15/15 01:03	1
Toluene-d8 (Surr)	110		75 - 122	09/11/15 17:00	09/15/15 01:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	09/14/15 07:43	09/16/15 14:37	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	09/14/15 07:43	09/16/15 14:37	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	09/14/15 07:43	09/16/15 14:37	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	09/14/15 07:43	09/16/15 14:37	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B08 (0-2)**

**Lab Sample ID: 500-101071-8**

**Date Collected: 09/10/15 11:05**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 84.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	09/14/15 07:43	09/16/15 14:37	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	09/14/15 07:43	09/16/15 14:37	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	09/14/15 07:43	09/16/15 14:37	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	09/14/15 07:43	09/16/15 14:37	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	09/14/15 07:43	09/16/15 14:37	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	09/14/15 07:43	09/16/15 14:37	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	09/14/15 07:43	09/16/15 14:37	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	09/14/15 07:43	09/16/15 14:37	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	09/14/15 07:43	09/16/15 14:37	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	09/14/15 07:43	09/16/15 14:37	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	09/14/15 07:43	09/16/15 14:37	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	09/14/15 07:43	09/16/15 14:37	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	09/14/15 07:43	09/16/15 14:37	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	09/14/15 07:43	09/16/15 14:37	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	09/14/15 07:43	09/16/15 14:37	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	09/14/15 07:43	09/16/15 14:37	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	09/14/15 07:43	09/16/15 14:37	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	09/14/15 07:43	09/16/15 14:37	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	09/14/15 07:43	09/16/15 14:37	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	09/14/15 07:43	09/16/15 14:37	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	09/14/15 07:43	09/16/15 14:37	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	09/14/15 07:43	09/16/15 14:37	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	09/14/15 07:43	09/16/15 14:37	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	09/14/15 07:43	09/16/15 14:37	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	09/14/15 07:43	09/16/15 14:37	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	09/14/15 07:43	09/16/15 14:37	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	09/14/15 07:43	09/16/15 14:37	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	09/14/15 07:43	09/16/15 14:37	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	09/14/15 07:43	09/16/15 14:37	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	09/14/15 07:43	09/16/15 14:37	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	09/14/15 07:43	09/16/15 14:37	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	09/14/15 07:43	09/16/15 14:37	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	09/14/15 07:43	09/16/15 14:37	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	09/14/15 07:43	09/16/15 14:37	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	09/14/15 07:43	09/16/15 14:37	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	09/14/15 07:43	09/16/15 14:37	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	09/14/15 07:43	09/16/15 14:37	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	09/14/15 07:43	09/16/15 14:37	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	09/14/15 07:43	09/16/15 14:37	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	09/14/15 07:43	09/16/15 14:37	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	09/14/15 07:43	09/16/15 14:37	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	09/14/15 07:43	09/16/15 14:37	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	09/14/15 07:43	09/16/15 14:37	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	09/14/15 07:43	09/16/15 14:37	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	09/14/15 07:43	09/16/15 14:37	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	09/14/15 07:43	09/16/15 14:37	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	09/14/15 07:43	09/16/15 14:37	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	09/14/15 07:43	09/16/15 14:37	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	09/14/15 07:43	09/16/15 14:37	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B08 (0-2)**

**Lab Sample ID: 500-101071-8**

**Date Collected: 09/10/15 11:05**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 84.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	09/14/15 07:43	09/16/15 14:37	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	09/14/15 07:43	09/16/15 14:37	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	09/14/15 07:43	09/16/15 14:37	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	09/14/15 07:43	09/16/15 14:37	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	09/14/15 07:43	09/16/15 14:37	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	09/14/15 07:43	09/16/15 14:37	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	09/14/15 07:43	09/16/15 14:37	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	☼	09/14/15 07:43	09/16/15 14:37	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/14/15 07:43	09/16/15 14:37	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	09/14/15 07:43	09/16/15 14:37	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	09/14/15 07:43	09/16/15 14:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	89		25 - 119	09/14/15 07:43	09/16/15 14:37	1
2-Fluorophenol	84		25 - 110	09/14/15 07:43	09/16/15 14:37	1
Nitrobenzene-d5	97		25 - 115	09/14/15 07:43	09/16/15 14:37	1
Phenol-d5	90		31 - 110	09/14/15 07:43	09/16/15 14:37	1
Terphenyl-d14	98		36 - 134	09/14/15 07:43	09/16/15 14:37	1
2,4,6-Tribromophenol	97		35 - 137	09/14/15 07:43	09/16/15 14:37	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	09/16/15 12:00	09/16/15 18:22	1
<b>Arsenic</b>	<b>13</b>		0.58	0.27	mg/Kg	☼	09/16/15 12:00	09/16/15 18:22	1
<b>Barium</b>	<b>80</b>		0.58	0.11	mg/Kg	☼	09/16/15 12:00	09/16/15 18:22	1
<b>Beryllium</b>	<b>0.85</b>		0.23	0.050	mg/Kg	☼	09/16/15 12:00	09/16/15 18:22	1
<b>Cadmium</b>	<b>0.18</b>	<b>B</b>	0.12	0.034	mg/Kg	☼	09/16/15 12:00	09/16/15 18:22	1
<b>Chromium</b>	<b>17</b>		0.58	0.10	mg/Kg	☼	09/16/15 12:00	09/16/15 18:22	1
<b>Cobalt</b>	<b>20</b>		0.29	0.066	mg/Kg	☼	09/16/15 12:00	09/16/15 18:22	1
<b>Copper</b>	<b>36</b>		0.58	0.13	mg/Kg	☼	09/16/15 12:00	09/16/15 18:22	1
<b>Iron</b>	<b>27000</b>	<b>B</b>	12	4.5	mg/Kg	☼	09/16/15 12:00	09/16/15 18:22	1
<b>Lead</b>	<b>24</b>		0.29	0.14	mg/Kg	☼	09/16/15 12:00	09/16/15 18:22	1
<b>Magnesium</b>	<b>4100</b>		5.8	2.4	mg/Kg	☼	09/16/15 12:00	09/16/15 18:22	1
<b>Calcium</b>	<b>2400</b>		12	3.7	mg/Kg	☼	09/16/15 12:00	09/16/15 18:22	1
<b>Manganese</b>	<b>400</b>		0.58	0.12	mg/Kg	☼	09/16/15 12:00	09/16/15 18:22	1
<b>Nickel</b>	<b>49</b>		0.58	0.16	mg/Kg	☼	09/16/15 12:00	09/16/15 18:22	1
Selenium	<0.58		0.58	0.29	mg/Kg	☼	09/16/15 12:00	09/16/15 18:22	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	09/16/15 12:00	09/16/15 18:22	1
<b>Thallium</b>	<b>0.62</b>		0.58	0.29	mg/Kg	☼	09/16/15 12:00	09/16/15 18:22	1
<b>Vanadium</b>	<b>22</b>		0.29	0.085	mg/Kg	☼	09/16/15 12:00	09/16/15 18:22	1
<b>Zinc</b>	<b>74</b>	<b>B</b>	1.2	0.37	mg/Kg	☼	09/16/15 12:00	09/17/15 20:02	1
<b>Potassium</b>	<b>1700</b>		29	4.7	mg/Kg	☼	09/16/15 12:00	09/16/15 18:22	1
<b>Sodium</b>	<b>2600</b>		58	7.7	mg/Kg	☼	09/16/15 12:00	09/17/15 20:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/18/15 09:30	09/18/15 20:45	1
<b>Barium</b>	<b>0.55</b>		0.50	0.050	mg/L		09/18/15 09:30	09/18/15 20:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/18/15 09:30	09/18/15 20:45	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/18/15 09:30	09/18/15 20:45	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B08 (0-2)**

**Lab Sample ID: 500-101071-8**

**Date Collected: 09/10/15 11:05**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 84.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>220</b>		2.5	0.50	mg/L		09/18/15 09:30	09/18/15 20:45	1
Chromium	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 20:45	1
Cobalt	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 20:45	1
Copper	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 20:45	1
Iron	<0.20		0.20	0.20	mg/L		09/18/15 09:30	09/18/15 20:45	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/18/15 09:30	09/18/15 20:45	1
<b>Magnesium</b>	<b>110</b>		2.5	0.50	mg/L		09/18/15 09:30	09/18/15 20:45	1
<b>Manganese</b>	<b>0.64</b>		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 20:45	1
Nickel	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 20:45	1
<b>Potassium</b>	<b>3.4</b>		2.5	0.50	mg/L		09/18/15 09:30	09/18/15 20:45	1
Selenium	<0.050		0.050	0.020	mg/L		09/18/15 09:30	09/18/15 20:45	1
Silver	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 20:45	1
Vanadium	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 20:45	1
<b>Zinc</b>	<b>0.099 J</b>		0.10	0.020	mg/L		09/18/15 09:30	09/18/15 20:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.14</b>		0.050	0.010	mg/L		09/15/15 17:00	09/16/15 20:26	1
<b>Barium</b>	<b>0.75</b>		0.50	0.050	mg/L		09/15/15 17:00	09/16/15 20:26	1
<b>Beryllium</b>	<b>0.0083</b>		0.0040	0.0040	mg/L		09/15/15 17:00	09/16/15 20:26	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/15/15 17:00	09/16/15 20:26	1
<b>Calcium</b>	<b>26</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 20:26	1
<b>Chromium</b>	<b>0.18</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 20:26	1
<b>Cobalt</b>	<b>0.069</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 20:26	1
<b>Copper</b>	<b>0.30</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 20:26	1
<b>Iron</b>	<b>240</b>		0.20	0.20	mg/L		09/15/15 17:00	09/16/15 20:26	1
<b>Lead</b>	<b>0.12</b>		0.0075	0.0075	mg/L		09/15/15 17:00	09/16/15 20:26	1
<b>Magnesium</b>	<b>32</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 20:26	1
<b>Manganese</b>	<b>1.5</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 20:26	1
<b>Nickel</b>	<b>0.26</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 20:26	1
<b>Potassium</b>	<b>28</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 20:26	1
Selenium	<0.050		0.050	0.020	mg/L		09/15/15 17:00	09/16/15 20:26	1
Silver	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 20:26	1
<b>Vanadium</b>	<b>0.27</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 20:26	1
<b>Zinc</b>	<b>0.87</b>		0.10	0.020	mg/L		09/15/15 17:00	09/16/15 20:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/18/15 09:30	09/18/15 17:34	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/18/15 09:30	09/18/15 17:34	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/15/15 17:00	09/16/15 11:41	1
<b>Thallium</b>	<b>0.0091</b>		0.0020	0.0020	mg/L		09/15/15 17:00	09/16/15 11:41	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/15/15 18:30	09/16/15 11:33	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B08 (0-2)**

**Lab Sample ID: 500-101071-8**

**Date Collected: 09/10/15 11:05**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 84.0**

**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		09/18/15 15:30	09/21/15 09:29	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<b>0.048</b>		0.017	0.0060	mg/Kg	☼	09/16/15 15:00	09/17/15 10:47	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.55		0.55	0.18	mg/Kg	☼	09/16/15 14:15	09/16/15 16:55	1
pH	<b>8.43</b>		0.200	0.200	SU			09/14/15 15:48	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B09 (0-2)**

**Lab Sample ID: 500-101071-9**

**Date Collected: 09/10/15 10:40**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 79.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0038	mg/Kg	☼	09/11/15 17:00	09/15/15 01:28	1
Benzene	<0.0050		0.0050	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 01:28	1
Bromodichloromethane	<0.0050		0.0050	0.00084	mg/Kg	☼	09/11/15 17:00	09/15/15 01:28	1
Bromoform	<0.0050		0.0050	0.0010	mg/Kg	☼	09/11/15 17:00	09/15/15 01:28	1
Bromomethane	<0.0050	*	0.0050	0.0018	mg/Kg	☼	09/11/15 17:00	09/15/15 01:28	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	09/11/15 17:00	09/15/15 01:28	1
Carbon disulfide	<0.0050		0.0050	0.0018	mg/Kg	☼	09/11/15 17:00	09/15/15 01:28	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 01:28	1
Chlorobenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 01:28	1
Chloroethane	<0.0050		0.0050	0.0021	mg/Kg	☼	09/11/15 17:00	09/15/15 01:28	1
Chloroform	<0.0050		0.0050	0.00097	mg/Kg	☼	09/11/15 17:00	09/15/15 01:28	1
Chloromethane	<0.0050		0.0050	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 01:28	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	09/11/15 17:00	09/15/15 01:28	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 01:28	1
Dibromochloromethane	<0.0050		0.0050	0.00057	mg/Kg	☼	09/11/15 17:00	09/15/15 01:28	1
1,1-Dichloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	09/11/15 17:00	09/15/15 01:28	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	09/11/15 17:00	09/15/15 01:28	1
1,1-Dichloroethene	<0.0050		0.0050	0.0018	mg/Kg	☼	09/11/15 17:00	09/15/15 01:28	1
1,2-Dichloropropane	<0.0050		0.0050	0.0013	mg/Kg	☼	09/11/15 17:00	09/15/15 01:28	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.0014	mg/Kg	☼	09/11/15 17:00	09/15/15 01:28	1
Ethylbenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 01:28	1
2-Hexanone	<0.0050		0.0050	0.0015	mg/Kg	☼	09/11/15 17:00	09/15/15 01:28	1
Methylene Chloride	<0.0050		0.0050	0.0038	mg/Kg	☼	09/11/15 17:00	09/15/15 01:28	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0010	mg/Kg	☼	09/11/15 17:00	09/15/15 01:28	1
Methyl tert-butyl ether	<0.0050		0.0050	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 01:28	1
Styrene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 01:28	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00079	mg/Kg	☼	09/11/15 17:00	09/15/15 01:28	1
Tetrachloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	09/11/15 17:00	09/15/15 01:28	1
Toluene	<0.0050		0.0050	0.0017	mg/Kg	☼	09/11/15 17:00	09/15/15 01:28	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 01:28	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0014	mg/Kg	☼	09/11/15 17:00	09/15/15 01:28	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 01:28	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00096	mg/Kg	☼	09/11/15 17:00	09/15/15 01:28	1
Trichloroethene	<0.0050		0.0050	0.0013	mg/Kg	☼	09/11/15 17:00	09/15/15 01:28	1
Vinyl acetate	<0.0050		0.0050	0.0013	mg/Kg	☼	09/11/15 17:00	09/15/15 01:28	1
Vinyl chloride	<0.0050		0.0050	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 01:28	1
Xylenes, Total	<0.0099		0.0099	0.0018	mg/Kg	☼	09/11/15 17:00	09/15/15 01:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 122	09/11/15 17:00	09/15/15 01:28	1
Dibromofluoromethane	106		75 - 120	09/11/15 17:00	09/15/15 01:28	1
1,2-Dichloroethane-d4 (Surr)	128		70 - 134	09/11/15 17:00	09/15/15 01:28	1
Toluene-d8 (Surr)	111		75 - 122	09/11/15 17:00	09/15/15 01:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	09/14/15 07:43	09/16/15 15:04	1
Acenaphthylene	<0.040		0.040	0.0054	mg/Kg	☼	09/14/15 07:43	09/16/15 15:04	1
Anthracene	<0.040		0.040	0.0068	mg/Kg	☼	09/14/15 07:43	09/16/15 15:04	1
Benzo[a]anthracene	<0.040		0.040	0.0055	mg/Kg	☼	09/14/15 07:43	09/16/15 15:04	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B09 (0-2)**

**Lab Sample ID: 500-101071-9**

**Date Collected: 09/10/15 10:40**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 79.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.040		0.040	0.0079	mg/Kg	☼	09/14/15 07:43	09/16/15 15:04	1
Benzo[b]fluoranthene	<0.040		0.040	0.0088	mg/Kg	☼	09/14/15 07:43	09/16/15 15:04	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	09/14/15 07:43	09/16/15 15:04	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	09/14/15 07:43	09/16/15 15:04	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	09/14/15 07:43	09/16/15 15:04	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	09/14/15 07:43	09/16/15 15:04	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	09/14/15 07:43	09/16/15 15:04	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.054	mg/Kg	☼	09/14/15 07:43	09/16/15 15:04	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	09/14/15 07:43	09/16/15 15:04	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	09/14/15 07:43	09/16/15 15:04	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	09/14/15 07:43	09/16/15 15:04	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	09/14/15 07:43	09/16/15 15:04	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	09/14/15 07:43	09/16/15 15:04	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	09/14/15 07:43	09/16/15 15:04	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	09/14/15 07:43	09/16/15 15:04	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	09/14/15 07:43	09/16/15 15:04	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	09/14/15 07:43	09/16/15 15:04	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	09/14/15 07:43	09/16/15 15:04	1
1,2-Dichlorobenzene	<0.20		0.20	0.049	mg/Kg	☼	09/14/15 07:43	09/16/15 15:04	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	09/14/15 07:43	09/16/15 15:04	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	09/14/15 07:43	09/16/15 15:04	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	09/14/15 07:43	09/16/15 15:04	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	09/14/15 07:43	09/16/15 15:04	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	09/14/15 07:43	09/16/15 15:04	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	09/14/15 07:43	09/16/15 15:04	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	09/14/15 07:43	09/16/15 15:04	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	09/14/15 07:43	09/16/15 15:04	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☼	09/14/15 07:43	09/16/15 15:04	1
2,4-Dinitrophenol	<0.82		0.82	0.71	mg/Kg	☼	09/14/15 07:43	09/16/15 15:04	1
2,4-Dinitrotoluene	<0.20		0.20	0.065	mg/Kg	☼	09/14/15 07:43	09/16/15 15:04	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	09/14/15 07:43	09/16/15 15:04	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	09/14/15 07:43	09/16/15 15:04	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	☼	09/14/15 07:43	09/16/15 15:04	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	09/14/15 07:43	09/16/15 15:04	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	09/14/15 07:43	09/16/15 15:04	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	09/14/15 07:43	09/16/15 15:04	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	09/14/15 07:43	09/16/15 15:04	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☼	09/14/15 07:43	09/16/15 15:04	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.011	mg/Kg	☼	09/14/15 07:43	09/16/15 15:04	1
Isophorone	<0.20		0.20	0.046	mg/Kg	☼	09/14/15 07:43	09/16/15 15:04	1
2-Methylnaphthalene	<0.040		0.040	0.0075	mg/Kg	☼	09/14/15 07:43	09/16/15 15:04	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	09/14/15 07:43	09/16/15 15:04	1
3 & 4 Methylphenol	<0.20		0.20	0.068	mg/Kg	☼	09/14/15 07:43	09/16/15 15:04	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	09/14/15 07:43	09/16/15 15:04	1
2-Nitroaniline	<0.20		0.20	0.055	mg/Kg	☼	09/14/15 07:43	09/16/15 15:04	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	09/14/15 07:43	09/16/15 15:04	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	09/14/15 07:43	09/16/15 15:04	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	09/14/15 07:43	09/16/15 15:04	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	09/14/15 07:43	09/16/15 15:04	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B09 (0-2)**

**Lab Sample ID: 500-101071-9**

**Date Collected: 09/10/15 10:40**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 79.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	09/14/15 07:43	09/16/15 15:04	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	09/14/15 07:43	09/16/15 15:04	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	09/14/15 07:43	09/16/15 15:04	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	09/14/15 07:43	09/16/15 15:04	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	09/14/15 07:43	09/16/15 15:04	1
Phenanthrene	<0.040		0.040	0.0057	mg/Kg	☼	09/14/15 07:43	09/16/15 15:04	1
Phenol	<0.20		0.20	0.090	mg/Kg	☼	09/14/15 07:43	09/16/15 15:04	1
Pyrene	<0.040		0.040	0.0081	mg/Kg	☼	09/14/15 07:43	09/16/15 15:04	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	09/14/15 07:43	09/16/15 15:04	1
2,4,5-Trichlorophenol	<0.40		0.40	0.093	mg/Kg	☼	09/14/15 07:43	09/16/15 15:04	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	09/14/15 07:43	09/16/15 15:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	91		25 - 119	09/14/15 07:43	09/16/15 15:04	1
2-Fluorophenol	85		25 - 110	09/14/15 07:43	09/16/15 15:04	1
Nitrobenzene-d5	91		25 - 115	09/14/15 07:43	09/16/15 15:04	1
Phenol-d5	89		31 - 110	09/14/15 07:43	09/16/15 15:04	1
Terphenyl-d14	106		36 - 134	09/14/15 07:43	09/16/15 15:04	1
2,4,6-Tribromophenol	90		35 - 137	09/14/15 07:43	09/16/15 15:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.32</b>	<b>J</b>	1.2	0.24	mg/Kg	☼	09/16/15 12:00	09/16/15 18:26	1
<b>Arsenic</b>	<b>9.4</b>		0.58	0.27	mg/Kg	☼	09/16/15 12:00	09/16/15 18:26	1
<b>Barium</b>	<b>98</b>		0.58	0.11	mg/Kg	☼	09/16/15 12:00	09/16/15 18:26	1
<b>Beryllium</b>	<b>0.72</b>		0.23	0.050	mg/Kg	☼	09/16/15 12:00	09/16/15 18:26	1
<b>Cadmium</b>	<b>0.27</b>	<b>B</b>	0.12	0.033	mg/Kg	☼	09/16/15 12:00	09/16/15 18:26	1
<b>Chromium</b>	<b>13</b>		0.58	0.099	mg/Kg	☼	09/16/15 12:00	09/16/15 18:26	1
<b>Cobalt</b>	<b>12</b>		0.29	0.065	mg/Kg	☼	09/16/15 12:00	09/16/15 18:26	1
<b>Copper</b>	<b>21</b>		0.58	0.13	mg/Kg	☼	09/16/15 12:00	09/16/15 18:26	1
<b>Iron</b>	<b>21000</b>	<b>B</b>	12	4.4	mg/Kg	☼	09/16/15 12:00	09/16/15 18:26	1
<b>Lead</b>	<b>26</b>		0.29	0.14	mg/Kg	☼	09/16/15 12:00	09/16/15 18:26	1
<b>Magnesium</b>	<b>9800</b>		5.8	2.3	mg/Kg	☼	09/16/15 12:00	09/16/15 18:26	1
<b>Calcium</b>	<b>17000</b>		12	3.7	mg/Kg	☼	09/16/15 12:00	09/16/15 18:26	1
<b>Manganese</b>	<b>500</b>		0.58	0.11	mg/Kg	☼	09/16/15 12:00	09/16/15 18:26	1
<b>Nickel</b>	<b>22</b>		0.58	0.16	mg/Kg	☼	09/16/15 12:00	09/16/15 18:26	1
<b>Selenium</b>	<b>0.45</b>	<b>J</b>	0.58	0.29	mg/Kg	☼	09/16/15 12:00	09/16/15 18:26	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	09/16/15 12:00	09/16/15 18:26	1
Thallium	<0.58		0.58	0.28	mg/Kg	☼	09/16/15 12:00	09/16/15 18:26	1
<b>Vanadium</b>	<b>22</b>		0.29	0.084	mg/Kg	☼	09/16/15 12:00	09/16/15 18:26	1
<b>Zinc</b>	<b>65</b>	<b>B</b>	1.2	0.36	mg/Kg	☼	09/16/15 12:00	09/17/15 20:15	1
<b>Potassium</b>	<b>1100</b>		29	4.7	mg/Kg	☼	09/16/15 12:00	09/16/15 18:26	1
<b>Sodium</b>	<b>2800</b>		58	7.6	mg/Kg	☼	09/16/15 12:00	09/17/15 20:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/18/15 09:30	09/18/15 20:52	1
<b>Barium</b>	<b>0.52</b>		0.50	0.050	mg/L		09/18/15 09:30	09/18/15 20:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/18/15 09:30	09/18/15 20:52	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/18/15 09:30	09/18/15 20:52	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B09 (0-2)**

**Lab Sample ID: 500-101071-9**

**Date Collected: 09/10/15 10:40**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 79.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>170</b>		2.5	0.50	mg/L		09/18/15 09:30	09/18/15 20:52	1
Chromium	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 20:52	1
Cobalt	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 20:52	1
Copper	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 20:52	1
Iron	<0.20		0.20	0.20	mg/L		09/18/15 09:30	09/18/15 20:52	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/18/15 09:30	09/18/15 20:52	1
<b>Magnesium</b>	<b>81</b>		2.5	0.50	mg/L		09/18/15 09:30	09/18/15 20:52	1
<b>Manganese</b>	<b>3.5</b>		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 20:52	1
Nickel	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 20:52	1
<b>Potassium</b>	<b>3.0</b>		2.5	0.50	mg/L		09/18/15 09:30	09/18/15 20:52	1
Selenium	<0.050		0.050	0.020	mg/L		09/18/15 09:30	09/18/15 20:52	1
Silver	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 20:52	1
Vanadium	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 20:52	1
<b>Zinc</b>	<b>0.12</b>		0.10	0.020	mg/L		09/18/15 09:30	09/18/15 20:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.095</b>		0.050	0.010	mg/L		09/15/15 17:00	09/16/15 20:32	1
<b>Barium</b>	<b>0.92</b>		0.50	0.050	mg/L		09/15/15 17:00	09/16/15 20:32	1
<b>Beryllium</b>	<b>0.0086</b>		0.0040	0.0040	mg/L		09/15/15 17:00	09/16/15 20:32	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/15/15 17:00	09/16/15 20:32	1
<b>Calcium</b>	<b>37</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 20:32	1
<b>Chromium</b>	<b>0.22</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 20:32	1
<b>Cobalt</b>	<b>0.060</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 20:32	1
<b>Copper</b>	<b>0.25</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 20:32	1
<b>Iron</b>	<b>250</b>		0.20	0.20	mg/L		09/15/15 17:00	09/16/15 20:32	1
<b>Lead</b>	<b>0.16</b>		0.0075	0.0075	mg/L		09/15/15 17:00	09/16/15 20:32	1
<b>Magnesium</b>	<b>34</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 20:32	1
<b>Manganese</b>	<b>2.2</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 20:32	1
<b>Nickel</b>	<b>0.19</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 20:32	1
<b>Potassium</b>	<b>24</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 20:32	1
Selenium	<0.050		0.050	0.020	mg/L		09/15/15 17:00	09/16/15 20:32	1
Silver	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 20:32	1
<b>Vanadium</b>	<b>0.35</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 20:32	1
<b>Zinc</b>	<b>0.78</b>		0.10	0.020	mg/L		09/15/15 17:00	09/16/15 20:32	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		09/18/15 09:30	09/18/15 17:35	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/18/15 09:30	09/18/15 17:35	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/15/15 17:00	09/16/15 11:43	1
<b>Thallium</b>	<b>0.0041</b>		0.0020	0.0020	mg/L		09/15/15 17:00	09/16/15 11:43	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.00050</b>		0.00020	0.00020	mg/L		09/15/15 18:30	09/16/15 11:35	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B09 (0-2)**

**Lab Sample ID: 500-101071-9**

**Date Collected: 09/10/15 10:40**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 79.9**

**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		09/18/15 15:30	09/21/15 09:31	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.043		0.020	0.0071	mg/Kg	☼	09/16/15 15:00	09/17/15 10:49	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.19	mg/Kg	☼	09/16/15 14:15	09/16/15 16:55	1
pH	8.81		0.200	0.200	SU			09/14/15 15:50	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B09 DUP (0-2)**

**Lab Sample ID: 500-101071-10**

**Date Collected: 09/10/15 10:45**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 81.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0039	mg/Kg	☼	09/11/15 17:00	09/15/15 01:52	1
Benzene	<0.0050		0.0050	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 01:52	1
Bromodichloromethane	<0.0050		0.0050	0.00084	mg/Kg	☼	09/11/15 17:00	09/15/15 01:52	1
Bromoform	<0.0050		0.0050	0.0010	mg/Kg	☼	09/11/15 17:00	09/15/15 01:52	1
Bromomethane	<0.0050	*	0.0050	0.0018	mg/Kg	☼	09/11/15 17:00	09/15/15 01:52	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	09/11/15 17:00	09/15/15 01:52	1
Carbon disulfide	<0.0050		0.0050	0.0018	mg/Kg	☼	09/11/15 17:00	09/15/15 01:52	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 01:52	1
Chlorobenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 01:52	1
Chloroethane	<0.0050		0.0050	0.0021	mg/Kg	☼	09/11/15 17:00	09/15/15 01:52	1
Chloroform	<0.0050		0.0050	0.00097	mg/Kg	☼	09/11/15 17:00	09/15/15 01:52	1
Chloromethane	<0.0050		0.0050	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 01:52	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	09/11/15 17:00	09/15/15 01:52	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 01:52	1
Dibromochloromethane	<0.0050		0.0050	0.00057	mg/Kg	☼	09/11/15 17:00	09/15/15 01:52	1
1,1-Dichloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	09/11/15 17:00	09/15/15 01:52	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	09/11/15 17:00	09/15/15 01:52	1
1,1-Dichloroethene	<0.0050		0.0050	0.0018	mg/Kg	☼	09/11/15 17:00	09/15/15 01:52	1
1,2-Dichloropropane	<0.0050		0.0050	0.0013	mg/Kg	☼	09/11/15 17:00	09/15/15 01:52	1
1,3-Dichloropropane, Total	<0.0050		0.0050	0.0014	mg/Kg	☼	09/11/15 17:00	09/15/15 01:52	1
Ethylbenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 01:52	1
2-Hexanone	<0.0050		0.0050	0.0015	mg/Kg	☼	09/11/15 17:00	09/15/15 01:52	1
Methylene Chloride	<0.0050		0.0050	0.0038	mg/Kg	☼	09/11/15 17:00	09/15/15 01:52	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0010	mg/Kg	☼	09/11/15 17:00	09/15/15 01:52	1
Methyl tert-butyl ether	<0.0050		0.0050	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 01:52	1
Styrene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 01:52	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00079	mg/Kg	☼	09/11/15 17:00	09/15/15 01:52	1
Tetrachloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	09/11/15 17:00	09/15/15 01:52	1
Toluene	<0.0050		0.0050	0.0017	mg/Kg	☼	09/11/15 17:00	09/15/15 01:52	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 01:52	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0014	mg/Kg	☼	09/11/15 17:00	09/15/15 01:52	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 01:52	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00096	mg/Kg	☼	09/11/15 17:00	09/15/15 01:52	1
Trichloroethene	<0.0050		0.0050	0.0013	mg/Kg	☼	09/11/15 17:00	09/15/15 01:52	1
Vinyl acetate	<0.0050		0.0050	0.0013	mg/Kg	☼	09/11/15 17:00	09/15/15 01:52	1
Vinyl chloride	<0.0050		0.0050	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 01:52	1
Xylenes, Total	<0.010		0.010	0.0018	mg/Kg	☼	09/11/15 17:00	09/15/15 01:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 122	09/11/15 17:00	09/15/15 01:52	1
Dibromofluoromethane	102		75 - 120	09/11/15 17:00	09/15/15 01:52	1
1,2-Dichloroethane-d4 (Surr)	129		70 - 134	09/11/15 17:00	09/15/15 01:52	1
Toluene-d8 (Surr)	116		75 - 122	09/11/15 17:00	09/15/15 01:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	09/14/15 07:43	09/16/15 15:32	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	09/14/15 07:43	09/16/15 15:32	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	09/14/15 07:43	09/16/15 15:32	1
Benzo[a]anthracene	<0.039		0.039	0.0052	mg/Kg	☼	09/14/15 07:43	09/16/15 15:32	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B09 DUP (0-2)**

**Lab Sample ID: 500-101071-10**

**Date Collected: 09/10/15 10:45**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 81.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.039		0.039	0.0075	mg/Kg	☼	09/14/15 07:43	09/16/15 15:32	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	09/14/15 07:43	09/16/15 15:32	1
Benzo[g,h,i]perylene	<0.039		0.039	0.012	mg/Kg	☼	09/14/15 07:43	09/16/15 15:32	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	09/14/15 07:43	09/16/15 15:32	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.040	mg/Kg	☼	09/14/15 07:43	09/16/15 15:32	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	09/14/15 07:43	09/16/15 15:32	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	09/14/15 07:43	09/16/15 15:32	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	09/14/15 07:43	09/16/15 15:32	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	☼	09/14/15 07:43	09/16/15 15:32	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	09/14/15 07:43	09/16/15 15:32	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	09/14/15 07:43	09/16/15 15:32	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	09/14/15 07:43	09/16/15 15:32	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	09/14/15 07:43	09/16/15 15:32	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	09/14/15 07:43	09/16/15 15:32	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	09/14/15 07:43	09/16/15 15:32	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	09/14/15 07:43	09/16/15 15:32	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	09/14/15 07:43	09/16/15 15:32	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/14/15 07:43	09/16/15 15:32	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	09/14/15 07:43	09/16/15 15:32	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	09/14/15 07:43	09/16/15 15:32	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	09/14/15 07:43	09/16/15 15:32	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	09/14/15 07:43	09/16/15 15:32	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	09/14/15 07:43	09/16/15 15:32	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg	☼	09/14/15 07:43	09/16/15 15:32	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	09/14/15 07:43	09/16/15 15:32	1
Dimethyl phthalate	<0.19		0.19	0.051	mg/Kg	☼	09/14/15 07:43	09/16/15 15:32	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	09/14/15 07:43	09/16/15 15:32	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	09/14/15 07:43	09/16/15 15:32	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	09/14/15 07:43	09/16/15 15:32	1
2,4-Dinitrotoluene	<0.19		0.19	0.062	mg/Kg	☼	09/14/15 07:43	09/16/15 15:32	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	09/14/15 07:43	09/16/15 15:32	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	09/14/15 07:43	09/16/15 15:32	1
Fluoranthene	<0.039		0.039	0.0072	mg/Kg	☼	09/14/15 07:43	09/16/15 15:32	1
Fluorene	<0.039		0.039	0.0054	mg/Kg	☼	09/14/15 07:43	09/16/15 15:32	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	09/14/15 07:43	09/16/15 15:32	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	09/14/15 07:43	09/16/15 15:32	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	09/14/15 07:43	09/16/15 15:32	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	09/14/15 07:43	09/16/15 15:32	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	09/14/15 07:43	09/16/15 15:32	1
Isophorone	<0.19		0.19	0.044	mg/Kg	☼	09/14/15 07:43	09/16/15 15:32	1
2-Methylnaphthalene	<0.039		0.039	0.0071	mg/Kg	☼	09/14/15 07:43	09/16/15 15:32	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	09/14/15 07:43	09/16/15 15:32	1
3 & 4 Methylphenol	<0.19		0.19	0.065	mg/Kg	☼	09/14/15 07:43	09/16/15 15:32	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	09/14/15 07:43	09/16/15 15:32	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	09/14/15 07:43	09/16/15 15:32	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	09/14/15 07:43	09/16/15 15:32	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	09/14/15 07:43	09/16/15 15:32	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	09/14/15 07:43	09/16/15 15:32	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	09/14/15 07:43	09/16/15 15:32	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B09 DUP (0-2)**

**Lab Sample ID: 500-101071-10**

**Date Collected: 09/10/15 10:45**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 81.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	09/14/15 07:43	09/16/15 15:32	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	09/14/15 07:43	09/16/15 15:32	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	09/14/15 07:43	09/16/15 15:32	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	09/14/15 07:43	09/16/15 15:32	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	09/14/15 07:43	09/16/15 15:32	1
Phenanthrene	<0.039		0.039	0.0054	mg/Kg	☼	09/14/15 07:43	09/16/15 15:32	1
Phenol	<0.19		0.19	0.086	mg/Kg	☼	09/14/15 07:43	09/16/15 15:32	1
Pyrene	<0.039		0.039	0.0077	mg/Kg	☼	09/14/15 07:43	09/16/15 15:32	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/14/15 07:43	09/16/15 15:32	1
2,4,5-Trichlorophenol	<0.39		0.39	0.088	mg/Kg	☼	09/14/15 07:43	09/16/15 15:32	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	09/14/15 07:43	09/16/15 15:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	92		25 - 119	09/14/15 07:43	09/16/15 15:32	1
2-Fluorophenol	90		25 - 110	09/14/15 07:43	09/16/15 15:32	1
Nitrobenzene-d5	102		25 - 115	09/14/15 07:43	09/16/15 15:32	1
Phenol-d5	96		31 - 110	09/14/15 07:43	09/16/15 15:32	1
Terphenyl-d14	110		36 - 134	09/14/15 07:43	09/16/15 15:32	1
2,4,6-Tribromophenol	81		35 - 137	09/14/15 07:43	09/16/15 15:32	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.29	J	1.2	0.25	mg/Kg	☼	09/16/15 12:00	09/16/15 18:31	1
Arsenic	11		0.60	0.28	mg/Kg	☼	09/16/15 12:00	09/16/15 18:31	1
Barium	100		0.60	0.11	mg/Kg	☼	09/16/15 12:00	09/16/15 18:31	1
Beryllium	0.71		0.24	0.052	mg/Kg	☼	09/16/15 12:00	09/16/15 18:31	1
Cadmium	0.26	B	0.12	0.035	mg/Kg	☼	09/16/15 12:00	09/16/15 18:31	1
Chromium	14		0.60	0.10	mg/Kg	☼	09/16/15 12:00	09/16/15 18:31	1
Cobalt	12		0.30	0.068	mg/Kg	☼	09/16/15 12:00	09/16/15 18:31	1
Copper	24		0.60	0.13	mg/Kg	☼	09/16/15 12:00	09/16/15 18:31	1
Iron	24000	B	12	4.7	mg/Kg	☼	09/16/15 12:00	09/16/15 18:31	1
Lead	21		0.30	0.15	mg/Kg	☼	09/16/15 12:00	09/16/15 18:31	1
Magnesium	5100		6.0	2.5	mg/Kg	☼	09/16/15 12:00	09/16/15 18:31	1
Calcium	7000		12	3.9	mg/Kg	☼	09/16/15 12:00	09/16/15 18:31	1
Manganese	790		0.60	0.12	mg/Kg	☼	09/16/15 12:00	09/16/15 18:31	1
Nickel	27		0.60	0.16	mg/Kg	☼	09/16/15 12:00	09/16/15 18:31	1
Selenium	<0.60		0.60	0.30	mg/Kg	☼	09/16/15 12:00	09/16/15 18:31	1
Silver	<0.30		0.30	0.071	mg/Kg	☼	09/16/15 12:00	09/16/15 18:31	1
Thallium	0.41	J	0.60	0.30	mg/Kg	☼	09/16/15 12:00	09/16/15 18:31	1
Vanadium	23		0.30	0.088	mg/Kg	☼	09/16/15 12:00	09/16/15 18:31	1
Zinc	67	B	1.2	0.38	mg/Kg	☼	09/16/15 12:00	09/17/15 20:29	1
Potassium	1200		30	4.9	mg/Kg	☼	09/16/15 12:00	09/16/15 18:31	1
Sodium	2400		60	8.0	mg/Kg	☼	09/16/15 12:00	09/17/15 20:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/18/15 09:30	09/18/15 20:58	1
Barium	0.46	J	0.50	0.050	mg/L		09/18/15 09:30	09/18/15 20:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/18/15 09:30	09/18/15 20:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/18/15 09:30	09/18/15 20:58	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B09 DUP (0-2)**

**Lab Sample ID: 500-101071-10**

**Date Collected: 09/10/15 10:45**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 81.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>180</b>		2.5	0.50	mg/L		09/18/15 09:30	09/18/15 20:58	1
Chromium	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 20:58	1
Cobalt	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 20:58	1
Copper	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 20:58	1
Iron	<0.20		0.20	0.20	mg/L		09/18/15 09:30	09/18/15 20:58	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/18/15 09:30	09/18/15 20:58	1
<b>Magnesium</b>	<b>84</b>		2.5	0.50	mg/L		09/18/15 09:30	09/18/15 20:58	1
<b>Manganese</b>	<b>1.3</b>		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 20:58	1
Nickel	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 20:58	1
<b>Potassium</b>	<b>2.0 J</b>		2.5	0.50	mg/L		09/18/15 09:30	09/18/15 20:58	1
Selenium	<0.050		0.050	0.020	mg/L		09/18/15 09:30	09/18/15 20:58	1
Silver	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 20:58	1
Vanadium	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 20:58	1
<b>Zinc</b>	<b>0.078 J</b>		0.10	0.020	mg/L		09/18/15 09:30	09/18/15 20:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.078</b>		0.050	0.010	mg/L		09/15/15 17:00	09/16/15 20:39	1
<b>Barium</b>	<b>0.91</b>		0.50	0.050	mg/L		09/15/15 17:00	09/16/15 20:39	1
<b>Beryllium</b>	<b>0.0084</b>		0.0040	0.0040	mg/L		09/15/15 17:00	09/16/15 20:39	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/15/15 17:00	09/16/15 20:39	1
<b>Calcium</b>	<b>30</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 20:39	1
<b>Chromium</b>	<b>0.21</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 20:39	1
<b>Cobalt</b>	<b>0.053</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 20:39	1
<b>Copper</b>	<b>0.23</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 20:39	1
<b>Iron</b>	<b>230</b>		0.20	0.20	mg/L		09/15/15 17:00	09/16/15 20:39	1
<b>Lead</b>	<b>0.15</b>		0.0075	0.0075	mg/L		09/15/15 17:00	09/16/15 20:39	1
<b>Magnesium</b>	<b>31</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 20:39	1
<b>Manganese</b>	<b>2.0</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 20:39	1
<b>Nickel</b>	<b>0.17</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 20:39	1
<b>Potassium</b>	<b>20</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 20:39	1
Selenium	<0.050		0.050	0.020	mg/L		09/15/15 17:00	09/16/15 20:39	1
Silver	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 20:39	1
<b>Vanadium</b>	<b>0.32</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 20:39	1
<b>Zinc</b>	<b>0.79</b>		0.10	0.020	mg/L		09/15/15 17:00	09/16/15 20:39	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		09/18/15 09:30	09/18/15 17:36	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/18/15 09:30	09/18/15 17:36	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/15/15 17:00	09/16/15 11:44	1
<b>Thallium</b>	<b>0.0035</b>		0.0020	0.0020	mg/L		09/15/15 17:00	09/16/15 11:44	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.00039</b>		0.00020	0.00020	mg/L		09/15/15 18:30	09/16/15 11:37	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B09 DUP (0-2)**

**Lab Sample ID: 500-101071-10**

**Date Collected: 09/10/15 10:45**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 81.6**

**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		09/18/15 15:30	09/21/15 09:33	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.039		0.018	0.0062	mg/Kg	☼	09/16/15 15:00	09/17/15 10:51	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	09/16/15 14:15	09/16/15 16:55	1
pH	8.76		0.200	0.200	SU			09/14/15 15:53	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B10 (0-2)**

**Lab Sample ID: 500-101071-11**

**Date Collected: 09/10/15 10:25**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 83.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0038	mg/Kg	☼	09/11/15 17:00	09/15/15 02:17	1
Benzene	<0.0050		0.0050	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 02:17	1
Bromodichloromethane	<0.0050		0.0050	0.00084	mg/Kg	☼	09/11/15 17:00	09/15/15 02:17	1
Bromoform	<0.0050		0.0050	0.0010	mg/Kg	☼	09/11/15 17:00	09/15/15 02:17	1
Bromomethane	<0.0050 *		0.0050	0.0018	mg/Kg	☼	09/11/15 17:00	09/15/15 02:17	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	09/11/15 17:00	09/15/15 02:17	1
Carbon disulfide	<0.0050		0.0050	0.0018	mg/Kg	☼	09/11/15 17:00	09/15/15 02:17	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 02:17	1
Chlorobenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 02:17	1
Chloroethane	<0.0050		0.0050	0.0021	mg/Kg	☼	09/11/15 17:00	09/15/15 02:17	1
Chloroform	<0.0050		0.0050	0.00097	mg/Kg	☼	09/11/15 17:00	09/15/15 02:17	1
Chloromethane	<0.0050		0.0050	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 02:17	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	09/11/15 17:00	09/15/15 02:17	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 02:17	1
Dibromochloromethane	<0.0050		0.0050	0.00057	mg/Kg	☼	09/11/15 17:00	09/15/15 02:17	1
1,1-Dichloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	09/11/15 17:00	09/15/15 02:17	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	09/11/15 17:00	09/15/15 02:17	1
1,1-Dichloroethene	<0.0050		0.0050	0.0018	mg/Kg	☼	09/11/15 17:00	09/15/15 02:17	1
1,2-Dichloropropane	<0.0050		0.0050	0.0013	mg/Kg	☼	09/11/15 17:00	09/15/15 02:17	1
1,3-Dichloropropane, Total	<0.0050		0.0050	0.0014	mg/Kg	☼	09/11/15 17:00	09/15/15 02:17	1
Ethylbenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 02:17	1
2-Hexanone	<0.0050		0.0050	0.0015	mg/Kg	☼	09/11/15 17:00	09/15/15 02:17	1
Methylene Chloride	<0.0050		0.0050	0.0038	mg/Kg	☼	09/11/15 17:00	09/15/15 02:17	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0010	mg/Kg	☼	09/11/15 17:00	09/15/15 02:17	1
Methyl tert-butyl ether	<0.0050		0.0050	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 02:17	1
Styrene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 02:17	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00079	mg/Kg	☼	09/11/15 17:00	09/15/15 02:17	1
Tetrachloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	09/11/15 17:00	09/15/15 02:17	1
Toluene	<0.0050		0.0050	0.0017	mg/Kg	☼	09/11/15 17:00	09/15/15 02:17	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 02:17	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0014	mg/Kg	☼	09/11/15 17:00	09/15/15 02:17	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 02:17	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00096	mg/Kg	☼	09/11/15 17:00	09/15/15 02:17	1
Trichloroethene	<0.0050		0.0050	0.0013	mg/Kg	☼	09/11/15 17:00	09/15/15 02:17	1
Vinyl acetate	<0.0050		0.0050	0.0013	mg/Kg	☼	09/11/15 17:00	09/15/15 02:17	1
Vinyl chloride	<0.0050		0.0050	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 02:17	1
Xylenes, Total	<0.0099		0.0099	0.0018	mg/Kg	☼	09/11/15 17:00	09/15/15 02:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 122	09/11/15 17:00	09/15/15 02:17	1
Dibromofluoromethane	104		75 - 120	09/11/15 17:00	09/15/15 02:17	1
1,2-Dichloroethane-d4 (Surr)	125		70 - 134	09/11/15 17:00	09/15/15 02:17	1
Toluene-d8 (Surr)	109		75 - 122	09/11/15 17:00	09/15/15 02:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	09/14/15 07:43	09/16/15 12:18	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	09/14/15 07:43	09/16/15 12:18	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	09/14/15 07:43	09/16/15 12:18	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	09/14/15 07:43	09/16/15 12:18	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B10 (0-2)**

**Lab Sample ID: 500-101071-11**

**Date Collected: 09/10/15 10:25**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 83.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.039		0.039	0.0077	mg/Kg	☼	09/14/15 07:43	09/16/15 12:18	1
Benzo[b]fluoranthene	<0.039		0.039	0.0086	mg/Kg	☼	09/14/15 07:43	09/16/15 12:18	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	09/14/15 07:43	09/16/15 12:18	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	09/14/15 07:43	09/16/15 12:18	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	09/14/15 07:43	09/16/15 12:18	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	09/14/15 07:43	09/16/15 12:18	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	09/14/15 07:43	09/16/15 12:18	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	09/14/15 07:43	09/16/15 12:18	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	09/14/15 07:43	09/16/15 12:18	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	09/14/15 07:43	09/16/15 12:18	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	09/14/15 07:43	09/16/15 12:18	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	09/14/15 07:43	09/16/15 12:18	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	09/14/15 07:43	09/16/15 12:18	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	09/14/15 07:43	09/16/15 12:18	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	09/14/15 07:43	09/16/15 12:18	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	09/14/15 07:43	09/16/15 12:18	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0077	mg/Kg	☼	09/14/15 07:43	09/16/15 12:18	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	09/14/15 07:43	09/16/15 12:18	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	09/14/15 07:43	09/16/15 12:18	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	09/14/15 07:43	09/16/15 12:18	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	09/14/15 07:43	09/16/15 12:18	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	09/14/15 07:43	09/16/15 12:18	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	09/14/15 07:43	09/16/15 12:18	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	09/14/15 07:43	09/16/15 12:18	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	09/14/15 07:43	09/16/15 12:18	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	09/14/15 07:43	09/16/15 12:18	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	09/14/15 07:43	09/16/15 12:18	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	09/14/15 07:43	09/16/15 12:18	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	09/14/15 07:43	09/16/15 12:18	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	09/14/15 07:43	09/16/15 12:18	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	09/14/15 07:43	09/16/15 12:18	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	09/14/15 07:43	09/16/15 12:18	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	09/14/15 07:43	09/16/15 12:18	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	09/14/15 07:43	09/16/15 12:18	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	09/14/15 07:43	09/16/15 12:18	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	09/14/15 07:43	09/16/15 12:18	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	09/14/15 07:43	09/16/15 12:18	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	09/14/15 07:43	09/16/15 12:18	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	09/14/15 07:43	09/16/15 12:18	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	09/14/15 07:43	09/16/15 12:18	1
2-Methylnaphthalene	<0.039		0.039	0.0073	mg/Kg	☼	09/14/15 07:43	09/16/15 12:18	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	09/14/15 07:43	09/16/15 12:18	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	09/14/15 07:43	09/16/15 12:18	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	09/14/15 07:43	09/16/15 12:18	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	09/14/15 07:43	09/16/15 12:18	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	09/14/15 07:43	09/16/15 12:18	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	09/14/15 07:43	09/16/15 12:18	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	09/14/15 07:43	09/16/15 12:18	1
2-Nitrophenol	<0.39		0.39	0.094	mg/Kg	☼	09/14/15 07:43	09/16/15 12:18	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B10 (0-2)**

**Lab Sample ID: 500-101071-11**

**Date Collected: 09/10/15 10:25**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 83.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	09/14/15 07:43	09/16/15 12:18	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	09/14/15 07:43	09/16/15 12:18	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	09/14/15 07:43	09/16/15 12:18	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	09/14/15 07:43	09/16/15 12:18	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	09/14/15 07:43	09/16/15 12:18	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	09/14/15 07:43	09/16/15 12:18	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	09/14/15 07:43	09/16/15 12:18	1
Pyrene	<0.039		0.039	0.0079	mg/Kg	☼	09/14/15 07:43	09/16/15 12:18	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	09/14/15 07:43	09/16/15 12:18	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	09/14/15 07:43	09/16/15 12:18	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	09/14/15 07:43	09/16/15 12:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	89		25 - 119	09/14/15 07:43	09/16/15 12:18	1
2-Fluorophenol	87		25 - 110	09/14/15 07:43	09/16/15 12:18	1
Nitrobenzene-d5	97		25 - 115	09/14/15 07:43	09/16/15 12:18	1
Phenol-d5	85		31 - 110	09/14/15 07:43	09/16/15 12:18	1
Terphenyl-d14	101		36 - 134	09/14/15 07:43	09/16/15 12:18	1
2,4,6-Tribromophenol	88		35 - 137	09/14/15 07:43	09/16/15 12:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.25	mg/Kg	☼	09/16/15 12:00	09/16/15 18:36	1
<b>Arsenic</b>	<b>5.7</b>		0.60	0.28	mg/Kg	☼	09/16/15 12:00	09/16/15 18:36	1
<b>Barium</b>	<b>81</b>		0.60	0.11	mg/Kg	☼	09/16/15 12:00	09/16/15 18:36	1
<b>Beryllium</b>	<b>0.70</b>		0.24	0.052	mg/Kg	☼	09/16/15 12:00	09/16/15 18:36	1
<b>Cadmium</b>	<b>0.26</b>	<b>B</b>	0.12	0.035	mg/Kg	☼	09/16/15 12:00	09/16/15 18:36	1
<b>Chromium</b>	<b>14</b>		0.60	0.10	mg/Kg	☼	09/16/15 12:00	09/16/15 18:36	1
<b>Cobalt</b>	<b>9.6</b>		0.30	0.068	mg/Kg	☼	09/16/15 12:00	09/16/15 18:36	1
<b>Copper</b>	<b>19</b>		0.60	0.13	mg/Kg	☼	09/16/15 12:00	09/16/15 18:36	1
<b>Iron</b>	<b>16000</b>	<b>B</b>	12	4.6	mg/Kg	☼	09/16/15 12:00	09/16/15 18:36	1
<b>Lead</b>	<b>24</b>		0.30	0.15	mg/Kg	☼	09/16/15 12:00	09/16/15 18:36	1
<b>Magnesium</b>	<b>5300</b>		6.0	2.4	mg/Kg	☼	09/16/15 12:00	09/16/15 18:36	1
<b>Calcium</b>	<b>8000</b>		12	3.9	mg/Kg	☼	09/16/15 12:00	09/16/15 18:36	1
<b>Manganese</b>	<b>390</b>		0.60	0.12	mg/Kg	☼	09/16/15 12:00	09/16/15 18:36	1
<b>Nickel</b>	<b>21</b>		0.60	0.16	mg/Kg	☼	09/16/15 12:00	09/16/15 18:36	1
<b>Selenium</b>	<b>0.37</b>	<b>J</b>	0.60	0.30	mg/Kg	☼	09/16/15 12:00	09/16/15 18:36	1
Silver	<0.30		0.30	0.070	mg/Kg	☼	09/16/15 12:00	09/16/15 18:36	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	09/16/15 12:00	09/16/15 18:36	1
<b>Vanadium</b>	<b>22</b>		0.30	0.088	mg/Kg	☼	09/16/15 12:00	09/16/15 18:36	1
<b>Zinc</b>	<b>65</b>	<b>B</b>	1.2	0.38	mg/Kg	☼	09/16/15 12:00	09/17/15 20:58	1
<b>Potassium</b>	<b>1000</b>		30	4.9	mg/Kg	☼	09/16/15 12:00	09/16/15 18:36	1
<b>Sodium</b>	<b>2000</b>		60	7.9	mg/Kg	☼	09/16/15 12:00	09/17/15 20:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/18/15 09:30	09/18/15 21:05	1
<b>Barium</b>	<b>0.42</b>	<b>J</b>	0.50	0.050	mg/L		09/18/15 09:30	09/18/15 21:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/18/15 09:30	09/18/15 21:05	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/18/15 09:30	09/18/15 21:05	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B10 (0-2)**

**Lab Sample ID: 500-101071-11**

**Date Collected: 09/10/15 10:25**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 83.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>150</b>		2.5	0.50	mg/L		09/18/15 09:30	09/18/15 21:05	1
Chromium	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 21:05	1
Cobalt	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 21:05	1
<b>Copper</b>	<b>0.013</b>	<b>J</b>	0.025	0.010	mg/L		09/18/15 09:30	09/18/15 21:05	1
Iron	<0.20		0.20	0.20	mg/L		09/18/15 09:30	09/18/15 21:05	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/18/15 09:30	09/18/15 21:05	1
<b>Magnesium</b>	<b>63</b>		2.5	0.50	mg/L		09/18/15 09:30	09/18/15 21:05	1
<b>Manganese</b>	<b>0.27</b>		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 21:05	1
Nickel	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 21:05	1
<b>Potassium</b>	<b>2.3</b>	<b>J</b>	2.5	0.50	mg/L		09/18/15 09:30	09/18/15 21:05	1
Selenium	<0.050		0.050	0.020	mg/L		09/18/15 09:30	09/18/15 21:05	1
Silver	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 21:05	1
Vanadium	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 21:05	1
<b>Zinc</b>	<b>0.24</b>		0.10	0.020	mg/L		09/18/15 09:30	09/18/15 21:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.050</b>		0.050	0.010	mg/L		09/15/15 17:00	09/16/15 21:02	1
<b>Barium</b>	<b>0.94</b>		0.50	0.050	mg/L		09/15/15 17:00	09/16/15 21:02	1
<b>Beryllium</b>	<b>0.0081</b>		0.0040	0.0040	mg/L		09/15/15 17:00	09/16/15 21:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/15/15 17:00	09/16/15 21:02	1
<b>Calcium</b>	<b>38</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 21:02	1
<b>Chromium</b>	<b>0.22</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 21:02	1
<b>Cobalt</b>	<b>0.050</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 21:02	1
<b>Copper</b>	<b>0.19</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 21:02	1
<b>Iron</b>	<b>180</b>		0.20	0.20	mg/L		09/15/15 17:00	09/16/15 21:02	1
<b>Lead</b>	<b>0.13</b>		0.0075	0.0075	mg/L		09/15/15 17:00	09/16/15 21:02	1
<b>Magnesium</b>	<b>33</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 21:02	1
<b>Manganese</b>	<b>1.5</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 21:02	1
<b>Nickel</b>	<b>0.17</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 21:02	1
<b>Potassium</b>	<b>21</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 21:02	1
Selenium	<0.050		0.050	0.020	mg/L		09/15/15 17:00	09/16/15 21:02	1
Silver	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 21:02	1
<b>Vanadium</b>	<b>0.31</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 21:02	1
<b>Zinc</b>	<b>1.7</b>		0.10	0.020	mg/L		09/15/15 17:00	09/16/15 21:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/18/15 09:30	09/18/15 17:37	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/18/15 09:30	09/18/15 17:37	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/15/15 17:00	09/16/15 11:49	1
<b>Thallium</b>	<b>0.0032</b>		0.0020	0.0020	mg/L		09/15/15 17:00	09/16/15 11:49	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.00039</b>		0.00020	0.00020	mg/L		09/15/15 18:30	09/16/15 11:39	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B10 (0-2)**

**Lab Sample ID: 500-101071-11**

**Date Collected: 09/10/15 10:25**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 83.0**

**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		09/18/15 15:30	09/21/15 09:35	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.046		0.020	0.0069	mg/Kg	☼	09/16/15 15:00	09/17/15 10:53	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	09/16/15 14:15	09/16/15 16:55	1
pH	8.72		0.200	0.200	SU			09/14/15 15:56	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B11 (0-2)**

**Lab Sample ID: 500-101071-12**

**Date Collected: 09/10/15 10:15**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 83.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.027		0.027	0.0053	mg/Kg	☼	09/11/15 17:00	09/15/15 02:42	1
Benzene	<0.0068		0.0068	0.0015	mg/Kg	☼	09/11/15 17:00	09/15/15 02:42	1
Bromodichloromethane	<0.0068		0.0068	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 02:42	1
Bromoform	<0.0068		0.0068	0.0014	mg/Kg	☼	09/11/15 17:00	09/15/15 02:42	1
Bromomethane	<0.0068	*	0.0068	0.0025	mg/Kg	☼	09/11/15 17:00	09/15/15 02:42	1
2-Butanone (MEK)	<0.0068		0.0068	0.0024	mg/Kg	☼	09/11/15 17:00	09/15/15 02:42	1
Carbon disulfide	<0.0068		0.0068	0.0025	mg/Kg	☼	09/11/15 17:00	09/15/15 02:42	1
Carbon tetrachloride	<0.0068		0.0068	0.0015	mg/Kg	☼	09/11/15 17:00	09/15/15 02:42	1
Chlorobenzene	<0.0068		0.0068	0.0016	mg/Kg	☼	09/11/15 17:00	09/15/15 02:42	1
Chloroethane	<0.0068		0.0068	0.0029	mg/Kg	☼	09/11/15 17:00	09/15/15 02:42	1
Chloroform	<0.0068		0.0068	0.0013	mg/Kg	☼	09/11/15 17:00	09/15/15 02:42	1
Chloromethane	<0.0068		0.0068	0.0016	mg/Kg	☼	09/11/15 17:00	09/15/15 02:42	1
cis-1,2-Dichloroethene	<0.0068		0.0068	0.0014	mg/Kg	☼	09/11/15 17:00	09/15/15 02:42	1
cis-1,3-Dichloropropene	<0.0068		0.0068	0.0016	mg/Kg	☼	09/11/15 17:00	09/15/15 02:42	1
Dibromochloromethane	<0.0068		0.0068	0.00078	mg/Kg	☼	09/11/15 17:00	09/15/15 02:42	1
1,1-Dichloroethane	<0.0068		0.0068	0.0014	mg/Kg	☼	09/11/15 17:00	09/15/15 02:42	1
1,2-Dichloroethane	<0.0068		0.0068	0.0010	mg/Kg	☼	09/11/15 17:00	09/15/15 02:42	1
1,1-Dichloroethene	<0.0068		0.0068	0.0025	mg/Kg	☼	09/11/15 17:00	09/15/15 02:42	1
1,2-Dichloropropane	<0.0068		0.0068	0.0018	mg/Kg	☼	09/11/15 17:00	09/15/15 02:42	1
1,3-Dichloropropane, Total	<0.0068		0.0068	0.0019	mg/Kg	☼	09/11/15 17:00	09/15/15 02:42	1
Ethylbenzene	<0.0068		0.0068	0.0017	mg/Kg	☼	09/11/15 17:00	09/15/15 02:42	1
2-Hexanone	<0.0068		0.0068	0.0021	mg/Kg	☼	09/11/15 17:00	09/15/15 02:42	1
Methylene Chloride	<0.0068		0.0068	0.0051	mg/Kg	☼	09/11/15 17:00	09/15/15 02:42	1
4-Methyl-2-pentanone (MIBK)	<0.0068		0.0068	0.0014	mg/Kg	☼	09/11/15 17:00	09/15/15 02:42	1
Methyl tert-butyl ether	<0.0068		0.0068	0.0016	mg/Kg	☼	09/11/15 17:00	09/15/15 02:42	1
Styrene	<0.0068		0.0068	0.0016	mg/Kg	☼	09/11/15 17:00	09/15/15 02:42	1
1,1,2,2-Tetrachloroethane	<0.0068		0.0068	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 02:42	1
Tetrachloroethene	<0.0068		0.0068	0.0014	mg/Kg	☼	09/11/15 17:00	09/15/15 02:42	1
Toluene	<0.0068		0.0068	0.0024	mg/Kg	☼	09/11/15 17:00	09/15/15 02:42	1
trans-1,2-Dichloroethene	<0.0068		0.0068	0.0017	mg/Kg	☼	09/11/15 17:00	09/15/15 02:42	1
trans-1,3-Dichloropropene	<0.0068		0.0068	0.0019	mg/Kg	☼	09/11/15 17:00	09/15/15 02:42	1
1,1,1-Trichloroethane	<0.0068		0.0068	0.0016	mg/Kg	☼	09/11/15 17:00	09/15/15 02:42	1
1,1,2-Trichloroethane	<0.0068		0.0068	0.0013	mg/Kg	☼	09/11/15 17:00	09/15/15 02:42	1
Trichloroethene	<0.0068		0.0068	0.0018	mg/Kg	☼	09/11/15 17:00	09/15/15 02:42	1
Vinyl acetate	<0.0068		0.0068	0.0018	mg/Kg	☼	09/11/15 17:00	09/15/15 02:42	1
Vinyl chloride	<0.0068		0.0068	0.0016	mg/Kg	☼	09/11/15 17:00	09/15/15 02:42	1
Xylenes, Total	<0.014		0.014	0.0025	mg/Kg	☼	09/11/15 17:00	09/15/15 02:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 122	09/11/15 17:00	09/15/15 02:42	1
Dibromofluoromethane	105		75 - 120	09/11/15 17:00	09/15/15 02:42	1
1,2-Dichloroethane-d4 (Surr)	121		70 - 134	09/11/15 17:00	09/15/15 02:42	1
Toluene-d8 (Surr)	116		75 - 122	09/11/15 17:00	09/15/15 02:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	09/14/15 07:43	09/17/15 12:35	1
Acenaphthylene	0.013	J	0.038	0.0051	mg/Kg	☼	09/14/15 07:43	09/17/15 12:35	1
Anthracene	0.016	J	0.038	0.0064	mg/Kg	☼	09/14/15 07:43	09/17/15 12:35	1
Benzo[a]anthracene	0.12		0.038	0.0052	mg/Kg	☼	09/14/15 07:43	09/17/15 12:35	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B11 (0-2)**

**Lab Sample ID: 500-101071-12**

**Date Collected: 09/10/15 10:15**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 83.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.16		0.038	0.0075	mg/Kg	☼	09/14/15 07:43	09/17/15 12:35	1
Benzo[b]fluoranthene	0.33		0.038	0.0083	mg/Kg	☼	09/14/15 07:43	09/17/15 12:35	1
Benzo[g,h,i]perylene	0.097		0.038	0.012	mg/Kg	☼	09/14/15 07:43	09/17/15 12:35	1
Benzo[k]fluoranthene	0.087		0.038	0.011	mg/Kg	☼	09/14/15 07:43	09/17/15 12:35	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	09/14/15 07:43	09/17/15 12:35	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	09/14/15 07:43	09/17/15 12:35	1
Bis(2-ethylhexyl) phthalate	0.080	J	0.19	0.070	mg/Kg	☼	09/14/15 07:43	09/17/15 12:35	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	09/14/15 07:43	09/17/15 12:35	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	09/14/15 07:43	09/17/15 12:35	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	09/14/15 07:43	09/17/15 12:35	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	09/14/15 07:43	09/17/15 12:35	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	09/14/15 07:43	09/17/15 12:35	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	09/14/15 07:43	09/17/15 12:35	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	09/14/15 07:43	09/17/15 12:35	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	09/14/15 07:43	09/17/15 12:35	1
Chrysene	0.17		0.038	0.011	mg/Kg	☼	09/14/15 07:43	09/17/15 12:35	1
Dibenz(a,h)anthracene	0.024	J	0.038	0.0075	mg/Kg	☼	09/14/15 07:43	09/17/15 12:35	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/14/15 07:43	09/17/15 12:35	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	09/14/15 07:43	09/17/15 12:35	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/14/15 07:43	09/17/15 12:35	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	09/14/15 07:43	09/17/15 12:35	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	09/14/15 07:43	09/17/15 12:35	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	09/14/15 07:43	09/17/15 12:35	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	09/14/15 07:43	09/17/15 12:35	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	09/14/15 07:43	09/17/15 12:35	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/14/15 07:43	09/17/15 12:35	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	09/14/15 07:43	09/17/15 12:35	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	09/14/15 07:43	09/17/15 12:35	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	09/14/15 07:43	09/17/15 12:35	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	09/14/15 07:43	09/17/15 12:35	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	09/14/15 07:43	09/17/15 12:35	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	09/14/15 07:43	09/17/15 12:35	1
Fluoranthene	0.24		0.038	0.0071	mg/Kg	☼	09/14/15 07:43	09/17/15 12:35	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	09/14/15 07:43	09/17/15 12:35	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	09/14/15 07:43	09/17/15 12:35	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	09/14/15 07:43	09/17/15 12:35	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	09/14/15 07:43	09/17/15 12:35	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	09/14/15 07:43	09/17/15 12:35	1
Indeno[1,2,3-cd]pyrene	0.093		0.038	0.010	mg/Kg	☼	09/14/15 07:43	09/17/15 12:35	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	09/14/15 07:43	09/17/15 12:35	1
2-Methylnaphthalene	0.010	J	0.038	0.0071	mg/Kg	☼	09/14/15 07:43	09/17/15 12:35	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	09/14/15 07:43	09/17/15 12:35	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	09/14/15 07:43	09/17/15 12:35	1
Naphthalene	0.0099	J	0.038	0.0059	mg/Kg	☼	09/14/15 07:43	09/17/15 12:35	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	09/14/15 07:43	09/17/15 12:35	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	09/14/15 07:43	09/17/15 12:35	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	09/14/15 07:43	09/17/15 12:35	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	09/14/15 07:43	09/17/15 12:35	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	09/14/15 07:43	09/17/15 12:35	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B11 (0-2)**

**Lab Sample ID: 500-101071-12**

Date Collected: 09/10/15 10:15

Matrix: Solid

Date Received: 09/11/15 13:00

Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	09/14/15 07:43	09/17/15 12:35	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	09/14/15 07:43	09/17/15 12:35	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	09/14/15 07:43	09/17/15 12:35	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	09/14/15 07:43	09/17/15 12:35	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	09/14/15 07:43	09/17/15 12:35	1
<b>Phenanthrene</b>	<b>0.074</b>		0.038	0.0054	mg/Kg	☼	09/14/15 07:43	09/17/15 12:35	1
Phenol	<0.19		0.19	0.086	mg/Kg	☼	09/14/15 07:43	09/17/15 12:35	1
<b>Pyrene</b>	<b>0.25</b>		0.038	0.0077	mg/Kg	☼	09/14/15 07:43	09/17/15 12:35	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/14/15 07:43	09/17/15 12:35	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	09/14/15 07:43	09/17/15 12:35	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	09/14/15 07:43	09/17/15 12:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	91		25 - 119	09/14/15 07:43	09/17/15 12:35	1
2-Fluorophenol	49		25 - 110	09/14/15 07:43	09/17/15 12:35	1
Nitrobenzene-d5	92		25 - 115	09/14/15 07:43	09/17/15 12:35	1
Phenol-d5	85		31 - 110	09/14/15 07:43	09/17/15 12:35	1
Terphenyl-d14	125		36 - 134	09/14/15 07:43	09/17/15 12:35	1
2,4,6-Tribromophenol	47		35 - 137	09/14/15 07:43	09/17/15 12:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.31</b>	<b>J</b>	1.2	0.24	mg/Kg	☼	09/16/15 12:00	09/16/15 18:41	1
<b>Arsenic</b>	<b>8.1</b>		0.58	0.27	mg/Kg	☼	09/16/15 12:00	09/16/15 18:41	1
<b>Barium</b>	<b>68</b>		0.58	0.11	mg/Kg	☼	09/16/15 12:00	09/16/15 18:41	1
<b>Beryllium</b>	<b>0.71</b>		0.23	0.050	mg/Kg	☼	09/16/15 12:00	09/16/15 18:41	1
<b>Cadmium</b>	<b>0.31</b>	<b>B</b>	0.12	0.034	mg/Kg	☼	09/16/15 12:00	09/16/15 18:41	1
<b>Chromium</b>	<b>16</b>		0.58	0.10	mg/Kg	☼	09/16/15 12:00	09/16/15 18:41	1
<b>Cobalt</b>	<b>16</b>		0.29	0.065	mg/Kg	☼	09/16/15 12:00	09/16/15 18:41	1
<b>Copper</b>	<b>25</b>		0.58	0.13	mg/Kg	☼	09/16/15 12:00	09/16/15 18:41	1
<b>Iron</b>	<b>22000</b>	<b>B</b>	12	4.5	mg/Kg	☼	09/16/15 12:00	09/16/15 18:41	1
<b>Lead</b>	<b>63</b>		0.29	0.14	mg/Kg	☼	09/16/15 12:00	09/16/15 18:41	1
<b>Magnesium</b>	<b>21000</b>		5.8	2.3	mg/Kg	☼	09/16/15 12:00	09/16/15 18:41	1
<b>Calcium</b>	<b>47000</b>		12	3.7	mg/Kg	☼	09/16/15 12:00	09/17/15 21:05	1
<b>Manganese</b>	<b>440</b>		0.58	0.11	mg/Kg	☼	09/16/15 12:00	09/16/15 18:41	1
<b>Nickel</b>	<b>33</b>		0.58	0.16	mg/Kg	☼	09/16/15 12:00	09/16/15 18:41	1
<b>Selenium</b>	<b>0.50</b>	<b>J</b>	0.58	0.29	mg/Kg	☼	09/16/15 12:00	09/16/15 18:41	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	09/16/15 12:00	09/16/15 18:41	1
Thallium	<0.58		0.58	0.28	mg/Kg	☼	09/16/15 12:00	09/16/15 18:41	1
<b>Vanadium</b>	<b>19</b>		0.29	0.084	mg/Kg	☼	09/16/15 12:00	09/16/15 18:41	1
<b>Zinc</b>	<b>71</b>	<b>B</b>	1.2	0.37	mg/Kg	☼	09/16/15 12:00	09/17/15 21:05	1
<b>Potassium</b>	<b>1900</b>		29	4.7	mg/Kg	☼	09/16/15 12:00	09/16/15 18:41	1
<b>Sodium</b>	<b>2200</b>		58	7.6	mg/Kg	☼	09/16/15 12:00	09/17/15 21:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/18/15 09:30	09/18/15 21:12	1
<b>Barium</b>	<b>0.34</b>	<b>J</b>	0.50	0.050	mg/L		09/18/15 09:30	09/18/15 21:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/18/15 09:30	09/18/15 21:12	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/18/15 09:30	09/18/15 21:12	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B11 (0-2)**

**Lab Sample ID: 500-101071-12**

**Date Collected: 09/10/15 10:15**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 83.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>310</b>		2.5	0.50	mg/L		09/18/15 09:30	09/18/15 21:12	1
Chromium	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 21:12	1
Cobalt	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 21:12	1
<b>Copper</b>	<b>0.013</b>	<b>J</b>	0.025	0.010	mg/L		09/18/15 09:30	09/18/15 21:12	1
Iron	<0.20		0.20	0.20	mg/L		09/18/15 09:30	09/18/15 21:12	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/18/15 09:30	09/18/15 21:12	1
<b>Magnesium</b>	<b>50</b>		2.5	0.50	mg/L		09/18/15 09:30	09/18/15 21:12	1
<b>Manganese</b>	<b>0.095</b>		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 21:12	1
Nickel	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 21:12	1
<b>Potassium</b>	<b>3.2</b>		2.5	0.50	mg/L		09/18/15 09:30	09/18/15 21:12	1
Selenium	<0.050		0.050	0.020	mg/L		09/18/15 09:30	09/18/15 21:12	1
Silver	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 21:12	1
Vanadium	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 21:12	1
<b>Zinc</b>	<b>0.60</b>		0.10	0.020	mg/L		09/18/15 09:30	09/18/15 21:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.072</b>		0.050	0.010	mg/L		09/15/15 17:00	09/16/15 21:09	1
<b>Barium</b>	<b>0.58</b>		0.50	0.050	mg/L		09/15/15 17:00	09/16/15 21:09	1
<b>Beryllium</b>	<b>0.0074</b>		0.0040	0.0040	mg/L		09/15/15 17:00	09/16/15 21:09	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/15/15 17:00	09/16/15 21:09	1
<b>Calcium</b>	<b>49</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 21:09	1
<b>Chromium</b>	<b>0.19</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 21:09	1
<b>Cobalt</b>	<b>0.052</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 21:09	1
<b>Copper</b>	<b>0.20</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 21:09	1
<b>Iron</b>	<b>190</b>		0.20	0.20	mg/L		09/15/15 17:00	09/16/15 21:09	1
<b>Lead</b>	<b>0.32</b>		0.0075	0.0075	mg/L		09/15/15 17:00	09/16/15 21:09	1
<b>Magnesium</b>	<b>39</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 21:09	1
<b>Manganese</b>	<b>1.1</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 21:09	1
<b>Nickel</b>	<b>0.18</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 21:09	1
<b>Potassium</b>	<b>30</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 21:09	1
Selenium	<0.050		0.050	0.020	mg/L		09/15/15 17:00	09/16/15 21:09	1
Silver	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 21:09	1
<b>Vanadium</b>	<b>0.26</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 21:09	1
<b>Zinc</b>	<b>0.77</b>		0.10	0.020	mg/L		09/15/15 17:00	09/16/15 21:09	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		09/18/15 09:30	09/18/15 17:38	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/18/15 09:30	09/18/15 17:38	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/15/15 17:00	09/16/15 11:51	1
<b>Thallium</b>	<b>0.0022</b>		0.0020	0.0020	mg/L		09/15/15 17:00	09/16/15 11:51	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/15/15 18:30	09/16/15 11:41	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B11 (0-2)**

**Lab Sample ID: 500-101071-12**

**Date Collected: 09/10/15 10:15**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 83.1**

**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		09/18/15 15:30	09/21/15 09:37	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.041		0.019	0.0067	mg/Kg	☼	09/16/15 15:00	09/17/15 10:55	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.19	mg/Kg	☼	09/16/15 14:15	09/16/15 16:56	1
pH	8.92		0.200	0.200	SU			09/14/15 15:58	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B12 (0-2)**

**Lab Sample ID: 500-101071-13**

**Date Collected: 09/10/15 10:05**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 80.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.025		0.025	0.0048	mg/Kg	☼	09/11/15 17:00	09/15/15 03:08	1
Benzene	<0.0062		0.0062	0.0014	mg/Kg	☼	09/11/15 17:00	09/15/15 03:08	1
Bromodichloromethane	<0.0062		0.0062	0.0010	mg/Kg	☼	09/11/15 17:00	09/15/15 03:08	1
Bromoform	<0.0062		0.0062	0.0013	mg/Kg	☼	09/11/15 17:00	09/15/15 03:08	1
Bromomethane	<0.0062	*	0.0062	0.0023	mg/Kg	☼	09/11/15 17:00	09/15/15 03:08	1
2-Butanone (MEK)	<0.0062		0.0062	0.0022	mg/Kg	☼	09/11/15 17:00	09/15/15 03:08	1
Carbon disulfide	<0.0062		0.0062	0.0023	mg/Kg	☼	09/11/15 17:00	09/15/15 03:08	1
Carbon tetrachloride	<0.0062		0.0062	0.0013	mg/Kg	☼	09/11/15 17:00	09/15/15 03:08	1
Chlorobenzene	<0.0062		0.0062	0.0015	mg/Kg	☼	09/11/15 17:00	09/15/15 03:08	1
Chloroethane	<0.0062		0.0062	0.0026	mg/Kg	☼	09/11/15 17:00	09/15/15 03:08	1
Chloroform	<0.0062		0.0062	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 03:08	1
Chloromethane	<0.0062		0.0062	0.0015	mg/Kg	☼	09/11/15 17:00	09/15/15 03:08	1
cis-1,2-Dichloroethene	<0.0062		0.0062	0.0013	mg/Kg	☼	09/11/15 17:00	09/15/15 03:08	1
cis-1,3-Dichloropropene	<0.0062		0.0062	0.0014	mg/Kg	☼	09/11/15 17:00	09/15/15 03:08	1
Dibromochloromethane	<0.0062		0.0062	0.00071	mg/Kg	☼	09/11/15 17:00	09/15/15 03:08	1
1,1-Dichloroethane	<0.0062		0.0062	0.0013	mg/Kg	☼	09/11/15 17:00	09/15/15 03:08	1
1,2-Dichloroethane	<0.0062		0.0062	0.00091	mg/Kg	☼	09/11/15 17:00	09/15/15 03:08	1
1,1-Dichloroethene	<0.0062		0.0062	0.0022	mg/Kg	☼	09/11/15 17:00	09/15/15 03:08	1
1,2-Dichloropropane	<0.0062		0.0062	0.0016	mg/Kg	☼	09/11/15 17:00	09/15/15 03:08	1
1,3-Dichloropropane, Total	<0.0062		0.0062	0.0017	mg/Kg	☼	09/11/15 17:00	09/15/15 03:08	1
Ethylbenzene	<0.0062		0.0062	0.0015	mg/Kg	☼	09/11/15 17:00	09/15/15 03:08	1
2-Hexanone	<0.0062		0.0062	0.0019	mg/Kg	☼	09/11/15 17:00	09/15/15 03:08	1
Methylene Chloride	<0.0062		0.0062	0.0047	mg/Kg	☼	09/11/15 17:00	09/15/15 03:08	1
4-Methyl-2-pentanone (MIBK)	<0.0062		0.0062	0.0013	mg/Kg	☼	09/11/15 17:00	09/15/15 03:08	1
Methyl tert-butyl ether	<0.0062		0.0062	0.0015	mg/Kg	☼	09/11/15 17:00	09/15/15 03:08	1
Styrene	<0.0062		0.0062	0.0014	mg/Kg	☼	09/11/15 17:00	09/15/15 03:08	1
1,1,2,2-Tetrachloroethane	<0.0062		0.0062	0.00098	mg/Kg	☼	09/11/15 17:00	09/15/15 03:08	1
Tetrachloroethene	<0.0062		0.0062	0.0013	mg/Kg	☼	09/11/15 17:00	09/15/15 03:08	1
Toluene	<0.0062		0.0062	0.0021	mg/Kg	☼	09/11/15 17:00	09/15/15 03:08	1
trans-1,2-Dichloroethene	<0.0062		0.0062	0.0015	mg/Kg	☼	09/11/15 17:00	09/15/15 03:08	1
trans-1,3-Dichloropropene	<0.0062		0.0062	0.0017	mg/Kg	☼	09/11/15 17:00	09/15/15 03:08	1
1,1,1-Trichloroethane	<0.0062		0.0062	0.0014	mg/Kg	☼	09/11/15 17:00	09/15/15 03:08	1
1,1,2-Trichloroethane	<0.0062		0.0062	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 03:08	1
Trichloroethene	<0.0062		0.0062	0.0017	mg/Kg	☼	09/11/15 17:00	09/15/15 03:08	1
Vinyl acetate	<0.0062		0.0062	0.0017	mg/Kg	☼	09/11/15 17:00	09/15/15 03:08	1
Vinyl chloride	<0.0062		0.0062	0.0015	mg/Kg	☼	09/11/15 17:00	09/15/15 03:08	1
Xylenes, Total	<0.012		0.012	0.0023	mg/Kg	☼	09/11/15 17:00	09/15/15 03:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122	09/11/15 17:00	09/15/15 03:08	1
Dibromofluoromethane	105		75 - 120	09/11/15 17:00	09/15/15 03:08	1
1,2-Dichloroethane-d4 (Surr)	127		70 - 134	09/11/15 17:00	09/15/15 03:08	1
Toluene-d8 (Surr)	110		75 - 122	09/11/15 17:00	09/15/15 03:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	09/14/15 07:43	09/16/15 20:10	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	09/14/15 07:43	09/16/15 20:10	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	09/14/15 07:43	09/16/15 20:10	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	09/14/15 07:43	09/16/15 20:10	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B12 (0-2)**

**Lab Sample ID: 500-101071-13**

**Date Collected: 09/10/15 10:05**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 80.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.037</b>	<b>J</b>	0.040	0.0077	mg/Kg	☼	09/14/15 07:43	09/16/15 20:10	1
<b>Benzo[b]fluoranthene</b>	<b>0.044</b>		0.040	0.0086	mg/Kg	☼	09/14/15 07:43	09/16/15 20:10	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	09/14/15 07:43	09/16/15 20:10	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	09/14/15 07:43	09/16/15 20:10	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	09/14/15 07:43	09/16/15 20:10	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	09/14/15 07:43	09/16/15 20:10	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	09/14/15 07:43	09/16/15 20:10	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	09/14/15 07:43	09/16/15 20:10	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	09/14/15 07:43	09/16/15 20:10	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	09/14/15 07:43	09/16/15 20:10	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	09/14/15 07:43	09/16/15 20:10	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	09/14/15 07:43	09/16/15 20:10	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	09/14/15 07:43	09/16/15 20:10	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	09/14/15 07:43	09/16/15 20:10	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	09/14/15 07:43	09/16/15 20:10	1
<b>Chrysene</b>	<b>0.023</b>	<b>J</b>	0.040	0.011	mg/Kg	☼	09/14/15 07:43	09/16/15 20:10	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	09/14/15 07:43	09/16/15 20:10	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	09/14/15 07:43	09/16/15 20:10	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	09/14/15 07:43	09/16/15 20:10	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	09/14/15 07:43	09/16/15 20:10	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	09/14/15 07:43	09/16/15 20:10	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	09/14/15 07:43	09/16/15 20:10	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	09/14/15 07:43	09/16/15 20:10	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	09/14/15 07:43	09/16/15 20:10	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	09/14/15 07:43	09/16/15 20:10	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	09/14/15 07:43	09/16/15 20:10	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	09/14/15 07:43	09/16/15 20:10	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	09/14/15 07:43	09/16/15 20:10	1
2,4-Dinitrophenol	<0.81		0.81	0.70	mg/Kg	☼	09/14/15 07:43	09/16/15 20:10	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	09/14/15 07:43	09/16/15 20:10	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	09/14/15 07:43	09/16/15 20:10	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	09/14/15 07:43	09/16/15 20:10	1
<b>Fluoranthene</b>	<b>0.023</b>	<b>J</b>	0.040	0.0074	mg/Kg	☼	09/14/15 07:43	09/16/15 20:10	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	09/14/15 07:43	09/16/15 20:10	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	09/14/15 07:43	09/16/15 20:10	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	09/14/15 07:43	09/16/15 20:10	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	09/14/15 07:43	09/16/15 20:10	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	09/14/15 07:43	09/16/15 20:10	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	09/14/15 07:43	09/16/15 20:10	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	09/14/15 07:43	09/16/15 20:10	1
2-Methylnaphthalene	<0.040		0.040	0.0073	mg/Kg	☼	09/14/15 07:43	09/16/15 20:10	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	09/14/15 07:43	09/16/15 20:10	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	09/14/15 07:43	09/16/15 20:10	1
Naphthalene	<0.040		0.040	0.0061	mg/Kg	☼	09/14/15 07:43	09/16/15 20:10	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	09/14/15 07:43	09/16/15 20:10	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	09/14/15 07:43	09/16/15 20:10	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	09/14/15 07:43	09/16/15 20:10	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	09/14/15 07:43	09/16/15 20:10	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	09/14/15 07:43	09/16/15 20:10	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B12 (0-2)**

**Lab Sample ID: 500-101071-13**

Date Collected: 09/10/15 10:05

Matrix: Solid

Date Received: 09/11/15 13:00

Percent Solids: 80.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	09/14/15 07:43	09/16/15 20:10	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	09/14/15 07:43	09/16/15 20:10	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	09/14/15 07:43	09/16/15 20:10	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	09/14/15 07:43	09/16/15 20:10	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	☼	09/14/15 07:43	09/16/15 20:10	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	09/14/15 07:43	09/16/15 20:10	1
Phenol	<0.20		0.20	0.089	mg/Kg	☼	09/14/15 07:43	09/16/15 20:10	1
<b>Pyrene</b>	<b>0.048</b>		0.040	0.0079	mg/Kg	☼	09/14/15 07:43	09/16/15 20:10	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	09/14/15 07:43	09/16/15 20:10	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	09/14/15 07:43	09/16/15 20:10	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	09/14/15 07:43	09/16/15 20:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	85		25 - 119				09/14/15 07:43	09/16/15 20:10	1
2-Fluorophenol	79		25 - 110				09/14/15 07:43	09/16/15 20:10	1
Nitrobenzene-d5	93		25 - 115				09/14/15 07:43	09/16/15 20:10	1
Phenol-d5	81		31 - 110				09/14/15 07:43	09/16/15 20:10	1
Terphenyl-d14	172	X	36 - 134				09/14/15 07:43	09/16/15 20:10	1
2,4,6-Tribromophenol	64		35 - 137				09/14/15 07:43	09/16/15 20:10	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.35</b>	<b>J</b>	1.2	0.25	mg/Kg	☼	09/16/15 12:00	09/16/15 18:46	1
<b>Arsenic</b>	<b>8.5</b>		0.60	0.28	mg/Kg	☼	09/16/15 12:00	09/16/15 18:46	1
<b>Barium</b>	<b>93</b>		0.60	0.11	mg/Kg	☼	09/16/15 12:00	09/16/15 18:46	1
<b>Beryllium</b>	<b>0.72</b>		0.24	0.052	mg/Kg	☼	09/16/15 12:00	09/16/15 18:46	1
<b>Cadmium</b>	<b>0.36</b>	<b>B</b>	0.12	0.035	mg/Kg	☼	09/16/15 12:00	09/16/15 18:46	1
<b>Chromium</b>	<b>14</b>		0.60	0.10	mg/Kg	☼	09/16/15 12:00	09/16/15 18:46	1
<b>Cobalt</b>	<b>9.4</b>		0.30	0.068	mg/Kg	☼	09/16/15 12:00	09/16/15 18:46	1
<b>Copper</b>	<b>21</b>		0.60	0.13	mg/Kg	☼	09/16/15 12:00	09/16/15 18:46	1
<b>Iron</b>	<b>19000</b>	<b>B</b>	12	4.6	mg/Kg	☼	09/16/15 12:00	09/16/15 18:46	1
<b>Lead</b>	<b>49</b>		0.30	0.15	mg/Kg	☼	09/16/15 12:00	09/16/15 18:46	1
<b>Magnesium</b>	<b>5400</b>		6.0	2.4	mg/Kg	☼	09/16/15 12:00	09/16/15 18:46	1
<b>Calcium</b>	<b>8700</b>		12	3.9	mg/Kg	☼	09/16/15 12:00	09/16/15 18:46	1
<b>Manganese</b>	<b>430</b>		0.60	0.12	mg/Kg	☼	09/16/15 12:00	09/16/15 18:46	1
<b>Nickel</b>	<b>21</b>		0.60	0.16	mg/Kg	☼	09/16/15 12:00	09/16/15 18:46	1
Selenium	<0.60		0.60	0.30	mg/Kg	☼	09/16/15 12:00	09/16/15 18:46	1
Silver	<0.30		0.30	0.070	mg/Kg	☼	09/16/15 12:00	09/16/15 18:46	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	09/16/15 12:00	09/16/15 18:46	1
<b>Vanadium</b>	<b>23</b>		0.30	0.088	mg/Kg	☼	09/16/15 12:00	09/16/15 18:46	1
<b>Zinc</b>	<b>74</b>	<b>B</b>	1.2	0.38	mg/Kg	☼	09/16/15 12:00	09/17/15 21:19	1
<b>Potassium</b>	<b>1400</b>		30	4.9	mg/Kg	☼	09/16/15 12:00	09/16/15 18:46	1
<b>Sodium</b>	<b>2500</b>		60	7.9	mg/Kg	☼	09/16/15 12:00	09/17/15 21:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/18/15 09:30	09/18/15 21:35	1
<b>Barium</b>	<b>0.37</b>	<b>J</b>	0.50	0.050	mg/L		09/18/15 09:30	09/18/15 21:35	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/18/15 09:30	09/18/15 21:35	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/18/15 09:30	09/18/15 21:35	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B12 (0-2)**

**Lab Sample ID: 500-101071-13**

**Date Collected: 09/10/15 10:05**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 80.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>150</b>		2.5	0.50	mg/L		09/18/15 09:30	09/18/15 21:35	1
Chromium	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 21:35	1
Cobalt	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 21:35	1
<b>Copper</b>	<b>0.043</b>		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 21:35	1
Iron	<0.20		0.20	0.20	mg/L		09/18/15 09:30	09/18/15 21:35	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/18/15 09:30	09/18/15 21:35	1
<b>Magnesium</b>	<b>70</b>		2.5	0.50	mg/L		09/18/15 09:30	09/18/15 21:35	1
<b>Manganese</b>	<b>0.11</b>		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 21:35	1
Nickel	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 21:35	1
<b>Potassium</b>	<b>2.7</b>		2.5	0.50	mg/L		09/18/15 09:30	09/18/15 21:35	1
Selenium	<0.050		0.050	0.020	mg/L		09/18/15 09:30	09/18/15 21:35	1
Silver	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 21:35	1
Vanadium	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 21:35	1
<b>Zinc</b>	<b>0.10</b>		0.10	0.020	mg/L		09/18/15 09:30	09/18/15 21:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.058</b>		0.050	0.010	mg/L		09/15/15 17:00	09/16/15 21:15	1
<b>Barium</b>	<b>1.0</b>		0.50	0.050	mg/L		09/15/15 17:00	09/16/15 21:15	1
<b>Beryllium</b>	<b>0.0098</b>		0.0040	0.0040	mg/L		09/15/15 17:00	09/16/15 21:15	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/15/15 17:00	09/16/15 21:15	1
<b>Calcium</b>	<b>36</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 21:15	1
<b>Chromium</b>	<b>0.26</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 21:15	1
<b>Cobalt</b>	<b>0.056</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 21:15	1
<b>Copper</b>	<b>0.21</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 21:15	1
<b>Iron</b>	<b>220</b>		0.20	0.20	mg/L		09/15/15 17:00	09/16/15 21:15	1
<b>Lead</b>	<b>0.23</b>		0.0075	0.0075	mg/L		09/15/15 17:00	09/16/15 21:15	1
<b>Magnesium</b>	<b>39</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 21:15	1
<b>Manganese</b>	<b>1.4</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 21:15	1
<b>Nickel</b>	<b>0.19</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 21:15	1
<b>Potassium</b>	<b>23</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 21:15	1
Selenium	<0.050		0.050	0.020	mg/L		09/15/15 17:00	09/16/15 21:15	1
Silver	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 21:15	1
<b>Vanadium</b>	<b>0.37</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 21:15	1
<b>Zinc</b>	<b>1.9</b>		0.10	0.020	mg/L		09/15/15 17:00	09/16/15 21:15	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		09/18/15 09:30	09/18/15 17:39	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/18/15 09:30	09/18/15 17:39	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/15/15 17:00	09/16/15 11:53	1
<b>Thallium</b>	<b>0.0031</b>		0.0020	0.0020	mg/L		09/15/15 17:00	09/16/15 11:53	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.00039</b>		0.00020	0.00020	mg/L		09/15/15 18:30	09/16/15 11:42	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B12 (0-2)**

**Lab Sample ID: 500-101071-13**

**Date Collected: 09/10/15 10:05**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 80.1**

**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		09/18/15 15:30	09/21/15 09:39	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.041		0.018	0.0064	mg/Kg	☼	09/16/15 15:00	09/17/15 10:57	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.61		0.61	0.20	mg/Kg	☼	09/16/15 14:15	09/16/15 16:56	1
pH	8.77		0.200	0.200	SU			09/14/15 16:01	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B13 (0-2)**

**Lab Sample ID: 500-101071-14**

**Date Collected: 09/10/15 09:55**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 88.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0035	mg/Kg	☼	09/11/15 17:00	09/15/15 03:33	1
Benzene	<0.0045		0.0045	0.0010	mg/Kg	☼	09/11/15 17:00	09/15/15 03:33	1
Bromodichloromethane	<0.0045		0.0045	0.00076	mg/Kg	☼	09/11/15 17:00	09/15/15 03:33	1
Bromoform	<0.0045		0.0045	0.00091	mg/Kg	☼	09/11/15 17:00	09/15/15 03:33	1
Bromomethane	<0.0045	*	0.0045	0.0017	mg/Kg	☼	09/11/15 17:00	09/15/15 03:33	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	09/11/15 17:00	09/15/15 03:33	1
Carbon disulfide	<0.0045		0.0045	0.0017	mg/Kg	☼	09/11/15 17:00	09/15/15 03:33	1
Carbon tetrachloride	<0.0045		0.0045	0.00096	mg/Kg	☼	09/11/15 17:00	09/15/15 03:33	1
Chlorobenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 03:33	1
Chloroethane	<0.0045		0.0045	0.0019	mg/Kg	☼	09/11/15 17:00	09/15/15 03:33	1
Chloroform	<0.0045		0.0045	0.00087	mg/Kg	☼	09/11/15 17:00	09/15/15 03:33	1
Chloromethane	<0.0045		0.0045	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 03:33	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00091	mg/Kg	☼	09/11/15 17:00	09/15/15 03:33	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.0010	mg/Kg	☼	09/11/15 17:00	09/15/15 03:33	1
Dibromochloromethane	<0.0045		0.0045	0.00052	mg/Kg	☼	09/11/15 17:00	09/15/15 03:33	1
1,1-Dichloroethane	<0.0045		0.0045	0.00092	mg/Kg	☼	09/11/15 17:00	09/15/15 03:33	1
1,2-Dichloroethane	<0.0045		0.0045	0.00066	mg/Kg	☼	09/11/15 17:00	09/15/15 03:33	1
1,1-Dichloroethene	<0.0045		0.0045	0.0016	mg/Kg	☼	09/11/15 17:00	09/15/15 03:33	1
1,2-Dichloropropane	<0.0045		0.0045	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 03:33	1
1,3-Dichloropropane, Total	<0.0045		0.0045	0.0013	mg/Kg	☼	09/11/15 17:00	09/15/15 03:33	1
Ethylbenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 03:33	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	09/11/15 17:00	09/15/15 03:33	1
Methylene Chloride	<0.0045		0.0045	0.0034	mg/Kg	☼	09/11/15 17:00	09/15/15 03:33	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.00092	mg/Kg	☼	09/11/15 17:00	09/15/15 03:33	1
Methyl tert-butyl ether	<0.0045		0.0045	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 03:33	1
Styrene	<0.0045		0.0045	0.0010	mg/Kg	☼	09/11/15 17:00	09/15/15 03:33	1
1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	09/11/15 17:00	09/15/15 03:33	1
Tetrachloroethene	<0.0045		0.0045	0.00093	mg/Kg	☼	09/11/15 17:00	09/15/15 03:33	1
Toluene	<0.0045		0.0045	0.0016	mg/Kg	☼	09/11/15 17:00	09/15/15 03:33	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 03:33	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.0013	mg/Kg	☼	09/11/15 17:00	09/15/15 03:33	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.0010	mg/Kg	☼	09/11/15 17:00	09/15/15 03:33	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00087	mg/Kg	☼	09/11/15 17:00	09/15/15 03:33	1
Trichloroethene	<0.0045		0.0045	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 03:33	1
Vinyl acetate	<0.0045		0.0045	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 03:33	1
Vinyl chloride	<0.0045		0.0045	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 03:33	1
Xylenes, Total	<0.0090		0.0090	0.0017	mg/Kg	☼	09/11/15 17:00	09/15/15 03:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 122	09/11/15 17:00	09/15/15 03:33	1
Dibromofluoromethane	103		75 - 120	09/11/15 17:00	09/15/15 03:33	1
1,2-Dichloroethane-d4 (Surr)	127		70 - 134	09/11/15 17:00	09/15/15 03:33	1
Toluene-d8 (Surr)	112		75 - 122	09/11/15 17:00	09/15/15 03:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0066	mg/Kg	☼	09/14/15 07:43	09/17/15 14:08	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	09/14/15 07:43	09/17/15 14:08	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	09/14/15 07:43	09/17/15 14:08	1
<b>Benzo[a]anthracene</b>	<b>0.045</b>		0.037	0.0050	mg/Kg	☼	09/14/15 07:43	09/17/15 14:08	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B13 (0-2)**

**Lab Sample ID: 500-101071-14**

**Date Collected: 09/10/15 09:55**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 88.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.064</b>		0.037	0.0071	mg/Kg	☼	09/14/15 07:43	09/17/15 14:08	1
<b>Benzo[b]fluoranthene</b>	<b>0.10</b>		0.037	0.0080	mg/Kg	☼	09/14/15 07:43	09/17/15 14:08	1
<b>Benzo[g,h,i]perylene</b>	<b>0.044</b>		0.037	0.012	mg/Kg	☼	09/14/15 07:43	09/17/15 14:08	1
<b>Benzo[k]fluoranthene</b>	<b>0.036</b>	<b>J</b>	0.037	0.011	mg/Kg	☼	09/14/15 07:43	09/17/15 14:08	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	09/14/15 07:43	09/17/15 14:08	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	09/14/15 07:43	09/17/15 14:08	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.067	mg/Kg	☼	09/14/15 07:43	09/17/15 14:08	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	09/14/15 07:43	09/17/15 14:08	1
Butyl benzyl phthalate	<0.19		0.19	0.070	mg/Kg	☼	09/14/15 07:43	09/17/15 14:08	1
Carbazole	<0.19		0.19	0.092	mg/Kg	☼	09/14/15 07:43	09/17/15 14:08	1
4-Chloroaniline	<0.74		0.74	0.17	mg/Kg	☼	09/14/15 07:43	09/17/15 14:08	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	09/14/15 07:43	09/17/15 14:08	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	09/14/15 07:43	09/17/15 14:08	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	09/14/15 07:43	09/17/15 14:08	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	09/14/15 07:43	09/17/15 14:08	1
<b>Chrysene</b>	<b>0.060</b>		0.037	0.010	mg/Kg	☼	09/14/15 07:43	09/17/15 14:08	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0071	mg/Kg	☼	09/14/15 07:43	09/17/15 14:08	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	☼	09/14/15 07:43	09/17/15 14:08	1
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	09/14/15 07:43	09/17/15 14:08	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/14/15 07:43	09/17/15 14:08	1
1,4-Dichlorobenzene	<0.19		0.19	0.047	mg/Kg	☼	09/14/15 07:43	09/17/15 14:08	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	09/14/15 07:43	09/17/15 14:08	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	09/14/15 07:43	09/17/15 14:08	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	09/14/15 07:43	09/17/15 14:08	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	09/14/15 07:43	09/17/15 14:08	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/14/15 07:43	09/17/15 14:08	1
Di-n-butyl phthalate	<0.19		0.19	0.056	mg/Kg	☼	09/14/15 07:43	09/17/15 14:08	1
4,6-Dinitro-2-methylphenol	<0.74		0.74	0.30	mg/Kg	☼	09/14/15 07:43	09/17/15 14:08	1
2,4-Dinitrophenol	<0.74		0.74	0.65	mg/Kg	☼	09/14/15 07:43	09/17/15 14:08	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	09/14/15 07:43	09/17/15 14:08	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	09/14/15 07:43	09/17/15 14:08	1
Di-n-octyl phthalate	<0.19		0.19	0.060	mg/Kg	☼	09/14/15 07:43	09/17/15 14:08	1
<b>Fluoranthene</b>	<b>0.073</b>		0.037	0.0068	mg/Kg	☼	09/14/15 07:43	09/17/15 14:08	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	09/14/15 07:43	09/17/15 14:08	1
Hexachlorobenzene	<0.074		0.074	0.0086	mg/Kg	☼	09/14/15 07:43	09/17/15 14:08	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	09/14/15 07:43	09/17/15 14:08	1
Hexachlorocyclopentadiene	<0.74		0.74	0.21	mg/Kg	☼	09/14/15 07:43	09/17/15 14:08	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	09/14/15 07:43	09/17/15 14:08	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.048</b>		0.037	0.0096	mg/Kg	☼	09/14/15 07:43	09/17/15 14:08	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	09/14/15 07:43	09/17/15 14:08	1
2-Methylnaphthalene	<0.037		0.037	0.0068	mg/Kg	☼	09/14/15 07:43	09/17/15 14:08	1
2-Methylphenol	<0.19		0.19	0.059	mg/Kg	☼	09/14/15 07:43	09/17/15 14:08	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	09/14/15 07:43	09/17/15 14:08	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	09/14/15 07:43	09/17/15 14:08	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	09/14/15 07:43	09/17/15 14:08	1
3-Nitroaniline	<0.37		0.37	0.11	mg/Kg	☼	09/14/15 07:43	09/17/15 14:08	1
4-Nitroaniline	<0.37		0.37	0.15	mg/Kg	☼	09/14/15 07:43	09/17/15 14:08	1
Nitrobenzene	<0.037		0.037	0.0092	mg/Kg	☼	09/14/15 07:43	09/17/15 14:08	1
2-Nitrophenol	<0.37		0.37	0.087	mg/Kg	☼	09/14/15 07:43	09/17/15 14:08	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B13 (0-2)**

**Lab Sample ID: 500-101071-14**

**Date Collected: 09/10/15 09:55**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 88.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.74		0.74	0.35	mg/Kg	☼	09/14/15 07:43	09/17/15 14:08	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.045	mg/Kg	☼	09/14/15 07:43	09/17/15 14:08	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	09/14/15 07:43	09/17/15 14:08	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	09/14/15 07:43	09/17/15 14:08	1
Pentachlorophenol	<0.74		0.74	0.59	mg/Kg	☼	09/14/15 07:43	09/17/15 14:08	1
<b>Phenanthrene</b>	<b>0.030</b>	<b>J</b>	0.037	0.0051	mg/Kg	☼	09/14/15 07:43	09/17/15 14:08	1
Phenol	<0.19		0.19	0.082	mg/Kg	☼	09/14/15 07:43	09/17/15 14:08	1
<b>Pyrene</b>	<b>0.13</b>		0.037	0.0073	mg/Kg	☼	09/14/15 07:43	09/17/15 14:08	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/14/15 07:43	09/17/15 14:08	1
2,4,5-Trichlorophenol	<0.37		0.37	0.084	mg/Kg	☼	09/14/15 07:43	09/17/15 14:08	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	09/14/15 07:43	09/17/15 14:08	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorobiphenyl	82		25 - 119				09/14/15 07:43	09/17/15 14:08	1
2-Fluorophenol	80		25 - 110				09/14/15 07:43	09/17/15 14:08	1
Nitrobenzene-d5	84		25 - 115				09/14/15 07:43	09/17/15 14:08	1
Phenol-d5	87		31 - 110				09/14/15 07:43	09/17/15 14:08	1
Terphenyl-d14	176	X	36 - 134				09/14/15 07:43	09/17/15 14:08	1
2,4,6-Tribromophenol	67		35 - 137				09/14/15 07:43	09/17/15 14:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.35</b>	<b>J</b>	1.1	0.22	mg/Kg	☼	09/16/15 12:00	09/16/15 18:51	1
<b>Arsenic</b>	<b>7.8</b>		0.53	0.24	mg/Kg	☼	09/16/15 12:00	09/16/15 18:51	1
<b>Barium</b>	<b>61</b>		0.53	0.097	mg/Kg	☼	09/16/15 12:00	09/16/15 18:51	1
<b>Beryllium</b>	<b>0.67</b>		0.21	0.046	mg/Kg	☼	09/16/15 12:00	09/16/15 18:51	1
<b>Cadmium</b>	<b>0.27</b>	<b>B</b>	0.11	0.031	mg/Kg	☼	09/16/15 12:00	09/16/15 18:51	1
<b>Chromium</b>	<b>15</b>		0.53	0.091	mg/Kg	☼	09/16/15 12:00	09/16/15 18:51	1
<b>Cobalt</b>	<b>18</b>		0.27	0.060	mg/Kg	☼	09/16/15 12:00	09/16/15 18:51	1
<b>Copper</b>	<b>21</b>		0.53	0.12	mg/Kg	☼	09/16/15 12:00	09/16/15 18:51	1
<b>Iron</b>	<b>20000</b>	<b>B</b>	11	4.1	mg/Kg	☼	09/16/15 12:00	09/16/15 18:51	1
<b>Lead</b>	<b>20</b>		0.27	0.13	mg/Kg	☼	09/16/15 12:00	09/16/15 18:51	1
<b>Magnesium</b>	<b>22000</b>		5.3	2.2	mg/Kg	☼	09/16/15 12:00	09/16/15 18:51	1
<b>Calcium</b>	<b>50000</b>		11	3.4	mg/Kg	☼	09/16/15 12:00	09/17/15 21:25	1
<b>Manganese</b>	<b>560</b>		0.53	0.10	mg/Kg	☼	09/16/15 12:00	09/16/15 18:51	1
<b>Nickel</b>	<b>36</b>		0.53	0.14	mg/Kg	☼	09/16/15 12:00	09/16/15 18:51	1
Selenium	<0.53		0.53	0.26	mg/Kg	☼	09/16/15 12:00	09/16/15 18:51	1
Silver	<0.27		0.27	0.062	mg/Kg	☼	09/16/15 12:00	09/16/15 18:51	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	09/16/15 12:00	09/16/15 18:51	1
<b>Vanadium</b>	<b>18</b>		0.27	0.077	mg/Kg	☼	09/16/15 12:00	09/16/15 18:51	1
<b>Zinc</b>	<b>50</b>	<b>B</b>	1.1	0.34	mg/Kg	☼	09/16/15 12:00	09/17/15 21:25	1
<b>Potassium</b>	<b>2100</b>		27	4.3	mg/Kg	☼	09/16/15 12:00	09/16/15 18:51	1
<b>Sodium</b>	<b>1800</b>		53	7.0	mg/Kg	☼	09/16/15 12:00	09/17/15 21:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/18/15 09:30	09/18/15 21:41	1
<b>Barium</b>	<b>0.41</b>	<b>J</b>	0.50	0.050	mg/L		09/18/15 09:30	09/18/15 21:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/18/15 09:30	09/18/15 21:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/18/15 09:30	09/18/15 21:41	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B13 (0-2)**

**Lab Sample ID: 500-101071-14**

**Date Collected: 09/10/15 09:55**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 88.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>300</b>		2.5	0.50	mg/L		09/18/15 09:30	09/18/15 21:41	1
Chromium	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 21:41	1
Cobalt	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 21:41	1
Copper	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 21:41	1
Iron	<0.20		0.20	0.20	mg/L		09/18/15 09:30	09/18/15 21:41	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/18/15 09:30	09/18/15 21:41	1
<b>Magnesium</b>	<b>51</b>		2.5	0.50	mg/L		09/18/15 09:30	09/18/15 21:41	1
Manganese	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 21:41	1
Nickel	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 21:41	1
<b>Potassium</b>	<b>4.7</b>		2.5	0.50	mg/L		09/18/15 09:30	09/18/15 21:41	1
Selenium	<0.050		0.050	0.020	mg/L		09/18/15 09:30	09/18/15 21:41	1
Silver	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 21:41	1
Vanadium	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 21:41	1
<b>Zinc</b>	<b>0.28</b>		0.10	0.020	mg/L		09/18/15 09:30	09/18/15 21:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.048</b>	<b>J</b>	0.050	0.010	mg/L		09/15/15 17:00	09/16/15 21:22	1
<b>Barium</b>	<b>0.43</b>	<b>J</b>	0.50	0.050	mg/L		09/15/15 17:00	09/16/15 21:22	1
<b>Beryllium</b>	<b>0.0050</b>		0.0040	0.0040	mg/L		09/15/15 17:00	09/16/15 21:22	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/15/15 17:00	09/16/15 21:22	1
<b>Calcium</b>	<b>32</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 21:22	1
<b>Chromium</b>	<b>0.12</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 21:22	1
<b>Cobalt</b>	<b>0.035</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 21:22	1
<b>Copper</b>	<b>0.14</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 21:22	1
<b>Iron</b>	<b>130</b>		0.20	0.20	mg/L		09/15/15 17:00	09/16/15 21:22	1
<b>Lead</b>	<b>0.21</b>		0.0075	0.0075	mg/L		09/15/15 17:00	09/16/15 21:22	1
<b>Magnesium</b>	<b>26</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 21:22	1
<b>Manganese</b>	<b>0.99</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 21:22	1
<b>Nickel</b>	<b>0.12</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 21:22	1
<b>Potassium</b>	<b>20</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 21:22	1
Selenium	<0.050		0.050	0.020	mg/L		09/15/15 17:00	09/16/15 21:22	1
Silver	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 21:22	1
<b>Vanadium</b>	<b>0.18</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 21:22	1
<b>Zinc</b>	<b>0.50</b>		0.10	0.020	mg/L		09/15/15 17:00	09/16/15 21:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/18/15 09:30	09/18/15 17:40	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/18/15 09:30	09/18/15 17:40	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/15/15 17:00	09/16/15 11:54	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/15/15 17:00	09/16/15 11:54	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/15/15 18:30	09/16/15 11:44	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B13 (0-2)**

**Lab Sample ID: 500-101071-14**

**Date Collected: 09/10/15 09:55**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 88.2**

**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		09/18/15 15:30	09/21/15 09:40	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.017	0.0058	mg/Kg	☼	09/16/15 15:00	09/17/15 10:59	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.18	mg/Kg	☼	09/16/15 14:15	09/16/15 16:56	1
pH	8.99		0.200	0.200	SU			09/14/15 16:04	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B14 (0-2)**

**Lab Sample ID: 500-101071-15**

**Date Collected: 09/10/15 09:40**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 86.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0034	mg/Kg	☼	09/11/15 17:00	09/15/15 03:57	1
Benzene	<0.0044		0.0044	0.00098	mg/Kg	☼	09/11/15 17:00	09/15/15 03:57	1
Bromodichloromethane	<0.0044		0.0044	0.00074	mg/Kg	☼	09/11/15 17:00	09/15/15 03:57	1
Bromoform	<0.0044		0.0044	0.00090	mg/Kg	☼	09/11/15 17:00	09/15/15 03:57	1
Bromomethane	<0.0044	*	0.0044	0.0016	mg/Kg	☼	09/11/15 17:00	09/15/15 03:57	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	09/11/15 17:00	09/15/15 03:57	1
Carbon disulfide	<0.0044		0.0044	0.0016	mg/Kg	☼	09/11/15 17:00	09/15/15 03:57	1
Carbon tetrachloride	<0.0044		0.0044	0.00094	mg/Kg	☼	09/11/15 17:00	09/15/15 03:57	1
Chlorobenzene	<0.0044		0.0044	0.0010	mg/Kg	☼	09/11/15 17:00	09/15/15 03:57	1
Chloroethane	<0.0044		0.0044	0.0019	mg/Kg	☼	09/11/15 17:00	09/15/15 03:57	1
Chloroform	<0.0044		0.0044	0.00086	mg/Kg	☼	09/11/15 17:00	09/15/15 03:57	1
Chloromethane	<0.0044		0.0044	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 03:57	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00090	mg/Kg	☼	09/11/15 17:00	09/15/15 03:57	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.0010	mg/Kg	☼	09/11/15 17:00	09/15/15 03:57	1
Dibromochloromethane	<0.0044		0.0044	0.00051	mg/Kg	☼	09/11/15 17:00	09/15/15 03:57	1
1,1-Dichloroethane	<0.0044		0.0044	0.00091	mg/Kg	☼	09/11/15 17:00	09/15/15 03:57	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	09/11/15 17:00	09/15/15 03:57	1
1,1-Dichloroethene	<0.0044		0.0044	0.0016	mg/Kg	☼	09/11/15 17:00	09/15/15 03:57	1
1,2-Dichloropropane	<0.0044		0.0044	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 03:57	1
1,3-Dichloropropane, Total	<0.0044		0.0044	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 03:57	1
Ethylbenzene	<0.0044		0.0044	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 03:57	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	09/11/15 17:00	09/15/15 03:57	1
Methylene Chloride	<0.0044		0.0044	0.0033	mg/Kg	☼	09/11/15 17:00	09/15/15 03:57	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.00091	mg/Kg	☼	09/11/15 17:00	09/15/15 03:57	1
Methyl tert-butyl ether	<0.0044		0.0044	0.0010	mg/Kg	☼	09/11/15 17:00	09/15/15 03:57	1
Styrene	<0.0044		0.0044	0.0010	mg/Kg	☼	09/11/15 17:00	09/15/15 03:57	1
1,1,2,2-Tetrachloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	09/11/15 17:00	09/15/15 03:57	1
Tetrachloroethene	<0.0044		0.0044	0.00092	mg/Kg	☼	09/11/15 17:00	09/15/15 03:57	1
Toluene	<0.0044		0.0044	0.0015	mg/Kg	☼	09/11/15 17:00	09/15/15 03:57	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 03:57	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 03:57	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.0010	mg/Kg	☼	09/11/15 17:00	09/15/15 03:57	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00085	mg/Kg	☼	09/11/15 17:00	09/15/15 03:57	1
Trichloroethene	<0.0044		0.0044	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 03:57	1
Vinyl acetate	<0.0044		0.0044	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 03:57	1
Vinyl chloride	<0.0044		0.0044	0.0010	mg/Kg	☼	09/11/15 17:00	09/15/15 03:57	1
Xylenes, Total	<0.0088		0.0088	0.0016	mg/Kg	☼	09/11/15 17:00	09/15/15 03:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 122	09/11/15 17:00	09/15/15 03:57	1
Dibromofluoromethane	105		75 - 120	09/11/15 17:00	09/15/15 03:57	1
1,2-Dichloroethane-d4 (Surr)	123		70 - 134	09/11/15 17:00	09/15/15 03:57	1
Toluene-d8 (Surr)	114		75 - 122	09/11/15 17:00	09/15/15 03:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	09/14/15 07:43	09/16/15 16:00	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	09/14/15 07:43	09/16/15 16:00	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	09/14/15 07:43	09/16/15 16:00	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	09/14/15 07:43	09/16/15 16:00	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B14 (0-2)**

**Lab Sample ID: 500-101071-15**

**Date Collected: 09/10/15 09:40**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 86.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	09/14/15 07:43	09/16/15 16:00	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	09/14/15 07:43	09/16/15 16:00	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	09/14/15 07:43	09/16/15 16:00	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	09/14/15 07:43	09/16/15 16:00	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	09/14/15 07:43	09/16/15 16:00	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	09/14/15 07:43	09/16/15 16:00	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	09/14/15 07:43	09/16/15 16:00	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	09/14/15 07:43	09/16/15 16:00	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	09/14/15 07:43	09/16/15 16:00	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	09/14/15 07:43	09/16/15 16:00	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	09/14/15 07:43	09/16/15 16:00	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	09/14/15 07:43	09/16/15 16:00	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	09/14/15 07:43	09/16/15 16:00	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	09/14/15 07:43	09/16/15 16:00	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	09/14/15 07:43	09/16/15 16:00	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	09/14/15 07:43	09/16/15 16:00	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	09/14/15 07:43	09/16/15 16:00	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	09/14/15 07:43	09/16/15 16:00	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	09/14/15 07:43	09/16/15 16:00	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/14/15 07:43	09/16/15 16:00	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	09/14/15 07:43	09/16/15 16:00	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	09/14/15 07:43	09/16/15 16:00	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	09/14/15 07:43	09/16/15 16:00	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	09/14/15 07:43	09/16/15 16:00	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	09/14/15 07:43	09/16/15 16:00	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	09/14/15 07:43	09/16/15 16:00	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	09/14/15 07:43	09/16/15 16:00	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	09/14/15 07:43	09/16/15 16:00	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	09/14/15 07:43	09/16/15 16:00	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	09/14/15 07:43	09/16/15 16:00	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	09/14/15 07:43	09/16/15 16:00	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	09/14/15 07:43	09/16/15 16:00	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	09/14/15 07:43	09/16/15 16:00	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	09/14/15 07:43	09/16/15 16:00	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	09/14/15 07:43	09/16/15 16:00	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	09/14/15 07:43	09/16/15 16:00	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	09/14/15 07:43	09/16/15 16:00	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	09/14/15 07:43	09/16/15 16:00	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	09/14/15 07:43	09/16/15 16:00	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/14/15 07:43	09/16/15 16:00	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	09/14/15 07:43	09/16/15 16:00	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	09/14/15 07:43	09/16/15 16:00	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	09/14/15 07:43	09/16/15 16:00	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	09/14/15 07:43	09/16/15 16:00	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	09/14/15 07:43	09/16/15 16:00	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	09/14/15 07:43	09/16/15 16:00	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	09/14/15 07:43	09/16/15 16:00	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	09/14/15 07:43	09/16/15 16:00	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	09/14/15 07:43	09/16/15 16:00	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B14 (0-2)**

**Lab Sample ID: 500-101071-15**

**Date Collected: 09/10/15 09:40**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 86.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	09/14/15 07:43	09/16/15 16:00	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	09/14/15 07:43	09/16/15 16:00	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	09/14/15 07:43	09/16/15 16:00	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	09/14/15 07:43	09/16/15 16:00	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	09/14/15 07:43	09/16/15 16:00	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	09/14/15 07:43	09/16/15 16:00	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	09/14/15 07:43	09/16/15 16:00	1
Pyrene	<0.037		0.037	0.0074	mg/Kg	☼	09/14/15 07:43	09/16/15 16:00	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/14/15 07:43	09/16/15 16:00	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	09/14/15 07:43	09/16/15 16:00	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	09/14/15 07:43	09/16/15 16:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	87		25 - 119	09/14/15 07:43	09/16/15 16:00	1
2-Fluorophenol	82		25 - 110	09/14/15 07:43	09/16/15 16:00	1
Nitrobenzene-d5	100		25 - 115	09/14/15 07:43	09/16/15 16:00	1
Phenol-d5	91		31 - 110	09/14/15 07:43	09/16/15 16:00	1
Terphenyl-d14	111		36 - 134	09/14/15 07:43	09/16/15 16:00	1
2,4,6-Tribromophenol	60		35 - 137	09/14/15 07:43	09/16/15 16:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.53</b>	<b>J</b>	1.2	0.24	mg/Kg	☼	09/16/15 12:00	09/16/15 19:06	1
<b>Arsenic</b>	<b>11</b>		0.58	0.27	mg/Kg	☼	09/16/15 12:00	09/16/15 19:06	1
<b>Barium</b>	<b>51</b>		0.58	0.11	mg/Kg	☼	09/16/15 12:00	09/16/15 19:06	1
<b>Beryllium</b>	<b>0.70</b>		0.23	0.050	mg/Kg	☼	09/16/15 12:00	09/16/15 19:06	1
<b>Cadmium</b>	<b>0.23</b>	<b>B</b>	0.12	0.033	mg/Kg	☼	09/16/15 12:00	09/16/15 19:06	1
<b>Chromium</b>	<b>14</b>		0.58	0.099	mg/Kg	☼	09/16/15 12:00	09/16/15 19:06	1
<b>Cobalt</b>	<b>12</b>		0.29	0.065	mg/Kg	☼	09/16/15 12:00	09/16/15 19:06	1
<b>Copper</b>	<b>28</b>		0.58	0.13	mg/Kg	☼	09/16/15 12:00	09/16/15 19:06	1
<b>Iron</b>	<b>24000</b>	<b>B</b>	12	4.5	mg/Kg	☼	09/16/15 12:00	09/16/15 19:06	1
<b>Lead</b>	<b>18</b>		0.29	0.14	mg/Kg	☼	09/16/15 12:00	09/16/15 19:06	1
<b>Magnesium</b>	<b>22000</b>		5.8	2.3	mg/Kg	☼	09/16/15 12:00	09/16/15 19:06	1
<b>Calcium</b>	<b>43000</b>		12	3.7	mg/Kg	☼	09/16/15 12:00	09/17/15 21:39	1
<b>Manganese</b>	<b>440</b>		0.58	0.11	mg/Kg	☼	09/16/15 12:00	09/16/15 19:06	1
<b>Nickel</b>	<b>34</b>		0.58	0.16	mg/Kg	☼	09/16/15 12:00	09/16/15 19:06	1
Selenium	<0.58		0.58	0.29	mg/Kg	☼	09/16/15 12:00	09/16/15 19:06	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	09/16/15 12:00	09/16/15 19:06	1
Thallium	<0.58		0.58	0.28	mg/Kg	☼	09/16/15 12:00	09/16/15 19:06	1
<b>Vanadium</b>	<b>18</b>		0.29	0.084	mg/Kg	☼	09/16/15 12:00	09/16/15 19:06	1
<b>Zinc</b>	<b>53</b>	<b>B</b>	1.2	0.37	mg/Kg	☼	09/16/15 12:00	09/17/15 21:39	1
<b>Potassium</b>	<b>2000</b>		29	4.7	mg/Kg	☼	09/16/15 12:00	09/16/15 19:06	1
<b>Sodium</b>	<b>3700</b>		580	76	mg/Kg	☼	09/16/15 12:00	09/17/15 21:45	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/18/15 09:30	09/18/15 21:48	1
<b>Barium</b>	<b>0.44</b>	<b>J</b>	0.50	0.050	mg/L		09/18/15 09:30	09/18/15 21:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/18/15 09:30	09/18/15 21:48	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/18/15 09:30	09/18/15 21:48	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B14 (0-2)**

**Lab Sample ID: 500-101071-15**

**Date Collected: 09/10/15 09:40**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 86.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>370</b>		2.5	0.50	mg/L		09/18/15 09:30	09/18/15 21:48	1
Chromium	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 21:48	1
Cobalt	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 21:48	1
Copper	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 21:48	1
Iron	<0.20		0.20	0.20	mg/L		09/18/15 09:30	09/18/15 21:48	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/18/15 09:30	09/18/15 21:48	1
<b>Magnesium</b>	<b>29</b>		2.5	0.50	mg/L		09/18/15 09:30	09/18/15 21:48	1
<b>Manganese</b>	<b>0.22</b>		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 21:48	1
Nickel	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 21:48	1
<b>Potassium</b>	<b>2.9</b>		2.5	0.50	mg/L		09/18/15 09:30	09/18/15 21:48	1
Selenium	<0.050		0.050	0.020	mg/L		09/18/15 09:30	09/18/15 21:48	1
Silver	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 21:48	1
Vanadium	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 21:48	1
<b>Zinc</b>	<b>0.081</b>	<b>J</b>	0.10	0.020	mg/L		09/18/15 09:30	09/18/15 21:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.053</b>		0.050	0.010	mg/L		09/15/15 17:00	09/16/15 21:29	1
<b>Barium</b>	<b>0.40</b>	<b>J</b>	0.50	0.050	mg/L		09/15/15 17:00	09/16/15 21:29	1
<b>Beryllium</b>	<b>0.0042</b>		0.0040	0.0040	mg/L		09/15/15 17:00	09/16/15 21:29	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/15/15 17:00	09/16/15 21:29	1
<b>Calcium</b>	<b>30</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 21:29	1
<b>Chromium</b>	<b>0.099</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 21:29	1
<b>Cobalt</b>	<b>0.033</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 21:29	1
<b>Copper</b>	<b>0.16</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 21:29	1
<b>Iron</b>	<b>120</b>		0.20	0.20	mg/L		09/15/15 17:00	09/16/15 21:29	1
<b>Lead</b>	<b>0.049</b>		0.0075	0.0075	mg/L		09/15/15 17:00	09/16/15 21:29	1
<b>Magnesium</b>	<b>27</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 21:29	1
<b>Manganese</b>	<b>0.56</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 21:29	1
<b>Nickel</b>	<b>0.13</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 21:29	1
<b>Potassium</b>	<b>24</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 21:29	1
Selenium	<0.050		0.050	0.020	mg/L		09/15/15 17:00	09/16/15 21:29	1
Silver	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 21:29	1
<b>Vanadium</b>	<b>0.12</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 21:29	1
<b>Zinc</b>	<b>0.47</b>		0.10	0.020	mg/L		09/15/15 17:00	09/16/15 21:29	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		09/18/15 09:30	09/18/15 17:43	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/18/15 09:30	09/18/15 17:43	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/15/15 17:00	09/16/15 11:56	1
<b>Thallium</b>	<b>0.0055</b>		0.0020	0.0020	mg/L		09/15/15 17:00	09/16/15 11:56	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/15/15 18:30	09/16/15 11:47	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B14 (0-2)**

**Lab Sample ID: 500-101071-15**

**Date Collected: 09/10/15 09:40**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 86.4**

**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		09/18/15 15:30	09/21/15 09:46	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.017	0.0061	mg/Kg	☼	09/16/15 15:00	09/17/15 11:01	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.54		0.54	0.18	mg/Kg	☼	09/16/15 14:15	09/16/15 16:57	1
pH	8.79		0.200	0.200	SU			09/15/15 12:47	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B15 (0-2)**

**Lab Sample ID: 500-101071-16**

**Date Collected: 09/10/15 09:25**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 79.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.022		0.022	0.0042	mg/Kg	☼	09/11/15 17:00	09/15/15 04:22	1
Benzene	<0.0054		0.0054	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 04:22	1
Bromodichloromethane	<0.0054		0.0054	0.00091	mg/Kg	☼	09/11/15 17:00	09/15/15 04:22	1
Bromoform	<0.0054		0.0054	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 04:22	1
Bromomethane	<0.0054 *		0.0054	0.0020	mg/Kg	☼	09/11/15 17:00	09/15/15 04:22	1
2-Butanone (MEK)	<0.0054		0.0054	0.0019	mg/Kg	☼	09/11/15 17:00	09/15/15 04:22	1
Carbon disulfide	<0.0054		0.0054	0.0020	mg/Kg	☼	09/11/15 17:00	09/15/15 04:22	1
Carbon tetrachloride	<0.0054		0.0054	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 04:22	1
Chlorobenzene	<0.0054		0.0054	0.0013	mg/Kg	☼	09/11/15 17:00	09/15/15 04:22	1
Chloroethane	<0.0054		0.0054	0.0023	mg/Kg	☼	09/11/15 17:00	09/15/15 04:22	1
Chloroform	<0.0054		0.0054	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 04:22	1
Chloromethane	<0.0054		0.0054	0.0013	mg/Kg	☼	09/11/15 17:00	09/15/15 04:22	1
cis-1,2-Dichloroethene	<0.0054		0.0054	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 04:22	1
cis-1,3-Dichloropropene	<0.0054		0.0054	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 04:22	1
Dibromochloromethane	<0.0054		0.0054	0.00062	mg/Kg	☼	09/11/15 17:00	09/15/15 04:22	1
1,1-Dichloroethane	<0.0054		0.0054	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 04:22	1
1,2-Dichloroethane	<0.0054		0.0054	0.00080	mg/Kg	☼	09/11/15 17:00	09/15/15 04:22	1
1,1-Dichloroethene	<0.0054		0.0054	0.0020	mg/Kg	☼	09/11/15 17:00	09/15/15 04:22	1
1,2-Dichloropropane	<0.0054		0.0054	0.0014	mg/Kg	☼	09/11/15 17:00	09/15/15 04:22	1
1,3-Dichloropropane, Total	<0.0054		0.0054	0.0015	mg/Kg	☼	09/11/15 17:00	09/15/15 04:22	1
Ethylbenzene	<0.0054		0.0054	0.0013	mg/Kg	☼	09/11/15 17:00	09/15/15 04:22	1
2-Hexanone	<0.0054		0.0054	0.0017	mg/Kg	☼	09/11/15 17:00	09/15/15 04:22	1
Methylene Chloride	<0.0054		0.0054	0.0041	mg/Kg	☼	09/11/15 17:00	09/15/15 04:22	1
4-Methyl-2-pentanone (MIBK)	<0.0054		0.0054	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 04:22	1
Methyl tert-butyl ether	<0.0054		0.0054	0.0013	mg/Kg	☼	09/11/15 17:00	09/15/15 04:22	1
Styrene	<0.0054		0.0054	0.0013	mg/Kg	☼	09/11/15 17:00	09/15/15 04:22	1
1,1,2,2-Tetrachloroethane	<0.0054		0.0054	0.00086	mg/Kg	☼	09/11/15 17:00	09/15/15 04:22	1
Tetrachloroethene	<0.0054		0.0054	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 04:22	1
Toluene	<0.0054		0.0054	0.0019	mg/Kg	☼	09/11/15 17:00	09/15/15 04:22	1
trans-1,2-Dichloroethene	<0.0054		0.0054	0.0014	mg/Kg	☼	09/11/15 17:00	09/15/15 04:22	1
trans-1,3-Dichloropropene	<0.0054		0.0054	0.0015	mg/Kg	☼	09/11/15 17:00	09/15/15 04:22	1
1,1,1-Trichloroethane	<0.0054		0.0054	0.0013	mg/Kg	☼	09/11/15 17:00	09/15/15 04:22	1
1,1,2-Trichloroethane	<0.0054		0.0054	0.0010	mg/Kg	☼	09/11/15 17:00	09/15/15 04:22	1
Trichloroethene	<0.0054		0.0054	0.0015	mg/Kg	☼	09/11/15 17:00	09/15/15 04:22	1
Vinyl acetate	<0.0054		0.0054	0.0015	mg/Kg	☼	09/11/15 17:00	09/15/15 04:22	1
Vinyl chloride	<0.0054		0.0054	0.0013	mg/Kg	☼	09/11/15 17:00	09/15/15 04:22	1
Xylenes, Total	<0.011		0.011	0.0020	mg/Kg	☼	09/11/15 17:00	09/15/15 04:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 122	09/11/15 17:00	09/15/15 04:22	1
Dibromofluoromethane	104		75 - 120	09/11/15 17:00	09/15/15 04:22	1
1,2-Dichloroethane-d4 (Surr)	125		70 - 134	09/11/15 17:00	09/15/15 04:22	1
Toluene-d8 (Surr)	110		75 - 122	09/11/15 17:00	09/15/15 04:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	09/14/15 07:43	09/16/15 11:50	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	09/14/15 07:43	09/16/15 11:50	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	09/14/15 07:43	09/16/15 11:50	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	09/14/15 07:43	09/16/15 11:50	1

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B15 (0-2)**

**Lab Sample ID: 500-101071-16**

**Date Collected: 09/10/15 09:25**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 79.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	09/14/15 07:43	09/16/15 11:50	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	09/14/15 07:43	09/16/15 11:50	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	09/14/15 07:43	09/16/15 11:50	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	09/14/15 07:43	09/16/15 11:50	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	09/14/15 07:43	09/16/15 11:50	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	09/14/15 07:43	09/16/15 11:50	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	09/14/15 07:43	09/16/15 11:50	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	09/14/15 07:43	09/16/15 11:50	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	09/14/15 07:43	09/16/15 11:50	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	09/14/15 07:43	09/16/15 11:50	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	09/14/15 07:43	09/16/15 11:50	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	09/14/15 07:43	09/16/15 11:50	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	09/14/15 07:43	09/16/15 11:50	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	09/14/15 07:43	09/16/15 11:50	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	09/14/15 07:43	09/16/15 11:50	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	09/14/15 07:43	09/16/15 11:50	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	09/14/15 07:43	09/16/15 11:50	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	09/14/15 07:43	09/16/15 11:50	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	09/14/15 07:43	09/16/15 11:50	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	09/14/15 07:43	09/16/15 11:50	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	09/14/15 07:43	09/16/15 11:50	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	09/14/15 07:43	09/16/15 11:50	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	09/14/15 07:43	09/16/15 11:50	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	09/14/15 07:43	09/16/15 11:50	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	09/14/15 07:43	09/16/15 11:50	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	09/14/15 07:43	09/16/15 11:50	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	09/14/15 07:43	09/16/15 11:50	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	09/14/15 07:43	09/16/15 11:50	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	09/14/15 07:43	09/16/15 11:50	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	09/14/15 07:43	09/16/15 11:50	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	09/14/15 07:43	09/16/15 11:50	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	09/14/15 07:43	09/16/15 11:50	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	☼	09/14/15 07:43	09/16/15 11:50	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	09/14/15 07:43	09/16/15 11:50	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	09/14/15 07:43	09/16/15 11:50	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	09/14/15 07:43	09/16/15 11:50	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	09/14/15 07:43	09/16/15 11:50	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	09/14/15 07:43	09/16/15 11:50	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	09/14/15 07:43	09/16/15 11:50	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	09/14/15 07:43	09/16/15 11:50	1
2-Methylnaphthalene	<0.040		0.040	0.0074	mg/Kg	☼	09/14/15 07:43	09/16/15 11:50	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	09/14/15 07:43	09/16/15 11:50	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	09/14/15 07:43	09/16/15 11:50	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	09/14/15 07:43	09/16/15 11:50	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	09/14/15 07:43	09/16/15 11:50	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	09/14/15 07:43	09/16/15 11:50	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	09/14/15 07:43	09/16/15 11:50	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	09/14/15 07:43	09/16/15 11:50	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	09/14/15 07:43	09/16/15 11:50	1

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B15 (0-2)**

**Lab Sample ID: 500-101071-16**

Date Collected: 09/10/15 09:25

Matrix: Solid

Date Received: 09/11/15 13:00

Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	09/14/15 07:43	09/16/15 11:50	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	09/14/15 07:43	09/16/15 11:50	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	09/14/15 07:43	09/16/15 11:50	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	09/14/15 07:43	09/16/15 11:50	1
Pentachlorophenol	<0.81		0.81	0.65	mg/Kg	☼	09/14/15 07:43	09/16/15 11:50	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	09/14/15 07:43	09/16/15 11:50	1
Phenol	<0.20		0.20	0.090	mg/Kg	☼	09/14/15 07:43	09/16/15 11:50	1
Pyrene	<0.040		0.040	0.0080	mg/Kg	☼	09/14/15 07:43	09/16/15 11:50	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	09/14/15 07:43	09/16/15 11:50	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	09/14/15 07:43	09/16/15 11:50	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	09/14/15 07:43	09/16/15 11:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	91		25 - 119	09/14/15 07:43	09/16/15 11:50	1
2-Fluorophenol	87		25 - 110	09/14/15 07:43	09/16/15 11:50	1
Nitrobenzene-d5	100		25 - 115	09/14/15 07:43	09/16/15 11:50	1
Phenol-d5	91		31 - 110	09/14/15 07:43	09/16/15 11:50	1
Terphenyl-d14	106		36 - 134	09/14/15 07:43	09/16/15 11:50	1
2,4,6-Tribromophenol	105		35 - 137	09/14/15 07:43	09/16/15 11:50	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.26	mg/Kg	☼	09/16/15 12:00	09/16/15 19:11	1
<b>Arsenic</b>	<b>3.9</b>		0.62	0.29	mg/Kg	☼	09/16/15 12:00	09/16/15 19:11	1
<b>Barium</b>	<b>81</b>		0.62	0.11	mg/Kg	☼	09/16/15 12:00	09/16/15 19:11	1
<b>Beryllium</b>	<b>0.76</b>		0.25	0.054	mg/Kg	☼	09/16/15 12:00	09/16/15 19:11	1
<b>Cadmium</b>	<b>0.11</b>	<b>J B</b>	0.12	0.036	mg/Kg	☼	09/16/15 12:00	09/16/15 19:11	1
<b>Chromium</b>	<b>19</b>		0.62	0.11	mg/Kg	☼	09/16/15 12:00	09/16/15 19:11	1
<b>Cobalt</b>	<b>11</b>		0.31	0.071	mg/Kg	☼	09/16/15 12:00	09/16/15 19:11	1
<b>Copper</b>	<b>18</b>		0.62	0.14	mg/Kg	☼	09/16/15 12:00	09/16/15 19:11	1
<b>Iron</b>	<b>20000</b>	<b>B</b>	12	4.8	mg/Kg	☼	09/16/15 12:00	09/16/15 19:11	1
<b>Lead</b>	<b>16</b>		0.31	0.16	mg/Kg	☼	09/16/15 12:00	09/16/15 19:11	1
<b>Magnesium</b>	<b>3500</b>		6.2	2.5	mg/Kg	☼	09/16/15 12:00	09/16/15 19:11	1
<b>Calcium</b>	<b>1800</b>		12	4.0	mg/Kg	☼	09/16/15 12:00	09/16/15 19:11	1
<b>Manganese</b>	<b>250</b>		0.62	0.12	mg/Kg	☼	09/16/15 12:00	09/16/15 19:11	1
<b>Nickel</b>	<b>24</b>		0.62	0.17	mg/Kg	☼	09/16/15 12:00	09/16/15 19:11	1
Selenium	<0.62		0.62	0.31	mg/Kg	☼	09/16/15 12:00	09/16/15 19:11	1
Silver	<0.31		0.31	0.073	mg/Kg	☼	09/16/15 12:00	09/16/15 19:11	1
Thallium	<0.62		0.62	0.31	mg/Kg	☼	09/16/15 12:00	09/16/15 19:11	1
<b>Vanadium</b>	<b>31</b>		0.31	0.091	mg/Kg	☼	09/16/15 12:00	09/16/15 19:11	1
<b>Zinc</b>	<b>60</b>	<b>B</b>	1.2	0.40	mg/Kg	☼	09/16/15 12:00	09/17/15 21:52	1
<b>Potassium</b>	<b>1100</b>		31	5.1	mg/Kg	☼	09/16/15 12:00	09/16/15 19:11	1
<b>Sodium</b>	<b>5100</b>		310	41	mg/Kg	☼	09/16/15 12:00	09/17/15 22:15	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/18/15 09:30	09/18/15 21:55	1
<b>Barium</b>	<b>0.18</b>	<b>J</b>	0.50	0.050	mg/L		09/18/15 09:30	09/18/15 21:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/18/15 09:30	09/18/15 21:55	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/18/15 09:30	09/18/15 21:55	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B15 (0-2)**

**Lab Sample ID: 500-101071-16**

**Date Collected: 09/10/15 09:25**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 79.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>29</b>		2.5	0.50	mg/L		09/18/15 09:30	09/18/15 21:55	1
Chromium	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 21:55	1
<b>Cobalt</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		09/18/15 09:30	09/18/15 21:55	1
Copper	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 21:55	1
<b>Iron</b>	<b>0.31</b>		0.20	0.20	mg/L		09/18/15 09:30	09/18/15 21:55	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/18/15 09:30	09/18/15 21:55	1
<b>Magnesium</b>	<b>9.7</b>		2.5	0.50	mg/L		09/18/15 09:30	09/18/15 21:55	1
<b>Manganese</b>	<b>3.0</b>		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 21:55	1
Nickel	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 21:55	1
<b>Potassium</b>	<b>0.93</b>	<b>J</b>	2.5	0.50	mg/L		09/18/15 09:30	09/18/15 21:55	1
Selenium	<0.050		0.050	0.020	mg/L		09/18/15 09:30	09/18/15 21:55	1
Silver	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 21:55	1
Vanadium	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 21:55	1
<b>Zinc</b>	<b>0.054</b>	<b>J</b>	0.10	0.020	mg/L		09/18/15 09:30	09/18/15 21:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.045</b>	<b>J</b>	0.050	0.010	mg/L		09/15/15 17:00	09/16/15 21:36	1
<b>Barium</b>	<b>0.92</b>		0.50	0.050	mg/L		09/15/15 17:00	09/16/15 21:36	1
<b>Beryllium</b>	<b>0.011</b>		0.0040	0.0040	mg/L		09/15/15 17:00	09/16/15 21:36	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/15/15 17:00	09/16/15 21:36	1
<b>Calcium</b>	<b>26</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 21:36	1
<b>Chromium</b>	<b>0.28</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 21:36	1
<b>Cobalt</b>	<b>0.10</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 21:36	1
<b>Copper</b>	<b>0.20</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 21:36	1
<b>Iron</b>	<b>250</b>		0.20	0.20	mg/L		09/15/15 17:00	09/16/15 21:36	1
<b>Lead</b>	<b>0.14</b>		0.0075	0.0075	mg/L		09/15/15 17:00	09/16/15 21:36	1
<b>Magnesium</b>	<b>40</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 21:36	1
<b>Manganese</b>	<b>3.3</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 21:36	1
<b>Nickel</b>	<b>0.22</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 21:36	1
<b>Potassium</b>	<b>22</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 21:36	1
Selenium	<0.050		0.050	0.020	mg/L		09/15/15 17:00	09/16/15 21:36	1
Silver	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 21:36	1
<b>Vanadium</b>	<b>0.45</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 21:36	1
<b>Zinc</b>	<b>0.71</b>		0.10	0.020	mg/L		09/15/15 17:00	09/16/15 21:36	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		09/18/15 09:30	09/18/15 17:44	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/18/15 09:30	09/18/15 17:44	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/15/15 17:00	09/16/15 11:58	1
<b>Thallium</b>	<b>0.0026</b>		0.0020	0.0020	mg/L		09/15/15 17:00	09/16/15 11:58	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.00050</b>		0.00020	0.00020	mg/L		09/15/15 18:30	09/16/15 11:52	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B15 (0-2)**

**Lab Sample ID: 500-101071-16**

**Date Collected: 09/10/15 09:25**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 79.6**

**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		09/18/15 15:30	09/21/15 09:48	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.057		0.020	0.0071	mg/Kg	☼	09/16/15 15:00	09/17/15 11:07	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.61		0.61	0.20	mg/Kg	☼	09/16/15 14:15	09/16/15 16:58	1
pH	7.58		0.200	0.200	SU			09/15/15 13:03	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B16 (0-2)**

**Lab Sample ID: 500-101071-17**

**Date Collected: 09/10/15 09:15**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 86.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0036	mg/Kg	☼	09/11/15 17:00	09/15/15 04:47	1
Benzene	<0.0047		0.0047	0.0010	mg/Kg	☼	09/11/15 17:00	09/15/15 04:47	1
Bromodichloromethane	<0.0047		0.0047	0.00079	mg/Kg	☼	09/11/15 17:00	09/15/15 04:47	1
Bromoform	<0.0047		0.0047	0.00096	mg/Kg	☼	09/11/15 17:00	09/15/15 04:47	1
Bromomethane	<0.0047 *		0.0047	0.0017	mg/Kg	☼	09/11/15 17:00	09/15/15 04:47	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	09/11/15 17:00	09/15/15 04:47	1
Carbon disulfide	<0.0047		0.0047	0.0017	mg/Kg	☼	09/11/15 17:00	09/15/15 04:47	1
Carbon tetrachloride	<0.0047		0.0047	0.0010	mg/Kg	☼	09/11/15 17:00	09/15/15 04:47	1
Chlorobenzene	<0.0047		0.0047	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 04:47	1
Chloroethane	<0.0047		0.0047	0.0020	mg/Kg	☼	09/11/15 17:00	09/15/15 04:47	1
Chloroform	<0.0047		0.0047	0.00092	mg/Kg	☼	09/11/15 17:00	09/15/15 04:47	1
Chloromethane	<0.0047		0.0047	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 04:47	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00096	mg/Kg	☼	09/11/15 17:00	09/15/15 04:47	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 04:47	1
Dibromochloromethane	<0.0047		0.0047	0.00054	mg/Kg	☼	09/11/15 17:00	09/15/15 04:47	1
1,1-Dichloroethane	<0.0047		0.0047	0.00097	mg/Kg	☼	09/11/15 17:00	09/15/15 04:47	1
1,2-Dichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	09/11/15 17:00	09/15/15 04:47	1
1,1-Dichloroethene	<0.0047		0.0047	0.0017	mg/Kg	☼	09/11/15 17:00	09/15/15 04:47	1
1,2-Dichloropropane	<0.0047		0.0047	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 04:47	1
1,3-Dichloropropane, Total	<0.0047		0.0047	0.0013	mg/Kg	☼	09/11/15 17:00	09/15/15 04:47	1
Ethylbenzene	<0.0047		0.0047	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 04:47	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☼	09/11/15 17:00	09/15/15 04:47	1
Methylene Chloride	<0.0047		0.0047	0.0036	mg/Kg	☼	09/11/15 17:00	09/15/15 04:47	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.00097	mg/Kg	☼	09/11/15 17:00	09/15/15 04:47	1
Methyl tert-butyl ether	<0.0047		0.0047	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 04:47	1
Styrene	<0.0047		0.0047	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 04:47	1
1,1,2,2-Tetrachloroethane	<0.0047		0.0047	0.00075	mg/Kg	☼	09/11/15 17:00	09/15/15 04:47	1
Tetrachloroethene	<0.0047		0.0047	0.00098	mg/Kg	☼	09/11/15 17:00	09/15/15 04:47	1
Toluene	<0.0047		0.0047	0.0016	mg/Kg	☼	09/11/15 17:00	09/15/15 04:47	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 04:47	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.0013	mg/Kg	☼	09/11/15 17:00	09/15/15 04:47	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 04:47	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00091	mg/Kg	☼	09/11/15 17:00	09/15/15 04:47	1
Trichloroethene	<0.0047		0.0047	0.0013	mg/Kg	☼	09/11/15 17:00	09/15/15 04:47	1
Vinyl acetate	<0.0047		0.0047	0.0013	mg/Kg	☼	09/11/15 17:00	09/15/15 04:47	1
Vinyl chloride	<0.0047		0.0047	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 04:47	1
Xylenes, Total	<0.0094		0.0094	0.0017	mg/Kg	☼	09/11/15 17:00	09/15/15 04:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122	09/11/15 17:00	09/15/15 04:47	1
Dibromofluoromethane	100		75 - 120	09/11/15 17:00	09/15/15 04:47	1
1,2-Dichloroethane-d4 (Surr)	118		70 - 134	09/11/15 17:00	09/15/15 04:47	1
Toluene-d8 (Surr)	112		75 - 122	09/11/15 17:00	09/15/15 04:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	09/14/15 07:43	09/16/15 16:28	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	09/14/15 07:43	09/16/15 16:28	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	09/14/15 07:43	09/16/15 16:28	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	09/14/15 07:43	09/16/15 16:28	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B16 (0-2)**

**Lab Sample ID: 500-101071-17**

**Date Collected: 09/10/15 09:15**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 86.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	09/14/15 07:43	09/16/15 16:28	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	09/14/15 07:43	09/16/15 16:28	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	09/14/15 07:43	09/16/15 16:28	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	09/14/15 07:43	09/16/15 16:28	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	09/14/15 07:43	09/16/15 16:28	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	09/14/15 07:43	09/16/15 16:28	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	09/14/15 07:43	09/16/15 16:28	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	09/14/15 07:43	09/16/15 16:28	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	09/14/15 07:43	09/16/15 16:28	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	09/14/15 07:43	09/16/15 16:28	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	09/14/15 07:43	09/16/15 16:28	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	09/14/15 07:43	09/16/15 16:28	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/14/15 07:43	09/16/15 16:28	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	09/14/15 07:43	09/16/15 16:28	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	09/14/15 07:43	09/16/15 16:28	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	09/14/15 07:43	09/16/15 16:28	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	09/14/15 07:43	09/16/15 16:28	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/14/15 07:43	09/16/15 16:28	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	09/14/15 07:43	09/16/15 16:28	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/14/15 07:43	09/16/15 16:28	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	09/14/15 07:43	09/16/15 16:28	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	09/14/15 07:43	09/16/15 16:28	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	09/14/15 07:43	09/16/15 16:28	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	09/14/15 07:43	09/16/15 16:28	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	09/14/15 07:43	09/16/15 16:28	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/14/15 07:43	09/16/15 16:28	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	09/14/15 07:43	09/16/15 16:28	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	09/14/15 07:43	09/16/15 16:28	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	09/14/15 07:43	09/16/15 16:28	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	09/14/15 07:43	09/16/15 16:28	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	09/14/15 07:43	09/16/15 16:28	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	09/14/15 07:43	09/16/15 16:28	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	09/14/15 07:43	09/16/15 16:28	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	09/14/15 07:43	09/16/15 16:28	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	09/14/15 07:43	09/16/15 16:28	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	09/14/15 07:43	09/16/15 16:28	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	09/14/15 07:43	09/16/15 16:28	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	09/14/15 07:43	09/16/15 16:28	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	09/14/15 07:43	09/16/15 16:28	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	09/14/15 07:43	09/16/15 16:28	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	09/14/15 07:43	09/16/15 16:28	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	09/14/15 07:43	09/16/15 16:28	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	09/14/15 07:43	09/16/15 16:28	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	09/14/15 07:43	09/16/15 16:28	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	09/14/15 07:43	09/16/15 16:28	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	09/14/15 07:43	09/16/15 16:28	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	09/14/15 07:43	09/16/15 16:28	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	09/14/15 07:43	09/16/15 16:28	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	09/14/15 07:43	09/16/15 16:28	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B16 (0-2)**

**Lab Sample ID: 500-101071-17**

**Date Collected: 09/10/15 09:15**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 86.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	09/14/15 07:43	09/16/15 16:28	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	09/14/15 07:43	09/16/15 16:28	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	09/14/15 07:43	09/16/15 16:28	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	09/14/15 07:43	09/16/15 16:28	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	09/14/15 07:43	09/16/15 16:28	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	09/14/15 07:43	09/16/15 16:28	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	09/14/15 07:43	09/16/15 16:28	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	09/14/15 07:43	09/16/15 16:28	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/14/15 07:43	09/16/15 16:28	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	09/14/15 07:43	09/16/15 16:28	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	09/14/15 07:43	09/16/15 16:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	91		25 - 119	09/14/15 07:43	09/16/15 16:28	1
2-Fluorophenol	79		25 - 110	09/14/15 07:43	09/16/15 16:28	1
Nitrobenzene-d5	102		25 - 115	09/14/15 07:43	09/16/15 16:28	1
Phenol-d5	92		31 - 110	09/14/15 07:43	09/16/15 16:28	1
Terphenyl-d14	115		36 - 134	09/14/15 07:43	09/16/15 16:28	1
2,4,6-Tribromophenol	86		35 - 137	09/14/15 07:43	09/16/15 16:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.39</b>	<b>J</b>	1.1	0.23	mg/Kg	☼	09/16/15 12:00	09/16/15 19:16	1
<b>Arsenic</b>	<b>9.7</b>		0.55	0.26	mg/Kg	☼	09/16/15 12:00	09/16/15 19:16	1
<b>Barium</b>	<b>40</b>		0.55	0.10	mg/Kg	☼	09/16/15 12:00	09/16/15 19:16	1
<b>Beryllium</b>	<b>0.63</b>		0.22	0.048	mg/Kg	☼	09/16/15 12:00	09/16/15 19:16	1
<b>Cadmium</b>	<b>0.24</b>	<b>B</b>	0.11	0.032	mg/Kg	☼	09/16/15 12:00	09/16/15 19:16	1
<b>Chromium</b>	<b>13</b>		0.55	0.095	mg/Kg	☼	09/16/15 12:00	09/16/15 19:16	1
<b>Cobalt</b>	<b>12</b>		0.28	0.063	mg/Kg	☼	09/16/15 12:00	09/16/15 19:16	1
<b>Copper</b>	<b>23</b>		0.55	0.12	mg/Kg	☼	09/16/15 12:00	09/16/15 19:16	1
<b>Iron</b>	<b>20000</b>	<b>B</b>	11	4.3	mg/Kg	☼	09/16/15 12:00	09/16/15 19:16	1
<b>Lead</b>	<b>14</b>		0.28	0.14	mg/Kg	☼	09/16/15 12:00	09/16/15 19:16	1
<b>Magnesium</b>	<b>27000</b>		5.5	2.2	mg/Kg	☼	09/16/15 12:00	09/16/15 19:16	1
<b>Calcium</b>	<b>75000</b>		110	36	mg/Kg	☼	09/16/15 12:00	09/17/15 22:28	10
<b>Manganese</b>	<b>500</b>		0.55	0.11	mg/Kg	☼	09/16/15 12:00	09/16/15 19:16	1
<b>Nickel</b>	<b>28</b>		0.55	0.15	mg/Kg	☼	09/16/15 12:00	09/16/15 19:16	1
<b>Selenium</b>	<b>0.57</b>		0.55	0.27	mg/Kg	☼	09/16/15 12:00	09/16/15 19:16	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	09/16/15 12:00	09/16/15 19:16	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	09/16/15 12:00	09/16/15 19:16	1
<b>Vanadium</b>	<b>17</b>		0.28	0.081	mg/Kg	☼	09/16/15 12:00	09/16/15 19:16	1
<b>Zinc</b>	<b>57</b>	<b>B</b>	1.1	0.35	mg/Kg	☼	09/16/15 12:00	09/17/15 22:22	1
<b>Potassium</b>	<b>1900</b>		28	4.5	mg/Kg	☼	09/16/15 12:00	09/16/15 19:16	1
<b>Sodium</b>	<b>2600</b>		55	7.3	mg/Kg	☼	09/16/15 12:00	09/17/15 22:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/18/15 09:30	09/18/15 22:02	1
<b>Barium</b>	<b>0.46</b>	<b>J</b>	0.50	0.050	mg/L		09/18/15 09:30	09/18/15 22:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/18/15 09:30	09/18/15 22:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/18/15 09:30	09/18/15 22:02	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B16 (0-2)**

**Lab Sample ID: 500-101071-17**

**Date Collected: 09/10/15 09:15**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 86.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>390</b>		2.5	0.50	mg/L		09/18/15 09:30	09/18/15 22:02	1
Chromium	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 22:02	1
Cobalt	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 22:02	1
Copper	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 22:02	1
Iron	<0.20		0.20	0.20	mg/L		09/18/15 09:30	09/18/15 22:02	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/18/15 09:30	09/18/15 22:02	1
<b>Magnesium</b>	<b>19</b>		2.5	0.50	mg/L		09/18/15 09:30	09/18/15 22:02	1
<b>Manganese</b>	<b>2.6</b>		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 22:02	1
Nickel	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 22:02	1
<b>Potassium</b>	<b>2.6</b>		2.5	0.50	mg/L		09/18/15 09:30	09/18/15 22:02	1
Selenium	<0.050		0.050	0.020	mg/L		09/18/15 09:30	09/18/15 22:02	1
Silver	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 22:02	1
Vanadium	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 22:02	1
Zinc	<0.10		0.10	0.020	mg/L		09/18/15 09:30	09/18/15 22:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.068</b>		0.050	0.010	mg/L		09/15/15 17:00	09/16/15 21:42	1
<b>Barium</b>	<b>0.56</b>		0.50	0.050	mg/L		09/15/15 17:00	09/16/15 21:42	1
<b>Beryllium</b>	<b>0.0065</b>		0.0040	0.0040	mg/L		09/15/15 17:00	09/16/15 21:42	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/15/15 17:00	09/16/15 21:42	1
<b>Calcium</b>	<b>26</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 21:42	1
<b>Chromium</b>	<b>0.15</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 21:42	1
<b>Cobalt</b>	<b>0.062</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 21:42	1
<b>Copper</b>	<b>0.19</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 21:42	1
<b>Iron</b>	<b>170</b>		0.20	0.20	mg/L		09/15/15 17:00	09/16/15 21:42	1
<b>Lead</b>	<b>0.098</b>		0.0075	0.0075	mg/L		09/15/15 17:00	09/16/15 21:42	1
<b>Magnesium</b>	<b>31</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 21:42	1
<b>Manganese</b>	<b>2.2</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 21:42	1
<b>Nickel</b>	<b>0.18</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 21:42	1
<b>Potassium</b>	<b>25</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 21:42	1
Selenium	<0.050		0.050	0.020	mg/L		09/15/15 17:00	09/16/15 21:42	1
Silver	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 21:42	1
<b>Vanadium</b>	<b>0.23</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 21:42	1
<b>Zinc</b>	<b>0.51</b>		0.10	0.020	mg/L		09/15/15 17:00	09/16/15 21:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/18/15 09:30	09/18/15 17:45	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/18/15 09:30	09/18/15 17:45	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/15/15 17:00	09/16/15 11:59	1
<b>Thallium</b>	<b>0.0036</b>		0.0020	0.0020	mg/L		09/15/15 17:00	09/16/15 11:59	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.00025</b>		0.00020	0.00020	mg/L		09/15/15 18:30	09/16/15 11:54	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B16 (0-2)**

**Lab Sample ID: 500-101071-17**

**Date Collected: 09/10/15 09:15**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 86.2**

**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		09/18/15 15:30	09/21/15 09:50	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034		0.018	0.0063	mg/Kg	☼	09/16/15 15:00	09/17/15 11:09	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.19	mg/Kg	☼	09/16/15 14:15	09/16/15 16:58	1
pH	8.55		0.200	0.200	SU			09/15/15 13:11	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B17 (0-2)**

**Lab Sample ID: 500-101071-18**

**Date Collected: 09/10/15 09:10**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 86.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0033	mg/Kg	☼	09/11/15 17:00	09/15/15 05:12	1
Benzene	<0.0043		0.0043	0.00095	mg/Kg	☼	09/11/15 17:00	09/15/15 05:12	1
Bromodichloromethane	<0.0043		0.0043	0.00072	mg/Kg	☼	09/11/15 17:00	09/15/15 05:12	1
Bromoform	<0.0043		0.0043	0.00087	mg/Kg	☼	09/11/15 17:00	09/15/15 05:12	1
Bromomethane	<0.0043	*	0.0043	0.0016	mg/Kg	☼	09/11/15 17:00	09/15/15 05:12	1
2-Butanone (MEK)	<0.0043		0.0043	0.0015	mg/Kg	☼	09/11/15 17:00	09/15/15 05:12	1
Carbon disulfide	<0.0043		0.0043	0.0016	mg/Kg	☼	09/11/15 17:00	09/15/15 05:12	1
Carbon tetrachloride	<0.0043		0.0043	0.00091	mg/Kg	☼	09/11/15 17:00	09/15/15 05:12	1
Chlorobenzene	<0.0043		0.0043	0.0010	mg/Kg	☼	09/11/15 17:00	09/15/15 05:12	1
Chloroethane	<0.0043		0.0043	0.0018	mg/Kg	☼	09/11/15 17:00	09/15/15 05:12	1
Chloroform	<0.0043		0.0043	0.00083	mg/Kg	☼	09/11/15 17:00	09/15/15 05:12	1
Chloromethane	<0.0043		0.0043	0.0010	mg/Kg	☼	09/11/15 17:00	09/15/15 05:12	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00087	mg/Kg	☼	09/11/15 17:00	09/15/15 05:12	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00097	mg/Kg	☼	09/11/15 17:00	09/15/15 05:12	1
Dibromochloromethane	<0.0043		0.0043	0.00049	mg/Kg	☼	09/11/15 17:00	09/15/15 05:12	1
1,1-Dichloroethane	<0.0043		0.0043	0.00088	mg/Kg	☼	09/11/15 17:00	09/15/15 05:12	1
1,2-Dichloroethane	<0.0043		0.0043	0.00063	mg/Kg	☼	09/11/15 17:00	09/15/15 05:12	1
1,1-Dichloroethene	<0.0043		0.0043	0.0016	mg/Kg	☼	09/11/15 17:00	09/15/15 05:12	1
1,2-Dichloropropane	<0.0043		0.0043	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 05:12	1
1,3-Dichloropropane, Total	<0.0043		0.0043	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 05:12	1
Ethylbenzene	<0.0043		0.0043	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 05:12	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	09/11/15 17:00	09/15/15 05:12	1
Methylene Chloride	<0.0043		0.0043	0.0032	mg/Kg	☼	09/11/15 17:00	09/15/15 05:12	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.00088	mg/Kg	☼	09/11/15 17:00	09/15/15 05:12	1
Methyl tert-butyl ether	<0.0043		0.0043	0.0010	mg/Kg	☼	09/11/15 17:00	09/15/15 05:12	1
Styrene	<0.0043		0.0043	0.0010	mg/Kg	☼	09/11/15 17:00	09/15/15 05:12	1
1,1,2,2-Tetrachloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	09/11/15 17:00	09/15/15 05:12	1
Tetrachloroethene	<0.0043		0.0043	0.00089	mg/Kg	☼	09/11/15 17:00	09/15/15 05:12	1
Toluene	<0.0043		0.0043	0.0015	mg/Kg	☼	09/11/15 17:00	09/15/15 05:12	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 05:12	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 05:12	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00099	mg/Kg	☼	09/11/15 17:00	09/15/15 05:12	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00083	mg/Kg	☼	09/11/15 17:00	09/15/15 05:12	1
Trichloroethene	<0.0043		0.0043	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 05:12	1
Vinyl acetate	<0.0043		0.0043	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 05:12	1
Vinyl chloride	<0.0043		0.0043	0.0010	mg/Kg	☼	09/11/15 17:00	09/15/15 05:12	1
Xylenes, Total	<0.0085		0.0085	0.0016	mg/Kg	☼	09/11/15 17:00	09/15/15 05:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122	09/11/15 17:00	09/15/15 05:12	1
Dibromofluoromethane	104		75 - 120	09/11/15 17:00	09/15/15 05:12	1
1,2-Dichloroethane-d4 (Surr)	127		70 - 134	09/11/15 17:00	09/15/15 05:12	1
Toluene-d8 (Surr)	111		75 - 122	09/11/15 17:00	09/15/15 05:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	09/14/15 07:43	09/16/15 16:56	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	09/14/15 07:43	09/16/15 16:56	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	09/14/15 07:43	09/16/15 16:56	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	09/14/15 07:43	09/16/15 16:56	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B17 (0-2)**

**Lab Sample ID: 500-101071-18**

**Date Collected: 09/10/15 09:10**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 86.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	09/14/15 07:43	09/16/15 16:56	1
Benzo[b]fluoranthene	<0.037		0.037	0.0080	mg/Kg	☼	09/14/15 07:43	09/16/15 16:56	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	09/14/15 07:43	09/16/15 16:56	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	09/14/15 07:43	09/16/15 16:56	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	09/14/15 07:43	09/16/15 16:56	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	09/14/15 07:43	09/16/15 16:56	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	09/14/15 07:43	09/16/15 16:56	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	09/14/15 07:43	09/16/15 16:56	1
Butyl benzyl phthalate	<0.19		0.19	0.070	mg/Kg	☼	09/14/15 07:43	09/16/15 16:56	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	09/14/15 07:43	09/16/15 16:56	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	09/14/15 07:43	09/16/15 16:56	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	09/14/15 07:43	09/16/15 16:56	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	09/14/15 07:43	09/16/15 16:56	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	09/14/15 07:43	09/16/15 16:56	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	09/14/15 07:43	09/16/15 16:56	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	09/14/15 07:43	09/16/15 16:56	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	09/14/15 07:43	09/16/15 16:56	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	☼	09/14/15 07:43	09/16/15 16:56	1
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	09/14/15 07:43	09/16/15 16:56	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/14/15 07:43	09/16/15 16:56	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	09/14/15 07:43	09/16/15 16:56	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	09/14/15 07:43	09/16/15 16:56	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	09/14/15 07:43	09/16/15 16:56	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	09/14/15 07:43	09/16/15 16:56	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	09/14/15 07:43	09/16/15 16:56	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/14/15 07:43	09/16/15 16:56	1
Di-n-butyl phthalate	<0.19		0.19	0.056	mg/Kg	☼	09/14/15 07:43	09/16/15 16:56	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	09/14/15 07:43	09/16/15 16:56	1
2,4-Dinitrophenol	<0.75		0.75	0.65	mg/Kg	☼	09/14/15 07:43	09/16/15 16:56	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	09/14/15 07:43	09/16/15 16:56	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	09/14/15 07:43	09/16/15 16:56	1
Di-n-octyl phthalate	<0.19		0.19	0.060	mg/Kg	☼	09/14/15 07:43	09/16/15 16:56	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	09/14/15 07:43	09/16/15 16:56	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	09/14/15 07:43	09/16/15 16:56	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	09/14/15 07:43	09/16/15 16:56	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	09/14/15 07:43	09/16/15 16:56	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	09/14/15 07:43	09/16/15 16:56	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	09/14/15 07:43	09/16/15 16:56	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0096	mg/Kg	☼	09/14/15 07:43	09/16/15 16:56	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/14/15 07:43	09/16/15 16:56	1
2-Methylnaphthalene	<0.037		0.037	0.0068	mg/Kg	☼	09/14/15 07:43	09/16/15 16:56	1
2-Methylphenol	<0.19		0.19	0.059	mg/Kg	☼	09/14/15 07:43	09/16/15 16:56	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	09/14/15 07:43	09/16/15 16:56	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	09/14/15 07:43	09/16/15 16:56	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	09/14/15 07:43	09/16/15 16:56	1
3-Nitroaniline	<0.37		0.37	0.11	mg/Kg	☼	09/14/15 07:43	09/16/15 16:56	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	09/14/15 07:43	09/16/15 16:56	1
Nitrobenzene	<0.037		0.037	0.0092	mg/Kg	☼	09/14/15 07:43	09/16/15 16:56	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	09/14/15 07:43	09/16/15 16:56	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B17 (0-2)**

**Lab Sample ID: 500-101071-18**

**Date Collected: 09/10/15 09:10**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 86.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	09/14/15 07:43	09/16/15 16:56	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.045	mg/Kg	☼	09/14/15 07:43	09/16/15 16:56	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	09/14/15 07:43	09/16/15 16:56	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	09/14/15 07:43	09/16/15 16:56	1
Pentachlorophenol	<0.75		0.75	0.59	mg/Kg	☼	09/14/15 07:43	09/16/15 16:56	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	09/14/15 07:43	09/16/15 16:56	1
Phenol	<0.19		0.19	0.082	mg/Kg	☼	09/14/15 07:43	09/16/15 16:56	1
Pyrene	<0.037		0.037	0.0074	mg/Kg	☼	09/14/15 07:43	09/16/15 16:56	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/14/15 07:43	09/16/15 16:56	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	09/14/15 07:43	09/16/15 16:56	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	09/14/15 07:43	09/16/15 16:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	95		25 - 119	09/14/15 07:43	09/16/15 16:56	1
2-Fluorophenol	90		25 - 110	09/14/15 07:43	09/16/15 16:56	1
Nitrobenzene-d5	101		25 - 115	09/14/15 07:43	09/16/15 16:56	1
Phenol-d5	99		31 - 110	09/14/15 07:43	09/16/15 16:56	1
Terphenyl-d14	111		36 - 134	09/14/15 07:43	09/16/15 16:56	1
2,4,6-Tribromophenol	94		35 - 137	09/14/15 07:43	09/16/15 16:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.44</b>	<b>J</b>	1.1	0.23	mg/Kg	☼	09/16/15 12:00	09/16/15 19:21	1
<b>Arsenic</b>	<b>11</b>		0.56	0.26	mg/Kg	☼	09/16/15 12:00	09/16/15 19:21	1
<b>Barium</b>	<b>59</b>		0.56	0.10	mg/Kg	☼	09/16/15 12:00	09/16/15 19:21	1
<b>Beryllium</b>	<b>0.65</b>		0.22	0.048	mg/Kg	☼	09/16/15 12:00	09/16/15 19:21	1
<b>Cadmium</b>	<b>0.34</b>	<b>B</b>	0.11	0.032	mg/Kg	☼	09/16/15 12:00	09/16/15 19:21	1
<b>Chromium</b>	<b>14</b>		0.56	0.096	mg/Kg	☼	09/16/15 12:00	09/16/15 19:21	1
<b>Cobalt</b>	<b>12</b>		0.28	0.063	mg/Kg	☼	09/16/15 12:00	09/16/15 19:21	1
<b>Copper</b>	<b>25</b>		0.56	0.12	mg/Kg	☼	09/16/15 12:00	09/16/15 19:21	1
<b>Iron</b>	<b>24000</b>	<b>B</b>	11	4.3	mg/Kg	☼	09/16/15 12:00	09/16/15 19:21	1
<b>Lead</b>	<b>16</b>		0.28	0.14	mg/Kg	☼	09/16/15 12:00	09/16/15 19:21	1
<b>Magnesium</b>	<b>22000</b>		5.6	2.3	mg/Kg	☼	09/16/15 12:00	09/16/15 19:21	1
<b>Calcium</b>	<b>46000</b>		11	3.6	mg/Kg	☼	09/16/15 12:00	09/17/15 22:35	1
<b>Manganese</b>	<b>350</b>		0.56	0.11	mg/Kg	☼	09/16/15 12:00	09/16/15 19:21	1
<b>Nickel</b>	<b>33</b>		0.56	0.15	mg/Kg	☼	09/16/15 12:00	09/16/15 19:21	1
<b>Selenium</b>	<b>0.34</b>	<b>J</b>	0.56	0.28	mg/Kg	☼	09/16/15 12:00	09/16/15 19:21	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	09/16/15 12:00	09/16/15 19:21	1
Thallium	<0.56		0.56	0.27	mg/Kg	☼	09/16/15 12:00	09/16/15 19:21	1
<b>Vanadium</b>	<b>18</b>		0.28	0.081	mg/Kg	☼	09/16/15 12:00	09/16/15 19:21	1
<b>Zinc</b>	<b>64</b>	<b>B</b>	1.1	0.35	mg/Kg	☼	09/16/15 12:00	09/17/15 22:35	1
<b>Potassium</b>	<b>1800</b>		28	4.6	mg/Kg	☼	09/16/15 12:00	09/16/15 19:21	1
<b>Sodium</b>	<b>2200</b>		56	7.4	mg/Kg	☼	09/16/15 12:00	09/17/15 22:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/18/15 09:30	09/18/15 22:08	1
<b>Barium</b>	<b>0.46</b>	<b>J</b>	0.50	0.050	mg/L		09/18/15 09:30	09/18/15 22:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/18/15 09:30	09/18/15 22:08	1
<b>Cadmium</b>	<b>0.0041</b>	<b>J</b>	0.0050	0.0020	mg/L		09/18/15 09:30	09/18/15 22:08	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B17 (0-2)**

**Lab Sample ID: 500-101071-18**

**Date Collected: 09/10/15 09:10**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 86.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>1200</b>		25	5.0	mg/L		09/18/15 09:30	09/19/15 16:01	10
Chromium	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 22:08	1
<b>Cobalt</b>	<b>0.031</b>		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 22:08	1
Copper	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 22:08	1
Iron	<0.20		0.20	0.20	mg/L		09/18/15 09:30	09/18/15 22:08	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/18/15 09:30	09/18/15 22:08	1
<b>Magnesium</b>	<b>270</b>		2.5	0.50	mg/L		09/18/15 09:30	09/18/15 22:08	1
<b>Manganese</b>	<b>5.0</b>		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 22:08	1
<b>Nickel</b>	<b>0.044</b>		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 22:08	1
<b>Potassium</b>	<b>1.9 J</b>		2.5	0.50	mg/L		09/18/15 09:30	09/18/15 22:08	1
Selenium	<0.050		0.050	0.020	mg/L		09/18/15 09:30	09/18/15 22:08	1
Silver	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 22:08	1
Vanadium	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 22:08	1
<b>Zinc</b>	<b>0.084 J B</b>		0.10	0.020	mg/L		09/18/15 09:30	09/18/15 22:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.14</b>		0.050	0.010	mg/L		09/15/15 17:00	09/16/15 21:49	1
<b>Barium</b>	<b>0.75</b>		0.50	0.050	mg/L		09/15/15 17:00	09/16/15 21:49	1
<b>Beryllium</b>	<b>0.0093</b>		0.0040	0.0040	mg/L		09/15/15 17:00	09/16/15 21:49	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/15/15 17:00	09/16/15 21:49	1
<b>Calcium</b>	<b>49</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 21:49	1
<b>Chromium</b>	<b>0.21</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 21:49	1
<b>Cobalt</b>	<b>0.077</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 21:49	1
<b>Copper</b>	<b>0.34</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 21:49	1
<b>Iron</b>	<b>280</b>		0.20	0.20	mg/L		09/15/15 17:00	09/16/15 21:49	1
<b>Lead</b>	<b>0.12</b>		0.0075	0.0075	mg/L		09/15/15 17:00	09/16/15 21:49	1
<b>Magnesium</b>	<b>51</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 21:49	1
<b>Manganese</b>	<b>1.5</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 21:49	1
<b>Nickel</b>	<b>0.29</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 21:49	1
<b>Potassium</b>	<b>42</b>		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 21:49	1
Selenium	<0.050		0.050	0.020	mg/L		09/15/15 17:00	09/16/15 21:49	1
Silver	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 21:49	1
<b>Vanadium</b>	<b>0.27</b>		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 21:49	1
<b>Zinc</b>	<b>2.7</b>		0.10	0.020	mg/L		09/15/15 17:00	09/16/15 21:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/18/15 09:30	09/18/15 17:46	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/18/15 09:30	09/18/15 17:46	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/15/15 17:00	09/16/15 12:01	1
<b>Thallium</b>	<b>0.0074</b>		0.0020	0.0020	mg/L		09/15/15 17:00	09/16/15 12:01	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.00032</b>		0.00020	0.00020	mg/L		09/15/15 18:30	09/16/15 11:56	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B17 (0-2)**

**Lab Sample ID: 500-101071-18**

**Date Collected: 09/10/15 09:10**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 86.7**

**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		09/18/15 15:30	09/21/15 09:52	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.018	0.0064	mg/Kg	☼	09/16/15 15:00	09/17/15 11:12	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.18	mg/Kg	☼	09/16/15 14:15	09/16/15 16:58	1
pH	8.27		0.200	0.200	SU			09/15/15 13:18	1

- 1
- 2
- 3
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- 14
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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B18 (0-2)**

**Lab Sample ID: 500-101071-19**

**Date Collected: 09/10/15 08:55**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 85.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0035	mg/Kg	☼	09/11/15 17:00	09/15/15 05:37	1
Benzene	<0.0045		0.0045	0.00099	mg/Kg	☼	09/11/15 17:00	09/15/15 05:37	1
Bromodichloromethane	<0.0045		0.0045	0.00075	mg/Kg	☼	09/11/15 17:00	09/15/15 05:37	1
Bromoform	<0.0045		0.0045	0.00091	mg/Kg	☼	09/11/15 17:00	09/15/15 05:37	1
Bromomethane	<0.0045	*	0.0045	0.0016	mg/Kg	☼	09/11/15 17:00	09/15/15 05:37	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	09/11/15 17:00	09/15/15 05:37	1
Carbon disulfide	<0.0045		0.0045	0.0016	mg/Kg	☼	09/11/15 17:00	09/15/15 05:37	1
Carbon tetrachloride	<0.0045		0.0045	0.00096	mg/Kg	☼	09/11/15 17:00	09/15/15 05:37	1
Chlorobenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 05:37	1
Chloroethane	<0.0045		0.0045	0.0019	mg/Kg	☼	09/11/15 17:00	09/15/15 05:37	1
Chloroform	<0.0045		0.0045	0.00087	mg/Kg	☼	09/11/15 17:00	09/15/15 05:37	1
Chloromethane	<0.0045		0.0045	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 05:37	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00091	mg/Kg	☼	09/11/15 17:00	09/15/15 05:37	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.0010	mg/Kg	☼	09/11/15 17:00	09/15/15 05:37	1
Dibromochloromethane	<0.0045		0.0045	0.00051	mg/Kg	☼	09/11/15 17:00	09/15/15 05:37	1
1,1-Dichloroethane	<0.0045		0.0045	0.00092	mg/Kg	☼	09/11/15 17:00	09/15/15 05:37	1
1,2-Dichloroethane	<0.0045		0.0045	0.00066	mg/Kg	☼	09/11/15 17:00	09/15/15 05:37	1
1,1-Dichloroethene	<0.0045		0.0045	0.0016	mg/Kg	☼	09/11/15 17:00	09/15/15 05:37	1
1,2-Dichloropropane	<0.0045		0.0045	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 05:37	1
1,3-Dichloropropane, Total	<0.0045		0.0045	0.0013	mg/Kg	☼	09/11/15 17:00	09/15/15 05:37	1
Ethylbenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 05:37	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	09/11/15 17:00	09/15/15 05:37	1
Methylene Chloride	<0.0045		0.0045	0.0034	mg/Kg	☼	09/11/15 17:00	09/15/15 05:37	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.00092	mg/Kg	☼	09/11/15 17:00	09/15/15 05:37	1
Methyl tert-butyl ether	<0.0045		0.0045	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 05:37	1
Styrene	<0.0045		0.0045	0.0010	mg/Kg	☼	09/11/15 17:00	09/15/15 05:37	1
1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	09/11/15 17:00	09/15/15 05:37	1
Tetrachloroethene	<0.0045		0.0045	0.00093	mg/Kg	☼	09/11/15 17:00	09/15/15 05:37	1
Toluene	<0.0045		0.0045	0.0016	mg/Kg	☼	09/11/15 17:00	09/15/15 05:37	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 05:37	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.0013	mg/Kg	☼	09/11/15 17:00	09/15/15 05:37	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.0010	mg/Kg	☼	09/11/15 17:00	09/15/15 05:37	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00086	mg/Kg	☼	09/11/15 17:00	09/15/15 05:37	1
Trichloroethene	<0.0045		0.0045	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 05:37	1
Vinyl acetate	<0.0045		0.0045	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 05:37	1
Vinyl chloride	<0.0045		0.0045	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 05:37	1
Xylenes, Total	<0.0089		0.0089	0.0017	mg/Kg	☼	09/11/15 17:00	09/15/15 05:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 122	09/11/15 17:00	09/15/15 05:37	1
Dibromofluoromethane	101		75 - 120	09/11/15 17:00	09/15/15 05:37	1
1,2-Dichloroethane-d4 (Surr)	119		70 - 134	09/11/15 17:00	09/15/15 05:37	1
Toluene-d8 (Surr)	114		75 - 122	09/11/15 17:00	09/15/15 05:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0066	mg/Kg	☼	09/14/15 07:43	09/16/15 17:24	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	09/14/15 07:43	09/16/15 17:24	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	09/14/15 07:43	09/16/15 17:24	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	09/14/15 07:43	09/16/15 17:24	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B18 (0-2)**

**Lab Sample ID: 500-101071-19**

**Date Collected: 09/10/15 08:55**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**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	<0.037		0.037	0.0071	mg/Kg	☼	09/14/15 07:43	09/16/15 17:24	1
Benzo[b]fluoranthene	<0.037		0.037	0.0080	mg/Kg	☼	09/14/15 07:43	09/16/15 17:24	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	09/14/15 07:43	09/16/15 17:24	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	09/14/15 07:43	09/16/15 17:24	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	09/14/15 07:43	09/16/15 17:24	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	09/14/15 07:43	09/16/15 17:24	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.067	mg/Kg	☼	09/14/15 07:43	09/16/15 17:24	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	09/14/15 07:43	09/16/15 17:24	1
Butyl benzyl phthalate	<0.19		0.19	0.070	mg/Kg	☼	09/14/15 07:43	09/16/15 17:24	1
Carbazole	<0.19		0.19	0.092	mg/Kg	☼	09/14/15 07:43	09/16/15 17:24	1
4-Chloroaniline	<0.74		0.74	0.17	mg/Kg	☼	09/14/15 07:43	09/16/15 17:24	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	09/14/15 07:43	09/16/15 17:24	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	09/14/15 07:43	09/16/15 17:24	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	09/14/15 07:43	09/16/15 17:24	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	09/14/15 07:43	09/16/15 17:24	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	09/14/15 07:43	09/16/15 17:24	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0071	mg/Kg	☼	09/14/15 07:43	09/16/15 17:24	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	☼	09/14/15 07:43	09/16/15 17:24	1
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	09/14/15 07:43	09/16/15 17:24	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/14/15 07:43	09/16/15 17:24	1
1,4-Dichlorobenzene	<0.19		0.19	0.047	mg/Kg	☼	09/14/15 07:43	09/16/15 17:24	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	09/14/15 07:43	09/16/15 17:24	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	09/14/15 07:43	09/16/15 17:24	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	09/14/15 07:43	09/16/15 17:24	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	09/14/15 07:43	09/16/15 17:24	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	09/14/15 07:43	09/16/15 17:24	1
Di-n-butyl phthalate	<0.19		0.19	0.056	mg/Kg	☼	09/14/15 07:43	09/16/15 17:24	1
4,6-Dinitro-2-methylphenol	<0.74		0.74	0.30	mg/Kg	☼	09/14/15 07:43	09/16/15 17:24	1
2,4-Dinitrophenol	<0.74		0.74	0.65	mg/Kg	☼	09/14/15 07:43	09/16/15 17:24	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	09/14/15 07:43	09/16/15 17:24	1
2,6-Dinitrotoluene	<0.19		0.19	0.072	mg/Kg	☼	09/14/15 07:43	09/16/15 17:24	1
Di-n-octyl phthalate	<0.19		0.19	0.060	mg/Kg	☼	09/14/15 07:43	09/16/15 17:24	1
Fluoranthene	<0.037		0.037	0.0068	mg/Kg	☼	09/14/15 07:43	09/16/15 17:24	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	09/14/15 07:43	09/16/15 17:24	1
Hexachlorobenzene	<0.074		0.074	0.0085	mg/Kg	☼	09/14/15 07:43	09/16/15 17:24	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	09/14/15 07:43	09/16/15 17:24	1
Hexachlorocyclopentadiene	<0.74		0.74	0.21	mg/Kg	☼	09/14/15 07:43	09/16/15 17:24	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	09/14/15 07:43	09/16/15 17:24	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0096	mg/Kg	☼	09/14/15 07:43	09/16/15 17:24	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	09/14/15 07:43	09/16/15 17:24	1
2-Methylnaphthalene	<0.037		0.037	0.0068	mg/Kg	☼	09/14/15 07:43	09/16/15 17:24	1
2-Methylphenol	<0.19		0.19	0.059	mg/Kg	☼	09/14/15 07:43	09/16/15 17:24	1
3 & 4 Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	09/14/15 07:43	09/16/15 17:24	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	09/14/15 07:43	09/16/15 17:24	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	09/14/15 07:43	09/16/15 17:24	1
3-Nitroaniline	<0.37		0.37	0.11	mg/Kg	☼	09/14/15 07:43	09/16/15 17:24	1
4-Nitroaniline	<0.37		0.37	0.15	mg/Kg	☼	09/14/15 07:43	09/16/15 17:24	1
Nitrobenzene	<0.037		0.037	0.0092	mg/Kg	☼	09/14/15 07:43	09/16/15 17:24	1
2-Nitrophenol	<0.37		0.37	0.087	mg/Kg	☼	09/14/15 07:43	09/16/15 17:24	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B18 (0-2)**

**Lab Sample ID: 500-101071-19**

Date Collected: 09/10/15 08:55

Matrix: Solid

Date Received: 09/11/15 13:00

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	<0.74		0.74	0.35	mg/Kg	☼	09/14/15 07:43	09/16/15 17:24	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.045	mg/Kg	☼	09/14/15 07:43	09/16/15 17:24	1
N-Nitrosodiphenylamine	<0.19		0.19	0.043	mg/Kg	☼	09/14/15 07:43	09/16/15 17:24	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	09/14/15 07:43	09/16/15 17:24	1
Pentachlorophenol	<0.74		0.74	0.59	mg/Kg	☼	09/14/15 07:43	09/16/15 17:24	1
Phenanthrene	<0.037		0.037	0.0051	mg/Kg	☼	09/14/15 07:43	09/16/15 17:24	1
Phenol	<0.19		0.19	0.082	mg/Kg	☼	09/14/15 07:43	09/16/15 17:24	1
Pyrene	<0.037		0.037	0.0073	mg/Kg	☼	09/14/15 07:43	09/16/15 17:24	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/14/15 07:43	09/16/15 17:24	1
2,4,5-Trichlorophenol	<0.37		0.37	0.084	mg/Kg	☼	09/14/15 07:43	09/16/15 17:24	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	09/14/15 07:43	09/16/15 17:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	89		25 - 119	09/14/15 07:43	09/16/15 17:24	1
2-Fluorophenol	81		25 - 110	09/14/15 07:43	09/16/15 17:24	1
Nitrobenzene-d5	95		25 - 115	09/14/15 07:43	09/16/15 17:24	1
Phenol-d5	82		31 - 110	09/14/15 07:43	09/16/15 17:24	1
Terphenyl-d14	107		36 - 134	09/14/15 07:43	09/16/15 17:24	1
2,4,6-Tribromophenol	96		35 - 137	09/14/15 07:43	09/16/15 17:24	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.37</b>	<b>J</b>	1.1	0.23	mg/Kg	☼	09/16/15 12:00	09/16/15 19:26	1
<b>Arsenic</b>	<b>10</b>		0.55	0.25	mg/Kg	☼	09/16/15 12:00	09/16/15 19:26	1
<b>Barium</b>	<b>37</b>		0.55	0.10	mg/Kg	☼	09/16/15 12:00	09/16/15 19:26	1
<b>Beryllium</b>	<b>0.67</b>		0.22	0.047	mg/Kg	☼	09/16/15 12:00	09/16/15 19:26	1
<b>Cadmium</b>	<b>0.27</b>	<b>B</b>	0.11	0.032	mg/Kg	☼	09/16/15 12:00	09/16/15 19:26	1
<b>Chromium</b>	<b>15</b>		0.55	0.094	mg/Kg	☼	09/16/15 12:00	09/16/15 19:26	1
<b>Cobalt</b>	<b>15</b>		0.27	0.062	mg/Kg	☼	09/16/15 12:00	09/16/15 19:26	1
<b>Copper</b>	<b>29</b>		0.55	0.12	mg/Kg	☼	09/16/15 12:00	09/16/15 19:26	1
<b>Iron</b>	<b>26000</b>	<b>B</b>	11	4.2	mg/Kg	☼	09/16/15 12:00	09/16/15 19:26	1
<b>Lead</b>	<b>17</b>		0.27	0.14	mg/Kg	☼	09/16/15 12:00	09/16/15 19:26	1
<b>Magnesium</b>	<b>19000</b>		5.5	2.2	mg/Kg	☼	09/16/15 12:00	09/16/15 19:26	1
<b>Calcium</b>	<b>37000</b>		11	3.5	mg/Kg	☼	09/16/15 12:00	09/17/15 22:49	1
<b>Manganese</b>	<b>460</b>		0.55	0.11	mg/Kg	☼	09/16/15 12:00	09/16/15 19:26	1
<b>Nickel</b>	<b>34</b>		0.55	0.15	mg/Kg	☼	09/16/15 12:00	09/16/15 19:26	1
Selenium	<0.55		0.55	0.27	mg/Kg	☼	09/16/15 12:00	09/16/15 19:26	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	09/16/15 12:00	09/16/15 19:26	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	09/16/15 12:00	09/16/15 19:26	1
<b>Vanadium</b>	<b>19</b>		0.27	0.080	mg/Kg	☼	09/16/15 12:00	09/16/15 19:26	1
<b>Zinc</b>	<b>62</b>	<b>B</b>	1.1	0.35	mg/Kg	☼	09/16/15 12:00	09/17/15 22:49	1
<b>Potassium</b>	<b>1700</b>		27	4.5	mg/Kg	☼	09/16/15 12:00	09/16/15 19:26	1
<b>Sodium</b>	<b>1900</b>		55	7.2	mg/Kg	☼	09/16/15 12:00	09/17/15 22:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/18/15 09:30	09/18/15 22:15	1
<b>Barium</b>	<b>0.22</b>	<b>J</b>	0.50	0.050	mg/L		09/18/15 09:30	09/18/15 22:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/18/15 09:30	09/18/15 22:15	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/18/15 09:30	09/18/15 22:15	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B18 (0-2)**

**Lab Sample ID: 500-101071-19**

**Date Collected: 09/10/15 08:55**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 85.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>680</b>		2.5	0.50	mg/L		09/18/15 09:30	09/18/15 22:15	1
Chromium	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 22:15	1
Cobalt	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 22:15	1
Copper	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 22:15	1
Iron	<0.20		0.20	0.20	mg/L		09/18/15 09:30	09/18/15 22:15	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/18/15 09:30	09/18/15 22:15	1
<b>Magnesium</b>	<b>180</b>		2.5	0.50	mg/L		09/18/15 09:30	09/18/15 22:15	1
<b>Manganese</b>	<b>2.3</b>		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 22:15	1
<b>Nickel</b>	<b>0.023</b>	<b>J</b>	0.025	0.010	mg/L		09/18/15 09:30	09/18/15 22:15	1
<b>Potassium</b>	<b>1.7</b>	<b>J</b>	2.5	0.50	mg/L		09/18/15 09:30	09/18/15 22:15	1
Selenium	<0.050		0.050	0.020	mg/L		09/18/15 09:30	09/18/15 22:15	1
Silver	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 22:15	1
Vanadium	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 22:15	1
<b>Zinc</b>	<b>0.062</b>	<b>J B</b>	0.10	0.020	mg/L		09/18/15 09:30	09/18/15 22:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.031</b>	<b>J</b>	0.050	0.010	mg/L		09/16/15 15:00	09/17/15 21:47	1
<b>Barium</b>	<b>0.38</b>	<b>J</b>	0.50	0.050	mg/L		09/16/15 15:00	09/17/15 21:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/16/15 15:00	09/17/15 21:47	1
<b>Cadmium</b>	<b>0.0023</b>	<b>J</b>	0.0050	0.0020	mg/L		09/16/15 15:00	09/17/15 21:47	1
<b>Calcium</b>	<b>40</b>	<b>F1</b>	2.5	0.50	mg/L		09/16/15 15:00	09/17/15 21:47	1
<b>Chromium</b>	<b>0.070</b>		0.025	0.010	mg/L		09/16/15 15:00	09/18/15 14:26	1
<b>Cobalt</b>	<b>0.021</b>	<b>J</b>	0.025	0.010	mg/L		09/16/15 15:00	09/17/15 21:47	1
<b>Copper</b>	<b>0.12</b>		0.025	0.010	mg/L		09/16/15 15:00	09/18/15 14:26	1
<b>Iron</b>	<b>80</b>		0.20	0.20	mg/L		09/16/15 15:00	09/17/15 21:47	1
<b>Lead</b>	<b>0.053</b>		0.0075	0.0075	mg/L		09/16/15 15:00	09/18/15 14:26	1
<b>Magnesium</b>	<b>21</b>	<b>F1</b>	2.5	0.50	mg/L		09/16/15 15:00	09/17/15 21:47	1
<b>Manganese</b>	<b>0.42</b>		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 21:47	1
<b>Nickel</b>	<b>0.088</b>		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 21:47	1
<b>Potassium</b>	<b>14</b>	<b>F1</b>	2.5	0.50	mg/L		09/16/15 15:00	09/17/15 21:47	1
Selenium	<0.050		0.050	0.020	mg/L		09/16/15 15:00	09/18/15 14:26	1
Silver	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/18/15 14:26	1
<b>Vanadium</b>	<b>0.10</b>		0.025	0.010	mg/L		09/16/15 15:00	09/18/15 14:26	1
<b>Zinc</b>	<b>0.34</b>	<b>B</b>	0.10	0.020	mg/L		09/16/15 15:00	09/18/15 14:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/18/15 09:30	09/18/15 17:47	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/18/15 09:30	09/18/15 17:47	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	F1	0.0060	0.0060	mg/L		09/16/15 15:00	09/17/15 16:43	1
<b>Thallium</b>	<b>0.0028</b>		0.0020	0.0020	mg/L		09/16/15 15:00	09/17/15 16:43	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/16/15 17:30	09/17/15 18:38	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B18 (0-2)**

**Lab Sample ID: 500-101071-19**

**Date Collected: 09/10/15 08:55**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 85.7**

**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		09/18/15 15:30	09/21/15 09:54	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.019	0.0066	mg/Kg	☼	09/16/15 15:00	09/17/15 11:14	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.54		0.54	0.18	mg/Kg	☼	09/16/15 14:15	09/16/15 16:59	1
pH	8.86		0.200	0.200	SU			09/15/15 13:26	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B19 (0-2)**

**Lab Sample ID: 500-101071-20**

**Date Collected: 09/10/15 08:45**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 85.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0037	mg/Kg	☼	09/11/15 17:00	09/15/15 06:02	1
Benzene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 06:02	1
Bromodichloromethane	<0.0048		0.0048	0.00081	mg/Kg	☼	09/11/15 17:00	09/15/15 06:02	1
Bromoform	<0.0048		0.0048	0.00097	mg/Kg	☼	09/11/15 17:00	09/15/15 06:02	1
Bromomethane	<0.0048	*	0.0048	0.0018	mg/Kg	☼	09/11/15 17:00	09/15/15 06:02	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	09/11/15 17:00	09/15/15 06:02	1
Carbon disulfide	<0.0048		0.0048	0.0018	mg/Kg	☼	09/11/15 17:00	09/15/15 06:02	1
Carbon tetrachloride	<0.0048		0.0048	0.0010	mg/Kg	☼	09/11/15 17:00	09/15/15 06:02	1
Chlorobenzene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 06:02	1
Chloroethane	<0.0048		0.0048	0.0020	mg/Kg	☼	09/11/15 17:00	09/15/15 06:02	1
Chloroform	<0.0048		0.0048	0.00093	mg/Kg	☼	09/11/15 17:00	09/15/15 06:02	1
Chloromethane	<0.0048		0.0048	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 06:02	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00097	mg/Kg	☼	09/11/15 17:00	09/15/15 06:02	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 06:02	1
Dibromochloromethane	<0.0048		0.0048	0.00055	mg/Kg	☼	09/11/15 17:00	09/15/15 06:02	1
1,1-Dichloroethane	<0.0048		0.0048	0.00098	mg/Kg	☼	09/11/15 17:00	09/15/15 06:02	1
1,2-Dichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	09/11/15 17:00	09/15/15 06:02	1
1,1-Dichloroethene	<0.0048		0.0048	0.0017	mg/Kg	☼	09/11/15 17:00	09/15/15 06:02	1
1,2-Dichloropropane	<0.0048		0.0048	0.0013	mg/Kg	☼	09/11/15 17:00	09/15/15 06:02	1
1,3-Dichloropropane, Total	<0.0048		0.0048	0.0013	mg/Kg	☼	09/11/15 17:00	09/15/15 06:02	1
Ethylbenzene	<0.0048		0.0048	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 06:02	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	09/11/15 17:00	09/15/15 06:02	1
Methylene Chloride	<0.0048		0.0048	0.0036	mg/Kg	☼	09/11/15 17:00	09/15/15 06:02	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.00098	mg/Kg	☼	09/11/15 17:00	09/15/15 06:02	1
Methyl tert-butyl ether	<0.0048		0.0048	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 06:02	1
Styrene	<0.0048		0.0048	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 06:02	1
1,1,2,2-Tetrachloroethane	<0.0048		0.0048	0.00076	mg/Kg	☼	09/11/15 17:00	09/15/15 06:02	1
Tetrachloroethene	<0.0048		0.0048	0.00099	mg/Kg	☼	09/11/15 17:00	09/15/15 06:02	1
Toluene	<0.0048		0.0048	0.0017	mg/Kg	☼	09/11/15 17:00	09/15/15 06:02	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 06:02	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.0013	mg/Kg	☼	09/11/15 17:00	09/15/15 06:02	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 06:02	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00092	mg/Kg	☼	09/11/15 17:00	09/15/15 06:02	1
Trichloroethene	<0.0048		0.0048	0.0013	mg/Kg	☼	09/11/15 17:00	09/15/15 06:02	1
Vinyl acetate	<0.0048		0.0048	0.0013	mg/Kg	☼	09/11/15 17:00	09/15/15 06:02	1
Vinyl chloride	<0.0048		0.0048	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 06:02	1
Xylenes, Total	<0.0096		0.0096	0.0018	mg/Kg	☼	09/11/15 17:00	09/15/15 06:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122	09/11/15 17:00	09/15/15 06:02	1
Dibromofluoromethane	104		75 - 120	09/11/15 17:00	09/15/15 06:02	1
1,2-Dichloroethane-d4 (Surr)	123		70 - 134	09/11/15 17:00	09/15/15 06:02	1
Toluene-d8 (Surr)	116		75 - 122	09/11/15 17:00	09/15/15 06:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	09/14/15 07:43	09/16/15 17:51	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	09/14/15 07:43	09/16/15 17:51	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	09/14/15 07:43	09/16/15 17:51	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	09/14/15 07:43	09/16/15 17:51	1

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B19 (0-2)**

**Lab Sample ID: 500-101071-20**

**Date Collected: 09/10/15 08:45**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 85.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	09/14/15 07:43	09/16/15 17:51	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	09/14/15 07:43	09/16/15 17:51	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	09/14/15 07:43	09/16/15 17:51	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	09/14/15 07:43	09/16/15 17:51	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	09/14/15 07:43	09/16/15 17:51	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	09/14/15 07:43	09/16/15 17:51	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	09/14/15 07:43	09/16/15 17:51	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	09/14/15 07:43	09/16/15 17:51	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	09/14/15 07:43	09/16/15 17:51	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	09/14/15 07:43	09/16/15 17:51	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	09/14/15 07:43	09/16/15 17:51	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	09/14/15 07:43	09/16/15 17:51	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/14/15 07:43	09/16/15 17:51	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	09/14/15 07:43	09/16/15 17:51	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	09/14/15 07:43	09/16/15 17:51	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	09/14/15 07:43	09/16/15 17:51	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	09/14/15 07:43	09/16/15 17:51	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/14/15 07:43	09/16/15 17:51	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	09/14/15 07:43	09/16/15 17:51	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/14/15 07:43	09/16/15 17:51	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	09/14/15 07:43	09/16/15 17:51	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	09/14/15 07:43	09/16/15 17:51	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	09/14/15 07:43	09/16/15 17:51	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	09/14/15 07:43	09/16/15 17:51	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	09/14/15 07:43	09/16/15 17:51	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/14/15 07:43	09/16/15 17:51	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	09/14/15 07:43	09/16/15 17:51	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	09/14/15 07:43	09/16/15 17:51	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	09/14/15 07:43	09/16/15 17:51	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	09/14/15 07:43	09/16/15 17:51	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	09/14/15 07:43	09/16/15 17:51	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	09/14/15 07:43	09/16/15 17:51	1
Fluoranthene	<0.038		0.038	0.0070	mg/Kg	☼	09/14/15 07:43	09/16/15 17:51	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	09/14/15 07:43	09/16/15 17:51	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	09/14/15 07:43	09/16/15 17:51	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	09/14/15 07:43	09/16/15 17:51	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	09/14/15 07:43	09/16/15 17:51	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	09/14/15 07:43	09/16/15 17:51	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	09/14/15 07:43	09/16/15 17:51	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	09/14/15 07:43	09/16/15 17:51	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	09/14/15 07:43	09/16/15 17:51	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	09/14/15 07:43	09/16/15 17:51	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	09/14/15 07:43	09/16/15 17:51	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	09/14/15 07:43	09/16/15 17:51	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	09/14/15 07:43	09/16/15 17:51	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	09/14/15 07:43	09/16/15 17:51	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	09/14/15 07:43	09/16/15 17:51	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	09/14/15 07:43	09/16/15 17:51	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	09/14/15 07:43	09/16/15 17:51	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B19 (0-2)**

**Lab Sample ID: 500-101071-20**

Date Collected: 09/10/15 08:45

Matrix: Solid

Date Received: 09/11/15 13:00

Percent Solids: 85.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	09/14/15 07:43	09/16/15 17:51	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	09/14/15 07:43	09/16/15 17:51	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	09/14/15 07:43	09/16/15 17:51	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	09/14/15 07:43	09/16/15 17:51	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	09/14/15 07:43	09/16/15 17:51	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	09/14/15 07:43	09/16/15 17:51	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	09/14/15 07:43	09/16/15 17:51	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	09/14/15 07:43	09/16/15 17:51	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/14/15 07:43	09/16/15 17:51	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	09/14/15 07:43	09/16/15 17:51	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	09/14/15 07:43	09/16/15 17:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	73		25 - 119	09/14/15 07:43	09/16/15 17:51	1
2-Fluorophenol	71		25 - 110	09/14/15 07:43	09/16/15 17:51	1
Nitrobenzene-d5	81		25 - 115	09/14/15 07:43	09/16/15 17:51	1
Phenol-d5	75		31 - 110	09/14/15 07:43	09/16/15 17:51	1
Terphenyl-d14	98		36 - 134	09/14/15 07:43	09/16/15 17:51	1
2,4,6-Tribromophenol	67		35 - 137	09/14/15 07:43	09/16/15 17:51	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.25</b>	<b>J</b>	1.1	0.23	mg/Kg	☼	09/16/15 12:00	09/16/15 19:31	1
<b>Arsenic</b>	<b>11</b>		0.55	0.25	mg/Kg	☼	09/16/15 12:00	09/16/15 19:31	1
<b>Barium</b>	<b>85</b>		0.55	0.10	mg/Kg	☼	09/16/15 12:00	09/16/15 19:31	1
<b>Beryllium</b>	<b>0.69</b>		0.22	0.047	mg/Kg	☼	09/16/15 12:00	09/16/15 19:31	1
<b>Cadmium</b>	<b>0.20</b>	<b>B</b>	0.11	0.032	mg/Kg	☼	09/16/15 12:00	09/16/15 19:31	1
<b>Chromium</b>	<b>15</b>		0.55	0.094	mg/Kg	☼	09/16/15 12:00	09/16/15 19:31	1
<b>Cobalt</b>	<b>12</b>		0.27	0.062	mg/Kg	☼	09/16/15 12:00	09/16/15 19:31	1
<b>Copper</b>	<b>29</b>		0.55	0.12	mg/Kg	☼	09/16/15 12:00	09/16/15 19:31	1
<b>Iron</b>	<b>26000</b>	<b>B</b>	11	4.2	mg/Kg	☼	09/16/15 12:00	09/16/15 19:31	1
<b>Lead</b>	<b>24</b>		0.27	0.14	mg/Kg	☼	09/16/15 12:00	09/16/15 19:31	1
<b>Magnesium</b>	<b>11000</b>		5.5	2.2	mg/Kg	☼	09/16/15 12:00	09/16/15 19:31	1
<b>Calcium</b>	<b>17000</b>		11	3.5	mg/Kg	☼	09/16/15 12:00	09/16/15 19:31	1
<b>Manganese</b>	<b>380</b>		0.55	0.11	mg/Kg	☼	09/16/15 12:00	09/16/15 19:31	1
<b>Nickel</b>	<b>38</b>		0.55	0.15	mg/Kg	☼	09/16/15 12:00	09/16/15 19:31	1
Selenium	<0.55		0.55	0.27	mg/Kg	☼	09/16/15 12:00	09/16/15 19:31	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	09/16/15 12:00	09/16/15 19:31	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	09/16/15 12:00	09/16/15 19:31	1
<b>Vanadium</b>	<b>19</b>		0.27	0.080	mg/Kg	☼	09/16/15 12:00	09/16/15 19:31	1
<b>Zinc</b>	<b>61</b>	<b>B</b>	1.1	0.35	mg/Kg	☼	09/16/15 12:00	09/17/15 23:02	1
<b>Potassium</b>	<b>1500</b>		27	4.5	mg/Kg	☼	09/16/15 12:00	09/16/15 19:31	1
<b>Sodium</b>	<b>1300</b>		55	7.2	mg/Kg	☼	09/16/15 12:00	09/17/15 23:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/18/15 09:30	09/18/15 22:22	1
<b>Barium</b>	<b>0.65</b>		0.50	0.050	mg/L		09/18/15 09:30	09/18/15 22:22	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/18/15 09:30	09/18/15 22:22	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/18/15 09:30	09/18/15 22:22	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B19 (0-2)**

**Lab Sample ID: 500-101071-20**

**Date Collected: 09/10/15 08:45**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 85.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>240</b>		2.5	0.50	mg/L		09/18/15 09:30	09/18/15 22:22	1
Chromium	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 22:22	1
Cobalt	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 22:22	1
Copper	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 22:22	1
Iron	<0.20		0.20	0.20	mg/L		09/18/15 09:30	09/18/15 22:22	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/18/15 09:30	09/18/15 22:22	1
<b>Magnesium</b>	<b>85</b>		2.5	0.50	mg/L		09/18/15 09:30	09/18/15 22:22	1
<b>Manganese</b>	<b>0.068</b>		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 22:22	1
Nickel	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 22:22	1
<b>Potassium</b>	<b>3.0</b>		2.5	0.50	mg/L		09/18/15 09:30	09/18/15 22:22	1
Selenium	<0.050		0.050	0.020	mg/L		09/18/15 09:30	09/18/15 22:22	1
Silver	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 22:22	1
Vanadium	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 22:22	1
<b>Zinc</b>	<b>0.049 J</b>		0.10	0.020	mg/L		09/18/15 09:30	09/18/15 22:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/16/15 15:00	09/17/15 22:08	1
<b>Barium</b>	<b>0.25 J</b>		0.50	0.050	mg/L		09/16/15 15:00	09/17/15 22:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/16/15 15:00	09/17/15 22:08	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/16/15 15:00	09/17/15 22:08	1
<b>Calcium</b>	<b>22</b>		2.5	0.50	mg/L		09/16/15 15:00	09/17/15 22:08	1
<b>Chromium</b>	<b>0.020 J</b>		0.025	0.010	mg/L		09/16/15 15:00	09/18/15 14:53	1
Cobalt	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 22:08	1
<b>Copper</b>	<b>0.023 J</b>		0.025	0.010	mg/L		09/16/15 15:00	09/18/15 14:53	1
<b>Iron</b>	<b>15</b>		0.20	0.20	mg/L		09/16/15 15:00	09/17/15 22:08	1
<b>Lead</b>	<b>0.020</b>		0.0075	0.0075	mg/L		09/16/15 15:00	09/17/15 22:08	1
<b>Magnesium</b>	<b>7.9</b>		2.5	0.50	mg/L		09/16/15 15:00	09/17/15 22:08	1
<b>Manganese</b>	<b>0.17</b>		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 22:08	1
<b>Nickel</b>	<b>0.017 J</b>		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 22:08	1
<b>Potassium</b>	<b>4.7</b>		2.5	0.50	mg/L		09/16/15 15:00	09/17/15 22:08	1
Selenium	<0.050		0.050	0.020	mg/L		09/16/15 15:00	09/18/15 14:53	1
Silver	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/18/15 14:53	1
<b>Vanadium</b>	<b>0.024 J</b>		0.025	0.010	mg/L		09/16/15 15:00	09/18/15 14:53	1
<b>Zinc</b>	<b>0.12 B</b>		0.10	0.020	mg/L		09/16/15 15:00	09/18/15 14:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/18/15 09:30	09/18/15 17:48	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/18/15 09:30	09/18/15 17:48	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/16/15 15:00	09/17/15 17:02	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/16/15 15:00	09/17/15 17:02	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/16/15 17:30	09/17/15 18:40	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B19 (0-2)**

**Lab Sample ID: 500-101071-20**

**Date Collected: 09/10/15 08:45**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 85.3**

**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		09/18/15 15:30	09/21/15 09:56	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.041		0.019	0.0067	mg/Kg	☼	09/16/15 15:00	09/17/15 11:16	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.55		0.55	0.18	mg/Kg	☼	09/16/15 16:30	09/16/15 20:01	1
pH	8.67		0.200	0.200	SU			09/15/15 13:34	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B20 (0-2)**

**Lab Sample ID: 500-101071-21**

**Date Collected: 09/10/15 08:25**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 82.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.021		0.021	0.0040	mg/Kg	☼	09/11/15 17:00	09/15/15 06:28	1
Benzene	<0.0051		0.0051	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 06:28	1
Bromodichloromethane	<0.0051		0.0051	0.00087	mg/Kg	☼	09/11/15 17:00	09/15/15 06:28	1
Bromoform	<0.0051		0.0051	0.0010	mg/Kg	☼	09/11/15 17:00	09/15/15 06:28	1
Bromomethane	<0.0051	*	0.0051	0.0019	mg/Kg	☼	09/11/15 17:00	09/15/15 06:28	1
2-Butanone (MEK)	<0.0051		0.0051	0.0018	mg/Kg	☼	09/11/15 17:00	09/15/15 06:28	1
Carbon disulfide	<0.0051		0.0051	0.0019	mg/Kg	☼	09/11/15 17:00	09/15/15 06:28	1
Carbon tetrachloride	<0.0051		0.0051	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 06:28	1
Chlorobenzene	<0.0051		0.0051	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 06:28	1
Chloroethane	<0.0051		0.0051	0.0022	mg/Kg	☼	09/11/15 17:00	09/15/15 06:28	1
Chloroform	<0.0051		0.0051	0.0010	mg/Kg	☼	09/11/15 17:00	09/15/15 06:28	1
Chloromethane	<0.0051		0.0051	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 06:28	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.0010	mg/Kg	☼	09/11/15 17:00	09/15/15 06:28	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 06:28	1
Dibromochloromethane	<0.0051		0.0051	0.00059	mg/Kg	☼	09/11/15 17:00	09/15/15 06:28	1
1,1-Dichloroethane	<0.0051		0.0051	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 06:28	1
1,2-Dichloroethane	<0.0051		0.0051	0.00076	mg/Kg	☼	09/11/15 17:00	09/15/15 06:28	1
1,1-Dichloroethene	<0.0051		0.0051	0.0019	mg/Kg	☼	09/11/15 17:00	09/15/15 06:28	1
1,2-Dichloropropane	<0.0051		0.0051	0.0013	mg/Kg	☼	09/11/15 17:00	09/15/15 06:28	1
1,3-Dichloropropene, Total	<0.0051		0.0051	0.0014	mg/Kg	☼	09/11/15 17:00	09/15/15 06:28	1
Ethylbenzene	<0.0051		0.0051	0.0013	mg/Kg	☼	09/11/15 17:00	09/15/15 06:28	1
2-Hexanone	<0.0051		0.0051	0.0016	mg/Kg	☼	09/11/15 17:00	09/15/15 06:28	1
Methylene Chloride	<0.0051		0.0051	0.0039	mg/Kg	☼	09/11/15 17:00	09/15/15 06:28	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 06:28	1
Methyl tert-butyl ether	<0.0051		0.0051	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 06:28	1
Styrene	<0.0051		0.0051	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 06:28	1
1,1,2,2-Tetrachloroethane	<0.0051		0.0051	0.00081	mg/Kg	☼	09/11/15 17:00	09/15/15 06:28	1
Tetrachloroethene	<0.0051		0.0051	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 06:28	1
Toluene	<0.0051		0.0051	0.0018	mg/Kg	☼	09/11/15 17:00	09/15/15 06:28	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.0013	mg/Kg	☼	09/11/15 17:00	09/15/15 06:28	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.0014	mg/Kg	☼	09/11/15 17:00	09/15/15 06:28	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 06:28	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00099	mg/Kg	☼	09/11/15 17:00	09/15/15 06:28	1
Trichloroethene	<0.0051		0.0051	0.0014	mg/Kg	☼	09/11/15 17:00	09/15/15 06:28	1
Vinyl acetate	<0.0051		0.0051	0.0014	mg/Kg	☼	09/11/15 17:00	09/15/15 06:28	1
Vinyl chloride	<0.0051		0.0051	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 06:28	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg	☼	09/11/15 17:00	09/15/15 06:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 122	09/11/15 17:00	09/15/15 06:28	1
Dibromofluoromethane	102		75 - 120	09/11/15 17:00	09/15/15 06:28	1
1,2-Dichloroethane-d4 (Surr)	126		70 - 134	09/11/15 17:00	09/15/15 06:28	1
Toluene-d8 (Surr)	114		75 - 122	09/11/15 17:00	09/15/15 06:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	09/13/15 16:30	09/17/15 14:32	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	09/13/15 16:30	09/17/15 14:32	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	09/13/15 16:30	09/17/15 14:32	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	09/13/15 16:30	09/17/15 14:32	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B20 (0-2)**

**Lab Sample ID: 500-101071-21**

**Date Collected: 09/10/15 08:25**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 82.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	09/13/15 16:30	09/17/15 14:32	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	09/13/15 16:30	09/17/15 14:32	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	09/13/15 16:30	09/17/15 14:32	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	09/13/15 16:30	09/17/15 14:32	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	09/13/15 16:30	09/17/15 14:32	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	09/13/15 16:30	09/17/15 14:32	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	09/13/15 16:30	09/17/15 14:32	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	09/13/15 16:30	09/17/15 14:32	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	09/13/15 16:30	09/17/15 14:32	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	09/13/15 16:30	09/17/15 14:32	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	09/13/15 16:30	09/17/15 14:32	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	09/13/15 16:30	09/17/15 14:32	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	09/13/15 16:30	09/17/15 14:32	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	09/13/15 16:30	09/17/15 14:32	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	09/13/15 16:30	09/17/15 14:32	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	09/13/15 16:30	09/17/15 14:32	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	09/13/15 16:30	09/17/15 14:32	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	09/13/15 16:30	09/17/15 14:32	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	09/13/15 16:30	09/17/15 14:32	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	09/13/15 16:30	09/17/15 14:32	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	09/13/15 16:30	09/17/15 14:32	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	09/13/15 16:30	09/17/15 14:32	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	09/13/15 16:30	09/17/15 14:32	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	09/13/15 16:30	09/17/15 14:32	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	09/13/15 16:30	09/17/15 14:32	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	09/13/15 16:30	09/17/15 14:32	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	09/13/15 16:30	09/17/15 14:32	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	09/13/15 16:30	09/17/15 14:32	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	09/13/15 16:30	09/17/15 14:32	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	09/13/15 16:30	09/17/15 14:32	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	09/13/15 16:30	09/17/15 14:32	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	09/13/15 16:30	09/17/15 14:32	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	09/13/15 16:30	09/17/15 14:32	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	09/13/15 16:30	09/17/15 14:32	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	09/13/15 16:30	09/17/15 14:32	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	09/13/15 16:30	09/17/15 14:32	1
Hexachlorocyclopentadiene	<0.79		0.79	0.22	mg/Kg	☼	09/13/15 16:30	09/17/15 14:32	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	09/13/15 16:30	09/17/15 14:32	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	09/13/15 16:30	09/17/15 14:32	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	09/13/15 16:30	09/17/15 14:32	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	09/13/15 16:30	09/17/15 14:32	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	09/13/15 16:30	09/17/15 14:32	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	09/13/15 16:30	09/17/15 14:32	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	09/13/15 16:30	09/17/15 14:32	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	09/13/15 16:30	09/17/15 14:32	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	09/13/15 16:30	09/17/15 14:32	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	09/13/15 16:30	09/17/15 14:32	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	09/13/15 16:30	09/17/15 14:32	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	09/13/15 16:30	09/17/15 14:32	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B20 (0-2)**

**Lab Sample ID: 500-101071-21**

Date Collected: 09/10/15 08:25

Matrix: Solid

Date Received: 09/11/15 13:00

Percent Solids: 82.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	09/13/15 16:30	09/17/15 14:32	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.048	mg/Kg	☼	09/13/15 16:30	09/17/15 14:32	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	09/13/15 16:30	09/17/15 14:32	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	09/13/15 16:30	09/17/15 14:32	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	09/13/15 16:30	09/17/15 14:32	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	09/13/15 16:30	09/17/15 14:32	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	09/13/15 16:30	09/17/15 14:32	1
<b>Pyrene</b>	<b>0.013</b>	<b>J</b>	0.039	0.0078	mg/Kg	☼	09/13/15 16:30	09/17/15 14:32	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	09/13/15 16:30	09/17/15 14:32	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	09/13/15 16:30	09/17/15 14:32	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	09/13/15 16:30	09/17/15 14:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	73		25 - 119	09/13/15 16:30	09/17/15 14:32	1
2-Fluorophenol	71		25 - 110	09/13/15 16:30	09/17/15 14:32	1
Nitrobenzene-d5	73		25 - 115	09/13/15 16:30	09/17/15 14:32	1
Phenol-d5	73		31 - 110	09/13/15 16:30	09/17/15 14:32	1
Terphenyl-d14	151	X	36 - 134	09/13/15 16:30	09/17/15 14:32	1
2,4,6-Tribromophenol	64		35 - 137	09/13/15 16:30	09/17/15 14:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.25	mg/Kg	☼	09/16/15 20:33	09/17/15 16:47	1
<b>Arsenic</b>	<b>7.7</b>		0.59	0.27	mg/Kg	☼	09/16/15 20:33	09/17/15 16:47	1
<b>Barium</b>	<b>110</b>		0.59	0.11	mg/Kg	☼	09/16/15 20:33	09/17/15 16:47	1
<b>Beryllium</b>	<b>0.57</b>		0.24	0.051	mg/Kg	☼	09/16/15 20:33	09/17/15 16:47	1
<b>Cadmium</b>	<b>0.25</b>		0.12	0.034	mg/Kg	☼	09/16/15 20:33	09/17/15 16:47	1
<b>Chromium</b>	<b>14</b>		0.59	0.10	mg/Kg	☼	09/16/15 20:33	09/17/15 16:47	1
<b>Cobalt</b>	<b>9.6</b>		0.30	0.067	mg/Kg	☼	09/16/15 20:33	09/17/15 16:47	1
<b>Copper</b>	<b>17</b>		0.59	0.13	mg/Kg	☼	09/16/15 20:33	09/17/15 16:47	1
<b>Iron</b>	<b>17000</b>		12	4.6	mg/Kg	☼	09/16/15 20:33	09/17/15 16:47	1
<b>Lead</b>	<b>20</b>		0.30	0.15	mg/Kg	☼	09/16/15 20:33	09/17/15 16:47	1
<b>Magnesium</b>	<b>4400</b>		5.9	2.4	mg/Kg	☼	09/16/15 20:33	09/17/15 16:47	1
<b>Calcium</b>	<b>6500</b>		12	3.8	mg/Kg	☼	09/16/15 20:33	09/17/15 16:47	1
<b>Manganese</b>	<b>510</b>		0.59	0.12	mg/Kg	☼	09/16/15 20:33	09/17/15 16:47	1
<b>Nickel</b>	<b>19</b>		0.59	0.16	mg/Kg	☼	09/16/15 20:33	09/17/15 16:47	1
<b>Selenium</b>	<b>0.67</b>		0.59	0.29	mg/Kg	☼	09/16/15 20:33	09/17/15 16:47	1
Silver	<0.30		0.30	0.069	mg/Kg	☼	09/16/15 20:33	09/17/15 16:47	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	09/16/15 20:33	09/17/15 16:47	1
<b>Vanadium</b>	<b>23</b>		0.30	0.087	mg/Kg	☼	09/16/15 20:33	09/17/15 16:47	1
<b>Zinc</b>	<b>68</b>		1.2	0.38	mg/Kg	☼	09/16/15 20:33	09/17/15 16:47	1
<b>Potassium</b>	<b>1400</b>		30	4.8	mg/Kg	☼	09/16/15 20:33	09/17/15 16:47	1
<b>Sodium</b>	<b>1500</b>		59	7.8	mg/Kg	☼	09/16/15 20:33	09/17/15 16:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/18/15 11:00	09/18/15 23:00	1
<b>Barium</b>	<b>0.50</b>		0.50	0.050	mg/L		09/18/15 11:00	09/18/15 23:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/18/15 11:00	09/18/15 23:00	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/18/15 11:00	09/18/15 23:00	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B20 (0-2)**

**Lab Sample ID: 500-101071-21**

Date Collected: 09/10/15 08:25

Matrix: Solid

Date Received: 09/11/15 13:00

Percent Solids: 82.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>200</b>		2.5	0.50	mg/L		09/18/15 11:00	09/18/15 23:00	1
Chromium	<0.025		0.025	0.010	mg/L		09/18/15 11:00	09/18/15 23:00	1
Cobalt	<0.025		0.025	0.010	mg/L		09/18/15 11:00	09/18/15 23:00	1
Copper	<0.025		0.025	0.010	mg/L		09/18/15 11:00	09/18/15 23:00	1
Iron	<0.20		0.20	0.20	mg/L		09/18/15 11:00	09/18/15 23:00	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/18/15 11:00	09/18/15 23:00	1
<b>Magnesium</b>	<b>84</b>		2.5	0.50	mg/L		09/18/15 11:00	09/18/15 23:00	1
<b>Manganese</b>	<b>0.023</b>	<b>J</b>	0.025	0.010	mg/L		09/18/15 11:00	09/18/15 23:00	1
Nickel	<0.025		0.025	0.010	mg/L		09/18/15 11:00	09/18/15 23:00	1
<b>Potassium</b>	<b>3.2</b>	<b>F1</b>	2.5	0.50	mg/L		09/18/15 11:00	09/18/15 23:00	1
Selenium	<0.050		0.050	0.020	mg/L		09/18/15 11:00	09/18/15 23:00	1
Silver	<0.025		0.025	0.010	mg/L		09/18/15 11:00	09/18/15 23:00	1
Vanadium	<0.025		0.025	0.010	mg/L		09/18/15 11:00	09/18/15 23:00	1
<b>Zinc</b>	<b>0.15</b>		0.10	0.020	mg/L		09/18/15 11:00	09/18/15 23:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.041</b>	<b>J</b>	0.050	0.010	mg/L		09/16/15 15:00	09/17/15 22:12	1
<b>Barium</b>	<b>0.51</b>		0.50	0.050	mg/L		09/16/15 15:00	09/17/15 22:12	1
<b>Beryllium</b>	<b>0.0044</b>		0.0040	0.0040	mg/L		09/16/15 15:00	09/17/15 22:12	1
<b>Cadmium</b>	<b>0.0021</b>	<b>J</b>	0.0050	0.0020	mg/L		09/16/15 15:00	09/17/15 22:12	1
<b>Calcium</b>	<b>24</b>		2.5	0.50	mg/L		09/16/15 15:00	09/17/15 22:12	1
<b>Chromium</b>	<b>0.11</b>		0.025	0.010	mg/L		09/16/15 15:00	09/18/15 15:00	1
<b>Cobalt</b>	<b>0.026</b>		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 22:12	1
<b>Copper</b>	<b>0.13</b>		0.025	0.010	mg/L		09/16/15 15:00	09/18/15 15:00	1
<b>Iron</b>	<b>130</b>		0.20	0.20	mg/L		09/16/15 15:00	09/17/15 22:12	1
<b>Lead</b>	<b>0.076</b>		0.0075	0.0075	mg/L		09/16/15 15:00	09/18/15 15:00	1
<b>Magnesium</b>	<b>19</b>		2.5	0.50	mg/L		09/16/15 15:00	09/17/15 22:12	1
<b>Manganese</b>	<b>0.99</b>		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 22:12	1
<b>Nickel</b>	<b>0.12</b>		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 22:12	1
<b>Potassium</b>	<b>14</b>		2.5	0.50	mg/L		09/16/15 15:00	09/17/15 22:12	1
Selenium	<0.050		0.050	0.020	mg/L		09/16/15 15:00	09/18/15 15:00	1
Silver	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/18/15 15:00	1
<b>Vanadium</b>	<b>0.18</b>		0.025	0.010	mg/L		09/16/15 15:00	09/18/15 15:00	1
<b>Zinc</b>	<b>0.46</b>	<b>B</b>	0.10	0.020	mg/L		09/16/15 15:00	09/18/15 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		09/18/15 11:00	09/18/15 17:50	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/18/15 11:00	09/18/15 17:50	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/16/15 15:00	09/17/15 17:06	1
<b>Thallium</b>	<b>0.0033</b>		0.0020	0.0020	mg/L		09/16/15 15:00	09/17/15 17:06	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/16/15 17:30	09/17/15 18:42	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B20 (0-2)**

**Lab Sample ID: 500-101071-21**

**Date Collected: 09/10/15 08:25**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 82.0**

**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		09/18/15 15:30	09/21/15 10:04	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.044		0.020	0.0070	mg/Kg	☼	09/16/15 15:00	09/17/15 11:21	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.61		0.61	0.20	mg/Kg	☼	09/16/15 16:30	09/16/15 20:02	1
pH	8.21		0.200	0.200	SU			09/15/15 13:42	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B20 DUP (0-2)**

**Lab Sample ID: 500-101071-22**

**Date Collected: 09/10/15 08:30**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 79.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.022		0.019	0.0037	mg/Kg	☼	09/11/15 17:00	09/15/15 06:53	1
Benzene	<0.0047		0.0047	0.0010	mg/Kg	☼	09/11/15 17:00	09/15/15 06:53	1
Bromodichloromethane	<0.0047		0.0047	0.00080	mg/Kg	☼	09/11/15 17:00	09/15/15 06:53	1
Bromoform	<0.0047		0.0047	0.00096	mg/Kg	☼	09/11/15 17:00	09/15/15 06:53	1
Bromomethane	<0.0047 *		0.0047	0.0017	mg/Kg	☼	09/11/15 17:00	09/15/15 06:53	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	09/11/15 17:00	09/15/15 06:53	1
Carbon disulfide	<0.0047		0.0047	0.0017	mg/Kg	☼	09/11/15 17:00	09/15/15 06:53	1
Carbon tetrachloride	<0.0047		0.0047	0.0010	mg/Kg	☼	09/11/15 17:00	09/15/15 06:53	1
Chlorobenzene	<0.0047		0.0047	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 06:53	1
Chloroethane	<0.0047		0.0047	0.0020	mg/Kg	☼	09/11/15 17:00	09/15/15 06:53	1
Chloroform	<0.0047		0.0047	0.00092	mg/Kg	☼	09/11/15 17:00	09/15/15 06:53	1
Chloromethane	<0.0047		0.0047	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 06:53	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00096	mg/Kg	☼	09/11/15 17:00	09/15/15 06:53	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 06:53	1
Dibromochloromethane	<0.0047		0.0047	0.00054	mg/Kg	☼	09/11/15 17:00	09/15/15 06:53	1
1,1-Dichloroethane	<0.0047		0.0047	0.00097	mg/Kg	☼	09/11/15 17:00	09/15/15 06:53	1
1,2-Dichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	09/11/15 17:00	09/15/15 06:53	1
1,1-Dichloroethene	<0.0047		0.0047	0.0017	mg/Kg	☼	09/11/15 17:00	09/15/15 06:53	1
1,2-Dichloropropane	<0.0047		0.0047	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 06:53	1
1,3-Dichloropropane, Total	<0.0047		0.0047	0.0013	mg/Kg	☼	09/11/15 17:00	09/15/15 06:53	1
Ethylbenzene	<0.0047		0.0047	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 06:53	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☼	09/11/15 17:00	09/15/15 06:53	1
Methylene Chloride	<0.0047		0.0047	0.0036	mg/Kg	☼	09/11/15 17:00	09/15/15 06:53	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.00097	mg/Kg	☼	09/11/15 17:00	09/15/15 06:53	1
Methyl tert-butyl ether	<0.0047		0.0047	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 06:53	1
Styrene	<0.0047		0.0047	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 06:53	1
1,1,2,2-Tetrachloroethane	<0.0047		0.0047	0.00075	mg/Kg	☼	09/11/15 17:00	09/15/15 06:53	1
Tetrachloroethene	<0.0047		0.0047	0.00098	mg/Kg	☼	09/11/15 17:00	09/15/15 06:53	1
Toluene	<0.0047		0.0047	0.0016	mg/Kg	☼	09/11/15 17:00	09/15/15 06:53	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 06:53	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.0013	mg/Kg	☼	09/11/15 17:00	09/15/15 06:53	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 06:53	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00091	mg/Kg	☼	09/11/15 17:00	09/15/15 06:53	1
Trichloroethene	<0.0047		0.0047	0.0013	mg/Kg	☼	09/11/15 17:00	09/15/15 06:53	1
Vinyl acetate	<0.0047		0.0047	0.0013	mg/Kg	☼	09/11/15 17:00	09/15/15 06:53	1
Vinyl chloride	<0.0047		0.0047	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 06:53	1
Xylenes, Total	<0.0095		0.0095	0.0017	mg/Kg	☼	09/11/15 17:00	09/15/15 06:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122	09/11/15 17:00	09/15/15 06:53	1
Dibromofluoromethane	105		75 - 120	09/11/15 17:00	09/15/15 06:53	1
1,2-Dichloroethane-d4 (Surr)	125		70 - 134	09/11/15 17:00	09/15/15 06:53	1
Toluene-d8 (Surr)	111		75 - 122	09/11/15 17:00	09/15/15 06:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.041		0.041	0.0075	mg/Kg	☼	09/13/15 16:30	09/16/15 16:07	1
Acenaphthylene	<0.041		0.041	0.0055	mg/Kg	☼	09/13/15 16:30	09/16/15 16:07	1
Anthracene	<0.041		0.041	0.0069	mg/Kg	☼	09/13/15 16:30	09/16/15 16:07	1
Benzo[a]anthracene	<0.041		0.041	0.0056	mg/Kg	☼	09/13/15 16:30	09/16/15 16:07	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B20 DUP (0-2)**

**Lab Sample ID: 500-101071-22**

**Date Collected: 09/10/15 08:30**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**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	<0.041		0.041	0.0080	mg/Kg	☼	09/13/15 16:30	09/16/15 16:07	1
Benzo[b]fluoranthene	<0.041		0.041	0.0089	mg/Kg	☼	09/13/15 16:30	09/16/15 16:07	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	09/13/15 16:30	09/16/15 16:07	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	09/13/15 16:30	09/16/15 16:07	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	09/13/15 16:30	09/16/15 16:07	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	09/13/15 16:30	09/16/15 16:07	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.076	mg/Kg	☼	09/13/15 16:30	09/16/15 16:07	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	09/13/15 16:30	09/16/15 16:07	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	☼	09/13/15 16:30	09/16/15 16:07	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	09/13/15 16:30	09/16/15 16:07	1
4-Chloroaniline	<0.84		0.84	0.19	mg/Kg	☼	09/13/15 16:30	09/16/15 16:07	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	09/13/15 16:30	09/16/15 16:07	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	09/13/15 16:30	09/16/15 16:07	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☼	09/13/15 16:30	09/16/15 16:07	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	09/13/15 16:30	09/16/15 16:07	1
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	09/13/15 16:30	09/16/15 16:07	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0080	mg/Kg	☼	09/13/15 16:30	09/16/15 16:07	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	09/13/15 16:30	09/16/15 16:07	1
1,2-Dichlorobenzene	<0.21		0.21	0.050	mg/Kg	☼	09/13/15 16:30	09/16/15 16:07	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	09/13/15 16:30	09/16/15 16:07	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	09/13/15 16:30	09/16/15 16:07	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	09/13/15 16:30	09/16/15 16:07	1
2,4-Dichlorophenol	<0.41		0.41	0.098	mg/Kg	☼	09/13/15 16:30	09/16/15 16:07	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	09/13/15 16:30	09/16/15 16:07	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	09/13/15 16:30	09/16/15 16:07	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	09/13/15 16:30	09/16/15 16:07	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	09/13/15 16:30	09/16/15 16:07	1
4,6-Dinitro-2-methylphenol	<0.84		0.84	0.33	mg/Kg	☼	09/13/15 16:30	09/16/15 16:07	1
2,4-Dinitrophenol	<0.84		0.84	0.73	mg/Kg	☼	09/13/15 16:30	09/16/15 16:07	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	09/13/15 16:30	09/16/15 16:07	1
2,6-Dinitrotoluene	<0.21		0.21	0.082	mg/Kg	☼	09/13/15 16:30	09/16/15 16:07	1
Di-n-octyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	09/13/15 16:30	09/16/15 16:07	1
Fluoranthene	<0.041		0.041	0.0077	mg/Kg	☼	09/13/15 16:30	09/16/15 16:07	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	09/13/15 16:30	09/16/15 16:07	1
Hexachlorobenzene	<0.084		0.084	0.0096	mg/Kg	☼	09/13/15 16:30	09/16/15 16:07	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	09/13/15 16:30	09/16/15 16:07	1
Hexachlorocyclopentadiene	<0.84		0.84	0.24	mg/Kg	☼	09/13/15 16:30	09/16/15 16:07	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	09/13/15 16:30	09/16/15 16:07	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	09/13/15 16:30	09/16/15 16:07	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	09/13/15 16:30	09/16/15 16:07	1
2-Methylnaphthalene	<0.041		0.041	0.0076	mg/Kg	☼	09/13/15 16:30	09/16/15 16:07	1
2-Methylphenol	<0.21		0.21	0.067	mg/Kg	☼	09/13/15 16:30	09/16/15 16:07	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	09/13/15 16:30	09/16/15 16:07	1
Naphthalene	<0.041		0.041	0.0064	mg/Kg	☼	09/13/15 16:30	09/16/15 16:07	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	09/13/15 16:30	09/16/15 16:07	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	09/13/15 16:30	09/16/15 16:07	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	09/13/15 16:30	09/16/15 16:07	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	09/13/15 16:30	09/16/15 16:07	1
2-Nitrophenol	<0.41		0.41	0.098	mg/Kg	☼	09/13/15 16:30	09/16/15 16:07	1

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B20 DUP (0-2)**

**Lab Sample ID: 500-101071-22**

**Date Collected: 09/10/15 08:30**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**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	<0.84		0.84	0.39	mg/Kg	☼	09/13/15 16:30	09/16/15 16:07	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.051	mg/Kg	☼	09/13/15 16:30	09/16/15 16:07	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	09/13/15 16:30	09/16/15 16:07	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	09/13/15 16:30	09/16/15 16:07	1
Pentachlorophenol	<0.84		0.84	0.67	mg/Kg	☼	09/13/15 16:30	09/16/15 16:07	1
Phenanthrene	<0.041		0.041	0.0058	mg/Kg	☼	09/13/15 16:30	09/16/15 16:07	1
Phenol	<0.21		0.21	0.092	mg/Kg	☼	09/13/15 16:30	09/16/15 16:07	1
Pyrene	<0.041		0.041	0.0082	mg/Kg	☼	09/13/15 16:30	09/16/15 16:07	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	09/13/15 16:30	09/16/15 16:07	1
2,4,5-Trichlorophenol	<0.41		0.41	0.095	mg/Kg	☼	09/13/15 16:30	09/16/15 16:07	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	09/13/15 16:30	09/16/15 16:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	85		25 - 119				09/13/15 16:30	09/16/15 16:07	1
2-Fluorophenol	92		25 - 110				09/13/15 16:30	09/16/15 16:07	1
Nitrobenzene-d5	89		25 - 115				09/13/15 16:30	09/16/15 16:07	1
Phenol-d5	85		31 - 110				09/13/15 16:30	09/16/15 16:07	1
Terphenyl-d14	98		36 - 134				09/13/15 16:30	09/16/15 16:07	1
2,4,6-Tribromophenol	107		35 - 137				09/13/15 16:30	09/16/15 16:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.3		1.3	0.26	mg/Kg	☼	09/16/15 20:33	09/17/15 16:52	1
<b>Arsenic</b>	<b>6.0</b>		0.63	0.29	mg/Kg	☼	09/16/15 20:33	09/17/15 16:52	1
<b>Barium</b>	<b>130</b>		0.63	0.12	mg/Kg	☼	09/16/15 20:33	09/17/15 16:52	1
<b>Beryllium</b>	<b>0.56</b>		0.25	0.054	mg/Kg	☼	09/16/15 20:33	09/17/15 16:52	1
<b>Cadmium</b>	<b>0.24</b>		0.13	0.036	mg/Kg	☼	09/16/15 20:33	09/17/15 16:52	1
<b>Chromium</b>	<b>14</b>		0.63	0.11	mg/Kg	☼	09/16/15 20:33	09/17/15 16:52	1
<b>Cobalt</b>	<b>8.8</b>		0.31	0.071	mg/Kg	☼	09/16/15 20:33	09/17/15 16:52	1
<b>Copper</b>	<b>15</b>		0.63	0.14	mg/Kg	☼	09/16/15 20:33	09/17/15 16:52	1
<b>Iron</b>	<b>15000</b>		13	4.8	mg/Kg	☼	09/16/15 20:33	09/17/15 16:52	1
<b>Lead</b>	<b>17</b>		0.31	0.16	mg/Kg	☼	09/16/15 20:33	09/17/15 16:52	1
<b>Magnesium</b>	<b>3000</b>		6.3	2.6	mg/Kg	☼	09/16/15 20:33	09/17/15 16:52	1
<b>Calcium</b>	<b>4200</b>		13	4.0	mg/Kg	☼	09/16/15 20:33	09/17/15 16:52	1
<b>Manganese</b>	<b>290</b>		0.63	0.12	mg/Kg	☼	09/16/15 20:33	09/17/15 16:52	1
<b>Nickel</b>	<b>17</b>		0.63	0.17	mg/Kg	☼	09/16/15 20:33	09/17/15 16:52	1
<b>Selenium</b>	<b>0.79</b>		0.63	0.31	mg/Kg	☼	09/16/15 20:33	09/17/15 16:52	1
Silver	<0.31		0.31	0.074	mg/Kg	☼	09/16/15 20:33	09/17/15 16:52	1
Thallium	<0.63		0.63	0.31	mg/Kg	☼	09/16/15 20:33	09/17/15 16:52	1
<b>Vanadium</b>	<b>23</b>		0.31	0.092	mg/Kg	☼	09/16/15 20:33	09/17/15 16:52	1
<b>Zinc</b>	<b>64</b>		1.3	0.40	mg/Kg	☼	09/16/15 20:33	09/17/15 16:52	1
<b>Potassium</b>	<b>1200</b>		31	5.1	mg/Kg	☼	09/16/15 20:33	09/17/15 16:52	1
<b>Sodium</b>	<b>1600</b>		63	8.3	mg/Kg	☼	09/16/15 20:33	09/17/15 16:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/18/15 11:00	09/18/15 23:27	1
<b>Barium</b>	<b>0.73</b>		0.50	0.050	mg/L		09/18/15 11:00	09/18/15 23:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/18/15 11:00	09/18/15 23:27	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/18/15 11:00	09/18/15 23:27	1

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B20 DUP (0-2)**

**Lab Sample ID: 500-101071-22**

Date Collected: 09/10/15 08:30

Matrix: Solid

Date Received: 09/11/15 13:00

Percent Solids: 79.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>200</b>		2.5	0.50	mg/L		09/18/15 11:00	09/18/15 23:27	1
Chromium	<0.025		0.025	0.010	mg/L		09/18/15 11:00	09/18/15 23:27	1
<b>Cobalt</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		09/18/15 11:00	09/18/15 23:27	1
Copper	<0.025		0.025	0.010	mg/L		09/18/15 11:00	09/18/15 23:27	1
Iron	<0.20		0.20	0.20	mg/L		09/18/15 11:00	09/18/15 23:27	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/18/15 11:00	09/18/15 23:27	1
<b>Magnesium</b>	<b>72</b>		2.5	0.50	mg/L		09/18/15 11:00	09/18/15 23:27	1
<b>Manganese</b>	<b>9.5</b>		0.025	0.010	mg/L		09/18/15 11:00	09/18/15 23:27	1
Nickel	<0.025		0.025	0.010	mg/L		09/18/15 11:00	09/18/15 23:27	1
<b>Potassium</b>	<b>2.8</b>		2.5	0.50	mg/L		09/18/15 11:00	09/18/15 23:27	1
Selenium	<0.050		0.050	0.020	mg/L		09/18/15 11:00	09/18/15 23:27	1
Silver	<0.025		0.025	0.010	mg/L		09/18/15 11:00	09/18/15 23:27	1
Vanadium	<0.025		0.025	0.010	mg/L		09/18/15 11:00	09/18/15 23:27	1
<b>Zinc</b>	<b>0.14</b>		0.10	0.020	mg/L		09/18/15 11:00	09/18/15 23:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/16/15 15:00	09/17/15 22:16	1
<b>Barium</b>	<b>0.55</b>		0.50	0.050	mg/L		09/16/15 15:00	09/17/15 22:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/16/15 15:00	09/17/15 22:16	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/16/15 15:00	09/17/15 22:16	1
<b>Calcium</b>	<b>24</b>		2.5	0.50	mg/L		09/16/15 15:00	09/17/15 22:16	1
<b>Chromium</b>	<b>0.019</b>	<b>J</b>	0.025	0.010	mg/L		09/16/15 15:00	09/18/15 15:06	1
<b>Cobalt</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		09/16/15 15:00	09/17/15 22:16	1
<b>Copper</b>	<b>0.057</b>		0.025	0.010	mg/L		09/16/15 15:00	09/18/15 15:06	1
<b>Iron</b>	<b>18</b>		0.20	0.20	mg/L		09/16/15 15:00	09/17/15 22:16	1
<b>Lead</b>	<b>0.059</b>		0.0075	0.0075	mg/L		09/16/15 15:00	09/17/15 22:16	1
<b>Magnesium</b>	<b>7.4</b>		2.5	0.50	mg/L		09/16/15 15:00	09/17/15 22:16	1
<b>Manganese</b>	<b>1.4</b>		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 22:16	1
<b>Nickel</b>	<b>0.021</b>	<b>J</b>	0.025	0.010	mg/L		09/16/15 15:00	09/17/15 22:16	1
<b>Potassium</b>	<b>3.5</b>		2.5	0.50	mg/L		09/16/15 15:00	09/17/15 22:16	1
Selenium	<0.050		0.050	0.020	mg/L		09/16/15 15:00	09/18/15 15:06	1
Silver	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/18/15 15:06	1
<b>Vanadium</b>	<b>0.061</b>		0.025	0.010	mg/L		09/16/15 15:00	09/18/15 15:06	1
<b>Zinc</b>	<b>0.18</b>	<b>B</b>	0.10	0.020	mg/L		09/16/15 15:00	09/18/15 15:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/18/15 11:00	09/18/15 17:56	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/18/15 11:00	09/18/15 17:56	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/16/15 15:00	09/17/15 17:11	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/16/15 15:00	09/17/15 17:11	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/16/15 17:30	09/17/15 18:48	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B20 DUP (0-2)**

**Lab Sample ID: 500-101071-22**

**Date Collected: 09/10/15 08:30**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 79.1**

**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		09/18/15 15:30	09/21/15 10:10	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.048		0.020	0.0070	mg/Kg	☼	09/16/15 15:00	09/17/15 11:34	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.60		0.60	0.20	mg/Kg	☼	09/16/15 16:30	09/16/15 20:02	1
pH	8.14		0.200	0.200	SU			09/15/15 13:50	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B21 (0-2)**

**Lab Sample ID: 500-101071-23**

**Date Collected: 09/10/15 08:15**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 84.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0035	mg/Kg	☼	09/11/15 17:00	09/15/15 07:18	1
Benzene	<0.0045		0.0045	0.0010	mg/Kg	☼	09/11/15 17:00	09/15/15 07:18	1
Bromodichloromethane	<0.0045		0.0045	0.00076	mg/Kg	☼	09/11/15 17:00	09/15/15 07:18	1
Bromoform	<0.0045		0.0045	0.00092	mg/Kg	☼	09/11/15 17:00	09/15/15 07:18	1
Bromomethane	<0.0045	*	0.0045	0.0017	mg/Kg	☼	09/11/15 17:00	09/15/15 07:18	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	09/11/15 17:00	09/15/15 07:18	1
Carbon disulfide	<0.0045		0.0045	0.0017	mg/Kg	☼	09/11/15 17:00	09/15/15 07:18	1
Carbon tetrachloride	<0.0045		0.0045	0.00097	mg/Kg	☼	09/11/15 17:00	09/15/15 07:18	1
Chlorobenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 07:18	1
Chloroethane	<0.0045		0.0045	0.0019	mg/Kg	☼	09/11/15 17:00	09/15/15 07:18	1
Chloroform	<0.0045		0.0045	0.00088	mg/Kg	☼	09/11/15 17:00	09/15/15 07:18	1
Chloromethane	<0.0045		0.0045	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 07:18	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00092	mg/Kg	☼	09/11/15 17:00	09/15/15 07:18	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.0010	mg/Kg	☼	09/11/15 17:00	09/15/15 07:18	1
Dibromochloromethane	<0.0045		0.0045	0.00052	mg/Kg	☼	09/11/15 17:00	09/15/15 07:18	1
1,1-Dichloroethane	<0.0045		0.0045	0.00093	mg/Kg	☼	09/11/15 17:00	09/15/15 07:18	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	09/11/15 17:00	09/15/15 07:18	1
1,1-Dichloroethene	<0.0045		0.0045	0.0016	mg/Kg	☼	09/11/15 17:00	09/15/15 07:18	1
1,2-Dichloropropane	<0.0045		0.0045	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 07:18	1
1,3-Dichloropropane, Total	<0.0045		0.0045	0.0013	mg/Kg	☼	09/11/15 17:00	09/15/15 07:18	1
Ethylbenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 07:18	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	09/11/15 17:00	09/15/15 07:18	1
Methylene Chloride	<0.0045		0.0045	0.0034	mg/Kg	☼	09/11/15 17:00	09/15/15 07:18	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.00093	mg/Kg	☼	09/11/15 17:00	09/15/15 07:18	1
Methyl tert-butyl ether	<0.0045		0.0045	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 07:18	1
Styrene	<0.0045		0.0045	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 07:18	1
1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00072	mg/Kg	☼	09/11/15 17:00	09/15/15 07:18	1
Tetrachloroethene	<0.0045		0.0045	0.00094	mg/Kg	☼	09/11/15 17:00	09/15/15 07:18	1
Toluene	<0.0045		0.0045	0.0016	mg/Kg	☼	09/11/15 17:00	09/15/15 07:18	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 07:18	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.0013	mg/Kg	☼	09/11/15 17:00	09/15/15 07:18	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.0010	mg/Kg	☼	09/11/15 17:00	09/15/15 07:18	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00088	mg/Kg	☼	09/11/15 17:00	09/15/15 07:18	1
Trichloroethene	<0.0045		0.0045	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 07:18	1
Vinyl acetate	<0.0045		0.0045	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 07:18	1
Vinyl chloride	<0.0045		0.0045	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 07:18	1
Xylenes, Total	<0.0090		0.0090	0.0017	mg/Kg	☼	09/11/15 17:00	09/15/15 07:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 122	09/11/15 17:00	09/15/15 07:18	1
Dibromofluoromethane	105		75 - 120	09/11/15 17:00	09/15/15 07:18	1
1,2-Dichloroethane-d4 (Surr)	117		70 - 134	09/11/15 17:00	09/15/15 07:18	1
Toluene-d8 (Surr)	114		75 - 122	09/11/15 17:00	09/15/15 07:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	09/13/15 16:30	09/16/15 16:33	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	09/13/15 16:30	09/16/15 16:33	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	09/13/15 16:30	09/16/15 16:33	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	09/13/15 16:30	09/16/15 16:33	1

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B21 (0-2)**

**Lab Sample ID: 500-101071-23**

**Date Collected: 09/10/15 08:15**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 84.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	09/13/15 16:30	09/16/15 16:33	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	09/13/15 16:30	09/16/15 16:33	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	09/13/15 16:30	09/16/15 16:33	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	09/13/15 16:30	09/16/15 16:33	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	09/13/15 16:30	09/16/15 16:33	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	09/13/15 16:30	09/16/15 16:33	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	09/13/15 16:30	09/16/15 16:33	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	09/13/15 16:30	09/16/15 16:33	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	09/13/15 16:30	09/16/15 16:33	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	09/13/15 16:30	09/16/15 16:33	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	09/13/15 16:30	09/16/15 16:33	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	09/13/15 16:30	09/16/15 16:33	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/13/15 16:30	09/16/15 16:33	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	09/13/15 16:30	09/16/15 16:33	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	09/13/15 16:30	09/16/15 16:33	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	09/13/15 16:30	09/16/15 16:33	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	09/13/15 16:30	09/16/15 16:33	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/13/15 16:30	09/16/15 16:33	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	09/13/15 16:30	09/16/15 16:33	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/13/15 16:30	09/16/15 16:33	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	09/13/15 16:30	09/16/15 16:33	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	09/13/15 16:30	09/16/15 16:33	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	09/13/15 16:30	09/16/15 16:33	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	09/13/15 16:30	09/16/15 16:33	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	09/13/15 16:30	09/16/15 16:33	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/13/15 16:30	09/16/15 16:33	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	09/13/15 16:30	09/16/15 16:33	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	09/13/15 16:30	09/16/15 16:33	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	09/13/15 16:30	09/16/15 16:33	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	09/13/15 16:30	09/16/15 16:33	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	09/13/15 16:30	09/16/15 16:33	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	09/13/15 16:30	09/16/15 16:33	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	09/13/15 16:30	09/16/15 16:33	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	09/13/15 16:30	09/16/15 16:33	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	09/13/15 16:30	09/16/15 16:33	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	09/13/15 16:30	09/16/15 16:33	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	09/13/15 16:30	09/16/15 16:33	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	09/13/15 16:30	09/16/15 16:33	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	09/13/15 16:30	09/16/15 16:33	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	09/13/15 16:30	09/16/15 16:33	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	09/13/15 16:30	09/16/15 16:33	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	09/13/15 16:30	09/16/15 16:33	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	09/13/15 16:30	09/16/15 16:33	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	09/13/15 16:30	09/16/15 16:33	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	09/13/15 16:30	09/16/15 16:33	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	09/13/15 16:30	09/16/15 16:33	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	09/13/15 16:30	09/16/15 16:33	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	09/13/15 16:30	09/16/15 16:33	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	09/13/15 16:30	09/16/15 16:33	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B21 (0-2)**

**Lab Sample ID: 500-101071-23**

Date Collected: 09/10/15 08:15

Matrix: Solid

Date Received: 09/11/15 13:00

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	09/13/15 16:30	09/16/15 16:33	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	09/13/15 16:30	09/16/15 16:33	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	09/13/15 16:30	09/16/15 16:33	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	09/13/15 16:30	09/16/15 16:33	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	09/13/15 16:30	09/16/15 16:33	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	09/13/15 16:30	09/16/15 16:33	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	09/13/15 16:30	09/16/15 16:33	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	09/13/15 16:30	09/16/15 16:33	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/13/15 16:30	09/16/15 16:33	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	09/13/15 16:30	09/16/15 16:33	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	09/13/15 16:30	09/16/15 16:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	74		25 - 119				09/13/15 16:30	09/16/15 16:33	1
2-Fluorophenol	77		25 - 110				09/13/15 16:30	09/16/15 16:33	1
Nitrobenzene-d5	71		25 - 115				09/13/15 16:30	09/16/15 16:33	1
Phenol-d5	72		31 - 110				09/13/15 16:30	09/16/15 16:33	1
Terphenyl-d14	88		36 - 134				09/13/15 16:30	09/16/15 16:33	1
2,4,6-Tribromophenol	95		35 - 137				09/13/15 16:30	09/16/15 16:33	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.32</b>	<b>J</b>	1.1	0.24	mg/Kg	☼	09/16/15 20:33	09/17/15 16:57	1
<b>Arsenic</b>	<b>13</b>		0.57	0.26	mg/Kg	☼	09/16/15 20:33	09/17/15 16:57	1
<b>Barium</b>	<b>38</b>		0.57	0.10	mg/Kg	☼	09/16/15 20:33	09/17/15 16:57	1
<b>Beryllium</b>	<b>0.53</b>		0.23	0.050	mg/Kg	☼	09/16/15 20:33	09/17/15 16:57	1
<b>Cadmium</b>	<b>0.29</b>		0.11	0.033	mg/Kg	☼	09/16/15 20:33	09/17/15 16:57	1
<b>Chromium</b>	<b>12</b>		0.57	0.098	mg/Kg	☼	09/16/15 20:33	09/17/15 16:57	1
<b>Cobalt</b>	<b>12</b>		0.29	0.065	mg/Kg	☼	09/16/15 20:33	09/17/15 16:57	1
<b>Copper</b>	<b>37</b>		0.57	0.12	mg/Kg	☼	09/16/15 20:33	09/17/15 16:57	1
<b>Iron</b>	<b>22000</b>		11	4.4	mg/Kg	☼	09/16/15 20:33	09/17/15 16:57	1
<b>Lead</b>	<b>19</b>		0.29	0.14	mg/Kg	☼	09/16/15 20:33	09/17/15 16:57	1
<b>Magnesium</b>	<b>22000</b>		5.7	2.3	mg/Kg	☼	09/16/15 20:33	09/17/15 16:57	1
<b>Calcium</b>	<b>54000</b>		110	37	mg/Kg	☼	09/16/15 20:33	09/18/15 13:30	10
<b>Manganese</b>	<b>320</b>		0.57	0.11	mg/Kg	☼	09/16/15 20:33	09/17/15 16:57	1
<b>Nickel</b>	<b>32</b>		0.57	0.16	mg/Kg	☼	09/16/15 20:33	09/17/15 16:57	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	09/16/15 20:33	09/17/15 16:57	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	09/16/15 20:33	09/17/15 16:57	1
<b>Thallium</b>	<b>0.57</b>		0.57	0.28	mg/Kg	☼	09/16/15 20:33	09/17/15 16:57	1
<b>Vanadium</b>	<b>16</b>		0.29	0.084	mg/Kg	☼	09/16/15 20:33	09/17/15 16:57	1
<b>Zinc</b>	<b>80</b>		1.1	0.36	mg/Kg	☼	09/16/15 20:33	09/17/15 16:57	1
<b>Potassium</b>	<b>1900</b>		29	4.7	mg/Kg	☼	09/16/15 20:33	09/17/15 16:57	1
<b>Sodium</b>	<b>1300</b>		57	7.6	mg/Kg	☼	09/16/15 20:33	09/17/15 16:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/18/15 11:00	09/18/15 23:34	1
<b>Barium</b>	<b>0.31</b>	<b>J</b>	0.50	0.050	mg/L		09/18/15 11:00	09/18/15 23:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/18/15 11:00	09/18/15 23:34	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/18/15 11:00	09/18/15 23:34	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B21 (0-2)**

**Lab Sample ID: 500-101071-23**

**Date Collected: 09/10/15 08:15**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 84.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>420</b>		2.5	0.50	mg/L		09/18/15 11:00	09/18/15 23:34	1
Chromium	<0.025		0.025	0.010	mg/L		09/18/15 11:00	09/18/15 23:34	1
Cobalt	<0.025		0.025	0.010	mg/L		09/18/15 11:00	09/18/15 23:34	1
Copper	<0.025		0.025	0.010	mg/L		09/18/15 11:00	09/18/15 23:34	1
Iron	<0.20		0.20	0.20	mg/L		09/18/15 11:00	09/18/15 23:34	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/18/15 11:00	09/18/15 23:34	1
<b>Magnesium</b>	<b>15</b>		2.5	0.50	mg/L		09/18/15 11:00	09/18/15 23:34	1
<b>Manganese</b>	<b>0.29</b>		0.025	0.010	mg/L		09/18/15 11:00	09/18/15 23:34	1
Nickel	<0.025		0.025	0.010	mg/L		09/18/15 11:00	09/18/15 23:34	1
<b>Potassium</b>	<b>1.6</b>	<b>J</b>	2.5	0.50	mg/L		09/18/15 11:00	09/18/15 23:34	1
Selenium	<0.050		0.050	0.020	mg/L		09/18/15 11:00	09/18/15 23:34	1
Silver	<0.025		0.025	0.010	mg/L		09/18/15 11:00	09/18/15 23:34	1
Vanadium	<0.025		0.025	0.010	mg/L		09/18/15 11:00	09/18/15 23:34	1
Zinc	<0.10		0.10	0.020	mg/L		09/18/15 11:00	09/18/15 23:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.014</b>	<b>J</b>	0.050	0.010	mg/L		09/16/15 15:00	09/17/15 22:20	1
<b>Barium</b>	<b>0.21</b>	<b>J</b>	0.50	0.050	mg/L		09/16/15 15:00	09/17/15 22:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/16/15 15:00	09/17/15 22:20	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/16/15 15:00	09/17/15 22:20	1
<b>Calcium</b>	<b>35</b>		2.5	0.50	mg/L		09/16/15 15:00	09/17/15 22:20	1
<b>Chromium</b>	<b>0.039</b>		0.025	0.010	mg/L		09/16/15 15:00	09/18/15 15:17	1
Cobalt	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 22:20	1
<b>Copper</b>	<b>0.063</b>		0.025	0.010	mg/L		09/16/15 15:00	09/18/15 15:17	1
<b>Iron</b>	<b>36</b>		0.20	0.20	mg/L		09/16/15 15:00	09/17/15 22:20	1
<b>Lead</b>	<b>0.017</b>		0.0075	0.0075	mg/L		09/16/15 15:00	09/17/15 22:20	1
<b>Magnesium</b>	<b>12</b>		2.5	0.50	mg/L		09/16/15 15:00	09/17/15 22:20	1
<b>Manganese</b>	<b>0.16</b>		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 22:20	1
<b>Nickel</b>	<b>0.039</b>		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 22:20	1
<b>Potassium</b>	<b>9.5</b>		2.5	0.50	mg/L		09/16/15 15:00	09/17/15 22:20	1
Selenium	<0.050		0.050	0.020	mg/L		09/16/15 15:00	09/18/15 15:17	1
Silver	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/18/15 15:17	1
<b>Vanadium</b>	<b>0.047</b>		0.025	0.010	mg/L		09/16/15 15:00	09/18/15 15:17	1
<b>Zinc</b>	<b>0.20</b>	<b>B</b>	0.10	0.020	mg/L		09/16/15 15:00	09/18/15 15:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/18/15 11:00	09/18/15 17:56	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/18/15 11:00	09/18/15 17:56	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/16/15 15:00	09/17/15 17:25	1
<b>Thallium</b>	<b>0.0024</b>		0.0020	0.0020	mg/L		09/16/15 15:00	09/17/15 17:25	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/16/15 17:30	09/17/15 18:50	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B21 (0-2)**

**Lab Sample ID: 500-101071-23**

**Date Collected: 09/10/15 08:15**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 84.6**

**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		09/18/15 15:30	09/21/15 10:16	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.036		0.018	0.0064	mg/Kg	☼	09/16/15 15:00	09/17/15 11:36	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	09/16/15 16:30	09/16/15 20:02	1
pH	8.63		0.200	0.200	SU			09/15/15 13:58	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B22 (0-2)**

**Lab Sample ID: 500-101071-24**

**Date Collected: 09/10/15 08:05**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 83.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.021		0.021	0.0041	mg/Kg	☼	09/11/15 17:00	09/15/15 07:43	1
Benzene	<0.0052		0.0052	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 07:43	1
Bromodichloromethane	<0.0052		0.0052	0.00088	mg/Kg	☼	09/11/15 17:00	09/15/15 07:43	1
Bromoform	<0.0052		0.0052	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 07:43	1
Bromomethane	<0.0052	*	0.0052	0.0019	mg/Kg	☼	09/11/15 17:00	09/15/15 07:43	1
2-Butanone (MEK)	<0.0052		0.0052	0.0019	mg/Kg	☼	09/11/15 17:00	09/15/15 07:43	1
Carbon disulfide	<0.0052		0.0052	0.0019	mg/Kg	☼	09/11/15 17:00	09/15/15 07:43	1
Carbon tetrachloride	<0.0052		0.0052	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 07:43	1
Chlorobenzene	<0.0052		0.0052	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 07:43	1
Chloroethane	<0.0052		0.0052	0.0022	mg/Kg	☼	09/11/15 17:00	09/15/15 07:43	1
Chloroform	<0.0052		0.0052	0.0010	mg/Kg	☼	09/11/15 17:00	09/15/15 07:43	1
Chloromethane	<0.0052		0.0052	0.0013	mg/Kg	☼	09/11/15 17:00	09/15/15 07:43	1
cis-1,2-Dichloroethene	<0.0052		0.0052	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 07:43	1
cis-1,3-Dichloropropene	<0.0052		0.0052	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 07:43	1
Dibromochloromethane	<0.0052		0.0052	0.00060	mg/Kg	☼	09/11/15 17:00	09/15/15 07:43	1
1,1-Dichloroethane	<0.0052		0.0052	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 07:43	1
1,2-Dichloroethane	<0.0052		0.0052	0.00078	mg/Kg	☼	09/11/15 17:00	09/15/15 07:43	1
1,1-Dichloroethene	<0.0052		0.0052	0.0019	mg/Kg	☼	09/11/15 17:00	09/15/15 07:43	1
1,2-Dichloropropane	<0.0052		0.0052	0.0014	mg/Kg	☼	09/11/15 17:00	09/15/15 07:43	1
1,3-Dichloropropane, Total	<0.0052		0.0052	0.0015	mg/Kg	☼	09/11/15 17:00	09/15/15 07:43	1
Ethylbenzene	<0.0052		0.0052	0.0013	mg/Kg	☼	09/11/15 17:00	09/15/15 07:43	1
2-Hexanone	<0.0052		0.0052	0.0016	mg/Kg	☼	09/11/15 17:00	09/15/15 07:43	1
Methylene Chloride	<0.0052		0.0052	0.0040	mg/Kg	☼	09/11/15 17:00	09/15/15 07:43	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 07:43	1
Methyl tert-butyl ether	<0.0052		0.0052	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 07:43	1
Styrene	<0.0052		0.0052	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 07:43	1
1,1,2,2-Tetrachloroethane	<0.0052		0.0052	0.00083	mg/Kg	☼	09/11/15 17:00	09/15/15 07:43	1
Tetrachloroethene	<0.0052		0.0052	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 07:43	1
Toluene	<0.0052		0.0052	0.0018	mg/Kg	☼	09/11/15 17:00	09/15/15 07:43	1
trans-1,2-Dichloroethene	<0.0052		0.0052	0.0013	mg/Kg	☼	09/11/15 17:00	09/15/15 07:43	1
trans-1,3-Dichloropropene	<0.0052		0.0052	0.0015	mg/Kg	☼	09/11/15 17:00	09/15/15 07:43	1
1,1,1-Trichloroethane	<0.0052		0.0052	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 07:43	1
1,1,2-Trichloroethane	<0.0052		0.0052	0.0010	mg/Kg	☼	09/11/15 17:00	09/15/15 07:43	1
Trichloroethene	<0.0052		0.0052	0.0014	mg/Kg	☼	09/11/15 17:00	09/15/15 07:43	1
Vinyl acetate	<0.0052		0.0052	0.0014	mg/Kg	☼	09/11/15 17:00	09/15/15 07:43	1
Vinyl chloride	<0.0052		0.0052	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 07:43	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg	☼	09/11/15 17:00	09/15/15 07:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122	09/11/15 17:00	09/15/15 07:43	1
Dibromofluoromethane	105		75 - 120	09/11/15 17:00	09/15/15 07:43	1
1,2-Dichloroethane-d4 (Surr)	128		70 - 134	09/11/15 17:00	09/15/15 07:43	1
Toluene-d8 (Surr)	113		75 - 122	09/11/15 17:00	09/15/15 07:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	09/13/15 16:30	09/16/15 17:00	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	09/13/15 16:30	09/16/15 17:00	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	09/13/15 16:30	09/16/15 17:00	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	09/13/15 16:30	09/16/15 17:00	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B22 (0-2)**

**Lab Sample ID: 500-101071-24**

**Date Collected: 09/10/15 08:05**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 83.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	09/13/15 16:30	09/16/15 17:00	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	09/13/15 16:30	09/16/15 17:00	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	09/13/15 16:30	09/16/15 17:00	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	09/13/15 16:30	09/16/15 17:00	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	09/13/15 16:30	09/16/15 17:00	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	09/13/15 16:30	09/16/15 17:00	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	09/13/15 16:30	09/16/15 17:00	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	09/13/15 16:30	09/16/15 17:00	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	09/13/15 16:30	09/16/15 17:00	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	09/13/15 16:30	09/16/15 17:00	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	09/13/15 16:30	09/16/15 17:00	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	09/13/15 16:30	09/16/15 17:00	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	09/13/15 16:30	09/16/15 17:00	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	09/13/15 16:30	09/16/15 17:00	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	09/13/15 16:30	09/16/15 17:00	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	09/13/15 16:30	09/16/15 17:00	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	09/13/15 16:30	09/16/15 17:00	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	09/13/15 16:30	09/16/15 17:00	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	09/13/15 16:30	09/16/15 17:00	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	09/13/15 16:30	09/16/15 17:00	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	09/13/15 16:30	09/16/15 17:00	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	09/13/15 16:30	09/16/15 17:00	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	09/13/15 16:30	09/16/15 17:00	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	09/13/15 16:30	09/16/15 17:00	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	09/13/15 16:30	09/16/15 17:00	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	09/13/15 16:30	09/16/15 17:00	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	09/13/15 16:30	09/16/15 17:00	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	09/13/15 16:30	09/16/15 17:00	1
2,4-Dinitrophenol	<0.77		0.77	0.68	mg/Kg	☼	09/13/15 16:30	09/16/15 17:00	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	09/13/15 16:30	09/16/15 17:00	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	09/13/15 16:30	09/16/15 17:00	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	09/13/15 16:30	09/16/15 17:00	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	09/13/15 16:30	09/16/15 17:00	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	09/13/15 16:30	09/16/15 17:00	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	09/13/15 16:30	09/16/15 17:00	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	09/13/15 16:30	09/16/15 17:00	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	09/13/15 16:30	09/16/15 17:00	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	09/13/15 16:30	09/16/15 17:00	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	09/13/15 16:30	09/16/15 17:00	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	09/13/15 16:30	09/16/15 17:00	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	09/13/15 16:30	09/16/15 17:00	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	09/13/15 16:30	09/16/15 17:00	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	09/13/15 16:30	09/16/15 17:00	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	09/13/15 16:30	09/16/15 17:00	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	09/13/15 16:30	09/16/15 17:00	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	09/13/15 16:30	09/16/15 17:00	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	09/13/15 16:30	09/16/15 17:00	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	09/13/15 16:30	09/16/15 17:00	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	09/13/15 16:30	09/16/15 17:00	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B22 (0-2)**

**Lab Sample ID: 500-101071-24**

Date Collected: 09/10/15 08:05

Matrix: Solid

Date Received: 09/11/15 13:00

Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	09/13/15 16:30	09/16/15 17:00	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	09/13/15 16:30	09/16/15 17:00	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	09/13/15 16:30	09/16/15 17:00	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	09/13/15 16:30	09/16/15 17:00	1
Pentachlorophenol	<0.77		0.77	0.62	mg/Kg	☼	09/13/15 16:30	09/16/15 17:00	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	09/13/15 16:30	09/16/15 17:00	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	09/13/15 16:30	09/16/15 17:00	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	09/13/15 16:30	09/16/15 17:00	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	09/13/15 16:30	09/16/15 17:00	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	09/13/15 16:30	09/16/15 17:00	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	09/13/15 16:30	09/16/15 17:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	75		25 - 119				09/13/15 16:30	09/16/15 17:00	1
2-Fluorophenol	77		25 - 110				09/13/15 16:30	09/16/15 17:00	1
Nitrobenzene-d5	74		25 - 115				09/13/15 16:30	09/16/15 17:00	1
Phenol-d5	71		31 - 110				09/13/15 16:30	09/16/15 17:00	1
Terphenyl-d14	87		36 - 134				09/13/15 16:30	09/16/15 17:00	1
2,4,6-Tribromophenol	93		35 - 137				09/13/15 16:30	09/16/15 17:00	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.27	J	1.1	0.23	mg/Kg	☼	09/16/15 20:33	09/17/15 17:02	1
Arsenic	11		0.56	0.26	mg/Kg	☼	09/16/15 20:33	09/17/15 17:02	1
Barium	71		0.56	0.10	mg/Kg	☼	09/16/15 20:33	09/17/15 17:02	1
Beryllium	0.59		0.22	0.048	mg/Kg	☼	09/16/15 20:33	09/17/15 17:02	1
Cadmium	0.31		0.11	0.032	mg/Kg	☼	09/16/15 20:33	09/17/15 17:02	1
Chromium	15		0.56	0.096	mg/Kg	☼	09/16/15 20:33	09/17/15 17:02	1
Cobalt	12		0.28	0.063	mg/Kg	☼	09/16/15 20:33	09/17/15 17:02	1
Copper	26		0.56	0.12	mg/Kg	☼	09/16/15 20:33	09/17/15 17:02	1
Iron	23000		11	4.3	mg/Kg	☼	09/16/15 20:33	09/17/15 17:02	1
Lead	31		0.28	0.14	mg/Kg	☼	09/16/15 20:33	09/17/15 17:02	1
Magnesium	11000		5.6	2.3	mg/Kg	☼	09/16/15 20:33	09/17/15 17:02	1
Calcium	15000		11	3.6	mg/Kg	☼	09/16/15 20:33	09/17/15 17:02	1
Manganese	460		0.56	0.11	mg/Kg	☼	09/16/15 20:33	09/17/15 17:02	1
Nickel	32		0.56	0.15	mg/Kg	☼	09/16/15 20:33	09/17/15 17:02	1
Selenium	<0.56		0.56	0.27	mg/Kg	☼	09/16/15 20:33	09/17/15 17:02	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	09/16/15 20:33	09/17/15 17:02	1
Thallium	<0.56		0.56	0.27	mg/Kg	☼	09/16/15 20:33	09/17/15 17:02	1
Vanadium	21		0.28	0.081	mg/Kg	☼	09/16/15 20:33	09/17/15 17:02	1
Zinc	92		1.1	0.35	mg/Kg	☼	09/16/15 20:33	09/17/15 17:02	1
Potassium	1600		28	4.5	mg/Kg	☼	09/16/15 20:33	09/17/15 17:02	1
Sodium	2300		56	7.3	mg/Kg	☼	09/16/15 20:33	09/17/15 17:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/18/15 11:00	09/18/15 23:41	1
Barium	0.50		0.50	0.050	mg/L		09/18/15 11:00	09/18/15 23:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/18/15 11:00	09/18/15 23:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/18/15 11:00	09/18/15 23:41	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B22 (0-2)**

**Lab Sample ID: 500-101071-24**

Date Collected: 09/10/15 08:05

Matrix: Solid

Date Received: 09/11/15 13:00

Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>190</b>		2.5	0.50	mg/L		09/18/15 11:00	09/18/15 23:41	1
Chromium	<0.025		0.025	0.010	mg/L		09/18/15 11:00	09/18/15 23:41	1
<b>Cobalt</b>	<b>0.016</b>	<b>J</b>	0.025	0.010	mg/L		09/18/15 11:00	09/18/15 23:41	1
Copper	<0.025		0.025	0.010	mg/L		09/18/15 11:00	09/18/15 23:41	1
Iron	<0.20		0.20	0.20	mg/L		09/18/15 11:00	09/18/15 23:41	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/18/15 11:00	09/18/15 23:41	1
<b>Magnesium</b>	<b>70</b>		2.5	0.50	mg/L		09/18/15 11:00	09/18/15 23:41	1
<b>Manganese</b>	<b>7.5</b>		0.025	0.010	mg/L		09/18/15 11:00	09/18/15 23:41	1
<b>Nickel</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		09/18/15 11:00	09/18/15 23:41	1
<b>Potassium</b>	<b>5.1</b>		2.5	0.50	mg/L		09/18/15 11:00	09/18/15 23:41	1
Selenium	<0.050		0.050	0.020	mg/L		09/18/15 11:00	09/18/15 23:41	1
Silver	<0.025		0.025	0.010	mg/L		09/18/15 11:00	09/18/15 23:41	1
Vanadium	<0.025		0.025	0.010	mg/L		09/18/15 11:00	09/18/15 23:41	1
<b>Zinc</b>	<b>0.60</b>		0.10	0.020	mg/L		09/18/15 11:00	09/18/15 23:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.072</b>		0.050	0.010	mg/L		09/16/15 15:00	09/17/15 22:25	1
<b>Barium</b>	<b>0.62</b>		0.50	0.050	mg/L		09/16/15 15:00	09/17/15 22:25	1
<b>Beryllium</b>	<b>0.0067</b>		0.0040	0.0040	mg/L		09/16/15 15:00	09/17/15 22:25	1
<b>Cadmium</b>	<b>0.0027</b>	<b>J</b>	0.0050	0.0020	mg/L		09/16/15 15:00	09/17/15 22:25	1
<b>Calcium</b>	<b>28</b>		2.5	0.50	mg/L		09/16/15 15:00	09/17/15 22:25	1
<b>Chromium</b>	<b>0.13</b>		0.025	0.010	mg/L		09/16/15 15:00	09/18/15 15:24	1
<b>Cobalt</b>	<b>0.059</b>		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 22:25	1
<b>Copper</b>	<b>0.21</b>		0.025	0.010	mg/L		09/16/15 15:00	09/18/15 15:24	1
<b>Iron</b>	<b>190</b>		0.20	0.20	mg/L		09/16/15 15:00	09/17/15 22:25	1
<b>Lead</b>	<b>0.18</b>		0.0075	0.0075	mg/L		09/16/15 15:00	09/18/15 15:24	1
<b>Magnesium</b>	<b>23</b>		2.5	0.50	mg/L		09/16/15 15:00	09/17/15 22:25	1
<b>Manganese</b>	<b>2.1</b>		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 22:25	1
<b>Nickel</b>	<b>0.20</b>		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 22:25	1
<b>Potassium</b>	<b>17</b>		2.5	0.50	mg/L		09/16/15 15:00	09/17/15 22:25	1
Selenium	<0.050		0.050	0.020	mg/L		09/16/15 15:00	09/18/15 15:24	1
Silver	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/18/15 15:24	1
<b>Vanadium</b>	<b>0.23</b>		0.025	0.010	mg/L		09/16/15 15:00	09/18/15 15:24	1
<b>Zinc</b>	<b>0.64</b>	<b>B</b>	0.10	0.020	mg/L		09/16/15 15:00	09/18/15 15:24	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		09/18/15 11:00	09/18/15 17:57	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/18/15 11:00	09/18/15 17:57	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/16/15 15:00	09/17/15 17:30	1
<b>Thallium</b>	<b>0.0048</b>		0.0020	0.0020	mg/L		09/16/15 15:00	09/17/15 17:30	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.00028</b>		0.00020	0.00020	mg/L		09/16/15 17:30	09/17/15 18:55	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B22 (0-2)**

**Lab Sample ID: 500-101071-24**

**Date Collected: 09/10/15 08:05**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 83.1**

**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		09/18/15 15:30	09/21/15 10:18	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.043		0.019	0.0065	mg/Kg	☼	09/16/15 15:00	09/17/15 12:42	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	09/16/15 16:30	09/16/15 20:03	1
pH	8.11		0.200	0.200	SU			09/15/15 14:06	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B23 (0-2)**

**Lab Sample ID: 500-101071-25**

**Date Collected: 09/10/15 07:55**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 86.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0038	mg/Kg	☼	09/11/15 17:00	09/15/15 08:08	1
Benzene	<0.0049		0.0049	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 08:08	1
Bromodichloromethane	<0.0049		0.0049	0.00083	mg/Kg	☼	09/11/15 17:00	09/15/15 08:08	1
Bromoform	<0.0049		0.0049	0.0010	mg/Kg	☼	09/11/15 17:00	09/15/15 08:08	1
Bromomethane	<0.0049	*	0.0049	0.0018	mg/Kg	☼	09/11/15 17:00	09/15/15 08:08	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼	09/11/15 17:00	09/15/15 08:08	1
Carbon disulfide	<0.0049		0.0049	0.0018	mg/Kg	☼	09/11/15 17:00	09/15/15 08:08	1
Carbon tetrachloride	<0.0049		0.0049	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 08:08	1
Chlorobenzene	<0.0049		0.0049	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 08:08	1
Chloroethane	<0.0049		0.0049	0.0021	mg/Kg	☼	09/11/15 17:00	09/15/15 08:08	1
Chloroform	<0.0049		0.0049	0.00096	mg/Kg	☼	09/11/15 17:00	09/15/15 08:08	1
Chloromethane	<0.0049		0.0049	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 08:08	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.0010	mg/Kg	☼	09/11/15 17:00	09/15/15 08:08	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 08:08	1
Dibromochloromethane	<0.0049		0.0049	0.00057	mg/Kg	☼	09/11/15 17:00	09/15/15 08:08	1
1,1-Dichloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	09/11/15 17:00	09/15/15 08:08	1
1,2-Dichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	09/11/15 17:00	09/15/15 08:08	1
1,1-Dichloroethene	<0.0049		0.0049	0.0018	mg/Kg	☼	09/11/15 17:00	09/15/15 08:08	1
1,2-Dichloropropane	<0.0049		0.0049	0.0013	mg/Kg	☼	09/11/15 17:00	09/15/15 08:08	1
1,3-Dichloropropane, Total	<0.0049		0.0049	0.0014	mg/Kg	☼	09/11/15 17:00	09/15/15 08:08	1
Ethylbenzene	<0.0049		0.0049	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 08:08	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	☼	09/11/15 17:00	09/15/15 08:08	1
Methylene Chloride	<0.0049		0.0049	0.0037	mg/Kg	☼	09/11/15 17:00	09/15/15 08:08	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0010	mg/Kg	☼	09/11/15 17:00	09/15/15 08:08	1
Methyl tert-butyl ether	<0.0049		0.0049	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 08:08	1
Styrene	<0.0049		0.0049	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 08:08	1
1,1,2,2-Tetrachloroethane	<0.0049		0.0049	0.00078	mg/Kg	☼	09/11/15 17:00	09/15/15 08:08	1
Tetrachloroethene	<0.0049		0.0049	0.0010	mg/Kg	☼	09/11/15 17:00	09/15/15 08:08	1
Toluene	<0.0049		0.0049	0.0017	mg/Kg	☼	09/11/15 17:00	09/15/15 08:08	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 08:08	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.0014	mg/Kg	☼	09/11/15 17:00	09/15/15 08:08	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.0011	mg/Kg	☼	09/11/15 17:00	09/15/15 08:08	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00095	mg/Kg	☼	09/11/15 17:00	09/15/15 08:08	1
Trichloroethene	<0.0049		0.0049	0.0013	mg/Kg	☼	09/11/15 17:00	09/15/15 08:08	1
Vinyl acetate	<0.0049		0.0049	0.0013	mg/Kg	☼	09/11/15 17:00	09/15/15 08:08	1
Vinyl chloride	<0.0049		0.0049	0.0012	mg/Kg	☼	09/11/15 17:00	09/15/15 08:08	1
Xylenes, Total	<0.0099		0.0099	0.0018	mg/Kg	☼	09/11/15 17:00	09/15/15 08:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 122	09/11/15 17:00	09/15/15 08:08	1
Dibromofluoromethane	103		75 - 120	09/11/15 17:00	09/15/15 08:08	1
1,2-Dichloroethane-d4 (Surr)	133		70 - 134	09/11/15 17:00	09/15/15 08:08	1
Toluene-d8 (Surr)	115		75 - 122	09/11/15 17:00	09/15/15 08:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	09/13/15 16:30	09/17/15 14:55	1
Acenaphthylene	0.031	J	0.037	0.0049	mg/Kg	☼	09/13/15 16:30	09/17/15 14:55	1
Anthracene	0.0078	J	0.037	0.0062	mg/Kg	☼	09/13/15 16:30	09/17/15 14:55	1
Benzo[a]anthracene	0.053		0.037	0.0050	mg/Kg	☼	09/13/15 16:30	09/17/15 14:55	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B23 (0-2)**

**Lab Sample ID: 500-101071-25**

**Date Collected: 09/10/15 07:55**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 86.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.088</b>		0.037	0.0072	mg/Kg	☼	09/13/15 16:30	09/17/15 14:55	1
<b>Benzo[b]fluoranthene</b>	<b>0.13</b>		0.037	0.0080	mg/Kg	☼	09/13/15 16:30	09/17/15 14:55	1
<b>Benzo[g,h,i]perylene</b>	<b>0.064</b>		0.037	0.012	mg/Kg	☼	09/13/15 16:30	09/17/15 14:55	1
<b>Benzo[k]fluoranthene</b>	<b>0.048</b>		0.037	0.011	mg/Kg	☼	09/13/15 16:30	09/17/15 14:55	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	09/13/15 16:30	09/17/15 14:55	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	09/13/15 16:30	09/17/15 14:55	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	09/13/15 16:30	09/17/15 14:55	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	09/13/15 16:30	09/17/15 14:55	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	09/13/15 16:30	09/17/15 14:55	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	09/13/15 16:30	09/17/15 14:55	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	09/13/15 16:30	09/17/15 14:55	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	09/13/15 16:30	09/17/15 14:55	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	09/13/15 16:30	09/17/15 14:55	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	09/13/15 16:30	09/17/15 14:55	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	09/13/15 16:30	09/17/15 14:55	1
<b>Chrysene</b>	<b>0.061</b>		0.037	0.010	mg/Kg	☼	09/13/15 16:30	09/17/15 14:55	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	09/13/15 16:30	09/17/15 14:55	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	09/13/15 16:30	09/17/15 14:55	1
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	09/13/15 16:30	09/17/15 14:55	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	09/13/15 16:30	09/17/15 14:55	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	09/13/15 16:30	09/17/15 14:55	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	09/13/15 16:30	09/17/15 14:55	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	09/13/15 16:30	09/17/15 14:55	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	09/13/15 16:30	09/17/15 14:55	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	09/13/15 16:30	09/17/15 14:55	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	09/13/15 16:30	09/17/15 14:55	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	09/13/15 16:30	09/17/15 14:55	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	09/13/15 16:30	09/17/15 14:55	1
2,4-Dinitrophenol	<0.75		0.75	0.66	mg/Kg	☼	09/13/15 16:30	09/17/15 14:55	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	09/13/15 16:30	09/17/15 14:55	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	09/13/15 16:30	09/17/15 14:55	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	09/13/15 16:30	09/17/15 14:55	1
<b>Fluoranthene</b>	<b>0.052</b>		0.037	0.0069	mg/Kg	☼	09/13/15 16:30	09/17/15 14:55	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	09/13/15 16:30	09/17/15 14:55	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	09/13/15 16:30	09/17/15 14:55	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	09/13/15 16:30	09/17/15 14:55	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	09/13/15 16:30	09/17/15 14:55	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	09/13/15 16:30	09/17/15 14:55	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.059</b>		0.037	0.0096	mg/Kg	☼	09/13/15 16:30	09/17/15 14:55	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	09/13/15 16:30	09/17/15 14:55	1
2-Methylnaphthalene	<0.037		0.037	0.0068	mg/Kg	☼	09/13/15 16:30	09/17/15 14:55	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	09/13/15 16:30	09/17/15 14:55	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	09/13/15 16:30	09/17/15 14:55	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	09/13/15 16:30	09/17/15 14:55	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	09/13/15 16:30	09/17/15 14:55	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	09/13/15 16:30	09/17/15 14:55	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	09/13/15 16:30	09/17/15 14:55	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	09/13/15 16:30	09/17/15 14:55	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	09/13/15 16:30	09/17/15 14:55	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B23 (0-2)**

**Lab Sample ID: 500-101071-25**

Date Collected: 09/10/15 07:55

Matrix: Solid

Date Received: 09/11/15 13:00

Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	09/13/15 16:30	09/17/15 14:55	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	09/13/15 16:30	09/17/15 14:55	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	09/13/15 16:30	09/17/15 14:55	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	09/13/15 16:30	09/17/15 14:55	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	09/13/15 16:30	09/17/15 14:55	1
<b>Phenanthrene</b>	<b>0.023</b>	<b>J</b>	0.037	0.0052	mg/Kg	☼	09/13/15 16:30	09/17/15 14:55	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	09/13/15 16:30	09/17/15 14:55	1
<b>Pyrene</b>	<b>0.10</b>		0.037	0.0074	mg/Kg	☼	09/13/15 16:30	09/17/15 14:55	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	09/13/15 16:30	09/17/15 14:55	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	09/13/15 16:30	09/17/15 14:55	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	09/13/15 16:30	09/17/15 14:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	71		25 - 119				09/13/15 16:30	09/17/15 14:55	1
2-Fluorophenol	69		25 - 110				09/13/15 16:30	09/17/15 14:55	1
Nitrobenzene-d5	72		25 - 115				09/13/15 16:30	09/17/15 14:55	1
Phenol-d5	71		31 - 110				09/13/15 16:30	09/17/15 14:55	1
Terphenyl-d14	137	X	36 - 134				09/13/15 16:30	09/17/15 14:55	1
2,4,6-Tribromophenol	62		35 - 137				09/13/15 16:30	09/17/15 14:55	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.31</b>	<b>J</b>	1.1	0.23	mg/Kg	☼	09/16/15 20:33	09/17/15 17:05	1
<b>Arsenic</b>	<b>8.9</b>		0.55	0.25	mg/Kg	☼	09/16/15 20:33	09/17/15 17:05	1
<b>Barium</b>	<b>89</b>		0.55	0.10	mg/Kg	☼	09/16/15 20:33	09/17/15 17:05	1
<b>Beryllium</b>	<b>0.60</b>		0.22	0.048	mg/Kg	☼	09/16/15 20:33	09/17/15 17:05	1
<b>Cadmium</b>	<b>0.37</b>		0.11	0.032	mg/Kg	☼	09/16/15 20:33	09/17/15 17:05	1
<b>Chromium</b>	<b>13</b>		0.55	0.095	mg/Kg	☼	09/16/15 20:33	09/17/15 17:05	1
<b>Cobalt</b>	<b>9.0</b>		0.28	0.062	mg/Kg	☼	09/16/15 20:33	09/17/15 17:05	1
<b>Copper</b>	<b>20</b>		0.55	0.12	mg/Kg	☼	09/16/15 20:33	09/17/15 17:05	1
<b>Iron</b>	<b>18000</b>		11	4.2	mg/Kg	☼	09/16/15 20:33	09/17/15 17:05	1
<b>Lead</b>	<b>38</b>		0.28	0.14	mg/Kg	☼	09/16/15 20:33	09/17/15 17:05	1
<b>Magnesium</b>	<b>8600</b>		5.5	2.2	mg/Kg	☼	09/16/15 20:33	09/17/15 17:05	1
<b>Calcium</b>	<b>13000</b>		11	3.5	mg/Kg	☼	09/16/15 20:33	09/17/15 17:05	1
<b>Manganese</b>	<b>440</b>		0.55	0.11	mg/Kg	☼	09/16/15 20:33	09/17/15 17:05	1
<b>Nickel</b>	<b>20</b>		0.55	0.15	mg/Kg	☼	09/16/15 20:33	09/17/15 17:05	1
<b>Selenium</b>	<b>0.29</b>	<b>J</b>	0.55	0.27	mg/Kg	☼	09/16/15 20:33	09/17/15 17:05	1
Silver	<0.28		0.28	0.064	mg/Kg	☼	09/16/15 20:33	09/17/15 17:05	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	09/16/15 20:33	09/17/15 17:05	1
<b>Vanadium</b>	<b>21</b>		0.28	0.080	mg/Kg	☼	09/16/15 20:33	09/17/15 17:05	1
<b>Zinc</b>	<b>88</b>		1.1	0.35	mg/Kg	☼	09/16/15 20:33	09/17/15 17:05	1
<b>Potassium</b>	<b>1200</b>		28	4.5	mg/Kg	☼	09/16/15 20:33	09/17/15 17:05	1
<b>Sodium</b>	<b>1100</b>		55	7.3	mg/Kg	☼	09/16/15 20:33	09/17/15 17:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/18/15 11:00	09/18/15 23:48	1
<b>Barium</b>	<b>0.42</b>	<b>J</b>	0.50	0.050	mg/L		09/18/15 11:00	09/18/15 23:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/18/15 11:00	09/18/15 23:48	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/18/15 11:00	09/18/15 23:48	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B23 (0-2)**

**Lab Sample ID: 500-101071-25**

**Date Collected: 09/10/15 07:55**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 86.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>170</b>		2.5	0.50	mg/L		09/18/15 11:00	09/18/15 23:48	1
Chromium	<0.025		0.025	0.010	mg/L		09/18/15 11:00	09/18/15 23:48	1
Cobalt	<0.025		0.025	0.010	mg/L		09/18/15 11:00	09/18/15 23:48	1
Copper	<0.025		0.025	0.010	mg/L		09/18/15 11:00	09/18/15 23:48	1
Iron	<0.20		0.20	0.20	mg/L		09/18/15 11:00	09/18/15 23:48	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/18/15 11:00	09/18/15 23:48	1
<b>Magnesium</b>	<b>79</b>		2.5	0.50	mg/L		09/18/15 11:00	09/18/15 23:48	1
<b>Manganese</b>	<b>0.088</b>		0.025	0.010	mg/L		09/18/15 11:00	09/18/15 23:48	1
Nickel	<0.025		0.025	0.010	mg/L		09/18/15 11:00	09/18/15 23:48	1
<b>Potassium</b>	<b>5.6</b>		2.5	0.50	mg/L		09/18/15 11:00	09/18/15 23:48	1
Selenium	<0.050		0.050	0.020	mg/L		09/18/15 11:00	09/18/15 23:48	1
Silver	<0.025		0.025	0.010	mg/L		09/18/15 11:00	09/18/15 23:48	1
Vanadium	<0.025		0.025	0.010	mg/L		09/18/15 11:00	09/18/15 23:48	1
Zinc	<0.10		0.10	0.020	mg/L		09/18/15 11:00	09/18/15 23:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.021</b>	<b>J</b>	0.050	0.010	mg/L		09/16/15 15:00	09/17/15 22:38	1
<b>Barium</b>	<b>0.55</b>		0.50	0.050	mg/L		09/16/15 15:00	09/17/15 22:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/16/15 15:00	09/17/15 22:38	1
<b>Cadmium</b>	<b>0.0023</b>	<b>J</b>	0.0050	0.0020	mg/L		09/16/15 15:00	09/17/15 22:38	1
<b>Calcium</b>	<b>25</b>		2.5	0.50	mg/L		09/16/15 15:00	09/17/15 22:38	1
<b>Chromium</b>	<b>0.088</b>		0.025	0.010	mg/L		09/16/15 15:00	09/18/15 15:30	1
<b>Cobalt</b>	<b>0.016</b>	<b>J</b>	0.025	0.010	mg/L		09/16/15 15:00	09/17/15 22:38	1
<b>Copper</b>	<b>0.11</b>		0.025	0.010	mg/L		09/16/15 15:00	09/18/15 15:30	1
<b>Iron</b>	<b>91</b>		0.20	0.20	mg/L		09/16/15 15:00	09/17/15 22:38	1
<b>Lead</b>	<b>0.12</b>		0.0075	0.0075	mg/L		09/16/15 15:00	09/18/15 15:30	1
<b>Magnesium</b>	<b>16</b>		2.5	0.50	mg/L		09/16/15 15:00	09/17/15 22:38	1
<b>Manganese</b>	<b>0.90</b>		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 22:38	1
<b>Nickel</b>	<b>0.079</b>		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 22:38	1
<b>Potassium</b>	<b>11</b>		2.5	0.50	mg/L		09/16/15 15:00	09/17/15 22:38	1
Selenium	<0.050		0.050	0.020	mg/L		09/16/15 15:00	09/18/15 15:30	1
Silver	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/18/15 15:30	1
<b>Vanadium</b>	<b>0.15</b>		0.025	0.010	mg/L		09/16/15 15:00	09/18/15 15:30	1
<b>Zinc</b>	<b>1.1</b>	<b>B</b>	0.10	0.020	mg/L		09/16/15 15:00	09/18/15 15:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/18/15 11:00	09/18/15 17:58	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/18/15 11:00	09/18/15 17:58	1

**Method: 6020A - Metals (ICP/MS) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/16/15 15:00	09/17/15 17:34	1
<b>Thallium</b>	<b>0.0022</b>		0.0020	0.0020	mg/L		09/16/15 15:00	09/17/15 17:34	1

**Method: 7470A - Mercury (CVAA) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/16/15 17:30	09/17/15 18:57	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B23 (0-2)**

**Lab Sample ID: 500-101071-25**

**Date Collected: 09/10/15 07:55**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 86.7**

**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		09/18/15 15:30	09/21/15 10:20	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.047		0.018	0.0063	mg/Kg	☼	09/16/15 15:00	09/17/15 11:42	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	09/16/15 16:30	09/16/15 20:03	1
pH	8.40		0.200	0.200	SU			09/15/15 14:14	1

- 1
- 2
- 3
- 4
- 5
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- 12
- 13
- 14
- 15

# Definitions/Glossary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

## Qualifiers

### GC/MS VOA

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

### GC/MS Semi VOA

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

### Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F2	MS/MSD RPD exceeds control limits
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
F3	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

## Glossary

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

# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

## GC/MS VOA

### Prep Batch: 304001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-101071-1	2233V-1-B01 (0-2)	Total/NA	Solid	5035	
500-101071-2	2233V-1-B02 (0-2)	Total/NA	Solid	5035	
500-101071-3	2233V-1-B03 (0-2)	Total/NA	Solid	5035	
500-101071-4	2233V-1-B04 (0-2)	Total/NA	Solid	5035	
500-101071-5	2233V-1-B05 (0-2)	Total/NA	Solid	5035	
500-101071-6	2233V-1-B06 (0-2)	Total/NA	Solid	5035	
500-101071-7	2233V-1-B07 (0-2)	Total/NA	Solid	5035	
500-101071-8	2233V-1-B08 (0-2)	Total/NA	Solid	5035	
500-101071-9	2233V-1-B09 (0-2)	Total/NA	Solid	5035	
500-101071-10	2233V-1-B09 DUP (0-2)	Total/NA	Solid	5035	
500-101071-11	2233V-1-B10 (0-2)	Total/NA	Solid	5035	
500-101071-12	2233V-1-B11 (0-2)	Total/NA	Solid	5035	
500-101071-13	2233V-1-B12 (0-2)	Total/NA	Solid	5035	
500-101071-14	2233V-1-B13 (0-2)	Total/NA	Solid	5035	
500-101071-15	2233V-1-B14 (0-2)	Total/NA	Solid	5035	
500-101071-16	2233V-1-B15 (0-2)	Total/NA	Solid	5035	
500-101071-17	2233V-1-B16 (0-2)	Total/NA	Solid	5035	
500-101071-18	2233V-1-B17 (0-2)	Total/NA	Solid	5035	
500-101071-19	2233V-1-B18 (0-2)	Total/NA	Solid	5035	
500-101071-20	2233V-1-B19 (0-2)	Total/NA	Solid	5035	
500-101071-21	2233V-1-B20 (0-2)	Total/NA	Solid	5035	
500-101071-22	2233V-1-B20 DUP (0-2)	Total/NA	Solid	5035	
500-101071-23	2233V-1-B21 (0-2)	Total/NA	Solid	5035	
500-101071-24	2233V-1-B22 (0-2)	Total/NA	Solid	5035	
500-101071-25	2233V-1-B23 (0-2)	Total/NA	Solid	5035	

### Analysis Batch: 304054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-101071-1	2233V-1-B01 (0-2)	Total/NA	Solid	8260B	304001
500-101071-2	2233V-1-B02 (0-2)	Total/NA	Solid	8260B	304001
LCS 500-304054/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-304054/6	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 500-304054/7	Method Blank	Total/NA	Solid	8260B	

### Analysis Batch: 304173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-101071-3	2233V-1-B03 (0-2)	Total/NA	Solid	8260B	304001
500-101071-4	2233V-1-B04 (0-2)	Total/NA	Solid	8260B	304001
500-101071-5	2233V-1-B05 (0-2)	Total/NA	Solid	8260B	304001
500-101071-6	2233V-1-B06 (0-2)	Total/NA	Solid	8260B	304001
500-101071-7	2233V-1-B07 (0-2)	Total/NA	Solid	8260B	304001
500-101071-8	2233V-1-B08 (0-2)	Total/NA	Solid	8260B	304001
500-101071-9	2233V-1-B09 (0-2)	Total/NA	Solid	8260B	304001
500-101071-10	2233V-1-B09 DUP (0-2)	Total/NA	Solid	8260B	304001
500-101071-11	2233V-1-B10 (0-2)	Total/NA	Solid	8260B	304001
500-101071-12	2233V-1-B11 (0-2)	Total/NA	Solid	8260B	304001
500-101071-13	2233V-1-B12 (0-2)	Total/NA	Solid	8260B	304001
500-101071-14	2233V-1-B13 (0-2)	Total/NA	Solid	8260B	304001
500-101071-15	2233V-1-B14 (0-2)	Total/NA	Solid	8260B	304001
500-101071-16	2233V-1-B15 (0-2)	Total/NA	Solid	8260B	304001
500-101071-17	2233V-1-B16 (0-2)	Total/NA	Solid	8260B	304001

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# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
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TestAmerica Job ID: 500-101071-1

## GC/MS VOA (Continued)

### Analysis Batch: 304173 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-101071-18	2233V-1-B17 (0-2)	Total/NA	Solid	8260B	304001
500-101071-19	2233V-1-B18 (0-2)	Total/NA	Solid	8260B	304001
500-101071-20	2233V-1-B19 (0-2)	Total/NA	Solid	8260B	304001
500-101071-21	2233V-1-B20 (0-2)	Total/NA	Solid	8260B	304001
500-101071-22	2233V-1-B20 DUP (0-2)	Total/NA	Solid	8260B	304001
500-101071-23	2233V-1-B21 (0-2)	Total/NA	Solid	8260B	304001
500-101071-24	2233V-1-B22 (0-2)	Total/NA	Solid	8260B	304001
500-101071-25	2233V-1-B23 (0-2)	Total/NA	Solid	8260B	304001
LCS 500-304173/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-304173/5	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 500-304173/6	Method Blank	Total/NA	Solid	8260B	

## GC/MS Semi VOA

### Prep Batch: 304034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-101071-21	2233V-1-B20 (0-2)	Total/NA	Solid	3541	
500-101071-22	2233V-1-B20 DUP (0-2)	Total/NA	Solid	3541	
500-101071-23	2233V-1-B21 (0-2)	Total/NA	Solid	3541	
500-101071-24	2233V-1-B22 (0-2)	Total/NA	Solid	3541	
500-101071-25	2233V-1-B23 (0-2)	Total/NA	Solid	3541	
LCS 500-304034/2-A	Lab Control Sample	Total/NA	Solid	3541	
MB 500-304034/1-A	Method Blank	Total/NA	Solid	3541	

### Prep Batch: 304076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-101071-1	2233V-1-B01 (0-2)	Total/NA	Solid	3541	
500-101071-1 MS	2233V-1-B01 (0-2)	Total/NA	Solid	3541	
500-101071-1 MSD	2233V-1-B01 (0-2)	Total/NA	Solid	3541	
500-101071-2	2233V-1-B02 (0-2)	Total/NA	Solid	3541	
500-101071-3	2233V-1-B03 (0-2)	Total/NA	Solid	3541	
500-101071-4	2233V-1-B04 (0-2)	Total/NA	Solid	3541	
500-101071-5	2233V-1-B05 (0-2)	Total/NA	Solid	3541	
500-101071-6	2233V-1-B06 (0-2)	Total/NA	Solid	3541	
500-101071-7	2233V-1-B07 (0-2)	Total/NA	Solid	3541	
500-101071-8	2233V-1-B08 (0-2)	Total/NA	Solid	3541	
500-101071-9	2233V-1-B09 (0-2)	Total/NA	Solid	3541	
500-101071-10	2233V-1-B09 DUP (0-2)	Total/NA	Solid	3541	
500-101071-11	2233V-1-B10 (0-2)	Total/NA	Solid	3541	
500-101071-12	2233V-1-B11 (0-2)	Total/NA	Solid	3541	
500-101071-13	2233V-1-B12 (0-2)	Total/NA	Solid	3541	
500-101071-14	2233V-1-B13 (0-2)	Total/NA	Solid	3541	
500-101071-15	2233V-1-B14 (0-2)	Total/NA	Solid	3541	
500-101071-16	2233V-1-B15 (0-2)	Total/NA	Solid	3541	
500-101071-17	2233V-1-B16 (0-2)	Total/NA	Solid	3541	
500-101071-18	2233V-1-B17 (0-2)	Total/NA	Solid	3541	
500-101071-19	2233V-1-B18 (0-2)	Total/NA	Solid	3541	
500-101071-20	2233V-1-B19 (0-2)	Total/NA	Solid	3541	
LCS 500-304076/2-A	Lab Control Sample	Total/NA	Solid	3541	
MB 500-304076/1-A	Method Blank	Total/NA	Solid	3541	

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# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
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TestAmerica Job ID: 500-101071-1

## GC/MS Semi VOA (Continued)

### Analysis Batch: 304103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-304034/2-A	Lab Control Sample	Total/NA	Solid	8270D	304034
MB 500-304034/1-A	Method Blank	Total/NA	Solid	8270D	304034

### Analysis Batch: 304255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-304076/2-A	Lab Control Sample	Total/NA	Solid	8270D	304076
MB 500-304076/1-A	Method Blank	Total/NA	Solid	8270D	304076

### Analysis Batch: 304474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-101071-22	2233V-1-B20 DUP (0-2)	Total/NA	Solid	8270D	304034
500-101071-23	2233V-1-B21 (0-2)	Total/NA	Solid	8270D	304034
500-101071-24	2233V-1-B22 (0-2)	Total/NA	Solid	8270D	304034

### Analysis Batch: 304481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-101071-1	2233V-1-B01 (0-2)	Total/NA	Solid	8270D	304076
500-101071-1 MS	2233V-1-B01 (0-2)	Total/NA	Solid	8270D	304076
500-101071-1 MSD	2233V-1-B01 (0-2)	Total/NA	Solid	8270D	304076
500-101071-2	2233V-1-B02 (0-2)	Total/NA	Solid	8270D	304076
500-101071-3	2233V-1-B03 (0-2)	Total/NA	Solid	8270D	304076
500-101071-5	2233V-1-B05 (0-2)	Total/NA	Solid	8270D	304076
500-101071-7	2233V-1-B07 (0-2)	Total/NA	Solid	8270D	304076
500-101071-8	2233V-1-B08 (0-2)	Total/NA	Solid	8270D	304076
500-101071-9	2233V-1-B09 (0-2)	Total/NA	Solid	8270D	304076
500-101071-10	2233V-1-B09 DUP (0-2)	Total/NA	Solid	8270D	304076
500-101071-11	2233V-1-B10 (0-2)	Total/NA	Solid	8270D	304076
500-101071-13	2233V-1-B12 (0-2)	Total/NA	Solid	8270D	304076
500-101071-15	2233V-1-B14 (0-2)	Total/NA	Solid	8270D	304076
500-101071-16	2233V-1-B15 (0-2)	Total/NA	Solid	8270D	304076
500-101071-17	2233V-1-B16 (0-2)	Total/NA	Solid	8270D	304076
500-101071-18	2233V-1-B17 (0-2)	Total/NA	Solid	8270D	304076
500-101071-19	2233V-1-B18 (0-2)	Total/NA	Solid	8270D	304076
500-101071-20	2233V-1-B19 (0-2)	Total/NA	Solid	8270D	304076

### Analysis Batch: 304662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-101071-4	2233V-1-B04 (0-2)	Total/NA	Solid	8270D	304076
500-101071-6	2233V-1-B06 (0-2)	Total/NA	Solid	8270D	304076
500-101071-12	2233V-1-B11 (0-2)	Total/NA	Solid	8270D	304076
500-101071-14	2233V-1-B13 (0-2)	Total/NA	Solid	8270D	304076
500-101071-21	2233V-1-B20 (0-2)	Total/NA	Solid	8270D	304034
500-101071-25	2233V-1-B23 (0-2)	Total/NA	Solid	8270D	304034

## Metals

### Leach Batch: 304209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-101071-1	2233V-1-B01 (0-2)	SPLP East	Solid	1312	
500-101071-1 DU	2233V-1-B01 (0-2)	SPLP East	Solid	1312	

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Client: Terracon Consulting Eng & Scientists  
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TestAmerica Job ID: 500-101071-1

## Metals (Continued)

### Leach Batch: 304209 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-101071-1 MS	2233V-1-B01 (0-2)	SPLP East	Solid	1312	
500-101071-2	2233V-1-B02 (0-2)	SPLP East	Solid	1312	
500-101071-2 DU	2233V-1-B02 (0-2)	SPLP East	Solid	1312	
500-101071-2 MS	2233V-1-B02 (0-2)	SPLP East	Solid	1312	
500-101071-3	2233V-1-B03 (0-2)	SPLP East	Solid	1312	
500-101071-4	2233V-1-B04 (0-2)	SPLP East	Solid	1312	
500-101071-5	2233V-1-B05 (0-2)	SPLP East	Solid	1312	
500-101071-6	2233V-1-B06 (0-2)	SPLP East	Solid	1312	
500-101071-7	2233V-1-B07 (0-2)	SPLP East	Solid	1312	
500-101071-8	2233V-1-B08 (0-2)	SPLP East	Solid	1312	
500-101071-9	2233V-1-B09 (0-2)	SPLP East	Solid	1312	
500-101071-10	2233V-1-B09 DUP (0-2)	SPLP East	Solid	1312	
500-101071-11	2233V-1-B10 (0-2)	SPLP East	Solid	1312	
500-101071-12	2233V-1-B11 (0-2)	SPLP East	Solid	1312	
500-101071-13	2233V-1-B12 (0-2)	SPLP East	Solid	1312	
500-101071-14	2233V-1-B13 (0-2)	SPLP East	Solid	1312	
500-101071-15	2233V-1-B14 (0-2)	SPLP East	Solid	1312	
500-101071-16	2233V-1-B15 (0-2)	SPLP East	Solid	1312	
500-101071-17	2233V-1-B16 (0-2)	SPLP East	Solid	1312	
500-101071-18	2233V-1-B17 (0-2)	SPLP East	Solid	1312	
LB 500-304209/1-B	Method Blank	SPLP East	Solid	1312	
LB 500-304209/1-C	Method Blank	SPLP East	Solid	1312	

### Leach Batch: 304407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-101071-19	2233V-1-B18 (0-2)	SPLP East	Solid	1312	
500-101071-19 DU	2233V-1-B18 (0-2)	SPLP East	Solid	1312	
500-101071-19 MS	2233V-1-B18 (0-2)	SPLP East	Solid	1312	
500-101071-20	2233V-1-B19 (0-2)	SPLP East	Solid	1312	
500-101071-21	2233V-1-B20 (0-2)	SPLP East	Solid	1312	
500-101071-22	2233V-1-B20 DUP (0-2)	SPLP East	Solid	1312	
500-101071-23	2233V-1-B21 (0-2)	SPLP East	Solid	1312	
500-101071-24	2233V-1-B22 (0-2)	SPLP East	Solid	1312	
500-101071-25	2233V-1-B23 (0-2)	SPLP East	Solid	1312	
LB 500-304407/1-B	Method Blank	SPLP East	Solid	1312	
LB 500-304407/1-C	Method Blank	SPLP East	Solid	1312	

### Prep Batch: 304415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-101071-1	2233V-1-B01 (0-2)	SPLP East	Solid	7470A	304209
500-101071-2	2233V-1-B02 (0-2)	SPLP East	Solid	7470A	304209
500-101071-2 DU	2233V-1-B02 (0-2)	SPLP East	Solid	7470A	304209
500-101071-2 MS	2233V-1-B02 (0-2)	SPLP East	Solid	7470A	304209
500-101071-3	2233V-1-B03 (0-2)	SPLP East	Solid	7470A	304209
500-101071-4	2233V-1-B04 (0-2)	SPLP East	Solid	7470A	304209
500-101071-5	2233V-1-B05 (0-2)	SPLP East	Solid	7470A	304209
500-101071-6	2233V-1-B06 (0-2)	SPLP East	Solid	7470A	304209
500-101071-7	2233V-1-B07 (0-2)	SPLP East	Solid	7470A	304209
500-101071-8	2233V-1-B08 (0-2)	SPLP East	Solid	7470A	304209
500-101071-9	2233V-1-B09 (0-2)	SPLP East	Solid	7470A	304209
500-101071-10	2233V-1-B09 DUP (0-2)	SPLP East	Solid	7470A	304209

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# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
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TestAmerica Job ID: 500-101071-1

## Metals (Continued)

### Prep Batch: 304415 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-101071-11	2233V-1-B10 (0-2)	SPLP East	Solid	7470A	304209
500-101071-12	2233V-1-B11 (0-2)	SPLP East	Solid	7470A	304209
500-101071-13	2233V-1-B12 (0-2)	SPLP East	Solid	7470A	304209
500-101071-14	2233V-1-B13 (0-2)	SPLP East	Solid	7470A	304209
500-101071-15	2233V-1-B14 (0-2)	SPLP East	Solid	7470A	304209
500-101071-16	2233V-1-B15 (0-2)	SPLP East	Solid	7470A	304209
500-101071-17	2233V-1-B16 (0-2)	SPLP East	Solid	7470A	304209
500-101071-18	2233V-1-B17 (0-2)	SPLP East	Solid	7470A	304209
LB 500-304209/1-B	Method Blank	SPLP East	Solid	7470A	304209
LCS 500-304415/13-A	Lab Control Sample	Total/NA	Solid	7470A	
MB 500-304415/12-A	Method Blank	Total/NA	Solid	7470A	

### Prep Batch: 304422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-101071-1	2233V-1-B01 (0-2)	SPLP East	Solid	3010A	304209
500-101071-1 DU	2233V-1-B01 (0-2)	SPLP East	Solid	3010A	304209
500-101071-1 MS	2233V-1-B01 (0-2)	SPLP East	Solid	3010A	304209
500-101071-2	2233V-1-B02 (0-2)	SPLP East	Solid	3010A	304209
500-101071-3	2233V-1-B03 (0-2)	SPLP East	Solid	3010A	304209
500-101071-4	2233V-1-B04 (0-2)	SPLP East	Solid	3010A	304209
500-101071-5	2233V-1-B05 (0-2)	SPLP East	Solid	3010A	304209
500-101071-6	2233V-1-B06 (0-2)	SPLP East	Solid	3010A	304209
500-101071-7	2233V-1-B07 (0-2)	SPLP East	Solid	3010A	304209
500-101071-8	2233V-1-B08 (0-2)	SPLP East	Solid	3010A	304209
500-101071-9	2233V-1-B09 (0-2)	SPLP East	Solid	3010A	304209
500-101071-10	2233V-1-B09 DUP (0-2)	SPLP East	Solid	3010A	304209
500-101071-11	2233V-1-B10 (0-2)	SPLP East	Solid	3010A	304209
500-101071-12	2233V-1-B11 (0-2)	SPLP East	Solid	3010A	304209
500-101071-13	2233V-1-B12 (0-2)	SPLP East	Solid	3010A	304209
500-101071-14	2233V-1-B13 (0-2)	SPLP East	Solid	3010A	304209
500-101071-15	2233V-1-B14 (0-2)	SPLP East	Solid	3010A	304209
500-101071-16	2233V-1-B15 (0-2)	SPLP East	Solid	3010A	304209
500-101071-17	2233V-1-B16 (0-2)	SPLP East	Solid	3010A	304209
500-101071-18	2233V-1-B17 (0-2)	SPLP East	Solid	3010A	304209
LB 500-304209/1-C	Method Blank	SPLP East	Solid	3010A	304209
LCS 500-304422/2-A	Lab Control Sample	Total/NA	Solid	3010A	

### Prep Batch: 304506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-101071-1	2233V-1-B01 (0-2)	Total/NA	Solid	3050B	
500-101071-1 DU	2233V-1-B01 (0-2)	Total/NA	Solid	3050B	
500-101071-1 MS	2233V-1-B01 (0-2)	Total/NA	Solid	3050B	
500-101071-1 MSD	2233V-1-B01 (0-2)	Total/NA	Solid	3050B	
500-101071-2	2233V-1-B02 (0-2)	Total/NA	Solid	3050B	
500-101071-3	2233V-1-B03 (0-2)	Total/NA	Solid	3050B	
500-101071-4	2233V-1-B04 (0-2)	Total/NA	Solid	3050B	
500-101071-5	2233V-1-B05 (0-2)	Total/NA	Solid	3050B	
500-101071-6	2233V-1-B06 (0-2)	Total/NA	Solid	3050B	
500-101071-7	2233V-1-B07 (0-2)	Total/NA	Solid	3050B	
500-101071-8	2233V-1-B08 (0-2)	Total/NA	Solid	3050B	
500-101071-9	2233V-1-B09 (0-2)	Total/NA	Solid	3050B	

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Client: Terracon Consulting Eng & Scientists  
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TestAmerica Job ID: 500-101071-1

## Metals (Continued)

### Prep Batch: 304506 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-101071-10	2233V-1-B09 DUP (0-2)	Total/NA	Solid	3050B	
500-101071-11	2233V-1-B10 (0-2)	Total/NA	Solid	3050B	
500-101071-12	2233V-1-B11 (0-2)	Total/NA	Solid	3050B	
500-101071-13	2233V-1-B12 (0-2)	Total/NA	Solid	3050B	
500-101071-14	2233V-1-B13 (0-2)	Total/NA	Solid	3050B	
500-101071-15	2233V-1-B14 (0-2)	Total/NA	Solid	3050B	
500-101071-16	2233V-1-B15 (0-2)	Total/NA	Solid	3050B	
500-101071-17	2233V-1-B16 (0-2)	Total/NA	Solid	3050B	
500-101071-18	2233V-1-B17 (0-2)	Total/NA	Solid	3050B	
500-101071-19	2233V-1-B18 (0-2)	Total/NA	Solid	3050B	
500-101071-20	2233V-1-B19 (0-2)	Total/NA	Solid	3050B	
LCS 500-304506/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 500-304506/1-A	Method Blank	Total/NA	Solid	3050B	

### Prep Batch: 304521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-101071-21	2233V-1-B20 (0-2)	Total/NA	Solid	7471B	
500-101071-21 DU	2233V-1-B20 (0-2)	Total/NA	Solid	7471B	
500-101071-21 MS	2233V-1-B20 (0-2)	Total/NA	Solid	7471B	
500-101071-21 MSD	2233V-1-B20 (0-2)	Total/NA	Solid	7471B	
500-101071-22	2233V-1-B20 DUP (0-2)	Total/NA	Solid	7471B	
500-101071-23	2233V-1-B21 (0-2)	Total/NA	Solid	7471B	
500-101071-24	2233V-1-B22 (0-2)	Total/NA	Solid	7471B	
500-101071-25	2233V-1-B23 (0-2)	Total/NA	Solid	7471B	
LCS 500-304521/13-A	Lab Control Sample	Total/NA	Solid	7471B	
MB 500-304521/12-A	Method Blank	Total/NA	Solid	7471B	

### Analysis Batch: 304527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-101071-1	2233V-1-B01 (0-2)	SPLP East	Solid	7470A	304415
500-101071-2	2233V-1-B02 (0-2)	SPLP East	Solid	7470A	304415
500-101071-2 DU	2233V-1-B02 (0-2)	SPLP East	Solid	7470A	304415
500-101071-2 MS	2233V-1-B02 (0-2)	SPLP East	Solid	7470A	304415
500-101071-3	2233V-1-B03 (0-2)	SPLP East	Solid	7470A	304415
500-101071-4	2233V-1-B04 (0-2)	SPLP East	Solid	7470A	304415
500-101071-5	2233V-1-B05 (0-2)	SPLP East	Solid	7470A	304415
500-101071-6	2233V-1-B06 (0-2)	SPLP East	Solid	7470A	304415
500-101071-7	2233V-1-B07 (0-2)	SPLP East	Solid	7470A	304415
500-101071-8	2233V-1-B08 (0-2)	SPLP East	Solid	7470A	304415
500-101071-9	2233V-1-B09 (0-2)	SPLP East	Solid	7470A	304415
500-101071-10	2233V-1-B09 DUP (0-2)	SPLP East	Solid	7470A	304415
500-101071-11	2233V-1-B10 (0-2)	SPLP East	Solid	7470A	304415
500-101071-12	2233V-1-B11 (0-2)	SPLP East	Solid	7470A	304415
500-101071-13	2233V-1-B12 (0-2)	SPLP East	Solid	7470A	304415
500-101071-14	2233V-1-B13 (0-2)	SPLP East	Solid	7470A	304415
500-101071-15	2233V-1-B14 (0-2)	SPLP East	Solid	7470A	304415
500-101071-16	2233V-1-B15 (0-2)	SPLP East	Solid	7470A	304415
500-101071-17	2233V-1-B16 (0-2)	SPLP East	Solid	7470A	304415
500-101071-18	2233V-1-B17 (0-2)	SPLP East	Solid	7470A	304415
LB 500-304209/1-B	Method Blank	SPLP East	Solid	7470A	304415
LCS 500-304415/13-A	Lab Control Sample	Total/NA	Solid	7470A	304415

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## Metals (Continued)

### Analysis Batch: 304527 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-304415/12-A	Method Blank	Total/NA	Solid	7470A	304415

### Analysis Batch: 304528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-101071-1	2233V-1-B01 (0-2)	SPLP East	Solid	6020A	304422
500-101071-1 DU	2233V-1-B01 (0-2)	SPLP East	Solid	6020A	304422
500-101071-1 MS	2233V-1-B01 (0-2)	SPLP East	Solid	6020A	304422
500-101071-2	2233V-1-B02 (0-2)	SPLP East	Solid	6020A	304422
500-101071-3	2233V-1-B03 (0-2)	SPLP East	Solid	6020A	304422
500-101071-4	2233V-1-B04 (0-2)	SPLP East	Solid	6020A	304422
500-101071-5	2233V-1-B05 (0-2)	SPLP East	Solid	6020A	304422
500-101071-6	2233V-1-B06 (0-2)	SPLP East	Solid	6020A	304422
500-101071-7	2233V-1-B07 (0-2)	SPLP East	Solid	6020A	304422
500-101071-8	2233V-1-B08 (0-2)	SPLP East	Solid	6020A	304422
500-101071-9	2233V-1-B09 (0-2)	SPLP East	Solid	6020A	304422
500-101071-10	2233V-1-B09 DUP (0-2)	SPLP East	Solid	6020A	304422
500-101071-11	2233V-1-B10 (0-2)	SPLP East	Solid	6020A	304422
500-101071-12	2233V-1-B11 (0-2)	SPLP East	Solid	6020A	304422
500-101071-13	2233V-1-B12 (0-2)	SPLP East	Solid	6020A	304422
500-101071-14	2233V-1-B13 (0-2)	SPLP East	Solid	6020A	304422
500-101071-15	2233V-1-B14 (0-2)	SPLP East	Solid	6020A	304422
500-101071-16	2233V-1-B15 (0-2)	SPLP East	Solid	6020A	304422
500-101071-17	2233V-1-B16 (0-2)	SPLP East	Solid	6020A	304422
500-101071-18	2233V-1-B17 (0-2)	SPLP East	Solid	6020A	304422
LB 500-304209/1-C	Method Blank	SPLP East	Solid	6020A	304422
LCS 500-304422/2-A	Lab Control Sample	Total/NA	Solid	6020A	304422

### Prep Batch: 304551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-101071-1	2233V-1-B01 (0-2)	Total/NA	Solid	7471B	
500-101071-1 DU	2233V-1-B01 (0-2)	Total/NA	Solid	7471B	
500-101071-1 MS	2233V-1-B01 (0-2)	Total/NA	Solid	7471B	
500-101071-1 MSD	2233V-1-B01 (0-2)	Total/NA	Solid	7471B	
500-101071-2	2233V-1-B02 (0-2)	Total/NA	Solid	7471B	
500-101071-3	2233V-1-B03 (0-2)	Total/NA	Solid	7471B	
500-101071-4	2233V-1-B04 (0-2)	Total/NA	Solid	7471B	
500-101071-5	2233V-1-B05 (0-2)	Total/NA	Solid	7471B	
500-101071-6	2233V-1-B06 (0-2)	Total/NA	Solid	7471B	
500-101071-7	2233V-1-B07 (0-2)	Total/NA	Solid	7471B	
500-101071-8	2233V-1-B08 (0-2)	Total/NA	Solid	7471B	
500-101071-9	2233V-1-B09 (0-2)	Total/NA	Solid	7471B	
500-101071-10	2233V-1-B09 DUP (0-2)	Total/NA	Solid	7471B	
500-101071-11	2233V-1-B10 (0-2)	Total/NA	Solid	7471B	
500-101071-12	2233V-1-B11 (0-2)	Total/NA	Solid	7471B	
500-101071-13	2233V-1-B12 (0-2)	Total/NA	Solid	7471B	
500-101071-14	2233V-1-B13 (0-2)	Total/NA	Solid	7471B	
500-101071-15	2233V-1-B14 (0-2)	Total/NA	Solid	7471B	
500-101071-16	2233V-1-B15 (0-2)	Total/NA	Solid	7471B	
500-101071-17	2233V-1-B16 (0-2)	Total/NA	Solid	7471B	
500-101071-18	2233V-1-B17 (0-2)	Total/NA	Solid	7471B	
500-101071-19	2233V-1-B18 (0-2)	Total/NA	Solid	7471B	

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Client: Terracon Consulting Eng & Scientists  
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## Metals (Continued)

### Prep Batch: 304551 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-101071-20	2233V-1-B19 (0-2)	Total/NA	Solid	7471B	
LCS 500-304551/13-A	Lab Control Sample	Total/NA	Solid	7471B	
MB 500-304551/12-A	Method Blank	Total/NA	Solid	7471B	

### Prep Batch: 304586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-101071-19	2233V-1-B18 (0-2)	SPLP East	Solid	7470A	304407
500-101071-20	2233V-1-B19 (0-2)	SPLP East	Solid	7470A	304407
500-101071-21	2233V-1-B20 (0-2)	SPLP East	Solid	7470A	304407
500-101071-22	2233V-1-B20 DUP (0-2)	SPLP East	Solid	7470A	304407
500-101071-23	2233V-1-B21 (0-2)	SPLP East	Solid	7470A	304407
500-101071-24	2233V-1-B22 (0-2)	SPLP East	Solid	7470A	304407
500-101071-25	2233V-1-B23 (0-2)	SPLP East	Solid	7470A	304407
LB 500-304407/1-B	Method Blank	SPLP East	Solid	7470A	304407
MB 500-304586/12-A	Method Blank	Total/NA	Solid	7470A	

### Prep Batch: 304597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-101071-21	2233V-1-B20 (0-2)	Total/NA	Solid	3050B	
500-101071-22	2233V-1-B20 DUP (0-2)	Total/NA	Solid	3050B	
500-101071-23	2233V-1-B21 (0-2)	Total/NA	Solid	3050B	
500-101071-24	2233V-1-B22 (0-2)	Total/NA	Solid	3050B	
500-101071-25	2233V-1-B23 (0-2)	Total/NA	Solid	3050B	
LCS 500-304597/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 500-304597/1-A	Method Blank	Total/NA	Solid	3050B	

### Prep Batch: 304614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-101071-19	2233V-1-B18 (0-2)	SPLP East	Solid	3010A	304407
500-101071-19 DU	2233V-1-B18 (0-2)	SPLP East	Solid	3010A	304407
500-101071-19 MS	2233V-1-B18 (0-2)	SPLP East	Solid	3010A	304407
500-101071-20	2233V-1-B19 (0-2)	SPLP East	Solid	3010A	304407
500-101071-21	2233V-1-B20 (0-2)	SPLP East	Solid	3010A	304407
500-101071-22	2233V-1-B20 DUP (0-2)	SPLP East	Solid	3010A	304407
500-101071-23	2233V-1-B21 (0-2)	SPLP East	Solid	3010A	304407
500-101071-24	2233V-1-B22 (0-2)	SPLP East	Solid	3010A	304407
500-101071-25	2233V-1-B23 (0-2)	SPLP East	Solid	3010A	304407
LB 500-304407/1-C	Method Blank	SPLP East	Solid	3010A	304407
LCS 500-304614/2-A	Lab Control Sample	Total/NA	Solid	3010A	

### Analysis Batch: 304636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-101071-1	2233V-1-B01 (0-2)	Total/NA	Solid	6010B	304506
500-101071-1 DU	2233V-1-B01 (0-2)	Total/NA	Solid	6010B	304506
500-101071-1 MS	2233V-1-B01 (0-2)	Total/NA	Solid	6010B	304506
500-101071-1 MSD	2233V-1-B01 (0-2)	Total/NA	Solid	6010B	304506
500-101071-2	2233V-1-B02 (0-2)	Total/NA	Solid	6010B	304506
500-101071-3	2233V-1-B03 (0-2)	Total/NA	Solid	6010B	304506
500-101071-4	2233V-1-B04 (0-2)	Total/NA	Solid	6010B	304506
500-101071-5	2233V-1-B05 (0-2)	Total/NA	Solid	6010B	304506
500-101071-6	2233V-1-B06 (0-2)	Total/NA	Solid	6010B	304506

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# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
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TestAmerica Job ID: 500-101071-1

## Metals (Continued)

### Analysis Batch: 304636 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-101071-7	2233V-1-B07 (0-2)	Total/NA	Solid	6010B	304506
500-101071-8	2233V-1-B08 (0-2)	Total/NA	Solid	6010B	304506
500-101071-9	2233V-1-B09 (0-2)	Total/NA	Solid	6010B	304506
500-101071-10	2233V-1-B09 DUP (0-2)	Total/NA	Solid	6010B	304506
500-101071-11	2233V-1-B10 (0-2)	Total/NA	Solid	6010B	304506
500-101071-12	2233V-1-B11 (0-2)	Total/NA	Solid	6010B	304506
500-101071-13	2233V-1-B12 (0-2)	Total/NA	Solid	6010B	304506
500-101071-14	2233V-1-B13 (0-2)	Total/NA	Solid	6010B	304506
500-101071-15	2233V-1-B14 (0-2)	Total/NA	Solid	6010B	304506
500-101071-16	2233V-1-B15 (0-2)	Total/NA	Solid	6010B	304506
500-101071-17	2233V-1-B16 (0-2)	Total/NA	Solid	6010B	304506
500-101071-18	2233V-1-B17 (0-2)	Total/NA	Solid	6010B	304506
500-101071-19	2233V-1-B18 (0-2)	Total/NA	Solid	6010B	304506
500-101071-20	2233V-1-B19 (0-2)	Total/NA	Solid	6010B	304506
LCS 500-304506/2-A	Lab Control Sample	Total/NA	Solid	6010B	304506
MB 500-304506/1-A	Method Blank	Total/NA	Solid	6010B	304506

### Analysis Batch: 304648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-101071-1	2233V-1-B01 (0-2)	SPLP East	Solid	6010B	304422
500-101071-1 DU	2233V-1-B01 (0-2)	SPLP East	Solid	6010B	304422
500-101071-1 MS	2233V-1-B01 (0-2)	SPLP East	Solid	6010B	304422
500-101071-2	2233V-1-B02 (0-2)	SPLP East	Solid	6010B	304422
500-101071-3	2233V-1-B03 (0-2)	SPLP East	Solid	6010B	304422
500-101071-4	2233V-1-B04 (0-2)	SPLP East	Solid	6010B	304422
500-101071-5	2233V-1-B05 (0-2)	SPLP East	Solid	6010B	304422
500-101071-6	2233V-1-B06 (0-2)	SPLP East	Solid	6010B	304422
500-101071-7	2233V-1-B07 (0-2)	SPLP East	Solid	6010B	304422
500-101071-8	2233V-1-B08 (0-2)	SPLP East	Solid	6010B	304422
500-101071-9	2233V-1-B09 (0-2)	SPLP East	Solid	6010B	304422
500-101071-10	2233V-1-B09 DUP (0-2)	SPLP East	Solid	6010B	304422
500-101071-11	2233V-1-B10 (0-2)	SPLP East	Solid	6010B	304422
500-101071-12	2233V-1-B11 (0-2)	SPLP East	Solid	6010B	304422
500-101071-13	2233V-1-B12 (0-2)	SPLP East	Solid	6010B	304422
500-101071-14	2233V-1-B13 (0-2)	SPLP East	Solid	6010B	304422
500-101071-15	2233V-1-B14 (0-2)	SPLP East	Solid	6010B	304422
500-101071-16	2233V-1-B15 (0-2)	SPLP East	Solid	6010B	304422
500-101071-17	2233V-1-B16 (0-2)	SPLP East	Solid	6010B	304422
500-101071-18	2233V-1-B17 (0-2)	SPLP East	Solid	6010B	304422
LB 500-304209/1-C	Method Blank	SPLP East	Solid	6010B	304422
LCS 500-304422/2-A	Lab Control Sample	Total/NA	Solid	6010B	304422

### Analysis Batch: 304697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-101071-1	2233V-1-B01 (0-2)	Total/NA	Solid	7471B	304551
500-101071-1 DU	2233V-1-B01 (0-2)	Total/NA	Solid	7471B	304551
500-101071-1 MS	2233V-1-B01 (0-2)	Total/NA	Solid	7471B	304551
500-101071-1 MSD	2233V-1-B01 (0-2)	Total/NA	Solid	7471B	304551
500-101071-2	2233V-1-B02 (0-2)	Total/NA	Solid	7471B	304551
500-101071-3	2233V-1-B03 (0-2)	Total/NA	Solid	7471B	304551
500-101071-4	2233V-1-B04 (0-2)	Total/NA	Solid	7471B	304551

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Client: Terracon Consulting Eng & Scientists  
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TestAmerica Job ID: 500-101071-1

## Metals (Continued)

### Analysis Batch: 304697 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-101071-5	2233V-1-B05 (0-2)	Total/NA	Solid	7471B	304551
500-101071-6	2233V-1-B06 (0-2)	Total/NA	Solid	7471B	304551
500-101071-7	2233V-1-B07 (0-2)	Total/NA	Solid	7471B	304551
500-101071-8	2233V-1-B08 (0-2)	Total/NA	Solid	7471B	304551
500-101071-9	2233V-1-B09 (0-2)	Total/NA	Solid	7471B	304551
500-101071-10	2233V-1-B09 DUP (0-2)	Total/NA	Solid	7471B	304551
500-101071-11	2233V-1-B10 (0-2)	Total/NA	Solid	7471B	304551
500-101071-12	2233V-1-B11 (0-2)	Total/NA	Solid	7471B	304551
500-101071-13	2233V-1-B12 (0-2)	Total/NA	Solid	7471B	304551
500-101071-14	2233V-1-B13 (0-2)	Total/NA	Solid	7471B	304551
500-101071-15	2233V-1-B14 (0-2)	Total/NA	Solid	7471B	304551
500-101071-16	2233V-1-B15 (0-2)	Total/NA	Solid	7471B	304551
500-101071-17	2233V-1-B16 (0-2)	Total/NA	Solid	7471B	304551
500-101071-18	2233V-1-B17 (0-2)	Total/NA	Solid	7471B	304551
500-101071-19	2233V-1-B18 (0-2)	Total/NA	Solid	7471B	304551
500-101071-20	2233V-1-B19 (0-2)	Total/NA	Solid	7471B	304551
500-101071-21	2233V-1-B20 (0-2)	Total/NA	Solid	7471B	304521
500-101071-21 DU	2233V-1-B20 (0-2)	Total/NA	Solid	7471B	304521
500-101071-21 MS	2233V-1-B20 (0-2)	Total/NA	Solid	7471B	304521
500-101071-21 MSD	2233V-1-B20 (0-2)	Total/NA	Solid	7471B	304521
500-101071-22	2233V-1-B20 DUP (0-2)	Total/NA	Solid	7471B	304521
500-101071-23	2233V-1-B21 (0-2)	Total/NA	Solid	7471B	304521
500-101071-24	2233V-1-B22 (0-2)	Total/NA	Solid	7471B	304521
500-101071-25	2233V-1-B23 (0-2)	Total/NA	Solid	7471B	304521
LCS 500-304521/13-A	Lab Control Sample	Total/NA	Solid	7471B	304521
LCS 500-304551/13-A	Lab Control Sample	Total/NA	Solid	7471B	304551
MB 500-304521/12-A	Method Blank	Total/NA	Solid	7471B	304521
MB 500-304551/12-A	Method Blank	Total/NA	Solid	7471B	304551

### Leach Batch: 304750

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-101071-1	2233V-1-B01 (0-2)	TCLP	Solid	1311	
500-101071-1 DU	2233V-1-B01 (0-2)	TCLP	Solid	1311	
500-101071-1 MS	2233V-1-B01 (0-2)	TCLP	Solid	1311	
500-101071-2	2233V-1-B02 (0-2)	TCLP	Solid	1311	
500-101071-2 DU	2233V-1-B02 (0-2)	TCLP	Solid	1311	
500-101071-2 MS	2233V-1-B02 (0-2)	TCLP	Solid	1311	
500-101071-3	2233V-1-B03 (0-2)	TCLP	Solid	1311	
500-101071-4	2233V-1-B04 (0-2)	TCLP	Solid	1311	
500-101071-5	2233V-1-B05 (0-2)	TCLP	Solid	1311	
500-101071-6	2233V-1-B06 (0-2)	TCLP	Solid	1311	
500-101071-7	2233V-1-B07 (0-2)	TCLP	Solid	1311	
500-101071-8	2233V-1-B08 (0-2)	TCLP	Solid	1311	
500-101071-9	2233V-1-B09 (0-2)	TCLP	Solid	1311	
500-101071-10	2233V-1-B09 DUP (0-2)	TCLP	Solid	1311	
500-101071-11	2233V-1-B10 (0-2)	TCLP	Solid	1311	
500-101071-12	2233V-1-B11 (0-2)	TCLP	Solid	1311	
500-101071-13	2233V-1-B12 (0-2)	TCLP	Solid	1311	
500-101071-14	2233V-1-B13 (0-2)	TCLP	Solid	1311	
500-101071-15	2233V-1-B14 (0-2)	TCLP	Solid	1311	
500-101071-16	2233V-1-B15 (0-2)	TCLP	Solid	1311	

TestAmerica Chicago

# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

## Metals (Continued)

### Leach Batch: 304750 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-101071-17	2233V-1-B16 (0-2)	TCLP	Solid	1311	
500-101071-20	2233V-1-B19 (0-2)	TCLP	Solid	1311	
LB 500-304750/1-B	Method Blank	TCLP	Solid	1311	
LB 500-304750/1-C	Method Blank	TCLP	Solid	1311	

### Leach Batch: 304752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-101071-18	2233V-1-B17 (0-2)	TCLP	Solid	1311	
500-101071-19	2233V-1-B18 (0-2)	TCLP	Solid	1311	
LB2 500-304752/1-B	Method Blank	TCLP	Solid	1311	
LB2 500-304752/1-C	Method Blank	TCLP	Solid	1311	

### Leach Batch: 304753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-101071-21	2233V-1-B20 (0-2)	TCLP	Solid	1311	
500-101071-21 DU	2233V-1-B20 (0-2)	TCLP	Solid	1311	
500-101071-21 MS	2233V-1-B20 (0-2)	TCLP	Solid	1311	
500-101071-22	2233V-1-B20 DUP (0-2)	TCLP	Solid	1311	
500-101071-22 DU	2233V-1-B20 DUP (0-2)	TCLP	Solid	1311	
500-101071-22 MS	2233V-1-B20 DUP (0-2)	TCLP	Solid	1311	
500-101071-23	2233V-1-B21 (0-2)	TCLP	Solid	1311	
500-101071-24	2233V-1-B22 (0-2)	TCLP	Solid	1311	
500-101071-25	2233V-1-B23 (0-2)	TCLP	Solid	1311	
LB 500-304753/1-B	Method Blank	TCLP	Solid	1311	
LB 500-304753/1-C	Method Blank	TCLP	Solid	1311	

### Analysis Batch: 304825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-101071-1	2233V-1-B01 (0-2)	Total/NA	Solid	6010B	304506
500-101071-1 DU	2233V-1-B01 (0-2)	Total/NA	Solid	6010B	304506
500-101071-1 MS	2233V-1-B01 (0-2)	Total/NA	Solid	6010B	304506
500-101071-1 MSD	2233V-1-B01 (0-2)	Total/NA	Solid	6010B	304506
500-101071-2	2233V-1-B02 (0-2)	Total/NA	Solid	6010B	304506
500-101071-3	2233V-1-B03 (0-2)	Total/NA	Solid	6010B	304506
500-101071-4	2233V-1-B04 (0-2)	Total/NA	Solid	6010B	304506
500-101071-5	2233V-1-B05 (0-2)	Total/NA	Solid	6010B	304506
500-101071-6	2233V-1-B06 (0-2)	Total/NA	Solid	6010B	304506
500-101071-7	2233V-1-B07 (0-2)	Total/NA	Solid	6010B	304506
500-101071-8	2233V-1-B08 (0-2)	Total/NA	Solid	6010B	304506
500-101071-9	2233V-1-B09 (0-2)	Total/NA	Solid	6010B	304506
500-101071-10	2233V-1-B09 DUP (0-2)	Total/NA	Solid	6010B	304506
500-101071-11	2233V-1-B10 (0-2)	Total/NA	Solid	6010B	304506
500-101071-12	2233V-1-B11 (0-2)	Total/NA	Solid	6010B	304506
500-101071-13	2233V-1-B12 (0-2)	Total/NA	Solid	6010B	304506
500-101071-14	2233V-1-B13 (0-2)	Total/NA	Solid	6010B	304506
500-101071-15	2233V-1-B14 (0-2)	Total/NA	Solid	6010B	304506
500-101071-15	2233V-1-B14 (0-2)	Total/NA	Solid	6010B	304506
500-101071-16	2233V-1-B15 (0-2)	Total/NA	Solid	6010B	304506
500-101071-16	2233V-1-B15 (0-2)	Total/NA	Solid	6010B	304506
500-101071-17	2233V-1-B16 (0-2)	Total/NA	Solid	6010B	304506
500-101071-17	2233V-1-B16 (0-2)	Total/NA	Solid	6010B	304506

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# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

## Metals (Continued)

### Analysis Batch: 304825 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-101071-18	2233V-1-B17 (0-2)	Total/NA	Solid	6010B	304506
500-101071-19	2233V-1-B18 (0-2)	Total/NA	Solid	6010B	304506
500-101071-20	2233V-1-B19 (0-2)	Total/NA	Solid	6010B	304506
LCS 500-304506/2-A	Lab Control Sample	Total/NA	Solid	6010B	304506
MB 500-304506/1-A	Method Blank	Total/NA	Solid	6010B	304506

### Analysis Batch: 304829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-101071-19	2233V-1-B18 (0-2)	SPLP East	Solid	6010B	304614
500-101071-19 DU	2233V-1-B18 (0-2)	SPLP East	Solid	6010B	304614
500-101071-19 MS	2233V-1-B18 (0-2)	SPLP East	Solid	6010B	304614
500-101071-20	2233V-1-B19 (0-2)	SPLP East	Solid	6010B	304614
500-101071-21	2233V-1-B20 (0-2)	SPLP East	Solid	6010B	304614
500-101071-22	2233V-1-B20 DUP (0-2)	SPLP East	Solid	6010B	304614
500-101071-23	2233V-1-B21 (0-2)	SPLP East	Solid	6010B	304614
500-101071-24	2233V-1-B22 (0-2)	SPLP East	Solid	6010B	304614
500-101071-25	2233V-1-B23 (0-2)	SPLP East	Solid	6010B	304614
LB 500-304407/1-C	Method Blank	SPLP East	Solid	6010B	304614
LCS 500-304614/2-A	Lab Control Sample	Total/NA	Solid	6010B	304614

### Analysis Batch: 304831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-101071-21	2233V-1-B20 (0-2)	Total/NA	Solid	6010B	304597
500-101071-22	2233V-1-B20 DUP (0-2)	Total/NA	Solid	6010B	304597
500-101071-23	2233V-1-B21 (0-2)	Total/NA	Solid	6010B	304597
500-101071-24	2233V-1-B22 (0-2)	Total/NA	Solid	6010B	304597
500-101071-25	2233V-1-B23 (0-2)	Total/NA	Solid	6010B	304597
LCS 500-304597/2-A	Lab Control Sample	Total/NA	Solid	6010B	304597
MB 500-304597/1-A	Method Blank	Total/NA	Solid	6010B	304597

### Analysis Batch: 304834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-101071-19	2233V-1-B18 (0-2)	SPLP East	Solid	7470A	304586
500-101071-20	2233V-1-B19 (0-2)	SPLP East	Solid	7470A	304586
500-101071-21	2233V-1-B20 (0-2)	SPLP East	Solid	7470A	304586
500-101071-22	2233V-1-B20 DUP (0-2)	SPLP East	Solid	7470A	304586
500-101071-23	2233V-1-B21 (0-2)	SPLP East	Solid	7470A	304586
500-101071-24	2233V-1-B22 (0-2)	SPLP East	Solid	7470A	304586
500-101071-25	2233V-1-B23 (0-2)	SPLP East	Solid	7470A	304586
LB 500-304407/1-B	Method Blank	SPLP East	Solid	7470A	304586
MB 500-304586/12-A	Method Blank	Total/NA	Solid	7470A	304586

### Analysis Batch: 304865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-101071-19	2233V-1-B18 (0-2)	SPLP East	Solid	6020A	304614
500-101071-19 DU	2233V-1-B18 (0-2)	SPLP East	Solid	6020A	304614
500-101071-19 MS	2233V-1-B18 (0-2)	SPLP East	Solid	6020A	304614
500-101071-20	2233V-1-B19 (0-2)	SPLP East	Solid	6020A	304614
500-101071-21	2233V-1-B20 (0-2)	SPLP East	Solid	6020A	304614
500-101071-22	2233V-1-B20 DUP (0-2)	SPLP East	Solid	6020A	304614
500-101071-23	2233V-1-B21 (0-2)	SPLP East	Solid	6020A	304614

TestAmerica Chicago

# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

## Metals (Continued)

### Analysis Batch: 304865 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-101071-24	2233V-1-B22 (0-2)	SPLP East	Solid	6020A	304614
500-101071-25	2233V-1-B23 (0-2)	SPLP East	Solid	6020A	304614
LB 500-304407/1-C	Method Blank	SPLP East	Solid	6020A	304614
LCS 500-304614/2-A	Lab Control Sample	Total/NA	Solid	6020A	304614

### Prep Batch: 304898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-101071-1	2233V-1-B01 (0-2)	TCLP	Solid	3010A	304750
500-101071-1 DU	2233V-1-B01 (0-2)	TCLP	Solid	3010A	304750
500-101071-1 MS	2233V-1-B01 (0-2)	TCLP	Solid	3010A	304750
500-101071-2	2233V-1-B02 (0-2)	TCLP	Solid	3010A	304750
500-101071-3	2233V-1-B03 (0-2)	TCLP	Solid	3010A	304750
500-101071-4	2233V-1-B04 (0-2)	TCLP	Solid	3010A	304750
500-101071-5	2233V-1-B05 (0-2)	TCLP	Solid	3010A	304750
500-101071-6	2233V-1-B06 (0-2)	TCLP	Solid	3010A	304750
500-101071-7	2233V-1-B07 (0-2)	TCLP	Solid	3010A	304750
500-101071-8	2233V-1-B08 (0-2)	TCLP	Solid	3010A	304750
500-101071-9	2233V-1-B09 (0-2)	TCLP	Solid	3010A	304750
500-101071-10	2233V-1-B09 DUP (0-2)	TCLP	Solid	3010A	304750
500-101071-11	2233V-1-B10 (0-2)	TCLP	Solid	3010A	304750
500-101071-12	2233V-1-B11 (0-2)	TCLP	Solid	3010A	304750
500-101071-13	2233V-1-B12 (0-2)	TCLP	Solid	3010A	304750
500-101071-14	2233V-1-B13 (0-2)	TCLP	Solid	3010A	304750
500-101071-15	2233V-1-B14 (0-2)	TCLP	Solid	3010A	304750
500-101071-16	2233V-1-B15 (0-2)	TCLP	Solid	3010A	304750
500-101071-17	2233V-1-B16 (0-2)	TCLP	Solid	3010A	304750
500-101071-18	2233V-1-B17 (0-2)	TCLP	Solid	3010A	304752
500-101071-19	2233V-1-B18 (0-2)	TCLP	Solid	3010A	304752
500-101071-20	2233V-1-B19 (0-2)	TCLP	Solid	3010A	304750
LB 500-304750/1-B	Method Blank	TCLP	Solid	3010A	304750
LB2 500-304752/1-B	Method Blank	TCLP	Solid	3010A	304752
LCS 500-304898/3-A	Lab Control Sample	Total/NA	Solid	3010A	

### Prep Batch: 304900

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-101071-21	2233V-1-B20 (0-2)	TCLP	Solid	3010A	304753
500-101071-21 DU	2233V-1-B20 (0-2)	TCLP	Solid	3010A	304753
500-101071-21 MS	2233V-1-B20 (0-2)	TCLP	Solid	3010A	304753
500-101071-22	2233V-1-B20 DUP (0-2)	TCLP	Solid	3010A	304753
500-101071-23	2233V-1-B21 (0-2)	TCLP	Solid	3010A	304753
500-101071-24	2233V-1-B22 (0-2)	TCLP	Solid	3010A	304753
500-101071-25	2233V-1-B23 (0-2)	TCLP	Solid	3010A	304753
LB 500-304753/1-B	Method Blank	TCLP	Solid	3010A	304753
LCS 500-304900/2-A	Lab Control Sample	Total/NA	Solid	3010A	

### Analysis Batch: 304924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-101071-23	2233V-1-B21 (0-2)	Total/NA	Solid	6010B	304597

# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

## Metals (Continued)

### Prep Batch: 304941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-101071-1	2233V-1-B01 (0-2)	TCLP	Solid	7470A	304750
500-101071-2	2233V-1-B02 (0-2)	TCLP	Solid	7470A	304750
500-101071-2 DU	2233V-1-B02 (0-2)	TCLP	Solid	7470A	304750
500-101071-2 MS	2233V-1-B02 (0-2)	TCLP	Solid	7470A	304750
500-101071-3	2233V-1-B03 (0-2)	TCLP	Solid	7470A	304750
500-101071-4	2233V-1-B04 (0-2)	TCLP	Solid	7470A	304750
500-101071-5	2233V-1-B05 (0-2)	TCLP	Solid	7470A	304750
500-101071-6	2233V-1-B06 (0-2)	TCLP	Solid	7470A	304750
500-101071-7	2233V-1-B07 (0-2)	TCLP	Solid	7470A	304750
500-101071-8	2233V-1-B08 (0-2)	TCLP	Solid	7470A	304750
500-101071-9	2233V-1-B09 (0-2)	TCLP	Solid	7470A	304750
500-101071-10	2233V-1-B09 DUP (0-2)	TCLP	Solid	7470A	304750
500-101071-11	2233V-1-B10 (0-2)	TCLP	Solid	7470A	304750
500-101071-12	2233V-1-B11 (0-2)	TCLP	Solid	7470A	304750
500-101071-13	2233V-1-B12 (0-2)	TCLP	Solid	7470A	304750
500-101071-14	2233V-1-B13 (0-2)	TCLP	Solid	7470A	304750
500-101071-15	2233V-1-B14 (0-2)	TCLP	Solid	7470A	304750
500-101071-16	2233V-1-B15 (0-2)	TCLP	Solid	7470A	304750
500-101071-17	2233V-1-B16 (0-2)	TCLP	Solid	7470A	304750
500-101071-18	2233V-1-B17 (0-2)	TCLP	Solid	7470A	304752
500-101071-19	2233V-1-B18 (0-2)	TCLP	Solid	7470A	304752
500-101071-20	2233V-1-B19 (0-2)	TCLP	Solid	7470A	304750
LB 500-304750/1-C	Method Blank	TCLP	Solid	7470A	304750
LB2 500-304752/1-C	Method Blank	TCLP	Solid	7470A	304752
LCS 500-304941/13-A	Lab Control Sample	Total/NA	Solid	7470A	
MB 500-304941/12-A	Method Blank	Total/NA	Solid	7470A	

### Prep Batch: 304944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-101071-21	2233V-1-B20 (0-2)	TCLP	Solid	7470A	304753
500-101071-22	2233V-1-B20 DUP (0-2)	TCLP	Solid	7470A	304753
500-101071-22 DU	2233V-1-B20 DUP (0-2)	TCLP	Solid	7470A	304753
500-101071-22 MS	2233V-1-B20 DUP (0-2)	TCLP	Solid	7470A	304753
500-101071-23	2233V-1-B21 (0-2)	TCLP	Solid	7470A	304753
500-101071-24	2233V-1-B22 (0-2)	TCLP	Solid	7470A	304753
500-101071-25	2233V-1-B23 (0-2)	TCLP	Solid	7470A	304753
LB 500-304753/1-C	Method Blank	TCLP	Solid	7470A	304753
LCS 500-304944/13-A	Lab Control Sample	Total/NA	Solid	7470A	
MB 500-304944/12-A	Method Blank	Total/NA	Solid	7470A	

### Analysis Batch: 304995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-101071-1	2233V-1-B01 (0-2)	TCLP	Solid	6010B	304898
500-101071-1 DU	2233V-1-B01 (0-2)	TCLP	Solid	6010B	304898
500-101071-1 MS	2233V-1-B01 (0-2)	TCLP	Solid	6010B	304898
500-101071-2	2233V-1-B02 (0-2)	TCLP	Solid	6010B	304898
500-101071-3	2233V-1-B03 (0-2)	TCLP	Solid	6010B	304898
500-101071-4	2233V-1-B04 (0-2)	TCLP	Solid	6010B	304898
500-101071-5	2233V-1-B05 (0-2)	TCLP	Solid	6010B	304898
500-101071-6	2233V-1-B06 (0-2)	TCLP	Solid	6010B	304898
500-101071-7	2233V-1-B07 (0-2)	TCLP	Solid	6010B	304898

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# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

## Metals (Continued)

### Analysis Batch: 304995 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-101071-8	2233V-1-B08 (0-2)	TCLP	Solid	6010B	304898
500-101071-9	2233V-1-B09 (0-2)	TCLP	Solid	6010B	304898
500-101071-10	2233V-1-B09 DUP (0-2)	TCLP	Solid	6010B	304898
500-101071-11	2233V-1-B10 (0-2)	TCLP	Solid	6010B	304898
500-101071-12	2233V-1-B11 (0-2)	TCLP	Solid	6010B	304898
500-101071-13	2233V-1-B12 (0-2)	TCLP	Solid	6010B	304898
500-101071-14	2233V-1-B13 (0-2)	TCLP	Solid	6010B	304898
500-101071-15	2233V-1-B14 (0-2)	TCLP	Solid	6010B	304898
500-101071-16	2233V-1-B15 (0-2)	TCLP	Solid	6010B	304898
500-101071-17	2233V-1-B16 (0-2)	TCLP	Solid	6010B	304898
500-101071-18	2233V-1-B17 (0-2)	TCLP	Solid	6010B	304898
500-101071-19	2233V-1-B18 (0-2)	SPLP East	Solid	6010B	304614
500-101071-19	2233V-1-B18 (0-2)	TCLP	Solid	6010B	304898
500-101071-19 DU	2233V-1-B18 (0-2)	SPLP East	Solid	6010B	304614
500-101071-19 MS	2233V-1-B18 (0-2)	SPLP East	Solid	6010B	304614
500-101071-20	2233V-1-B19 (0-2)	SPLP East	Solid	6010B	304614
500-101071-20	2233V-1-B19 (0-2)	TCLP	Solid	6010B	304898
500-101071-21	2233V-1-B20 (0-2)	SPLP East	Solid	6010B	304614
500-101071-21	2233V-1-B20 (0-2)	TCLP	Solid	6010B	304900
500-101071-21 DU	2233V-1-B20 (0-2)	TCLP	Solid	6010B	304900
500-101071-21 MS	2233V-1-B20 (0-2)	TCLP	Solid	6010B	304900
500-101071-22	2233V-1-B20 DUP (0-2)	SPLP East	Solid	6010B	304614
500-101071-22	2233V-1-B20 DUP (0-2)	TCLP	Solid	6010B	304900
500-101071-23	2233V-1-B21 (0-2)	SPLP East	Solid	6010B	304614
500-101071-23	2233V-1-B21 (0-2)	TCLP	Solid	6010B	304900
500-101071-24	2233V-1-B22 (0-2)	SPLP East	Solid	6010B	304614
500-101071-24	2233V-1-B22 (0-2)	TCLP	Solid	6010B	304900
500-101071-25	2233V-1-B23 (0-2)	SPLP East	Solid	6010B	304614
500-101071-25	2233V-1-B23 (0-2)	TCLP	Solid	6010B	304900
LB 500-304407/1-C	Method Blank	SPLP East	Solid	6010B	304614
LB 500-304750/1-B	Method Blank	TCLP	Solid	6010B	304898
LB 500-304753/1-B	Method Blank	TCLP	Solid	6010B	304900
LB2 500-304752/1-B	Method Blank	TCLP	Solid	6010B	304898
LCS 500-304614/2-A	Lab Control Sample	Total/NA	Solid	6010B	304614
LCS 500-304898/3-A	Lab Control Sample	Total/NA	Solid	6010B	304898
LCS 500-304900/2-A	Lab Control Sample	Total/NA	Solid	6010B	304900

### Analysis Batch: 304998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-101071-18	2233V-1-B17 (0-2)	TCLP	Solid	6010B	304898

### Analysis Batch: 305093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-101071-1	2233V-1-B01 (0-2)	TCLP	Solid	6020A	304898
500-101071-1 DU	2233V-1-B01 (0-2)	TCLP	Solid	6020A	304898
500-101071-1 MS	2233V-1-B01 (0-2)	TCLP	Solid	6020A	304898
500-101071-2	2233V-1-B02 (0-2)	TCLP	Solid	6020A	304898
500-101071-3	2233V-1-B03 (0-2)	TCLP	Solid	6020A	304898
500-101071-4	2233V-1-B04 (0-2)	TCLP	Solid	6020A	304898
500-101071-5	2233V-1-B05 (0-2)	TCLP	Solid	6020A	304898
500-101071-6	2233V-1-B06 (0-2)	TCLP	Solid	6020A	304898

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# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
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TestAmerica Job ID: 500-101071-1

## Metals (Continued)

### Analysis Batch: 305093 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-101071-7	2233V-1-B07 (0-2)	TCLP	Solid	6020A	304898
500-101071-8	2233V-1-B08 (0-2)	TCLP	Solid	6020A	304898
500-101071-9	2233V-1-B09 (0-2)	TCLP	Solid	6020A	304898
500-101071-10	2233V-1-B09 DUP (0-2)	TCLP	Solid	6020A	304898
500-101071-11	2233V-1-B10 (0-2)	TCLP	Solid	6020A	304898
500-101071-12	2233V-1-B11 (0-2)	TCLP	Solid	6020A	304898
500-101071-13	2233V-1-B12 (0-2)	TCLP	Solid	6020A	304898
500-101071-14	2233V-1-B13 (0-2)	TCLP	Solid	6020A	304898
500-101071-15	2233V-1-B14 (0-2)	TCLP	Solid	6020A	304898
500-101071-16	2233V-1-B15 (0-2)	TCLP	Solid	6020A	304898
500-101071-17	2233V-1-B16 (0-2)	TCLP	Solid	6020A	304898
500-101071-18	2233V-1-B17 (0-2)	TCLP	Solid	6020A	304898
500-101071-19	2233V-1-B18 (0-2)	TCLP	Solid	6020A	304898
500-101071-20	2233V-1-B19 (0-2)	TCLP	Solid	6020A	304898
500-101071-21	2233V-1-B20 (0-2)	TCLP	Solid	6020A	304900
500-101071-21 DU	2233V-1-B20 (0-2)	TCLP	Solid	6020A	304900
500-101071-21 MS	2233V-1-B20 (0-2)	TCLP	Solid	6020A	304900
500-101071-22	2233V-1-B20 DUP (0-2)	TCLP	Solid	6020A	304900
500-101071-23	2233V-1-B21 (0-2)	TCLP	Solid	6020A	304900
500-101071-24	2233V-1-B22 (0-2)	TCLP	Solid	6020A	304900
500-101071-25	2233V-1-B23 (0-2)	TCLP	Solid	6020A	304900
LB 500-304750/1-B	Method Blank	TCLP	Solid	6020A	304898
LB 500-304753/1-B	Method Blank	TCLP	Solid	6020A	304900
LB2 500-304752/1-B	Method Blank	TCLP	Solid	6020A	304898
LCS 500-304900/2-A	Lab Control Sample	Total/NA	Solid	6020A	304900

### Analysis Batch: 305112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-304898/3-A	Lab Control Sample	Total/NA	Solid	6020A	304898

### Analysis Batch: 305121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-101071-1	2233V-1-B01 (0-2)	TCLP	Solid	7470A	304941
500-101071-2	2233V-1-B02 (0-2)	TCLP	Solid	7470A	304941
500-101071-2 DU	2233V-1-B02 (0-2)	TCLP	Solid	7470A	304941
500-101071-2 MS	2233V-1-B02 (0-2)	TCLP	Solid	7470A	304941
500-101071-3	2233V-1-B03 (0-2)	TCLP	Solid	7470A	304941
500-101071-4	2233V-1-B04 (0-2)	TCLP	Solid	7470A	304941
500-101071-5	2233V-1-B05 (0-2)	TCLP	Solid	7470A	304941
500-101071-6	2233V-1-B06 (0-2)	TCLP	Solid	7470A	304941
500-101071-7	2233V-1-B07 (0-2)	TCLP	Solid	7470A	304941
500-101071-8	2233V-1-B08 (0-2)	TCLP	Solid	7470A	304941
500-101071-9	2233V-1-B09 (0-2)	TCLP	Solid	7470A	304941
500-101071-10	2233V-1-B09 DUP (0-2)	TCLP	Solid	7470A	304941
500-101071-11	2233V-1-B10 (0-2)	TCLP	Solid	7470A	304941
500-101071-12	2233V-1-B11 (0-2)	TCLP	Solid	7470A	304941
500-101071-13	2233V-1-B12 (0-2)	TCLP	Solid	7470A	304941
500-101071-14	2233V-1-B13 (0-2)	TCLP	Solid	7470A	304941
500-101071-15	2233V-1-B14 (0-2)	TCLP	Solid	7470A	304941
500-101071-16	2233V-1-B15 (0-2)	TCLP	Solid	7470A	304941
500-101071-17	2233V-1-B16 (0-2)	TCLP	Solid	7470A	304941

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# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
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TestAmerica Job ID: 500-101071-1

## Metals (Continued)

### Analysis Batch: 305121 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-101071-18	2233V-1-B17 (0-2)	TCLP	Solid	7470A	304941
500-101071-19	2233V-1-B18 (0-2)	TCLP	Solid	7470A	304941
500-101071-20	2233V-1-B19 (0-2)	TCLP	Solid	7470A	304941
500-101071-21	2233V-1-B20 (0-2)	TCLP	Solid	7470A	304944
500-101071-22	2233V-1-B20 DUP (0-2)	TCLP	Solid	7470A	304944
500-101071-22 DU	2233V-1-B20 DUP (0-2)	TCLP	Solid	7470A	304944
500-101071-22 MS	2233V-1-B20 DUP (0-2)	TCLP	Solid	7470A	304944
500-101071-23	2233V-1-B21 (0-2)	TCLP	Solid	7470A	304944
500-101071-24	2233V-1-B22 (0-2)	TCLP	Solid	7470A	304944
500-101071-25	2233V-1-B23 (0-2)	TCLP	Solid	7470A	304944
LB 500-304750/1-C	Method Blank	TCLP	Solid	7470A	304941
LB 500-304753/1-C	Method Blank	TCLP	Solid	7470A	304944
LB2 500-304752/1-C	Method Blank	TCLP	Solid	7470A	304941
LCS 500-304941/13-A	Lab Control Sample	Total/NA	Solid	7470A	304941
LCS 500-304944/13-A	Lab Control Sample	Total/NA	Solid	7470A	304944
MB 500-304941/12-A	Method Blank	Total/NA	Solid	7470A	304941
MB 500-304944/12-A	Method Blank	Total/NA	Solid	7470A	304944

## General Chemistry

### Analysis Batch: 303956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-101071-1	2233V-1-B01 (0-2)	Total/NA	Solid	Moisture	
500-101071-1 DU	2233V-1-B01 (0-2)	Total/NA	Solid	Moisture	
500-101071-2	2233V-1-B02 (0-2)	Total/NA	Solid	Moisture	
500-101071-3	2233V-1-B03 (0-2)	Total/NA	Solid	Moisture	
500-101071-4	2233V-1-B04 (0-2)	Total/NA	Solid	Moisture	
500-101071-5	2233V-1-B05 (0-2)	Total/NA	Solid	Moisture	
500-101071-6	2233V-1-B06 (0-2)	Total/NA	Solid	Moisture	
500-101071-7	2233V-1-B07 (0-2)	Total/NA	Solid	Moisture	
500-101071-8	2233V-1-B08 (0-2)	Total/NA	Solid	Moisture	
500-101071-9	2233V-1-B09 (0-2)	Total/NA	Solid	Moisture	
500-101071-10	2233V-1-B09 DUP (0-2)	Total/NA	Solid	Moisture	
500-101071-11	2233V-1-B10 (0-2)	Total/NA	Solid	Moisture	
500-101071-12	2233V-1-B11 (0-2)	Total/NA	Solid	Moisture	
500-101071-13	2233V-1-B12 (0-2)	Total/NA	Solid	Moisture	
500-101071-14	2233V-1-B13 (0-2)	Total/NA	Solid	Moisture	
500-101071-15	2233V-1-B14 (0-2)	Total/NA	Solid	Moisture	
500-101071-16	2233V-1-B15 (0-2)	Total/NA	Solid	Moisture	
500-101071-17	2233V-1-B16 (0-2)	Total/NA	Solid	Moisture	
500-101071-18	2233V-1-B17 (0-2)	Total/NA	Solid	Moisture	
500-101071-19	2233V-1-B18 (0-2)	Total/NA	Solid	Moisture	
500-101071-20	2233V-1-B19 (0-2)	Total/NA	Solid	Moisture	

### Analysis Batch: 303958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-101071-21	2233V-1-B20 (0-2)	Total/NA	Solid	Moisture	
500-101071-21 DU	2233V-1-B20 (0-2)	Total/NA	Solid	Moisture	
500-101071-22	2233V-1-B20 DUP (0-2)	Total/NA	Solid	Moisture	
500-101071-23	2233V-1-B21 (0-2)	Total/NA	Solid	Moisture	

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# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
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TestAmerica Job ID: 500-101071-1

## General Chemistry (Continued)

### Analysis Batch: 303958 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-101071-24	2233V-1-B22 (0-2)	Total/NA	Solid	Moisture	
500-101071-25	2233V-1-B23 (0-2)	Total/NA	Solid	Moisture	

### Analysis Batch: 304199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-101071-1	2233V-1-B01 (0-2)	Total/NA	Solid	9045D	
500-101071-2	2233V-1-B02 (0-2)	Total/NA	Solid	9045D	
500-101071-3	2233V-1-B03 (0-2)	Total/NA	Solid	9045D	
500-101071-4	2233V-1-B04 (0-2)	Total/NA	Solid	9045D	
500-101071-5	2233V-1-B05 (0-2)	Total/NA	Solid	9045D	
500-101071-6	2233V-1-B06 (0-2)	Total/NA	Solid	9045D	
500-101071-7	2233V-1-B07 (0-2)	Total/NA	Solid	9045D	
500-101071-7 DU	2233V-1-B07 (0-2)	Total/NA	Solid	9045D	
500-101071-8	2233V-1-B08 (0-2)	Total/NA	Solid	9045D	
500-101071-9	2233V-1-B09 (0-2)	Total/NA	Solid	9045D	
500-101071-10	2233V-1-B09 DUP (0-2)	Total/NA	Solid	9045D	
500-101071-11	2233V-1-B10 (0-2)	Total/NA	Solid	9045D	
500-101071-12	2233V-1-B11 (0-2)	Total/NA	Solid	9045D	
500-101071-13	2233V-1-B12 (0-2)	Total/NA	Solid	9045D	
500-101071-14	2233V-1-B13 (0-2)	Total/NA	Solid	9045D	

### Prep Batch: 304375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-101071-1	2233V-1-B01 (0-2)	Total/NA	Solid	9010B	
LCS 500-304375/2-A	Lab Control Sample	Total/NA	Solid	9010B	
MB 500-304375/1-A	Method Blank	Total/NA	Solid	9010B	

### Analysis Batch: 304380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-101071-15	2233V-1-B14 (0-2)	Total/NA	Solid	9045D	
500-101071-15 DU	2233V-1-B14 (0-2)	Total/NA	Solid	9045D	
500-101071-16	2233V-1-B15 (0-2)	Total/NA	Solid	9045D	
500-101071-17	2233V-1-B16 (0-2)	Total/NA	Solid	9045D	
500-101071-18	2233V-1-B17 (0-2)	Total/NA	Solid	9045D	
500-101071-19	2233V-1-B18 (0-2)	Total/NA	Solid	9045D	
500-101071-20	2233V-1-B19 (0-2)	Total/NA	Solid	9045D	
500-101071-21	2233V-1-B20 (0-2)	Total/NA	Solid	9045D	
500-101071-22	2233V-1-B20 DUP (0-2)	Total/NA	Solid	9045D	
500-101071-23	2233V-1-B21 (0-2)	Total/NA	Solid	9045D	
500-101071-24	2233V-1-B22 (0-2)	Total/NA	Solid	9045D	
500-101071-25	2233V-1-B23 (0-2)	Total/NA	Solid	9045D	

### Analysis Batch: 304433

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-101071-1	2233V-1-B01 (0-2)	Total/NA	Solid	9014	304375
LCS 500-304375/2-A	Lab Control Sample	Total/NA	Solid	9014	304375
MB 500-304375/1-A	Method Blank	Total/NA	Solid	9014	304375

### Prep Batch: 304543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-101071-2	2233V-1-B02 (0-2)	Total/NA	Solid	9010B	

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Client: Terracon Consulting Eng & Scientists  
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TestAmerica Job ID: 500-101071-1

## General Chemistry (Continued)

### Prep Batch: 304543 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-101071-2 MS	2233V-1-B02 (0-2)	Total/NA	Solid	9010B	
500-101071-2 MSD	2233V-1-B02 (0-2)	Total/NA	Solid	9010B	
500-101071-3	2233V-1-B03 (0-2)	Total/NA	Solid	9010B	
500-101071-4	2233V-1-B04 (0-2)	Total/NA	Solid	9010B	
500-101071-5	2233V-1-B05 (0-2)	Total/NA	Solid	9010B	
500-101071-6	2233V-1-B06 (0-2)	Total/NA	Solid	9010B	
500-101071-7	2233V-1-B07 (0-2)	Total/NA	Solid	9010B	
500-101071-8	2233V-1-B08 (0-2)	Total/NA	Solid	9010B	
500-101071-9	2233V-1-B09 (0-2)	Total/NA	Solid	9010B	
500-101071-10	2233V-1-B09 DUP (0-2)	Total/NA	Solid	9010B	
500-101071-11	2233V-1-B10 (0-2)	Total/NA	Solid	9010B	
500-101071-12	2233V-1-B11 (0-2)	Total/NA	Solid	9010B	
500-101071-13	2233V-1-B12 (0-2)	Total/NA	Solid	9010B	
500-101071-14	2233V-1-B13 (0-2)	Total/NA	Solid	9010B	
500-101071-15	2233V-1-B14 (0-2)	Total/NA	Solid	9010B	
500-101071-16	2233V-1-B15 (0-2)	Total/NA	Solid	9010B	
500-101071-17	2233V-1-B16 (0-2)	Total/NA	Solid	9010B	
500-101071-18	2233V-1-B17 (0-2)	Total/NA	Solid	9010B	
500-101071-19	2233V-1-B18 (0-2)	Total/NA	Solid	9010B	
LCS 500-304543/2-A	Lab Control Sample	Total/NA	Solid	9010B	
MB 500-304543/1-A	Method Blank	Total/NA	Solid	9010B	

### Prep Batch: 304558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-101071-20	2233V-1-B19 (0-2)	Total/NA	Solid	9010B	
500-101071-20 MS	2233V-1-B19 (0-2)	Total/NA	Solid	9010B	
500-101071-20 MSD	2233V-1-B19 (0-2)	Total/NA	Solid	9010B	
500-101071-21	2233V-1-B20 (0-2)	Total/NA	Solid	9010B	
500-101071-22	2233V-1-B20 DUP (0-2)	Total/NA	Solid	9010B	
500-101071-23	2233V-1-B21 (0-2)	Total/NA	Solid	9010B	
500-101071-24	2233V-1-B22 (0-2)	Total/NA	Solid	9010B	
500-101071-25	2233V-1-B23 (0-2)	Total/NA	Solid	9010B	
LCS 500-304558/2-A	Lab Control Sample	Total/NA	Solid	9010B	
MB 500-304558/1-A	Method Blank	Total/NA	Solid	9010B	

### Analysis Batch: 304577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-101071-2	2233V-1-B02 (0-2)	Total/NA	Solid	9014	304543
500-101071-2 MS	2233V-1-B02 (0-2)	Total/NA	Solid	9014	304543
500-101071-2 MSD	2233V-1-B02 (0-2)	Total/NA	Solid	9014	304543
500-101071-3	2233V-1-B03 (0-2)	Total/NA	Solid	9014	304543
500-101071-4	2233V-1-B04 (0-2)	Total/NA	Solid	9014	304543
500-101071-5	2233V-1-B05 (0-2)	Total/NA	Solid	9014	304543
500-101071-6	2233V-1-B06 (0-2)	Total/NA	Solid	9014	304543
500-101071-7	2233V-1-B07 (0-2)	Total/NA	Solid	9014	304543
500-101071-8	2233V-1-B08 (0-2)	Total/NA	Solid	9014	304543
500-101071-9	2233V-1-B09 (0-2)	Total/NA	Solid	9014	304543
500-101071-10	2233V-1-B09 DUP (0-2)	Total/NA	Solid	9014	304543
500-101071-11	2233V-1-B10 (0-2)	Total/NA	Solid	9014	304543
500-101071-12	2233V-1-B11 (0-2)	Total/NA	Solid	9014	304543
500-101071-13	2233V-1-B12 (0-2)	Total/NA	Solid	9014	304543

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# QC Association Summary

Client: Terracon Consulting Eng & Scientists  
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TestAmerica Job ID: 500-101071-1

## General Chemistry (Continued)

### Analysis Batch: 304577 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-101071-14	2233V-1-B13 (0-2)	Total/NA	Solid	9014	304543
500-101071-15	2233V-1-B14 (0-2)	Total/NA	Solid	9014	304543
500-101071-16	2233V-1-B15 (0-2)	Total/NA	Solid	9014	304543
500-101071-17	2233V-1-B16 (0-2)	Total/NA	Solid	9014	304543
500-101071-18	2233V-1-B17 (0-2)	Total/NA	Solid	9014	304543
500-101071-19	2233V-1-B18 (0-2)	Total/NA	Solid	9014	304543
LCS 500-304543/2-A	Lab Control Sample	Total/NA	Solid	9014	304543
MB 500-304543/1-A	Method Blank	Total/NA	Solid	9014	304543

### Analysis Batch: 304603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-101071-20	2233V-1-B19 (0-2)	Total/NA	Solid	9014	304558
500-101071-20 MS	2233V-1-B19 (0-2)	Total/NA	Solid	9014	304558
500-101071-20 MSD	2233V-1-B19 (0-2)	Total/NA	Solid	9014	304558
500-101071-21	2233V-1-B20 (0-2)	Total/NA	Solid	9014	304558
500-101071-22	2233V-1-B20 DUP (0-2)	Total/NA	Solid	9014	304558
500-101071-23	2233V-1-B21 (0-2)	Total/NA	Solid	9014	304558
500-101071-24	2233V-1-B22 (0-2)	Total/NA	Solid	9014	304558
500-101071-25	2233V-1-B23 (0-2)	Total/NA	Solid	9014	304558
LCS 500-304558/2-A	Lab Control Sample	Total/NA	Solid	9014	304558
MB 500-304558/1-A	Method Blank	Total/NA	Solid	9014	304558

# Surrogate Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

## 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 (70-122)	DBFM (75-120)	12DCE (70-134)	TOL (75-122)
500-101071-1	2233V-1-B01 (0-2)	102	100	121	111
500-101071-2	2233V-1-B02 (0-2)	107	102	121	114
500-101071-3	2233V-1-B03 (0-2)	112	107	125	116
500-101071-4	2233V-1-B04 (0-2)	102	103	123	112
500-101071-5	2233V-1-B05 (0-2)	109	99	131	114
500-101071-6	2233V-1-B06 (0-2)	103	106	123	112
500-101071-7	2233V-1-B07 (0-2)	106	103	123	114
500-101071-8	2233V-1-B08 (0-2)	101	103	129	110
500-101071-9	2233V-1-B09 (0-2)	107	106	128	111
500-101071-10	2233V-1-B09 DUP (0-2)	105	102	129	116
500-101071-11	2233V-1-B10 (0-2)	105	104	125	109
500-101071-12	2233V-1-B11 (0-2)	108	105	121	116
500-101071-13	2233V-1-B12 (0-2)	100	105	127	110
500-101071-14	2233V-1-B13 (0-2)	107	103	127	112
500-101071-15	2233V-1-B14 (0-2)	99	105	123	114
500-101071-16	2233V-1-B15 (0-2)	107	104	125	110
500-101071-17	2233V-1-B16 (0-2)	103	100	118	112
500-101071-18	2233V-1-B17 (0-2)	104	104	127	111
500-101071-19	2233V-1-B18 (0-2)	105	101	119	114
500-101071-20	2233V-1-B19 (0-2)	101	104	123	116
500-101071-21	2233V-1-B20 (0-2)	106	102	126	114
500-101071-22	2233V-1-B20 DUP (0-2)	104	105	125	111
500-101071-23	2233V-1-B21 (0-2)	106	105	117	114
500-101071-24	2233V-1-B22 (0-2)	103	105	128	113
500-101071-25	2233V-1-B23 (0-2)	106	103	133	115
LCS 500-304054/5	Lab Control Sample	110	105	119	116
LCS 500-304173/4	Lab Control Sample	110	103	118	118
LCSD 500-304054/6	Lab Control Sample Dup	112	102	113	121
LCSD 500-304173/5	Lab Control Sample Dup	116	99	122	117
MB 500-304054/7	Method Blank	109	104	122	116
MB 500-304173/6	Method Blank	103	100	119	115

### Surrogate Legend

- BFB = 4-Bromofluorobenzene (Surr)
- DBFM = Dibromofluoromethane
- 12DCE = 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 (25-119)	2FP (25-110)	NBZ (25-115)	PHL (31-110)	TPH (36-134)	TBP (35-137)
500-101071-1	2233V-1-B01 (0-2)	89	85	98	90	102	77
500-101071-1 MS	2233V-1-B01 (0-2)	87	84	96	86	172 X	96
500-101071-1 MSD	2233V-1-B01 (0-2)	89	86	98	89	179 X	102
500-101071-2	2233V-1-B02 (0-2)	88	89	103	94	101	100
500-101071-3	2233V-1-B03 (0-2)	89	82	99	87	98	88

TestAmerica Chicago

# Surrogate Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (25-119)	2FP (25-110)	NBZ (25-115)	PHL (31-110)	TPH (36-134)	TBP (35-137)
500-101071-4	2233V-1-B04 (0-2)	102	49	99	97	113	53
500-101071-5	2233V-1-B05 (0-2)	81	80	92	84	150 X	64
500-101071-6	2233V-1-B06 (0-2)	98	61	95	99	114	55
500-101071-7	2233V-1-B07 (0-2)	87	82	96	88	102	96
500-101071-8	2233V-1-B08 (0-2)	89	84	97	90	98	97
500-101071-9	2233V-1-B09 (0-2)	91	85	91	89	106	90
500-101071-10	2233V-1-B09 DUP (0-2)	92	90	102	96	110	81
500-101071-11	2233V-1-B10 (0-2)	89	87	97	85	101	88
500-101071-12	2233V-1-B11 (0-2)	91	49	92	85	125	47
500-101071-13	2233V-1-B12 (0-2)	85	79	93	81	172 X	64
500-101071-14	2233V-1-B13 (0-2)	82	80	84	87	176 X	67
500-101071-15	2233V-1-B14 (0-2)	87	82	100	91	111	60
500-101071-16	2233V-1-B15 (0-2)	91	87	100	91	106	105
500-101071-17	2233V-1-B16 (0-2)	91	79	102	92	115	86
500-101071-18	2233V-1-B17 (0-2)	95	90	101	99	111	94
500-101071-19	2233V-1-B18 (0-2)	89	81	95	82	107	96
500-101071-20	2233V-1-B19 (0-2)	73	71	81	75	98	67
500-101071-21	2233V-1-B20 (0-2)	73	71	73	73	151 X	64
500-101071-22	2233V-1-B20 DUP (0-2)	85	92	89	85	98	107
500-101071-23	2233V-1-B21 (0-2)	74	77	71	72	88	95
500-101071-24	2233V-1-B22 (0-2)	75	77	74	71	87	93
500-101071-25	2233V-1-B23 (0-2)	71	69	72	71	137 X	62
LCS 500-304034/2-A	Lab Control Sample	96	98	95	102	100	102
LCS 500-304076/2-A	Lab Control Sample	99	98	97	94	100	117
MB 500-304034/1-A	Method Blank	91	100	102	101	100	85
MB 500-304076/1-A	Method Blank	100	99	92	89	97	108

### Surrogate Legend

- FBP = 2-Fluorobiphenyl
- 2FP = 2-Fluorophenol
- NBZ = Nitrobenzene-d5
- PHL = Phenol-d5
- TPH = Terphenyl-d14
- TBP = 2,4,6-Tribromophenol



# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

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

**Lab Sample ID: MB 500-304054/7**

**Matrix: Solid**

**Analysis Batch: 304054**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0039	mg/Kg			09/14/15 10:10	1
Benzene	<0.0050		0.0050	0.0011	mg/Kg			09/14/15 10:10	1
Bromodichloromethane	<0.0050		0.0050	0.00084	mg/Kg			09/14/15 10:10	1
Bromoform	<0.0050		0.0050	0.0010	mg/Kg			09/14/15 10:10	1
Bromomethane	<0.0050		0.0050	0.0018	mg/Kg			09/14/15 10:10	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg			09/14/15 10:10	1
Carbon disulfide	<0.0050		0.0050	0.0018	mg/Kg			09/14/15 10:10	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg			09/14/15 10:10	1
Chlorobenzene	<0.0050		0.0050	0.0012	mg/Kg			09/14/15 10:10	1
Chloroethane	<0.0050		0.0050	0.0021	mg/Kg			09/14/15 10:10	1
Chloroform	<0.0050		0.0050	0.00098	mg/Kg			09/14/15 10:10	1
Chloromethane	<0.0050		0.0050	0.0012	mg/Kg			09/14/15 10:10	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.0010	mg/Kg			09/14/15 10:10	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg			09/14/15 10:10	1
Dibromochloromethane	<0.0050		0.0050	0.00058	mg/Kg			09/14/15 10:10	1
1,1-Dichloroethane	<0.0050		0.0050	0.0010	mg/Kg			09/14/15 10:10	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg			09/14/15 10:10	1
1,1-Dichloroethene	<0.0050		0.0050	0.0018	mg/Kg			09/14/15 10:10	1
1,2-Dichloropropane	<0.0050		0.0050	0.0013	mg/Kg			09/14/15 10:10	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.0014	mg/Kg			09/14/15 10:10	1
Ethylbenzene	<0.0050		0.0050	0.0012	mg/Kg			09/14/15 10:10	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			09/14/15 10:10	1
Methylene Chloride	<0.0050		0.0050	0.0038	mg/Kg			09/14/15 10:10	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0010	mg/Kg			09/14/15 10:10	1
Methyl tert-butyl ether	<0.0050		0.0050	0.0012	mg/Kg			09/14/15 10:10	1
Styrene	<0.0050		0.0050	0.0012	mg/Kg			09/14/15 10:10	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00079	mg/Kg			09/14/15 10:10	1
Tetrachloroethene	<0.0050		0.0050	0.0010	mg/Kg			09/14/15 10:10	1
Toluene	<0.0050		0.0050	0.0017	mg/Kg			09/14/15 10:10	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.0013	mg/Kg			09/14/15 10:10	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0014	mg/Kg			09/14/15 10:10	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.0012	mg/Kg			09/14/15 10:10	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00097	mg/Kg			09/14/15 10:10	1
Trichloroethene	<0.0050		0.0050	0.0014	mg/Kg			09/14/15 10:10	1
Vinyl acetate	<0.0050		0.0050	0.0013	mg/Kg			09/14/15 10:10	1
Vinyl chloride	<0.0050		0.0050	0.0012	mg/Kg			09/14/15 10:10	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg			09/14/15 10:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 122		09/14/15 10:10	1
Dibromofluoromethane	104		75 - 120		09/14/15 10:10	1
1,2-Dichloroethane-d4 (Surr)	122		70 - 134		09/14/15 10:10	1
Toluene-d8 (Surr)	116		75 - 122		09/14/15 10:10	1

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

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

**Lab Sample ID: LCS 500-304054/5**

**Matrix: Solid**

**Analysis Batch: 304054**

**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	0.0511		mg/Kg		102	50 - 133
Benzene	0.0500	0.0491		mg/Kg		98	70 - 120
Bromodichloromethane	0.0500	0.0472		mg/Kg		94	69 - 120
Bromoform	0.0500	0.0364		mg/Kg		73	51 - 127
Bromomethane	0.0500	0.0368		mg/Kg		74	69 - 120
2-Butanone (MEK)	0.0500	0.0506		mg/Kg		101	50 - 148
Carbon disulfide	0.0500	0.0461		mg/Kg		92	58 - 120
Carbon tetrachloride	0.0500	0.0464		mg/Kg		93	51 - 124
Chlorobenzene	0.0500	0.0494		mg/Kg		99	70 - 120
Chloroethane	0.0500	0.0606		mg/Kg		121	49 - 125
Chloroform	0.0500	0.0498		mg/Kg		100	70 - 120
Chloromethane	0.0500	0.0428		mg/Kg		86	63 - 126
cis-1,2-Dichloroethene	0.0500	0.0508		mg/Kg		102	70 - 120
Dibromochloromethane	0.0500	0.0446		mg/Kg		89	69 - 126
1,1-Dichloroethane	0.0500	0.0594		mg/Kg		119	70 - 120
1,2-Dichloroethane	0.0500	0.0554		mg/Kg		111	70 - 128
1,1-Dichloroethene	0.0500	0.0485		mg/Kg		97	67 - 120
1,2-Dichloropropane	0.0500	0.0563		mg/Kg		113	70 - 120
Ethylbenzene	0.0500	0.0501		mg/Kg		100	70 - 120
2-Hexanone	0.0500	0.0513		mg/Kg		103	50 - 150
Methylene Chloride	0.0500	0.0502		mg/Kg		100	70 - 120
4-Methyl-2-pentanone (MIBK)	0.0500	0.0479		mg/Kg		96	50 - 150
Methyl tert-butyl ether	0.0500	0.0500		mg/Kg		100	70 - 120
Styrene	0.0500	0.0474		mg/Kg		95	70 - 120
1,1,2,2-Tetrachloroethane	0.0500	0.0576		mg/Kg		115	70 - 133
Tetrachloroethene	0.0500	0.0450		mg/Kg		90	70 - 120
Toluene	0.0500	0.0508		mg/Kg		102	70 - 120
trans-1,2-Dichloroethene	0.0500	0.0473		mg/Kg		95	70 - 120
1,1,1-Trichloroethane	0.0500	0.0512		mg/Kg		102	70 - 120
1,1,2-Trichloroethane	0.0500	0.0517		mg/Kg		103	70 - 120
Trichloroethene	0.0500	0.0473		mg/Kg		95	70 - 120
Vinyl acetate	0.0500	0.0483		mg/Kg		97	60 - 150
Vinyl chloride	0.0500	0.0512		mg/Kg		102	69 - 120
Xylenes, Total	0.100	0.107		mg/Kg		107	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 122
Dibromofluoromethane	105		75 - 120
1,2-Dichloroethane-d4 (Surr)	119		70 - 134
Toluene-d8 (Surr)	116		75 - 122

**Lab Sample ID: LCSD 500-304054/6**

**Matrix: Solid**

**Analysis Batch: 304054**

**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	0.0532		mg/Kg		106	50 - 133	4	30
Benzene	0.0500	0.0451		mg/Kg		90	70 - 120	9	30

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

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

**Lab Sample ID: LCSD 500-304054/6**  
**Matrix: Solid**  
**Analysis Batch: 304054**

**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
Bromodichloromethane	0.0500	0.0434		mg/Kg		87	69 - 120	8	30
Bromoform	0.0500	0.0382		mg/Kg		76	51 - 127	5	30
Bromomethane	0.0500	0.0355		mg/Kg		71	69 - 120	4	30
2-Butanone (MEK)	0.0500	0.0459		mg/Kg		92	50 - 148	10	30
Carbon disulfide	0.0500	0.0420		mg/Kg		84	58 - 120	9	30
Carbon tetrachloride	0.0500	0.0435		mg/Kg		87	51 - 124	7	30
Chlorobenzene	0.0500	0.0484		mg/Kg		97	70 - 120	2	30
Chloroethane	0.0500	0.0490		mg/Kg		98	49 - 125	21	30
Chloroform	0.0500	0.0455		mg/Kg		91	70 - 120	9	30
Chloromethane	0.0500	0.0395		mg/Kg		79	63 - 126	8	30
cis-1,2-Dichloroethene	0.0500	0.0456		mg/Kg		91	70 - 120	11	30
Dibromochloromethane	0.0500	0.0455		mg/Kg		91	69 - 126	2	30
1,1-Dichloroethane	0.0500	0.0534		mg/Kg		107	70 - 120	11	30
1,2-Dichloroethane	0.0500	0.0543		mg/Kg		109	70 - 128	2	30
1,1-Dichloroethene	0.0500	0.0437		mg/Kg		87	67 - 120	11	30
1,2-Dichloropropane	0.0500	0.0517		mg/Kg		103	70 - 120	8	30
Ethylbenzene	0.0500	0.0492		mg/Kg		98	70 - 120	2	30
2-Hexanone	0.0500	0.0514		mg/Kg		103	50 - 150	0	30
Methylene Chloride	0.0500	0.0461		mg/Kg		92	70 - 120	8	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0478		mg/Kg		96	50 - 150	0	30
Methyl tert-butyl ether	0.0500	0.0468		mg/Kg		94	70 - 120	7	30
Styrene	0.0500	0.0481		mg/Kg		96	70 - 120	2	30
1,1,2,2-Tetrachloroethane	0.0500	0.0525		mg/Kg		105	70 - 133	9	30
Tetrachloroethene	0.0500	0.0448		mg/Kg		90	70 - 120	0	30
Toluene	0.0500	0.0506		mg/Kg		101	70 - 120	0	30
trans-1,2-Dichloroethene	0.0500	0.0442		mg/Kg		88	70 - 120	7	30
1,1,1-Trichloroethane	0.0500	0.0456		mg/Kg		91	70 - 120	12	30
1,1,2-Trichloroethane	0.0500	0.0504		mg/Kg		101	70 - 120	3	30
Trichloroethene	0.0500	0.0442		mg/Kg		88	70 - 120	7	30
Vinyl acetate	0.0500	0.0486		mg/Kg		97	60 - 150	1	30
Vinyl chloride	0.0500	0.0475		mg/Kg		95	69 - 120	7	30
Xylenes, Total	0.100	0.104		mg/Kg		104	70 - 120	3	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	112		70 - 122
Dibromofluoromethane	102		75 - 120
1,2-Dichloroethane-d4 (Surr)	113		70 - 134
Toluene-d8 (Surr)	121		75 - 122

**Lab Sample ID: MB 500-304173/6**  
**Matrix: Solid**  
**Analysis Batch: 304173**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0039	mg/Kg			09/14/15 22:33	1
Benzene	<0.0050		0.0050	0.0011	mg/Kg			09/14/15 22:33	1
Bromodichloromethane	<0.0050		0.0050	0.00084	mg/Kg			09/14/15 22:33	1
Bromoform	<0.0050		0.0050	0.0010	mg/Kg			09/14/15 22:33	1

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

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

**Lab Sample ID: MB 500-304173/6**  
**Matrix: Solid**  
**Analysis Batch: 304173**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	<0.0050		0.0050	0.0018	mg/Kg			09/14/15 22:33	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg			09/14/15 22:33	1
Carbon disulfide	<0.0050		0.0050	0.0018	mg/Kg			09/14/15 22:33	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg			09/14/15 22:33	1
Chlorobenzene	<0.0050		0.0050	0.0012	mg/Kg			09/14/15 22:33	1
Chloroethane	<0.0050		0.0050	0.0021	mg/Kg			09/14/15 22:33	1
Chloroform	<0.0050		0.0050	0.00098	mg/Kg			09/14/15 22:33	1
Chloromethane	<0.0050		0.0050	0.0012	mg/Kg			09/14/15 22:33	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.0010	mg/Kg			09/14/15 22:33	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg			09/14/15 22:33	1
Dibromochloromethane	<0.0050		0.0050	0.00058	mg/Kg			09/14/15 22:33	1
1,1-Dichloroethane	<0.0050		0.0050	0.0010	mg/Kg			09/14/15 22:33	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg			09/14/15 22:33	1
1,1-Dichloroethene	<0.0050		0.0050	0.0018	mg/Kg			09/14/15 22:33	1
1,2-Dichloropropane	<0.0050		0.0050	0.0013	mg/Kg			09/14/15 22:33	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.0014	mg/Kg			09/14/15 22:33	1
Ethylbenzene	<0.0050		0.0050	0.0012	mg/Kg			09/14/15 22:33	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			09/14/15 22:33	1
Methylene Chloride	<0.0050		0.0050	0.0038	mg/Kg			09/14/15 22:33	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0010	mg/Kg			09/14/15 22:33	1
Methyl tert-butyl ether	<0.0050		0.0050	0.0012	mg/Kg			09/14/15 22:33	1
Styrene	<0.0050		0.0050	0.0012	mg/Kg			09/14/15 22:33	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00079	mg/Kg			09/14/15 22:33	1
Tetrachloroethene	<0.0050		0.0050	0.0010	mg/Kg			09/14/15 22:33	1
Toluene	<0.0050		0.0050	0.0017	mg/Kg			09/14/15 22:33	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.0013	mg/Kg			09/14/15 22:33	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0014	mg/Kg			09/14/15 22:33	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.0012	mg/Kg			09/14/15 22:33	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00097	mg/Kg			09/14/15 22:33	1
Trichloroethene	<0.0050		0.0050	0.0014	mg/Kg			09/14/15 22:33	1
Vinyl acetate	<0.0050		0.0050	0.0013	mg/Kg			09/14/15 22:33	1
Vinyl chloride	<0.0050		0.0050	0.0012	mg/Kg			09/14/15 22:33	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg			09/14/15 22:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122		09/14/15 22:33	1
Dibromofluoromethane	100		75 - 120		09/14/15 22:33	1
1,2-Dichloroethane-d4 (Surr)	119		70 - 134		09/14/15 22:33	1
Toluene-d8 (Surr)	115		75 - 122		09/14/15 22:33	1

**Lab Sample ID: LCS 500-304173/4**  
**Matrix: Solid**  
**Analysis Batch: 304173**

**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	0.0501		mg/Kg		100	50 - 133
Benzene	0.0500	0.0473		mg/Kg		95	70 - 120
Bromodichloromethane	0.0500	0.0469		mg/Kg		94	69 - 120

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

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

**Lab Sample ID: LCS 500-304173/4**  
**Matrix: Solid**  
**Analysis Batch: 304173**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromoform	0.0500	0.0402		mg/Kg		80	51 - 127
Bromomethane	0.0500	0.0327	*	mg/Kg		65	69 - 120
2-Butanone (MEK)	0.0500	0.0472		mg/Kg		94	50 - 148
Carbon disulfide	0.0500	0.0410		mg/Kg		82	58 - 120
Carbon tetrachloride	0.0500	0.0438		mg/Kg		88	51 - 124
Chlorobenzene	0.0500	0.0501		mg/Kg		100	70 - 120
Chloroethane	0.0500	0.0527		mg/Kg		105	49 - 125
Chloroform	0.0500	0.0488		mg/Kg		98	70 - 120
Chloromethane	0.0500	0.0391		mg/Kg		78	63 - 126
cis-1,2-Dichloroethene	0.0500	0.0480		mg/Kg		96	70 - 120
Dibromochloromethane	0.0500	0.0471		mg/Kg		94	69 - 126
1,1-Dichloroethane	0.0500	0.0572		mg/Kg		114	70 - 120
1,2-Dichloroethane	0.0500	0.0577		mg/Kg		115	70 - 128
1,1-Dichloroethene	0.0500	0.0446		mg/Kg		89	67 - 120
1,2-Dichloropropane	0.0500	0.0569		mg/Kg		114	70 - 120
Ethylbenzene	0.0500	0.0486		mg/Kg		97	70 - 120
2-Hexanone	0.0500	0.0536		mg/Kg		107	50 - 150
Methylene Chloride	0.0500	0.0506		mg/Kg		101	70 - 120
4-Methyl-2-pentanone (MIBK)	0.0500	0.0516		mg/Kg		103	50 - 150
Methyl tert-butyl ether	0.0500	0.0512		mg/Kg		102	70 - 120
Styrene	0.0500	0.0490		mg/Kg		98	70 - 120
1,1,2,2-Tetrachloroethane	0.0500	0.0582		mg/Kg		116	70 - 133
Tetrachloroethene	0.0500	0.0436		mg/Kg		87	70 - 120
Toluene	0.0500	0.0497		mg/Kg		99	70 - 120
trans-1,2-Dichloroethene	0.0500	0.0452		mg/Kg		90	70 - 120
1,1,1-Trichloroethane	0.0500	0.0478		mg/Kg		96	70 - 120
1,1,2-Trichloroethane	0.0500	0.0527		mg/Kg		105	70 - 120
Trichloroethene	0.0500	0.0457		mg/Kg		91	70 - 120
Vinyl acetate	0.0500	0.0524		mg/Kg		105	60 - 150
Vinyl chloride	0.0500	0.0462		mg/Kg		92	69 - 120
Xylenes, Total	0.100	0.104		mg/Kg		104	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 122
Dibromofluoromethane	103		75 - 120
1,2-Dichloroethane-d4 (Surr)	118		70 - 134
Toluene-d8 (Surr)	118		75 - 122

**Lab Sample ID: LCSD 500-304173/5**  
**Matrix: Solid**  
**Analysis Batch: 304173**

**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	0.0565		mg/Kg		113	50 - 133	12	30
Benzene	0.0500	0.0471		mg/Kg		94	70 - 120	0	30
Bromodichloromethane	0.0500	0.0473		mg/Kg		95	69 - 120	1	30
Bromoform	0.0500	0.0404		mg/Kg		81	51 - 127	1	30
Bromomethane	0.0500	0.0347		mg/Kg		69	69 - 120	6	30

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

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

**Lab Sample ID: LCSD 500-304173/5**  
**Matrix: Solid**  
**Analysis Batch: 304173**

**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
2-Butanone (MEK)	0.0500	0.0508		mg/Kg		102	50 - 148	7	30
Carbon disulfide	0.0500	0.0423		mg/Kg		85	58 - 120	3	30
Carbon tetrachloride	0.0500	0.0442		mg/Kg		88	51 - 124	1	30
Chlorobenzene	0.0500	0.0507		mg/Kg		101	70 - 120	1	30
Chloroethane	0.0500	0.0458		mg/Kg		92	49 - 125	14	30
Chloroform	0.0500	0.0483		mg/Kg		97	70 - 120	1	30
Chloromethane	0.0500	0.0394		mg/Kg		79	63 - 126	1	30
cis-1,2-Dichloroethene	0.0500	0.0490		mg/Kg		98	70 - 120	2	30
Dibromochloromethane	0.0500	0.0492		mg/Kg		98	69 - 126	4	30
1,1-Dichloroethane	0.0500	0.0564		mg/Kg		113	70 - 120	1	30
1,2-Dichloroethane	0.0500	0.0580		mg/Kg		116	70 - 128	1	30
1,1-Dichloroethene	0.0500	0.0455		mg/Kg		91	67 - 120	2	30
1,2-Dichloropropane	0.0500	0.0544		mg/Kg		109	70 - 120	5	30
Ethylbenzene	0.0500	0.0496		mg/Kg		99	70 - 120	2	30
2-Hexanone	0.0500	0.0564		mg/Kg		113	50 - 150	5	30
Methylene Chloride	0.0500	0.0510		mg/Kg		102	70 - 120	1	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0532		mg/Kg		106	50 - 150	3	30
Methyl tert-butyl ether	0.0500	0.0506		mg/Kg		101	70 - 120	1	30
Styrene	0.0500	0.0495		mg/Kg		99	70 - 120	1	30
1,1,2,2-Tetrachloroethane	0.0500	0.0571		mg/Kg		114	70 - 133	2	30
Tetrachloroethene	0.0500	0.0448		mg/Kg		90	70 - 120	3	30
Toluene	0.0500	0.0524		mg/Kg		105	70 - 120	5	30
trans-1,2-Dichloroethene	0.0500	0.0445		mg/Kg		89	70 - 120	2	30
1,1,1-Trichloroethane	0.0500	0.0475		mg/Kg		95	70 - 120	0	30
1,1,2-Trichloroethane	0.0500	0.0534		mg/Kg		107	70 - 120	1	30
Trichloroethene	0.0500	0.0453		mg/Kg		91	70 - 120	1	30
Vinyl acetate	0.0500	0.0471		mg/Kg		94	60 - 150	11	30
Vinyl chloride	0.0500	0.0478		mg/Kg		96	69 - 120	3	30
Xylenes, Total	0.100	0.106		mg/Kg		106	70 - 120	2	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	116		70 - 122
Dibromofluoromethane	99		75 - 120
1,2-Dichloroethane-d4 (Surr)	122		70 - 134
Toluene-d8 (Surr)	117		75 - 122

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

**Lab Sample ID: MB 500-304034/1-A**  
**Matrix: Solid**  
**Analysis Batch: 304103**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 304034**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		09/13/15 16:30	09/14/15 11:38	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		09/13/15 16:30	09/14/15 11:38	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		09/13/15 16:30	09/14/15 11:38	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		09/13/15 16:30	09/14/15 11:38	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		09/13/15 16:30	09/14/15 11:38	1

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

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

**Lab Sample ID: MB 500-304034/1-A**  
**Matrix: Solid**  
**Analysis Batch: 304103**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 304034**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		09/13/15 16:30	09/14/15 11:38	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		09/13/15 16:30	09/14/15 11:38	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		09/13/15 16:30	09/14/15 11:38	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		09/13/15 16:30	09/14/15 11:38	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		09/13/15 16:30	09/14/15 11:38	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		09/13/15 16:30	09/14/15 11:38	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		09/13/15 16:30	09/14/15 11:38	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		09/13/15 16:30	09/14/15 11:38	1
Carbazole	<0.17		0.17	0.083	mg/Kg		09/13/15 16:30	09/14/15 11:38	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		09/13/15 16:30	09/14/15 11:38	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		09/13/15 16:30	09/14/15 11:38	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		09/13/15 16:30	09/14/15 11:38	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		09/13/15 16:30	09/14/15 11:38	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		09/13/15 16:30	09/14/15 11:38	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		09/13/15 16:30	09/14/15 11:38	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		09/13/15 16:30	09/14/15 11:38	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		09/13/15 16:30	09/14/15 11:38	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		09/13/15 16:30	09/14/15 11:38	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		09/13/15 16:30	09/14/15 11:38	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		09/13/15 16:30	09/14/15 11:38	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		09/13/15 16:30	09/14/15 11:38	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		09/13/15 16:30	09/14/15 11:38	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		09/13/15 16:30	09/14/15 11:38	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		09/13/15 16:30	09/14/15 11:38	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		09/13/15 16:30	09/14/15 11:38	1
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		09/13/15 16:30	09/14/15 11:38	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		09/13/15 16:30	09/14/15 11:38	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		09/13/15 16:30	09/14/15 11:38	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		09/13/15 16:30	09/14/15 11:38	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		09/13/15 16:30	09/14/15 11:38	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		09/13/15 16:30	09/14/15 11:38	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		09/13/15 16:30	09/14/15 11:38	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		09/13/15 16:30	09/14/15 11:38	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		09/13/15 16:30	09/14/15 11:38	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		09/13/15 16:30	09/14/15 11:38	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		09/13/15 16:30	09/14/15 11:38	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		09/13/15 16:30	09/14/15 11:38	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		09/13/15 16:30	09/14/15 11:38	1
Isophorone	<0.17		0.17	0.037	mg/Kg		09/13/15 16:30	09/14/15 11:38	1
2-Methylnaphthalene	<0.033		0.033	0.0061	mg/Kg		09/13/15 16:30	09/14/15 11:38	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		09/13/15 16:30	09/14/15 11:38	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		09/13/15 16:30	09/14/15 11:38	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		09/13/15 16:30	09/14/15 11:38	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		09/13/15 16:30	09/14/15 11:38	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		09/13/15 16:30	09/14/15 11:38	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		09/13/15 16:30	09/14/15 11:38	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		09/13/15 16:30	09/14/15 11:38	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		09/13/15 16:30	09/14/15 11:38	1

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

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

**Lab Sample ID: MB 500-304034/1-A**  
**Matrix: Solid**  
**Analysis Batch: 304103**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 304034**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		09/13/15 16:30	09/14/15 11:38	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.041	mg/Kg		09/13/15 16:30	09/14/15 11:38	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		09/13/15 16:30	09/14/15 11:38	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		09/13/15 16:30	09/14/15 11:38	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		09/13/15 16:30	09/14/15 11:38	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		09/13/15 16:30	09/14/15 11:38	1
Phenol	<0.17		0.17	0.074	mg/Kg		09/13/15 16:30	09/14/15 11:38	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		09/13/15 16:30	09/14/15 11:38	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		09/13/15 16:30	09/14/15 11:38	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		09/13/15 16:30	09/14/15 11:38	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		09/13/15 16:30	09/14/15 11:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	91		25 - 119	09/13/15 16:30	09/14/15 11:38	1
2-Fluorophenol	100		25 - 110	09/13/15 16:30	09/14/15 11:38	1
Nitrobenzene-d5	102		25 - 115	09/13/15 16:30	09/14/15 11:38	1
Phenol-d5	101		31 - 110	09/13/15 16:30	09/14/15 11:38	1
Terphenyl-d14	100		36 - 134	09/13/15 16:30	09/14/15 11:38	1
2,4,6-Tribromophenol	85		35 - 137	09/13/15 16:30	09/14/15 11:38	1

**Lab Sample ID: LCS 500-304034/2-A**  
**Matrix: Solid**  
**Analysis Batch: 304103**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 304034**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1.33	1.23		mg/Kg		92	46 - 110
Acenaphthylene	1.33	1.34		mg/Kg		101	49 - 110
Anthracene	1.33	1.32		mg/Kg		99	48 - 118
Benzo[a]anthracene	1.33	1.28		mg/Kg		96	49 - 121
Benzo[a]pyrene	1.33	1.33		mg/Kg		100	53 - 122
Benzo[b]fluoranthene	1.33	1.30		mg/Kg		97	54 - 122
Benzo[g,h,i]perylene	1.33	1.29		mg/Kg		96	52 - 125
Benzo[k]fluoranthene	1.33	1.36		mg/Kg		102	44 - 137
Bis(2-chloroethoxy)methane	1.33	1.23		mg/Kg		92	42 - 110
Bis(2-chloroethyl)ether	1.33	1.14		mg/Kg		86	32 - 110
Bis(2-ethylhexyl) phthalate	1.33	1.33		mg/Kg		100	47 - 133
4-Bromophenyl phenyl ether	1.33	1.34		mg/Kg		101	55 - 113
Butyl benzyl phthalate	1.33	1.32		mg/Kg		99	49 - 121
Carbazole	1.33	1.51		mg/Kg		113	26 - 188
4-Chloroaniline	1.33	1.09		mg/Kg		82	16 - 118
4-Chloro-3-methylphenol	1.33	1.33		mg/Kg		100	52 - 111
2-Chloronaphthalene	1.33	1.29		mg/Kg		97	52 - 114
2-Chlorophenol	1.33	1.26		mg/Kg		95	47 - 114
4-Chlorophenyl phenyl ether	1.33	1.31		mg/Kg		98	53 - 117
Chrysene	1.33	1.36		mg/Kg		102	45 - 118
Dibenz(a,h)anthracene	1.33	1.30		mg/Kg		98	48 - 134
Dibenzofuran	1.33	1.33		mg/Kg		100	51 - 119
1,2-Dichlorobenzene	1.33	1.09		mg/Kg		82	48 - 110

TestAmerica Chicago



# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

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

**Lab Sample ID: LCS 500-304034/2-A**  
**Matrix: Solid**  
**Analysis Batch: 304103**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 304034**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,3-Dichlorobenzene	1.33	1.02		mg/Kg		77	44 - 110
1,4-Dichlorobenzene	1.33	1.05		mg/Kg		79	45 - 110
3,3'-Dichlorobenzidine	1.33	1.20		mg/Kg		90	26 - 128
2,4-Dichlorophenol	1.33	1.26		mg/Kg		94	53 - 113
Diethyl phthalate	1.33	1.37		mg/Kg		103	50 - 128
2,4-Dimethylphenol	1.33	1.31		mg/Kg		98	49 - 110
Dimethyl phthalate	1.33	1.33		mg/Kg		100	56 - 113
Di-n-butyl phthalate	1.33	1.35		mg/Kg		101	50 - 128
4,6-Dinitro-2-methylphenol	2.67	1.31		mg/Kg		49	10 - 110
2,4-Dinitrophenol	2.67	0.991		mg/Kg		37	10 - 110
2,4-Dinitrotoluene	1.33	1.37		mg/Kg		103	53 - 122
2,6-Dinitrotoluene	1.33	1.36		mg/Kg		102	54 - 117
Di-n-octyl phthalate	1.33	1.30		mg/Kg		97	46 - 138
Fluoranthene	1.33	1.34		mg/Kg		100	48 - 128
Fluorene	1.33	1.34		mg/Kg		101	47 - 121
Hexachlorobenzene	1.33	1.35		mg/Kg		101	54 - 114
Hexachlorobutadiene	1.33	1.12		mg/Kg		84	47 - 114
Hexachlorocyclopentadiene	1.33	0.494	J	mg/Kg		37	10 - 110
Hexachloroethane	1.33	1.08		mg/Kg		81	44 - 110
Indeno[1,2,3-cd]pyrene	1.33	1.54		mg/Kg		115	49 - 132
Isophorone	1.33	1.21		mg/Kg		91	35 - 110
2-Methylnaphthalene	1.33	1.23		mg/Kg		92	48 - 110
2-Methylphenol	1.33	1.31		mg/Kg		98	44 - 110
3 & 4 Methylphenol	1.33	1.31		mg/Kg		98	37 - 122
Naphthalene	1.33	1.22		mg/Kg		92	48 - 110
2-Nitroaniline	1.33	1.47		mg/Kg		110	42 - 122
3-Nitroaniline	1.33	1.27		mg/Kg		96	36 - 131
4-Nitroaniline	1.33	1.53		mg/Kg		115	28 - 157
Nitrobenzene	1.33	1.22		mg/Kg		92	35 - 113
2-Nitrophenol	1.33	1.19		mg/Kg		89	48 - 113
4-Nitrophenol	2.67	2.51		mg/Kg		94	10 - 157
N-Nitrosodi-n-propylamine	1.33	1.30		mg/Kg		98	24 - 123
N-Nitrosodiphenylamine	2.67	2.71		mg/Kg		101	52 - 111
2,2'-oxybis[1-chloropropane]	1.33	1.48		mg/Kg		111	30 - 115
Pentachlorophenol	2.67	2.30		mg/Kg		86	10 - 124
Phenanthrene	1.33	1.34		mg/Kg		101	48 - 121
Phenol	1.33	1.29		mg/Kg		97	41 - 110
Pyrene	1.33	1.32		mg/Kg		99	46 - 114
1,2,4-Trichlorobenzene	1.33	1.16		mg/Kg		87	49 - 110
2,4,5-Trichlorophenol	1.33	1.35		mg/Kg		101	41 - 120
2,4,6-Trichlorophenol	1.33	1.33		mg/Kg		100	44 - 118

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	96		25 - 119
2-Fluorophenol	98		25 - 110
Nitrobenzene-d5	95		25 - 115
Phenol-d5	102		31 - 110
Terphenyl-d14	100		36 - 134

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

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

**Lab Sample ID: LCS 500-304034/2-A**  
**Matrix: Solid**  
**Analysis Batch: 304103**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 304034**

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol	102		35 - 137

**Lab Sample ID: MB 500-304076/1-A**  
**Matrix: Solid**  
**Analysis Batch: 304255**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 304076**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		09/14/15 07:43	09/15/15 10:38	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		09/14/15 07:43	09/15/15 10:38	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		09/14/15 07:43	09/15/15 10:38	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		09/14/15 07:43	09/15/15 10:38	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		09/14/15 07:43	09/15/15 10:38	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		09/14/15 07:43	09/15/15 10:38	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		09/14/15 07:43	09/15/15 10:38	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		09/14/15 07:43	09/15/15 10:38	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		09/14/15 07:43	09/15/15 10:38	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		09/14/15 07:43	09/15/15 10:38	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		09/14/15 07:43	09/15/15 10:38	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		09/14/15 07:43	09/15/15 10:38	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		09/14/15 07:43	09/15/15 10:38	1
Carbazole	<0.17		0.17	0.083	mg/Kg		09/14/15 07:43	09/15/15 10:38	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		09/14/15 07:43	09/15/15 10:38	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		09/14/15 07:43	09/15/15 10:38	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		09/14/15 07:43	09/15/15 10:38	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		09/14/15 07:43	09/15/15 10:38	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		09/14/15 07:43	09/15/15 10:38	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		09/14/15 07:43	09/15/15 10:38	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		09/14/15 07:43	09/15/15 10:38	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		09/14/15 07:43	09/15/15 10:38	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		09/14/15 07:43	09/15/15 10:38	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		09/14/15 07:43	09/15/15 10:38	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		09/14/15 07:43	09/15/15 10:38	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		09/14/15 07:43	09/15/15 10:38	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		09/14/15 07:43	09/15/15 10:38	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		09/14/15 07:43	09/15/15 10:38	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		09/14/15 07:43	09/15/15 10:38	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		09/14/15 07:43	09/15/15 10:38	1
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		09/14/15 07:43	09/15/15 10:38	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		09/14/15 07:43	09/15/15 10:38	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		09/14/15 07:43	09/15/15 10:38	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		09/14/15 07:43	09/15/15 10:38	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		09/14/15 07:43	09/15/15 10:38	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		09/14/15 07:43	09/15/15 10:38	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		09/14/15 07:43	09/15/15 10:38	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		09/14/15 07:43	09/15/15 10:38	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		09/14/15 07:43	09/15/15 10:38	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		09/14/15 07:43	09/15/15 10:38	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		09/14/15 07:43	09/15/15 10:38	1

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

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

**Lab Sample ID: MB 500-304076/1-A**  
**Matrix: Solid**  
**Analysis Batch: 304255**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 304076**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		09/14/15 07:43	09/15/15 10:38	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		09/14/15 07:43	09/15/15 10:38	1
Isophorone	<0.17		0.17	0.037	mg/Kg		09/14/15 07:43	09/15/15 10:38	1
2-Methylnaphthalene	<0.033		0.033	0.0061	mg/Kg		09/14/15 07:43	09/15/15 10:38	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		09/14/15 07:43	09/15/15 10:38	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		09/14/15 07:43	09/15/15 10:38	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		09/14/15 07:43	09/15/15 10:38	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		09/14/15 07:43	09/15/15 10:38	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		09/14/15 07:43	09/15/15 10:38	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		09/14/15 07:43	09/15/15 10:38	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		09/14/15 07:43	09/15/15 10:38	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		09/14/15 07:43	09/15/15 10:38	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		09/14/15 07:43	09/15/15 10:38	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.041	mg/Kg		09/14/15 07:43	09/15/15 10:38	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		09/14/15 07:43	09/15/15 10:38	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		09/14/15 07:43	09/15/15 10:38	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		09/14/15 07:43	09/15/15 10:38	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		09/14/15 07:43	09/15/15 10:38	1
Phenol	<0.17		0.17	0.074	mg/Kg		09/14/15 07:43	09/15/15 10:38	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		09/14/15 07:43	09/15/15 10:38	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		09/14/15 07:43	09/15/15 10:38	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		09/14/15 07:43	09/15/15 10:38	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		09/14/15 07:43	09/15/15 10:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	100		25 - 119	09/14/15 07:43	09/15/15 10:38	1
2-Fluorophenol	99		25 - 110	09/14/15 07:43	09/15/15 10:38	1
Nitrobenzene-d5	92		25 - 115	09/14/15 07:43	09/15/15 10:38	1
Phenol-d5	89		31 - 110	09/14/15 07:43	09/15/15 10:38	1
Terphenyl-d14	97		36 - 134	09/14/15 07:43	09/15/15 10:38	1
2,4,6-Tribromophenol	108		35 - 137	09/14/15 07:43	09/15/15 10:38	1

**Lab Sample ID: LCS 500-304076/2-A**  
**Matrix: Solid**  
**Analysis Batch: 304255**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 304076**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1.33	1.25		mg/Kg		94	46 - 110
Acenaphthylene	1.33	1.26		mg/Kg		95	49 - 110
Anthracene	1.33	1.16		mg/Kg		87	48 - 118
Benzo[a]anthracene	1.33	1.25		mg/Kg		94	49 - 121
Benzo[a]pyrene	1.33	1.25		mg/Kg		94	53 - 122
Benzo[b]fluoranthene	1.33	1.23		mg/Kg		92	54 - 122
Benzo[g,h,i]perylene	1.33	1.29		mg/Kg		97	52 - 125
Benzo[k]fluoranthene	1.33	1.19		mg/Kg		89	44 - 137
Bis(2-chloroethoxy)methane	1.33	1.17		mg/Kg		88	42 - 110
Bis(2-chloroethyl)ether	1.33	1.12		mg/Kg		84	32 - 110
Bis(2-ethylhexyl) phthalate	1.33	1.12		mg/Kg		84	47 - 133

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

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

**Lab Sample ID: LCS 500-304076/2-A**

**Matrix: Solid**

**Analysis Batch: 304255**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 304076**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
4-Bromophenyl phenyl ether	1.33	1.30		mg/Kg		98	55 - 113
Butyl benzyl phthalate	1.33	1.14		mg/Kg		86	49 - 121
Carbazole	1.33	1.40		mg/Kg		105	26 - 188
4-Chloroaniline	1.33	1.16		mg/Kg		87	16 - 118
4-Chloro-3-methylphenol	1.33	1.13		mg/Kg		85	52 - 111
2-Chloronaphthalene	1.33	1.26		mg/Kg		94	52 - 114
2-Chlorophenol	1.33	1.17		mg/Kg		88	47 - 114
4-Chlorophenyl phenyl ether	1.33	1.33		mg/Kg		100	53 - 117
Chrysene	1.33	1.24		mg/Kg		93	45 - 118
Dibenz(a,h)anthracene	1.33	1.37		mg/Kg		102	48 - 134
Dibenzofuran	1.33	1.25		mg/Kg		94	51 - 119
1,2-Dichlorobenzene	1.33	1.21		mg/Kg		91	48 - 110
1,3-Dichlorobenzene	1.33	1.14		mg/Kg		85	44 - 110
1,4-Dichlorobenzene	1.33	1.17		mg/Kg		87	45 - 110
3,3'-Dichlorobenzidine	1.33	1.07		mg/Kg		81	26 - 128
2,4-Dichlorophenol	1.33	1.20		mg/Kg		90	53 - 113
Diethyl phthalate	1.33	1.25		mg/Kg		93	50 - 128
2,4-Dimethylphenol	1.33	1.20		mg/Kg		90	49 - 110
Dimethyl phthalate	1.33	1.24		mg/Kg		93	56 - 113
Di-n-butyl phthalate	1.33	1.18		mg/Kg		88	50 - 128
4,6-Dinitro-2-methylphenol	2.67	1.54		mg/Kg		58	10 - 110
2,4-Dinitrophenol	2.67	0.971		mg/Kg		36	10 - 110
2,4-Dinitrotoluene	1.33	1.25		mg/Kg		94	53 - 122
2,6-Dinitrotoluene	1.33	1.33		mg/Kg		100	54 - 117
Di-n-octyl phthalate	1.33	1.22		mg/Kg		91	46 - 138
Fluoranthene	1.33	1.23		mg/Kg		92	48 - 128
Fluorene	1.33	1.24		mg/Kg		93	47 - 121
Hexachlorobenzene	1.33	1.34		mg/Kg		100	54 - 114
Hexachlorobutadiene	1.33	1.32		mg/Kg		99	47 - 114
Hexachlorocyclopentadiene	1.33	1.17		mg/Kg		88	10 - 110
Hexachloroethane	1.33	1.12		mg/Kg		84	44 - 110
Indeno[1,2,3-cd]pyrene	1.33	1.40		mg/Kg		105	49 - 132
Isophorone	1.33	1.12		mg/Kg		84	35 - 110
2-Methylnaphthalene	1.33	1.22		mg/Kg		91	48 - 110
2-Methylphenol	1.33	1.10		mg/Kg		83	44 - 110
3 & 4 Methylphenol	1.33	1.27		mg/Kg		95	37 - 122
Naphthalene	1.33	1.22		mg/Kg		91	48 - 110
2-Nitroaniline	1.33	1.18		mg/Kg		88	42 - 122
3-Nitroaniline	1.33	1.65		mg/Kg		123	36 - 131
4-Nitroaniline	1.33	1.08		mg/Kg		81	28 - 157
Nitrobenzene	1.33	1.18		mg/Kg		88	35 - 113
2-Nitrophenol	1.33	1.20		mg/Kg		90	48 - 113
4-Nitrophenol	2.67	1.83		mg/Kg		69	10 - 157
N-Nitrosodi-n-propylamine	1.33	1.08		mg/Kg		81	24 - 123
N-Nitrosodiphenylamine	2.67	2.45		mg/Kg		92	52 - 111
2,2'-oxybis[1-chloropropane]	1.33	1.08		mg/Kg		81	30 - 115
Pentachlorophenol	2.67	2.63		mg/Kg		99	10 - 124
Phenanthrene	1.33	1.20		mg/Kg		90	48 - 121

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

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

**Lab Sample ID: LCS 500-304076/2-A**  
**Matrix: Solid**  
**Analysis Batch: 304255**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 304076**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phenol	1.33	1.24		mg/Kg		93	41 - 110
Pyrene	1.33	1.15		mg/Kg		86	46 - 114
1,2,4-Trichlorobenzene	1.33	1.25		mg/Kg		94	49 - 110
2,4,5-Trichlorophenol	1.33	1.36		mg/Kg		102	41 - 120
2,4,6-Trichlorophenol	1.33	1.32		mg/Kg		99	44 - 118

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	99		25 - 119
2-Fluorophenol	98		25 - 110
Nitrobenzene-d5	97		25 - 115
Phenol-d5	94		31 - 110
Terphenyl-d14	100		36 - 134
2,4,6-Tribromophenol	117		35 - 137

**Lab Sample ID: 500-101071-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 304481**

**Client Sample ID: 2233V-1-B01 (0-2)**  
**Prep Type: Total/NA**  
**Prep Batch: 304076**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	<0.038		1.54	1.42		mg/Kg	☼	92	46 - 110
Acenaphthylene	<0.038		1.54	1.43		mg/Kg	☼	93	49 - 110
Anthracene	<0.038		1.54	1.39		mg/Kg	☼	90	48 - 118
Benzo[a]anthracene	<0.038		1.54	1.49		mg/Kg	☼	97	49 - 121
Benzo[a]pyrene	<0.038		1.54	1.60		mg/Kg	☼	104	53 - 122
Benzo[b]fluoranthene	0.024	J F1	1.54	1.89		mg/Kg	☼	121	54 - 122
Benzo[g,h,i]perylene	<0.038		1.54	0.916		mg/Kg	☼	59	52 - 125
Benzo[k]fluoranthene	<0.038		1.54	1.80		mg/Kg	☼	116	44 - 137
Bis(2-chloroethoxy)methane	<0.19		1.54	1.42		mg/Kg	☼	92	42 - 110
Bis(2-chloroethyl)ether	<0.19		1.54	1.35		mg/Kg	☼	88	32 - 110
Bis(2-ethylhexyl) phthalate	<0.19	F1	1.54	2.27	F1	mg/Kg	☼	147	47 - 133
4-Bromophenyl phenyl ether	<0.19		1.54	1.49		mg/Kg	☼	96	55 - 113
Butyl benzyl phthalate	<0.19	F1	1.54	2.52	F1	mg/Kg	☼	163	49 - 121
Carbazole	<0.19		1.54	1.59		mg/Kg	☼	103	26 - 188
4-Chloroaniline	<0.77		1.54	1.35		mg/Kg	☼	87	16 - 118
4-Chloro-3-methylphenol	<0.38		1.54	1.53		mg/Kg	☼	99	52 - 111
2-Chloronaphthalene	<0.19		1.54	1.39		mg/Kg	☼	90	52 - 114
2-Chlorophenol	<0.19		1.54	1.43		mg/Kg	☼	93	47 - 114
4-Chlorophenyl phenyl ether	<0.19		1.54	1.49		mg/Kg	☼	96	53 - 117
Chrysene	0.020	J	1.54	1.42		mg/Kg	☼	90	45 - 118
Dibenz(a,h)anthracene	<0.038		1.54	0.962		mg/Kg	☼	62	48 - 134
Dibenzofuran	<0.19		1.54	1.45		mg/Kg	☼	94	51 - 119
1,2-Dichlorobenzene	<0.19		1.54	1.36		mg/Kg	☼	88	48 - 110
1,3-Dichlorobenzene	<0.19		1.54	1.35		mg/Kg	☼	87	44 - 110
1,4-Dichlorobenzene	<0.19		1.54	1.33		mg/Kg	☼	86	45 - 110
3,3'-Dichlorobenzidine	<0.19		1.54	1.16		mg/Kg	☼	75	26 - 128
2,4-Dichlorophenol	<0.38		1.54	1.68		mg/Kg	☼	109	53 - 113
Diethyl phthalate	<0.19		1.54	1.51		mg/Kg	☼	98	50 - 128
2,4-Dimethylphenol	<0.38		1.54	1.41		mg/Kg	☼	92	49 - 110

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

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

**Lab Sample ID: 500-101071-1 MS**

**Matrix: Solid**

**Analysis Batch: 304481**

**Client Sample ID: 2233V-1-B01 (0-2)**

**Prep Type: Total/NA**

**Prep Batch: 304076**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
Dimethyl phthalate	<0.19		1.54	1.48		mg/Kg	☼	96	56 - 113
Di-n-butyl phthalate	<0.19		1.54	1.46		mg/Kg	☼	95	50 - 128
4,6-Dinitro-2-methylphenol	<0.77		3.09	0.474	J	mg/Kg	☼	15	10 - 110
2,4-Dinitrophenol	<0.77		3.09	0.838		mg/Kg	☼	27	10 - 110
2,4-Dinitrotoluene	<0.19		1.54	1.52		mg/Kg	☼	99	53 - 122
2,6-Dinitrotoluene	<0.19		1.54	1.52		mg/Kg	☼	98	54 - 117
Di-n-octyl phthalate	<0.19		1.54	0.825		mg/Kg	☼	53	46 - 138
Fluoranthene	0.041		1.54	1.31		mg/Kg	☼	82	48 - 128
Fluorene	<0.038		1.54	1.41		mg/Kg	☼	91	47 - 121
Hexachlorobenzene	<0.077		1.54	1.54		mg/Kg	☼	100	54 - 114
Hexachlorobutadiene	<0.19		1.54	1.52		mg/Kg	☼	99	47 - 114
Hexachlorocyclopentadiene	<0.77		1.54	0.316	J	mg/Kg	☼	20	10 - 110
Hexachloroethane	<0.19		1.54	1.28		mg/Kg	☼	83	44 - 110
Indeno[1,2,3-cd]pyrene	<0.038		1.54	1.07		mg/Kg	☼	69	49 - 132
Isophorone	<0.19		1.54	1.39		mg/Kg	☼	90	35 - 110
2-Methylnaphthalene	<0.038		1.54	1.32		mg/Kg	☼	85	48 - 110
2-Methylphenol	<0.19		1.54	1.44		mg/Kg	☼	93	44 - 110
3 & 4 Methylphenol	<0.19		1.54	1.41		mg/Kg	☼	91	37 - 122
Naphthalene	<0.038		1.54	1.41		mg/Kg	☼	91	48 - 110
2-Nitroaniline	<0.19		1.54	1.55		mg/Kg	☼	100	42 - 122
3-Nitroaniline	<0.38		1.54	1.69		mg/Kg	☼	110	36 - 131
4-Nitroaniline	<0.38		1.54	1.89		mg/Kg	☼	122	28 - 157
Nitrobenzene	<0.038		1.54	1.53		mg/Kg	☼	99	35 - 113
2-Nitrophenol	<0.38		1.54	1.57		mg/Kg	☼	101	48 - 113
4-Nitrophenol	<0.77		3.09	3.93		mg/Kg	☼	127	10 - 157
N-Nitrosodi-n-propylamine	<0.19		1.54	1.40		mg/Kg	☼	91	24 - 123
N-Nitrosodiphenylamine	<0.19		3.09	2.77		mg/Kg	☼	90	52 - 111
2,2'-oxybis[1-chloropropane]	<0.19		1.54	1.00		mg/Kg	☼	65	30 - 115
Pentachlorophenol	<0.77	F1	3.09	<0.78	F1	mg/Kg	☼	0	10 - 124
Phenanthrene	0.019	J	1.54	1.40		mg/Kg	☼	90	48 - 121
Phenol	<0.19		1.54	1.40		mg/Kg	☼	90	41 - 110
Pyrene	0.034	J F1	1.54	2.35	F1	mg/Kg	☼	150	46 - 114
1,2,4-Trichlorobenzene	<0.19		1.54	1.55		mg/Kg	☼	100	49 - 110
2,4,5-Trichlorophenol	<0.38		1.54	1.57		mg/Kg	☼	102	41 - 120
2,4,6-Trichlorophenol	<0.38		1.54	1.45		mg/Kg	☼	94	44 - 118

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	87		25 - 119
2-Fluorophenol	84		25 - 110
Nitrobenzene-d5	96		25 - 115
Phenol-d5	86		31 - 110
Terphenyl-d14	172	X	36 - 134
2,4,6-Tribromophenol	96		35 - 137

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

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

**Lab Sample ID: 500-101071-1 MSD**

**Matrix: Solid**

**Analysis Batch: 304481**

**Client Sample ID: 2233V-1-B01 (0-2)**

**Prep Type: Total/NA**

**Prep Batch: 304076**

Analyte	Sample	Sample Qualifier	Spike Added	MSD	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
	Result			Result							
Acenaphthene	<0.038		1.50	1.39		mg/Kg	☼	93	46 - 110	2	30
Acenaphthylene	<0.038		1.50	1.39		mg/Kg	☼	93	49 - 110	3	30
Anthracene	<0.038		1.50	1.33		mg/Kg	☼	89	48 - 118	4	30
Benzo[a]anthracene	<0.038		1.50	1.51		mg/Kg	☼	100	49 - 121	1	30
Benzo[a]pyrene	<0.038		1.50	1.63		mg/Kg	☼	108	53 - 122	2	30
Benzo[b]fluoranthene	0.024	J F1	1.50	1.93	F1	mg/Kg	☼	127	54 - 122	2	30
Benzo[g,h,i]perylene	<0.038		1.50	0.880		mg/Kg	☼	59	52 - 125	4	30
Benzo[k]fluoranthene	<0.038		1.50	1.89		mg/Kg	☼	126	44 - 137	5	30
Bis(2-chloroethoxy)methane	<0.19		1.50	1.39		mg/Kg	☼	93	42 - 110	2	30
Bis(2-chloroethyl)ether	<0.19		1.50	1.32		mg/Kg	☼	88	32 - 110	2	30
Bis(2-ethylhexyl) phthalate	<0.19	F1	1.50	2.31	F1	mg/Kg	☼	154	47 - 133	2	30
4-Bromophenyl phenyl ether	<0.19		1.50	1.50		mg/Kg	☼	100	55 - 113	0	30
Butyl benzyl phthalate	<0.19	F1	1.50	2.60	F1	mg/Kg	☼	173	49 - 121	3	30
Carbazole	<0.19		1.50	1.57		mg/Kg	☼	105	26 - 188	1	30
4-Chloroaniline	<0.77		1.50	1.35		mg/Kg	☼	90	16 - 118	0	30
4-Chloro-3-methylphenol	<0.38		1.50	1.53		mg/Kg	☼	102	52 - 111	0	30
2-Chloronaphthalene	<0.19		1.50	1.36		mg/Kg	☼	91	52 - 114	2	30
2-Chlorophenol	<0.19		1.50	1.43		mg/Kg	☼	95	47 - 114	0	30
4-Chlorophenyl phenyl ether	<0.19		1.50	1.50		mg/Kg	☼	100	53 - 117	1	30
Chrysene	0.020	J	1.50	1.46		mg/Kg	☼	96	45 - 118	3	30
Dibenz(a,h)anthracene	<0.038		1.50	0.953		mg/Kg	☼	63	48 - 134	1	30
Dibenzofuran	<0.19		1.50	1.44		mg/Kg	☼	96	51 - 119	0	30
1,2-Dichlorobenzene	<0.19		1.50	1.32		mg/Kg	☼	88	48 - 110	3	30
1,3-Dichlorobenzene	<0.19		1.50	1.31		mg/Kg	☼	87	44 - 110	3	30
1,4-Dichlorobenzene	<0.19		1.50	1.33		mg/Kg	☼	89	45 - 110	0	30
3,3'-Dichlorobenzidine	<0.19		1.50	1.23		mg/Kg	☼	82	26 - 128	6	30
2,4-Dichlorophenol	<0.38		1.50	1.68		mg/Kg	☼	112	53 - 113	0	30
Diethyl phthalate	<0.19		1.50	1.55		mg/Kg	☼	103	50 - 128	2	30
2,4-Dimethylphenol	<0.38		1.50	1.40		mg/Kg	☼	94	49 - 110	1	30
Dimethyl phthalate	<0.19		1.50	1.48		mg/Kg	☼	99	56 - 113	0	30
Di-n-butyl phthalate	<0.19		1.50	1.47		mg/Kg	☼	98	50 - 128	1	30
4,6-Dinitro-2-methylphenol	<0.77		3.00	0.517	J	mg/Kg	☼	17	10 - 110	9	30
2,4-Dinitrophenol	<0.77		3.00	0.847		mg/Kg	☼	28	10 - 110	1	30
2,4-Dinitrotoluene	<0.19		1.50	1.56		mg/Kg	☼	104	53 - 122	2	30
2,6-Dinitrotoluene	<0.19		1.50	1.49		mg/Kg	☼	99	54 - 117	2	30
Di-n-octyl phthalate	<0.19		1.50	0.877		mg/Kg	☼	58	46 - 138	6	30
Fluoranthene	0.041		1.50	1.32		mg/Kg	☼	85	48 - 128	1	30
Fluorene	<0.038		1.50	1.42		mg/Kg	☼	94	47 - 121	1	30
Hexachlorobenzene	<0.077		1.50	1.51		mg/Kg	☼	101	54 - 114	2	30
Hexachlorobutadiene	<0.19		1.50	1.51		mg/Kg	☼	101	47 - 114	1	30
Hexachlorocyclopentadiene	<0.77		1.50	0.315	J	mg/Kg	☼	21	10 - 110	0	30
Hexachloroethane	<0.19		1.50	1.27		mg/Kg	☼	84	44 - 110	1	30
Indeno[1,2,3-cd]pyrene	<0.038		1.50	1.03		mg/Kg	☼	69	49 - 132	4	30
Isophorone	<0.19		1.50	1.39		mg/Kg	☼	92	35 - 110	0	30
2-Methylnaphthalene	<0.038		1.50	1.29		mg/Kg	☼	86	48 - 110	2	30
2-Methylphenol	<0.19		1.50	1.44		mg/Kg	☼	96	44 - 110	0	30
3 & 4 Methylphenol	<0.19		1.50	1.38		mg/Kg	☼	92	37 - 122	2	30
Naphthalene	<0.038		1.50	1.37		mg/Kg	☼	91	48 - 110	3	30

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

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

**Lab Sample ID: 500-101071-1 MSD**

**Matrix: Solid**

**Analysis Batch: 304481**

**Client Sample ID: 2233V-1-B01 (0-2)**

**Prep Type: Total/NA**

**Prep Batch: 304076**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
2-Nitroaniline	<0.19		1.50	1.54		mg/Kg	☼	103	42 - 122	0	30
3-Nitroaniline	<0.38		1.50	1.73		mg/Kg	☼	116	36 - 131	3	30
4-Nitroaniline	<0.38		1.50	2.02		mg/Kg	☼	134	28 - 157	7	30
Nitrobenzene	<0.038		1.50	1.53		mg/Kg	☼	102	35 - 113	0	30
2-Nitrophenol	<0.38		1.50	1.53		mg/Kg	☼	102	48 - 113	2	30
4-Nitrophenol	<0.77		3.00	3.96		mg/Kg	☼	132	10 - 157	1	30
N-Nitrosodi-n-propylamine	<0.19		1.50	1.40		mg/Kg	☼	93	24 - 123	0	30
N-Nitrosodiphenylamine	<0.19		3.00	2.77		mg/Kg	☼	92	52 - 111	0	30
2,2'-oxybis[1-chloropropane]	<0.19		1.50	0.979		mg/Kg	☼	65	30 - 115	2	30
Pentachlorophenol	<0.77	F1	3.00	<0.75	F1	mg/Kg	☼	0	10 - 124	NC	30
Phenanthrene	0.019	J	1.50	1.41		mg/Kg	☼	92	48 - 121	0	30
Phenol	<0.19		1.50	1.38		mg/Kg	☼	92	41 - 110	1	30
Pyrene	0.034	J F1	1.50	2.39	F1	mg/Kg	☼	157	46 - 114	2	30
1,2,4-Trichlorobenzene	<0.19		1.50	1.52		mg/Kg	☼	101	49 - 110	2	30
2,4,5-Trichlorophenol	<0.38		1.50	1.60		mg/Kg	☼	106	41 - 120	2	30
2,4,6-Trichlorophenol	<0.38		1.50	1.47		mg/Kg	☼	98	44 - 118	2	30

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	89		25 - 119
2-Fluorophenol	86		25 - 110
Nitrobenzene-d5	98		25 - 115
Phenol-d5	89		31 - 110
Terphenyl-d14	179	X	36 - 134
2,4,6-Tribromophenol	102		35 - 137

## Method: 6010B - Metals (ICP)

**Lab Sample ID: LCS 500-304422/2-A**

**Matrix: Solid**

**Analysis Batch: 304648**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 304422**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.
		Result	Qualifier				Limits
Arsenic	0.100	0.0974		mg/L		97	80 - 120
Barium	0.500	0.511		mg/L		102	80 - 120
Beryllium	0.0500	0.0526		mg/L		105	80 - 120
Cadmium	0.0500	0.0508		mg/L		102	80 - 120
Chromium	0.200	0.208		mg/L		104	80 - 120
Cobalt	0.500	0.524		mg/L		105	80 - 120
Copper	0.250	0.260		mg/L		104	80 - 120
Iron	1.00	1.07		mg/L		107	80 - 120
Lead	0.100	0.104		mg/L		104	80 - 120
Magnesium	10.0	10.3		mg/L		103	80 - 120
Calcium	10.0	10.3		mg/L		103	80 - 120
Manganese	0.500	0.537		mg/L		107	80 - 120
Nickel	0.500	0.507		mg/L		101	80 - 120
Selenium	0.100	0.0976		mg/L		98	80 - 120
Silver	0.0500	0.0513		mg/L		103	80 - 120
Vanadium	0.500	0.530		mg/L		106	80 - 120

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

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

**Lab Sample ID: LCS 500-304422/2-A**  
**Matrix: Solid**  
**Analysis Batch: 304648**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 304422**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Zinc	0.500	0.522		mg/L		104	80 - 120
Potassium	10.0	9.52		mg/L		95	80 - 120

**Lab Sample ID: MB 500-304506/1-A**  
**Matrix: Solid**  
**Analysis Batch: 304636**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 304506**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.0		2.0	0.42	mg/Kg		09/16/15 12:00	09/16/15 17:12	1
Arsenic	<1.0		1.0	0.46	mg/Kg		09/16/15 12:00	09/16/15 17:12	1
Barium	<1.0		1.0	0.18	mg/Kg		09/16/15 12:00	09/16/15 17:12	1
Beryllium	<0.40		0.40	0.087	mg/Kg		09/16/15 12:00	09/16/15 17:12	1
Cadmium	0.0969	J	0.20	0.058	mg/Kg		09/16/15 12:00	09/16/15 17:12	1
Chromium	<1.0		1.0	0.17	mg/Kg		09/16/15 12:00	09/16/15 17:12	1
Cobalt	<0.50		0.50	0.11	mg/Kg		09/16/15 12:00	09/16/15 17:12	1
Copper	<1.0		1.0	0.22	mg/Kg		09/16/15 12:00	09/16/15 17:12	1
Iron	17.2	J	20	7.7	mg/Kg		09/16/15 12:00	09/16/15 17:12	1
Lead	<0.50		0.50	0.25	mg/Kg		09/16/15 12:00	09/16/15 17:12	1
Magnesium	<10		10	4.1	mg/Kg		09/16/15 12:00	09/16/15 17:12	1
Calcium	<20		20	6.4	mg/Kg		09/16/15 12:00	09/16/15 17:12	1
Manganese	<1.0		1.0	0.20	mg/Kg		09/16/15 12:00	09/16/15 17:12	1
Nickel	<1.0		1.0	0.27	mg/Kg		09/16/15 12:00	09/16/15 17:12	1
Selenium	<1.0		1.0	0.50	mg/Kg		09/16/15 12:00	09/16/15 17:12	1
Silver	<0.50		0.50	0.12	mg/Kg		09/16/15 12:00	09/16/15 17:12	1
Thallium	<1.0		1.0	0.49	mg/Kg		09/16/15 12:00	09/16/15 17:12	1
Vanadium	<0.50		0.50	0.15	mg/Kg		09/16/15 12:00	09/16/15 17:12	1
Potassium	<50		50	8.2	mg/Kg		09/16/15 12:00	09/16/15 17:12	1
Sodium	<100		100	13	mg/Kg		09/16/15 12:00	09/16/15 17:12	1

**Lab Sample ID: MB 500-304506/1-A**  
**Matrix: Solid**  
**Analysis Batch: 304825**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 304506**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	0.683	J	2.0	0.63	mg/Kg		09/16/15 12:00	09/17/15 17:59	1

**Lab Sample ID: LCS 500-304506/2-A**  
**Matrix: Solid**  
**Analysis Batch: 304636**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 304506**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	44.8		mg/Kg		90	80 - 120
Arsenic	10.0	9.44		mg/Kg		94	80 - 120
Barium	200	198		mg/Kg		99	80 - 120
Beryllium	5.00	4.86		mg/Kg		97	80 - 120
Cadmium	5.00	4.67		mg/Kg		93	80 - 120
Chromium	20.0	19.2		mg/Kg		96	80 - 120
Cobalt	50.0	48.9		mg/Kg		98	80 - 120
Copper	25.0	24.5		mg/Kg		98	80 - 120

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

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

**Lab Sample ID: LCS 500-304506/2-A**  
**Matrix: Solid**  
**Analysis Batch: 304636**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 304506**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Iron	100	114		mg/Kg		114	80 - 120
Lead	10.0	9.08		mg/Kg		91	80 - 120
Magnesium	1000	976		mg/Kg		98	80 - 120
Calcium	1000	919		mg/Kg		92	80 - 120
Manganese	50.0	48.7		mg/Kg		97	80 - 120
Nickel	50.0	47.2		mg/Kg		94	80 - 120
Selenium	10.0	8.10		mg/Kg		81	80 - 120
Silver	5.00	4.60		mg/Kg		92	80 - 120
Thallium	5.00	4.03		mg/Kg		81	80 - 120
Vanadium	50.0	48.8		mg/Kg		98	80 - 120
Potassium	1000	1070		mg/Kg		107	80 - 120
Sodium	1000	1130		mg/Kg		113	80 - 120

**Lab Sample ID: LCS 500-304506/2-A**  
**Matrix: Solid**  
**Analysis Batch: 304825**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 304506**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Zinc	50.0	49.5		mg/Kg		99	80 - 120

**Lab Sample ID: 500-101071-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 304636**

**Client Sample ID: 2233V-1-B01 (0-2)**  
**Prep Type: Total/NA**  
**Prep Batch: 304506**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	0.43	J F1	28.0	5.86	F1	mg/Kg	☼	19	75 - 125
Arsenic	7.4	F1	5.60	11.2	F1	mg/Kg	☼	68	75 - 125
Barium	87	F1	112	157	F1	mg/Kg	☼	62	75 - 125
Beryllium	0.71		2.80	3.04		mg/Kg	☼	83	75 - 125
Cadmium	0.30	B F1	2.80	2.23	F1	mg/Kg	☼	69	75 - 125
Chromium	14		11.2	24.0		mg/Kg	☼	88	75 - 125
Cobalt	11		28.0	38.1		mg/Kg	☼	97	75 - 125
Copper	24	F1	14.0	31.9	F1	mg/Kg	☼	55	75 - 125
Iron	22000	B	56.0	23900	4	mg/Kg	☼	3978	75 - 125
Lead	30		5.60	35.6	4	mg/Kg	☼	102	75 - 125
Magnesium	7200	F2	560	5950	4	mg/Kg	☼	-217	75 - 125
Calcium	12000		560	8200	4	mg/Kg	☼	-702	75 - 125
Manganese	580		28.0	495	4	mg/Kg	☼	-300	75 - 125
Nickel	28		28.0	54.4		mg/Kg	☼	93	75 - 125
Selenium	<0.58	F1	5.60	3.29	F1	mg/Kg	☼	59	75 - 125
Silver	<0.29	F1	2.80	1.87	F1	mg/Kg	☼	67	75 - 125
Thallium	<0.58	F1	2.80	2.04	F1	mg/Kg	☼	73	75 - 125
Vanadium	22		28.0	46.0		mg/Kg	☼	87	75 - 125
Potassium	1100	F1	560	2070	F1	mg/Kg	☼	167	75 - 125
Sodium	3500		560	4150	4	mg/Kg	☼	114	75 - 125

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

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

**Lab Sample ID: 500-101071-1 MS**

**Matrix: Solid**  
**Analysis Batch: 304825**

**Client Sample ID: 2233V-1-B01 (0-2)**

**Prep Type: Total/NA**  
**Prep Batch: 304506**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Zinc	62	F1 B	28.0	80.3	F1	mg/Kg	☼	65	75 - 125

**Lab Sample ID: 500-101071-1 MSD**

**Matrix: Solid**  
**Analysis Batch: 304636**

**Client Sample ID: 2233V-1-B01 (0-2)**

**Prep Type: Total/NA**  
**Prep Batch: 304506**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Antimony	0.43	J F1	28.9	6.15	F1	mg/Kg	☼	20	75 - 125	5	20
Arsenic	7.4	F1	5.77	11.0	F1	mg/Kg	☼	62	75 - 125	2	20
Barium	87	F1	115	164	F1	mg/Kg	☼	66	75 - 125	4	20
Beryllium	0.71		2.89	3.10		mg/Kg	☼	83	75 - 125	2	20
Cadmium	0.30	B F1	2.89	2.32	F1	mg/Kg	☼	70	75 - 125	4	20
Chromium	14		11.5	25.1		mg/Kg	☼	95	75 - 125	4	20
Cobalt	11		28.9	39.4		mg/Kg	☼	99	75 - 125	3	20
Copper	24	F1	14.4	32.2	F1	mg/Kg	☼	56	75 - 125	1	20
Iron	22000	B	57.7	25300	4	mg/Kg	☼	6228	75 - 125	6	20
Lead	30		5.77	37.8	4	mg/Kg	☼	137	75 - 125	6	20
Magnesium	7200	F2	577	7480	4 F2	mg/Kg	☼	53	75 - 125	23	20
Calcium	12000		577	9760	4	mg/Kg	☼	-411	75 - 125	17	20
Manganese	580		28.9	600	4	mg/Kg	☼	69	75 - 125	19	20
Nickel	28		28.9	57.1		mg/Kg	☼	100	75 - 125	5	20
Selenium	<0.58	F1	5.77	3.56	F1	mg/Kg	☼	62	75 - 125	8	20
Silver	<0.29	F1	2.89	2.00	F1	mg/Kg	☼	69	75 - 125	7	20
Thallium	<0.58	F1	2.89	2.22		mg/Kg	☼	77	75 - 125	8	20
Vanadium	22		28.9	47.9		mg/Kg	☼	91	75 - 125	4	20
Potassium	1100	F1	577	1950	F1	mg/Kg	☼	141	75 - 125	6	20
Sodium	3500		577	4120	4	mg/Kg	☼	106	75 - 125	1	20

**Lab Sample ID: 500-101071-1 MSD**

**Matrix: Solid**  
**Analysis Batch: 304825**

**Client Sample ID: 2233V-1-B01 (0-2)**

**Prep Type: Total/NA**  
**Prep Batch: 304506**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Zinc	62	F1 B	28.9	81.2	F1	mg/Kg	☼	66	75 - 125	1	20

**Lab Sample ID: 500-101071-1 DU**

**Matrix: Solid**  
**Analysis Batch: 304636**

**Client Sample ID: 2233V-1-B01 (0-2)**

**Prep Type: Total/NA**  
**Prep Batch: 304506**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Antimony	0.43	J F1	0.442	J	mg/Kg	☼	2	20
Arsenic	7.4	F1	7.96		mg/Kg	☼	8	20
Barium	87	F1	70.3	F3	mg/Kg	☼	21	20
Beryllium	0.71		0.766		mg/Kg	☼	7	20
Cadmium	0.30	B F1	0.270		mg/Kg	☼	9	20
Chromium	14		14.9		mg/Kg	☼	6	20
Cobalt	11		10.3		mg/Kg	☼	6	20
Copper	24	F1	22.5		mg/Kg	☼	7	20
Iron	22000	B	26700	F3	mg/Kg	☼	21	20

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

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

**Lab Sample ID: 500-101071-1 DU**  
**Matrix: Solid**  
**Analysis Batch: 304636**

**Client Sample ID: 2233V-1-B01 (0-2)**  
**Prep Type: Total/NA**  
**Prep Batch: 304506**

Analyte	Sample	Sample	DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Lead	30		38.0	F3	mg/Kg	☼	24	20
Magnesium	7200	F2	5800	F3	mg/Kg	☼	21	20
Calcium	12000		8960	F3	mg/Kg	☼	30	20
Manganese	580		461	F3	mg/Kg	☼	23	20
Nickel	28		27.6		mg/Kg	☼	2	20
Selenium	<0.58	F1	0.297	J	mg/Kg	☼	NC	20
Silver	<0.29	F1	<0.29		mg/Kg	☼	NC	20
Thallium	<0.58	F1	<0.58		mg/Kg	☼	NC	20
Vanadium	22		23.7		mg/Kg	☼	9	20
Potassium	1100	F1	1180		mg/Kg	☼	4	20
Sodium	3500		3640		mg/Kg	☼	4	20

**Lab Sample ID: 500-101071-1 DU**  
**Matrix: Solid**  
**Analysis Batch: 304825**

**Client Sample ID: 2233V-1-B01 (0-2)**  
**Prep Type: Total/NA**  
**Prep Batch: 304506**

Analyte	Sample	Sample	DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Zinc	62	F1 B	93.8	F3	mg/Kg	☼	40	20

**Lab Sample ID: MB 500-304597/1-A**  
**Matrix: Solid**  
**Analysis Batch: 304831**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 304597**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<2.0		2.0	0.42	mg/Kg		09/16/15 20:33	09/17/15 15:48	1
Arsenic	<1.0		1.0	0.46	mg/Kg		09/16/15 20:33	09/17/15 15:48	1
Barium	<1.0		1.0	0.18	mg/Kg		09/16/15 20:33	09/17/15 15:48	1
Beryllium	<0.40		0.40	0.087	mg/Kg		09/16/15 20:33	09/17/15 15:48	1
Cadmium	<0.20		0.20	0.058	mg/Kg		09/16/15 20:33	09/17/15 15:48	1
Chromium	<1.0		1.0	0.17	mg/Kg		09/16/15 20:33	09/17/15 15:48	1
Cobalt	<0.50		0.50	0.11	mg/Kg		09/16/15 20:33	09/17/15 15:48	1
Copper	<1.0		1.0	0.22	mg/Kg		09/16/15 20:33	09/17/15 15:48	1
Iron	<20		20	7.7	mg/Kg		09/16/15 20:33	09/17/15 15:48	1
Lead	<0.50		0.50	0.25	mg/Kg		09/16/15 20:33	09/17/15 15:48	1
Magnesium	<10		10	4.1	mg/Kg		09/16/15 20:33	09/17/15 15:48	1
Calcium	<20		20	6.4	mg/Kg		09/16/15 20:33	09/17/15 15:48	1
Manganese	<1.0		1.0	0.20	mg/Kg		09/16/15 20:33	09/17/15 15:48	1
Nickel	<1.0		1.0	0.27	mg/Kg		09/16/15 20:33	09/17/15 15:48	1
Selenium	<1.0		1.0	0.50	mg/Kg		09/16/15 20:33	09/17/15 15:48	1
Silver	<0.50		0.50	0.12	mg/Kg		09/16/15 20:33	09/17/15 15:48	1
Thallium	<1.0		1.0	0.49	mg/Kg		09/16/15 20:33	09/17/15 15:48	1
Vanadium	<0.50		0.50	0.15	mg/Kg		09/16/15 20:33	09/17/15 15:48	1
Zinc	<2.0		2.0	0.63	mg/Kg		09/16/15 20:33	09/17/15 15:48	1
Potassium	<50		50	8.2	mg/Kg		09/16/15 20:33	09/17/15 15:48	1
Sodium	<100		100	13	mg/Kg		09/16/15 20:33	09/17/15 15:48	1

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

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

**Lab Sample ID: LCS 500-304597/2-A**  
**Matrix: Solid**  
**Analysis Batch: 304831**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 304597**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	50.0	48.1		mg/Kg		96	80 - 120
Arsenic	10.0	9.59		mg/Kg		96	80 - 120
Barium	200	201		mg/Kg		101	80 - 120
Beryllium	5.00	4.59		mg/Kg		92	80 - 120
Cadmium	5.00	4.79		mg/Kg		96	80 - 120
Chromium	20.0	19.4		mg/Kg		97	80 - 120
Cobalt	50.0	48.9		mg/Kg		98	80 - 120
Copper	25.0	25.0		mg/Kg		100	80 - 120
Iron	100	95.1		mg/Kg		95	80 - 120
Lead	10.0	9.15		mg/Kg		91	80 - 120
Magnesium	1000	968		mg/Kg		97	80 - 120
Calcium	1000	955		mg/Kg		96	80 - 120
Manganese	50.0	47.3		mg/Kg		95	80 - 120
Nickel	50.0	47.4		mg/Kg		95	80 - 120
Selenium	10.0	8.68		mg/Kg		87	80 - 120
Silver	5.00	4.89		mg/Kg		98	80 - 120
Thallium	5.00	4.67		mg/Kg		93	80 - 120
Vanadium	50.0	47.5		mg/Kg		95	80 - 120
Zinc	50.0	45.3		mg/Kg		91	80 - 120
Potassium	1000	1050		mg/Kg		105	80 - 120
Sodium	1000	995		mg/Kg		99	80 - 120

**Lab Sample ID: LCS 500-304614/2-A**  
**Matrix: Solid**  
**Analysis Batch: 304829**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 304614**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.100	0.0945		mg/L		95	80 - 120
Barium	0.500	0.514		mg/L		103	80 - 120
Beryllium	0.0500	0.0508		mg/L		102	80 - 120
Cadmium	0.0500	0.0477		mg/L		95	80 - 120
Cobalt	0.500	0.500		mg/L		100	80 - 120
Iron	1.00	1.06		mg/L		106	80 - 120
Lead	0.100	0.0966		mg/L		97	80 - 120
Magnesium	10.0	10.1		mg/L		101	80 - 120
Calcium	10.0	9.82		mg/L		98	80 - 120
Manganese	0.500	0.510		mg/L		102	80 - 120
Nickel	0.500	0.494		mg/L		99	80 - 120
Selenium	0.100	0.0846		mg/L		85	80 - 120
Zinc	0.500	0.478		mg/L		96	80 - 120
Potassium	10.0	10.7		mg/L		107	80 - 120

**Lab Sample ID: LCS 500-304614/2-A**  
**Matrix: Solid**  
**Analysis Batch: 304995**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 304614**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Chromium	0.200	0.202		mg/L		101	80 - 120

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

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

**Lab Sample ID: LCS 500-304614/2-A**  
**Matrix: Solid**  
**Analysis Batch: 304995**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 304614**  
**%Rec.**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Copper	0.250	0.259		mg/L		104	80 - 120
Silver	0.0500	0.0513		mg/L		103	80 - 120
Vanadium	0.500	0.528		mg/L		106	80 - 120

**Lab Sample ID: LCS 500-304898/3-A**  
**Matrix: Solid**  
**Analysis Batch: 304995**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 304898**  
**%Rec.**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.100	0.0975		mg/L		98	80 - 120
Barium	0.500	0.510		mg/L		102	80 - 120
Beryllium	0.0500	0.0535		mg/L		107	80 - 120
Cadmium	0.0500	0.0490		mg/L		98	80 - 120
Chromium	0.200	0.209		mg/L		105	80 - 120
Cobalt	0.500	0.524		mg/L		105	80 - 120
Copper	0.250	0.259		mg/L		104	80 - 120
Iron	1.00	1.02		mg/L		102	80 - 120
Lead	0.100	0.104		mg/L		104	80 - 120
Magnesium	10.0	10.4		mg/L		104	80 - 120
Calcium	10.0	10.4		mg/L		104	80 - 120
Manganese	0.500	0.555		mg/L		111	80 - 120
Nickel	0.500	0.488		mg/L		98	80 - 120
Selenium	0.100	0.0979		mg/L		98	80 - 120
Silver	0.0500	0.0502		mg/L		100	80 - 120
Vanadium	0.500	0.546		mg/L		109	80 - 120
Zinc	0.500	0.530		mg/L		106	80 - 120
Potassium	10.0	9.21		mg/L		92	80 - 120

**Lab Sample ID: LCS 500-304900/2-A**  
**Matrix: Solid**  
**Analysis Batch: 304995**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 304900**  
**%Rec.**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.100	0.102		mg/L		102	80 - 120
Barium	0.500	0.527		mg/L		105	80 - 120
Beryllium	0.0500	0.0553		mg/L		111	80 - 120
Cadmium	0.0500	0.0513		mg/L		103	80 - 120
Chromium	0.200	0.216		mg/L		108	80 - 120
Cobalt	0.500	0.536		mg/L		107	80 - 120
Copper	0.250	0.267		mg/L		107	80 - 120
Iron	1.00	1.08		mg/L		108	80 - 120
Lead	0.100	0.108		mg/L		108	80 - 120
Magnesium	10.0	10.6		mg/L		106	80 - 120
Calcium	10.0	10.6		mg/L		106	80 - 120
Manganese	0.500	0.567		mg/L		113	80 - 120
Nickel	0.500	0.511		mg/L		102	80 - 120
Selenium	0.100	0.100		mg/L		100	80 - 120
Silver	0.0500	0.0517		mg/L		103	80 - 120
Vanadium	0.500	0.558		mg/L		112	80 - 120

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

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

**Lab Sample ID: LCS 500-304900/2-A**  
**Matrix: Solid**  
**Analysis Batch: 304995**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 304900**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Zinc	0.500	0.539		mg/L		108	80 - 120
Potassium	10.0	9.52		mg/L		95	80 - 120

**Lab Sample ID: LB 500-304750/1-B**  
**Matrix: Solid**  
**Analysis Batch: 304995**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 304898**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/18/15 09:30	09/18/15 19:01	1
Barium	<0.50		0.50	0.050	mg/L		09/18/15 09:30	09/18/15 19:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/18/15 09:30	09/18/15 19:01	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/18/15 09:30	09/18/15 19:01	1
Chromium	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 19:01	1
Cobalt	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 19:01	1
Copper	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 19:01	1
Iron	<0.20		0.20	0.20	mg/L		09/18/15 09:30	09/18/15 19:01	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/18/15 09:30	09/18/15 19:01	1
Magnesium	<2.5		2.5	0.50	mg/L		09/18/15 09:30	09/18/15 19:01	1
Calcium	<2.5		2.5	0.50	mg/L		09/18/15 09:30	09/18/15 19:01	1
Manganese	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 19:01	1
Nickel	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 19:01	1
Selenium	<0.050		0.050	0.020	mg/L		09/18/15 09:30	09/18/15 19:01	1
Silver	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 19:01	1
Vanadium	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 19:01	1
Zinc	<0.10		0.10	0.020	mg/L		09/18/15 09:30	09/18/15 19:01	1
Potassium	<2.5		2.5	0.50	mg/L		09/18/15 09:30	09/18/15 19:01	1

**Lab Sample ID: LB2 500-304752/1-B**  
**Matrix: Solid**  
**Analysis Batch: 304995**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 304898**

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/18/15 09:30	09/18/15 19:08	1
Barium	<0.50		0.50	0.050	mg/L		09/18/15 09:30	09/18/15 19:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/18/15 09:30	09/18/15 19:08	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/18/15 09:30	09/18/15 19:08	1
Chromium	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 19:08	1
Cobalt	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 19:08	1
Copper	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 19:08	1
Iron	<0.20		0.20	0.20	mg/L		09/18/15 09:30	09/18/15 19:08	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/18/15 09:30	09/18/15 19:08	1
Magnesium	<2.5		2.5	0.50	mg/L		09/18/15 09:30	09/18/15 19:08	1
Calcium	<2.5		2.5	0.50	mg/L		09/18/15 09:30	09/18/15 19:08	1
Manganese	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 19:08	1
Nickel	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 19:08	1
Selenium	<0.050		0.050	0.020	mg/L		09/18/15 09:30	09/18/15 19:08	1
Silver	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 19:08	1
Vanadium	<0.025		0.025	0.010	mg/L		09/18/15 09:30	09/18/15 19:08	1
Zinc	0.0916	J	0.10	0.020	mg/L		09/18/15 09:30	09/18/15 19:08	1

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

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

**Lab Sample ID: LB2 500-304752/1-B**  
**Matrix: Solid**  
**Analysis Batch: 304995**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 304898**

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	<2.5		2.5	0.50	mg/L		09/18/15 09:30	09/18/15 19:08	1

**Lab Sample ID: 500-101071-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 304995**

**Client Sample ID: 2233V-1-B01 (0-2)**  
**Prep Type: TCLP**  
**Prep Batch: 304898**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	<0.050		0.100	0.114		mg/L		114	50 - 150
Barium	0.41	J	0.500	0.932		mg/L		104	50 - 150
Beryllium	<0.0040		0.0500	0.0564		mg/L		113	50 - 150
Cadmium	<0.0050		0.0500	0.0512		mg/L		102	50 - 150
Chromium	<0.025		0.200	0.212		mg/L		106	50 - 150
Cobalt	<0.025		0.500	0.524		mg/L		105	50 - 150
Copper	<0.025		0.250	0.285		mg/L		114	50 - 150
Iron	<0.20		1.00	1.17		mg/L		117	50 - 150
Lead	<0.0075		0.100	0.105		mg/L		105	50 - 150
Magnesium	92		10.0	106	4	mg/L		136	50 - 150
Calcium	220		10.0	238	4	mg/L		171	50 - 150
Manganese	0.67		0.500	1.25		mg/L		117	50 - 150
Nickel	<0.025		0.500	0.490		mg/L		98	50 - 150
Selenium	<0.050		0.100	0.118		mg/L		118	50 - 150
Silver	<0.025		0.0500	0.0564		mg/L		113	50 - 150
Vanadium	<0.025		0.500	0.575		mg/L		115	50 - 150
Zinc	<0.10		0.500	0.551		mg/L		110	50 - 150
Potassium	0.85	J F1	10.0	20.4	F1	mg/L		196	50 - 150

**Lab Sample ID: 500-101071-1 DU**  
**Matrix: Solid**  
**Analysis Batch: 304995**

**Client Sample ID: 2233V-1-B01 (0-2)**  
**Prep Type: TCLP**  
**Prep Batch: 304898**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	<0.050		<0.050		mg/L		NC	20
Barium	0.41	J	0.399	J	mg/L		3	20
Beryllium	<0.0040		<0.0040		mg/L		NC	20
Cadmium	<0.0050		<0.0050		mg/L		NC	20
Chromium	<0.025		<0.025		mg/L		NC	20
Cobalt	<0.025		<0.025		mg/L		NC	20
Copper	<0.025		<0.025		mg/L		NC	20
Iron	<0.20		<0.20		mg/L		NC	20
Lead	<0.0075		<0.0075		mg/L		NC	20
Magnesium	92		89.1		mg/L		4	20
Calcium	220		212		mg/L		4	20
Manganese	0.67		0.643		mg/L		3	20
Nickel	<0.025		<0.025		mg/L		NC	20
Selenium	<0.050		<0.050		mg/L		NC	20
Silver	<0.025		<0.025		mg/L		NC	20
Vanadium	<0.025		<0.025		mg/L		NC	20
Zinc	<0.10		<0.10		mg/L		NC	20
Potassium	0.85	J F1	0.824	J	mg/L		3	20

TestAmerica Chicago



# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Lab Sample ID: LB 500-304753/1-B**  
**Matrix: Solid**  
**Analysis Batch: 304995**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 304900**

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.050		0.050	0.010	mg/L		09/18/15 11:00	09/18/15 22:31	1
Barium	<0.50		0.50	0.050	mg/L		09/18/15 11:00	09/18/15 22:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/18/15 11:00	09/18/15 22:31	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/18/15 11:00	09/18/15 22:31	1
Chromium	<0.025		0.025	0.010	mg/L		09/18/15 11:00	09/18/15 22:31	1
Cobalt	<0.025		0.025	0.010	mg/L		09/18/15 11:00	09/18/15 22:31	1
Copper	<0.025		0.025	0.010	mg/L		09/18/15 11:00	09/18/15 22:31	1
Iron	<0.20		0.20	0.20	mg/L		09/18/15 11:00	09/18/15 22:31	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/18/15 11:00	09/18/15 22:31	1
Magnesium	<2.5		2.5	0.50	mg/L		09/18/15 11:00	09/18/15 22:31	1
Calcium	<2.5		2.5	0.50	mg/L		09/18/15 11:00	09/18/15 22:31	1
Manganese	<0.025		0.025	0.010	mg/L		09/18/15 11:00	09/18/15 22:31	1
Nickel	<0.025		0.025	0.010	mg/L		09/18/15 11:00	09/18/15 22:31	1
Selenium	<0.050		0.050	0.020	mg/L		09/18/15 11:00	09/18/15 22:31	1
Silver	<0.025		0.025	0.010	mg/L		09/18/15 11:00	09/18/15 22:31	1
Vanadium	<0.025		0.025	0.010	mg/L		09/18/15 11:00	09/18/15 22:31	1
Zinc	<0.10		0.10	0.020	mg/L		09/18/15 11:00	09/18/15 22:31	1
Potassium	<2.5		2.5	0.50	mg/L		09/18/15 11:00	09/18/15 22:31	1

**Lab Sample ID: 500-101071-21 MS**  
**Matrix: Solid**  
**Analysis Batch: 304995**

**Client Sample ID: 2233V-1-B20 (0-2)**  
**Prep Type: TCLP**  
**Prep Batch: 304900**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
Arsenic	<0.050		0.100	0.113		mg/L		113	50 - 150
Barium	0.50		0.500	0.955		mg/L		91	50 - 150
Beryllium	<0.0040		0.0500	0.0542		mg/L		108	50 - 150
Cadmium	<0.0050		0.0500	0.0499		mg/L		100	50 - 150
Chromium	<0.025		0.200	0.206		mg/L		103	50 - 150
Cobalt	<0.025		0.500	0.505		mg/L		101	50 - 150
Copper	<0.025		0.250	0.273		mg/L		109	50 - 150
Iron	<0.20		1.00	0.958		mg/L		96	50 - 150
Lead	<0.0075		0.100	0.102		mg/L		102	50 - 150
Magnesium	84		10.0	94.8	4	mg/L		111	50 - 150
Calcium	200		10.0	210	4	mg/L		107	50 - 150
Manganese	0.023	J	0.500	0.561		mg/L		108	50 - 150
Nickel	<0.025		0.500	0.485		mg/L		97	50 - 150
Selenium	<0.050		0.100	0.111		mg/L		111	50 - 150
Silver	<0.025		0.0500	0.0548		mg/L		110	50 - 150
Vanadium	<0.025		0.500	0.552		mg/L		110	50 - 150
Zinc	0.15		0.500	0.572		mg/L		84	50 - 150
Potassium	3.2	F1	10.0	21.5	F1	mg/L		182	50 - 150

**Lab Sample ID: 500-101071-21 DU**  
**Matrix: Solid**  
**Analysis Batch: 304995**

**Client Sample ID: 2233V-1-B20 (0-2)**  
**Prep Type: TCLP**  
**Prep Batch: 304900**

Analyte	Sample Result	Sample Qualifier	DU DU		Unit	D	RPD	Limit
			Result	Qualifier				
Arsenic	<0.050		<0.050		mg/L		NC	20
Barium	0.50		0.512		mg/L		2	20
Beryllium	<0.0040		<0.0040		mg/L		NC	20

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

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

**Lab Sample ID: 500-101071-21 DU**  
**Matrix: Solid**  
**Analysis Batch: 304995**

**Client Sample ID: 2233V-1-B20 (0-2)**  
**Prep Type: TCLP**  
**Prep Batch: 304900**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Cadmium	<0.0050		<0.0050		mg/L		NC	20
Chromium	<0.025		<0.025		mg/L		NC	20
Cobalt	<0.025		<0.025		mg/L		NC	20
Copper	<0.025		<0.025		mg/L		NC	20
Iron	<0.20		<0.20		mg/L		NC	20
Lead	<0.0075		<0.0075		mg/L		NC	20
Magnesium	84		84.3		mg/L		0.7	20
Calcium	200		201		mg/L		1	20
Manganese	0.023	J	0.0234	J	mg/L		0.1	20
Nickel	<0.025		<0.025		mg/L		NC	20
Selenium	<0.050		<0.050		mg/L		NC	20
Silver	<0.025		<0.025		mg/L		NC	20
Vanadium	<0.025		<0.025		mg/L		NC	20
Zinc	0.15		0.153		mg/L		0.8	20
Potassium	3.2	F1	3.33		mg/L		3	20

**Lab Sample ID: LB 500-304209/1-C**  
**Matrix: Solid**  
**Analysis Batch: 304648**

**Client Sample ID: Method Blank**  
**Prep Type: SPLP East**  
**Prep Batch: 304422**

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.050		0.050	0.010	mg/L		09/15/15 17:00	09/16/15 18:49	1
Barium	<0.50		0.50	0.050	mg/L		09/15/15 17:00	09/16/15 18:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/15/15 17:00	09/16/15 18:49	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/15/15 17:00	09/16/15 18:49	1
Chromium	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 18:49	1
Cobalt	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 18:49	1
Copper	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 18:49	1
Iron	<0.20		0.20	0.20	mg/L		09/15/15 17:00	09/16/15 18:49	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/15/15 17:00	09/16/15 18:49	1
Magnesium	<2.5		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 18:49	1
Calcium	<2.5		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 18:49	1
Manganese	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 18:49	1
Nickel	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 18:49	1
Selenium	<0.050		0.050	0.020	mg/L		09/15/15 17:00	09/16/15 18:49	1
Silver	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 18:49	1
Vanadium	<0.025		0.025	0.010	mg/L		09/15/15 17:00	09/16/15 18:49	1
Zinc	<0.10		0.10	0.020	mg/L		09/15/15 17:00	09/16/15 18:49	1
Potassium	<2.5		2.5	0.50	mg/L		09/15/15 17:00	09/16/15 18:49	1

**Lab Sample ID: 500-101071-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 304648**

**Client Sample ID: 2233V-1-B01 (0-2)**  
**Prep Type: SPLP East**  
**Prep Batch: 304422**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
Arsenic	0.095		0.100	0.180		mg/L		85	50 - 150
Barium	0.86		0.500	1.32		mg/L		93	50 - 150
Beryllium	0.0082		0.0500	0.0522		mg/L		88	50 - 150
Cadmium	<0.0050		0.0500	0.0412		mg/L		82	50 - 150

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

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

**Lab Sample ID: 500-101071-1 MS**

**Matrix: Solid**

**Analysis Batch: 304648**

**Client Sample ID: 2233V-1-B01 (0-2)**

**Prep Type: SPLP East**

**Prep Batch: 304422**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
Chromium	0.21		0.200	0.409		mg/L		98	50 - 150
Cobalt	0.051		0.500	0.473		mg/L		84	50 - 150
Copper	0.23		0.250	0.449		mg/L		86	50 - 150
Iron	250		1.00	269	4	mg/L		2207	50 - 150
Lead	0.18		0.100	0.280		mg/L		96	50 - 150
Magnesium	31		10.0	41.8		mg/L		107	50 - 150
Calcium	33	F1	10.0	37.7	F1	mg/L		45	50 - 150
Manganese	2.2		0.500	2.93	4	mg/L		141	50 - 150
Nickel	0.18		0.500	0.604		mg/L		85	50 - 150
Selenium	<0.050		0.100	0.0788		mg/L		79	50 - 150
Silver	<0.025		0.0500	0.0422		mg/L		84	50 - 150
Vanadium	0.35		0.500	0.807		mg/L		91	50 - 150
Zinc	1.9	F1	0.500	1.39	F1	mg/L		-104	50 - 150
Potassium	23		10.0	33.8		mg/L		112	50 - 150

**Lab Sample ID: 500-101071-1 DU**

**Matrix: Solid**

**Analysis Batch: 304648**

**Client Sample ID: 2233V-1-B01 (0-2)**

**Prep Type: SPLP East**

**Prep Batch: 304422**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Arsenic	0.095		0.0778		mg/L		20	20
Barium	0.86		0.697	F5	mg/L		21	20
Beryllium	0.0082		0.00676		mg/L		20	20
Cadmium	<0.0050		<0.0050		mg/L		NC	20
Chromium	0.21		0.175		mg/L		20	20
Cobalt	0.051		0.0416		mg/L		20	20
Copper	0.23		0.190	F3	mg/L		21	20
Iron	250		204		mg/L		19	20
Lead	0.18		0.151		mg/L		19	20
Magnesium	31		25.7		mg/L		19	20
Calcium	33	F1	27.3		mg/L		20	20
Manganese	2.2		1.82		mg/L		20	20
Nickel	0.18		0.146		mg/L		19	20
Selenium	<0.050		<0.050		mg/L		NC	20
Silver	<0.025		<0.025		mg/L		NC	20
Vanadium	0.35		0.288		mg/L		20	20
Zinc	1.9	F1	1.58		mg/L		19	20
Potassium	23		17.9	F3	mg/L		23	20

**Lab Sample ID: LB 500-304407/1-C**

**Matrix: Solid**

**Analysis Batch: 304829**

**Client Sample ID: Method Blank**

**Prep Type: SPLP East**

**Prep Batch: 304614**

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.050		0.050	0.010	mg/L		09/16/15 15:00	09/17/15 21:00	1
Barium	<0.50		0.50	0.050	mg/L		09/16/15 15:00	09/17/15 21:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/16/15 15:00	09/17/15 21:00	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/16/15 15:00	09/17/15 21:00	1
Cobalt	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 21:00	1

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

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

**Lab Sample ID: LB 500-304407/1-C**  
**Matrix: Solid**  
**Analysis Batch: 304829**

**Client Sample ID: Method Blank**  
**Prep Type: SPLP East**  
**Prep Batch: 304614**

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Iron	<0.20		0.20	0.20	mg/L		09/16/15 15:00	09/17/15 21:00	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/16/15 15:00	09/17/15 21:00	1
Magnesium	<2.5		2.5	0.50	mg/L		09/16/15 15:00	09/17/15 21:00	1
Calcium	<2.5		2.5	0.50	mg/L		09/16/15 15:00	09/17/15 21:00	1
Manganese	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 21:00	1
Nickel	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/17/15 21:00	1
Selenium	<0.050		0.050	0.020	mg/L		09/16/15 15:00	09/17/15 21:00	1
Zinc	0.0649	J	0.10	0.020	mg/L		09/16/15 15:00	09/17/15 21:00	1
Potassium	<2.5		2.5	0.50	mg/L		09/16/15 15:00	09/17/15 21:00	1

**Lab Sample ID: LB 500-304407/1-C**  
**Matrix: Solid**  
**Analysis Batch: 304995**

**Client Sample ID: Method Blank**  
**Prep Type: SPLP East**  
**Prep Batch: 304614**

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chromium	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/18/15 13:02	1
Copper	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/18/15 13:02	1
Silver	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/18/15 13:02	1
Vanadium	<0.025		0.025	0.010	mg/L		09/16/15 15:00	09/18/15 13:02	1

**Lab Sample ID: 500-101071-19 MS**  
**Matrix: Solid**  
**Analysis Batch: 304829**

**Client Sample ID: 2233V-1-B18 (0-2)**  
**Prep Type: SPLP East**  
**Prep Batch: 304614**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
Arsenic	0.031	J	0.100	0.153		mg/L		122	50 - 150
Barium	0.38	J	0.500	0.892		mg/L		103	50 - 150
Beryllium	<0.0040		0.0500	0.0509		mg/L		102	50 - 150
Cadmium	0.0023	J	0.0500	0.0426		mg/L		81	50 - 150
Cobalt	0.021	J	0.500	0.509		mg/L		98	50 - 150
Iron	80		1.00	181	4	mg/L		10067	50 - 150
Magnesium	21	F1	10.0	42.3	F1	mg/L		209	50 - 150
Calcium	40	F1	10.0	45.2		mg/L		56	50 - 150
Manganese	0.42		0.500	1.11		mg/L		138	50 - 150
Nickel	0.088		0.500	0.642		mg/L		111	50 - 150
Potassium	14	F1	10.0	38.5	F1	mg/L		246	50 - 150

**Lab Sample ID: 500-101071-19 MS**  
**Matrix: Solid**  
**Analysis Batch: 304995**

**Client Sample ID: 2233V-1-B18 (0-2)**  
**Prep Type: SPLP East**  
**Prep Batch: 304614**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
Chromium	0.070		0.200	0.336		mg/L		133	50 - 150
Copper	0.12		0.250	0.447		mg/L		131	50 - 150
Lead	0.053		0.100	0.169		mg/L		116	50 - 150
Selenium	<0.050		0.100	0.0869		mg/L		87	50 - 150
Silver	<0.025		0.0500	0.0465		mg/L		93	50 - 150
Vanadium	0.10		0.500	0.670		mg/L		113	50 - 150
Zinc	0.34	B	0.500	1.03		mg/L		138	50 - 150

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Lab Sample ID: 500-101071-19 DU**  
**Matrix: Solid**  
**Analysis Batch: 304829**

**Client Sample ID: 2233V-1-B18 (0-2)**  
**Prep Type: SPLP East**  
**Prep Batch: 304614**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Arsenic	0.031	J	0.0591	F5	mg/L		62	20
Barium	0.38	J	0.417	J	mg/L		10	20
Beryllium	<0.0040		0.00461		mg/L		NC	20
Cadmium	0.0023	J	0.00267	J	mg/L		16	20
Cobalt	0.021	J	0.0350	F5	mg/L		49	20
Iron	80		135	F3	mg/L		51	20
Magnesium	21	F1	27.1	F3	mg/L		24	20
Calcium	40	F1	38.0		mg/L		4	20
Manganese	0.42		0.563	F3	mg/L		28	20
Nickel	0.088		0.143	F3	mg/L		48	20
Potassium	14	F1	19.6	F3	mg/L		34	20

**Lab Sample ID: 500-101071-19 DU**  
**Matrix: Solid**  
**Analysis Batch: 304995**

**Client Sample ID: 2233V-1-B18 (0-2)**  
**Prep Type: SPLP East**  
**Prep Batch: 304614**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Chromium	0.070		0.112	F3	mg/L		46	20
Copper	0.12		0.177	F3	mg/L		39	20
Lead	0.053		0.0708	F3	mg/L		29	20
Selenium	<0.050		<0.050		mg/L		NC	20
Silver	<0.025		<0.025		mg/L		NC	20
Vanadium	0.10		0.150	F3	mg/L		37	20
Zinc	0.34	B	0.500	F3	mg/L		37	20

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

**Lab Sample ID: LCS 500-304422/2-A**  
**Matrix: Solid**  
**Analysis Batch: 304528**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 304422**  
**%Rec.**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Thallium	0.100	0.106		mg/L		106	80 - 120

**Lab Sample ID: LCS 500-304614/2-A**  
**Matrix: Solid**  
**Analysis Batch: 304865**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 304614**  
**%Rec.**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Thallium	0.100	0.112		mg/L		112	80 - 120

**Lab Sample ID: LCS 500-304898/3-A**  
**Matrix: Solid**  
**Analysis Batch: 305112**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 304898**  
**%Rec.**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Thallium	0.100	0.0902		mg/L		90	80 - 120

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

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

**Lab Sample ID: LCS 500-304900/2-A**  
**Matrix: Solid**  
**Analysis Batch: 305093**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 304900**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.500		mg/L		100	80 - 120
Thallium	0.100	0.0796		mg/L		80	80 - 120

**Lab Sample ID: LB 500-304750/1-B**  
**Matrix: Solid**  
**Analysis Batch: 305093**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 304898**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/18/15 09:30	09/18/15 17:21	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/18/15 09:30	09/18/15 17:21	1

**Lab Sample ID: LB2 500-304752/1-B**  
**Matrix: Solid**  
**Analysis Batch: 305093**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 304898**

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/18/15 09:30	09/18/15 17:22	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/18/15 09:30	09/18/15 17:22	1

**Lab Sample ID: 500-101071-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 305093**

**Client Sample ID: 2233V-1-B01 (0-2)**  
**Prep Type: TCLP**  
**Prep Batch: 304898**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	<0.0060		0.500	0.500		mg/L		100	50 - 150
Thallium	<0.0020		0.100	0.0697		mg/L		70	50 - 150

**Lab Sample ID: 500-101071-1 DU**  
**Matrix: Solid**  
**Analysis Batch: 305093**

**Client Sample ID: 2233V-1-B01 (0-2)**  
**Prep Type: TCLP**  
**Prep Batch: 304898**

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

**Lab Sample ID: LB 500-304753/1-B**  
**Matrix: Solid**  
**Analysis Batch: 305093**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 304900**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/18/15 11:00	09/18/15 17:49	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/18/15 11:00	09/18/15 17:49	1

**Lab Sample ID: 500-101071-21 MS**  
**Matrix: Solid**  
**Analysis Batch: 305093**

**Client Sample ID: 2233V-1-B20 (0-2)**  
**Prep Type: TCLP**  
**Prep Batch: 304900**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	<0.0060		0.500	0.495		mg/L		99	50 - 150

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

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

**Lab Sample ID: 500-101071-21 MS**  
**Matrix: Solid**  
**Analysis Batch: 305093**

**Client Sample ID: 2233V-1-B20 (0-2)**  
**Prep Type: TCLP**  
**Prep Batch: 304900**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	<0.0020		0.100	0.0712		mg/L		71	50 - 150

**Lab Sample ID: 500-101071-21 DU**  
**Matrix: Solid**  
**Analysis Batch: 305093**

**Client Sample ID: 2233V-1-B20 (0-2)**  
**Prep Type: TCLP**  
**Prep Batch: 304900**

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

**Lab Sample ID: LB 500-304209/1-C**  
**Matrix: Solid**  
**Analysis Batch: 304528**

**Client Sample ID: Method Blank**  
**Prep Type: SPLP East**  
**Prep Batch: 304422**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/15/15 17:00	09/16/15 11:18	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/15/15 17:00	09/16/15 11:18	1

**Lab Sample ID: 500-101071-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 304528**

**Client Sample ID: 2233V-1-B01 (0-2)**  
**Prep Type: SPLP East**  
**Prep Batch: 304422**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	<0.0060	F1	0.500	0.0534	F1	mg/L		11	50 - 150
Thallium	0.0028		0.100	0.0730		mg/L		70	50 - 150

**Lab Sample ID: 500-101071-1 DU**  
**Matrix: Solid**  
**Analysis Batch: 304528**

**Client Sample ID: 2233V-1-B01 (0-2)**  
**Prep Type: SPLP East**  
**Prep Batch: 304422**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Antimony	<0.0060	F1	<0.0060		mg/L		NC	20
Thallium	0.0028		0.00267		mg/L		6	20

**Lab Sample ID: LB 500-304407/1-C**  
**Matrix: Solid**  
**Analysis Batch: 304865**

**Client Sample ID: Method Blank**  
**Prep Type: SPLP East**  
**Prep Batch: 304614**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		09/16/15 15:00	09/17/15 15:52	1
Thallium	<0.0020		0.0020	0.0020	mg/L		09/16/15 15:00	09/17/15 15:52	1

**Lab Sample ID: 500-101071-19 MS**  
**Matrix: Solid**  
**Analysis Batch: 304865**

**Client Sample ID: 2233V-1-B18 (0-2)**  
**Prep Type: SPLP East**  
**Prep Batch: 304614**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	<0.0060	F1	0.500	0.154	F1	mg/L		31	50 - 150
Thallium	0.0028		0.100	0.108		mg/L		105	50 - 150

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

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

**Lab Sample ID: 500-101071-19 DU**  
**Matrix: Solid**  
**Analysis Batch: 304865**

**Client Sample ID: 2233V-1-B18 (0-2)**  
**Prep Type: SPLP East**  
**Prep Batch: 304614**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Antimony	<0.0060	F1	<0.0060		mg/L		NC	20
Thallium	0.0028		0.00462	F5	mg/L		47	20

## Method: 7470A - TCLP Mercury

**Lab Sample ID: MB 500-304941/12-A**  
**Matrix: Solid**  
**Analysis Batch: 305121**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 304941**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020		0.00020	0.00020	mg/L		09/18/15 15:30	09/21/15 09:00	1

**Lab Sample ID: LCS 500-304941/13-A**  
**Matrix: Solid**  
**Analysis Batch: 305121**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 304941**  
**%Rec.**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits

**Lab Sample ID: MB 500-304944/12-A**  
**Matrix: Solid**  
**Analysis Batch: 305121**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 304944**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020		0.00020	0.00020	mg/L		09/18/15 15:30	09/21/15 09:58	1

**Lab Sample ID: LCS 500-304944/13-A**  
**Matrix: Solid**  
**Analysis Batch: 305121**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 304944**  
**%Rec.**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits

**Lab Sample ID: LB 500-304750/1-C**  
**Matrix: Solid**  
**Analysis Batch: 305121**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 304941**

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020		0.00020	0.00020	mg/L		09/18/15 15:30	09/21/15 09:03	1

**Lab Sample ID: LB2 500-304752/1-C**  
**Matrix: Solid**  
**Analysis Batch: 305121**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 304941**

Analyte	LB2	LB2	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020		0.00020	0.00020	mg/L		09/18/15 15:30	09/21/15 09:05	1

TestAmerica Chicago



# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

## Method: 7470A - TCLP Mercury (Continued)

**Lab Sample ID: 500-101071-2 MS**  
**Matrix: Solid**  
**Analysis Batch: 305121**

**Client Sample ID: 2233V-1-B02 (0-2)**  
**Prep Type: TCLP**  
**Prep Batch: 304941**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00020		0.00100	0.000974		mg/L		97	50 - 150

**Lab Sample ID: 500-101071-2 DU**  
**Matrix: Solid**  
**Analysis Batch: 305121**

**Client Sample ID: 2233V-1-B02 (0-2)**  
**Prep Type: TCLP**  
**Prep Batch: 304941**

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

**Lab Sample ID: LB 500-304753/1-C**  
**Matrix: Solid**  
**Analysis Batch: 305121**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 304944**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/18/15 15:30	09/21/15 10:02	1

**Lab Sample ID: 500-101071-22 MS**  
**Matrix: Solid**  
**Analysis Batch: 305121**

**Client Sample ID: 2233V-1-B20 DUP (0-2)**  
**Prep Type: TCLP**  
**Prep Batch: 304944**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00020		0.00100	0.000966		mg/L		97	50 - 150

**Lab Sample ID: 500-101071-22 DU**  
**Matrix: Solid**  
**Analysis Batch: 305121**

**Client Sample ID: 2233V-1-B20 DUP (0-2)**  
**Prep Type: TCLP**  
**Prep Batch: 304944**

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

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: MB 500-304415/12-A**  
**Matrix: Solid**  
**Analysis Batch: 304527**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 304415**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/15/15 18:30	09/16/15 11:07	1

**Lab Sample ID: LCS 500-304415/13-A**  
**Matrix: Solid**  
**Analysis Batch: 304527**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 304415**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00211		mg/L		106	80 - 120

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

## Method: 7470A - Mercury (CVAA) (Continued)

**Lab Sample ID: MB 500-304586/12-A**  
**Matrix: Solid**  
**Analysis Batch: 304834**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 304586**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/16/15 17:30	09/17/15 18:32	1

**Lab Sample ID: LB 500-304209/1-B**  
**Matrix: Solid**  
**Analysis Batch: 304527**

**Client Sample ID: Method Blank**  
**Prep Type: SPLP East**  
**Prep Batch: 304415**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/15/15 18:30	09/16/15 11:11	1

**Lab Sample ID: 500-101071-2 MS**  
**Matrix: Solid**  
**Analysis Batch: 304527**

**Client Sample ID: 2233V-1-B02 (0-2)**  
**Prep Type: SPLP East**  
**Prep Batch: 304415**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00020		0.00100	0.00143		mg/L		123	50 - 150

**Lab Sample ID: 500-101071-2 DU**  
**Matrix: Solid**  
**Analysis Batch: 304527**

**Client Sample ID: 2233V-1-B02 (0-2)**  
**Prep Type: SPLP East**  
**Prep Batch: 304415**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	0.00020		0.000321	F5	mg/L		46	20

**Lab Sample ID: LB 500-304407/1-B**  
**Matrix: Solid**  
**Analysis Batch: 304834**

**Client Sample ID: Method Blank**  
**Prep Type: SPLP East**  
**Prep Batch: 304586**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		09/16/15 17:30	09/17/15 18:36	1

## Method: 7471B - Mercury (CVAA)

**Lab Sample ID: MB 500-304521/12-A**  
**Matrix: Solid**  
**Analysis Batch: 304697**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 304521**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0058	mg/Kg		09/16/15 15:00	09/17/15 11:17	1

**Lab Sample ID: LCS 500-304521/13-A**  
**Matrix: Solid**  
**Analysis Batch: 304697**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 304521**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.168		mg/Kg		100	80 - 120

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

## Method: 7471B - Mercury (CVAA) (Continued)

**Lab Sample ID: 500-101071-21 MS**

**Matrix: Solid**  
**Analysis Batch: 304697**

**Client Sample ID: 2233V-1-B20 (0-2)**

**Prep Type: Total/NA**  
**Prep Batch: 304521**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	0.044		0.0957	0.144		mg/Kg	☼	104	75 - 125

**Lab Sample ID: 500-101071-21 MSD**

**Matrix: Solid**  
**Analysis Batch: 304697**

**Client Sample ID: 2233V-1-B20 (0-2)**

**Prep Type: Total/NA**  
**Prep Batch: 304521**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.044		0.0965	0.153		mg/Kg	☼	112	75 - 125	5	20

**Lab Sample ID: 500-101071-21 DU**

**Matrix: Solid**  
**Analysis Batch: 304697**

**Client Sample ID: 2233V-1-B20 (0-2)**

**Prep Type: Total/NA**  
**Prep Batch: 304521**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	0.044		0.0474		mg/Kg	☼	6	20

**Lab Sample ID: MB 500-304551/12-A**

**Matrix: Solid**  
**Analysis Batch: 304697**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**  
**Prep Batch: 304551**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0058	mg/Kg		09/16/15 15:00	09/17/15 10:19	1

**Lab Sample ID: LCS 500-304551/13-A**

**Matrix: Solid**  
**Analysis Batch: 304697**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**  
**Prep Batch: 304551**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.163		mg/Kg		98	80 - 120

**Lab Sample ID: 500-101071-1 MS**

**Matrix: Solid**  
**Analysis Batch: 304697**

**Client Sample ID: 2233V-1-B01 (0-2)**

**Prep Type: Total/NA**  
**Prep Batch: 304551**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	0.046		0.0896	0.127		mg/Kg	☼	90	75 - 125

**Lab Sample ID: 500-101071-1 MSD**

**Matrix: Solid**  
**Analysis Batch: 304697**

**Client Sample ID: 2233V-1-B01 (0-2)**

**Prep Type: Total/NA**  
**Prep Batch: 304551**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.046		0.0921	0.141		mg/Kg	☼	103	75 - 125	10	20

**Lab Sample ID: 500-101071-1 DU**

**Matrix: Solid**  
**Analysis Batch: 304697**

**Client Sample ID: 2233V-1-B01 (0-2)**

**Prep Type: Total/NA**  
**Prep Batch: 304551**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	0.046		0.0442		mg/Kg	☼	5	20

TestAmerica Chicago

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

## Method: 9014 - Cyanide

**Lab Sample ID: MB 500-304375/1-A**  
**Matrix: Solid**  
**Analysis Batch: 304433**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 304375**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.50		0.50	0.17	mg/Kg		09/15/15 18:40	09/15/15 21:15	1

**Lab Sample ID: LCS 500-304375/2-A**  
**Matrix: Solid**  
**Analysis Batch: 304433**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 304375**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	5.00	5.53		mg/Kg		111	80 - 120

**Lab Sample ID: MB 500-304543/1-A**  
**Matrix: Solid**  
**Analysis Batch: 304577**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 304543**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.50		0.50	0.17	mg/Kg		09/16/15 14:15	09/16/15 16:50	1

**Lab Sample ID: LCS 500-304543/2-A**  
**Matrix: Solid**  
**Analysis Batch: 304577**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 304543**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	5.00	5.16		mg/Kg		103	80 - 120

**Lab Sample ID: 500-101071-2 MS**  
**Matrix: Solid**  
**Analysis Batch: 304577**

**Client Sample ID: 2233V-1-B02 (0-2)**  
**Prep Type: Total/NA**  
**Prep Batch: 304543**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	<0.60		2.42	2.49		mg/Kg	☼	103	75 - 125

**Lab Sample ID: 500-101071-2 MSD**  
**Matrix: Solid**  
**Analysis Batch: 304577**

**Client Sample ID: 2233V-1-B02 (0-2)**  
**Prep Type: Total/NA**  
**Prep Batch: 304543**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Cyanide, Total	<0.60		2.41	2.34		mg/Kg	☼	97	75 - 125	6	20

**Lab Sample ID: MB 500-304558/1-A**  
**Matrix: Solid**  
**Analysis Batch: 304603**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 304558**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.50		0.50	0.17	mg/Kg		09/16/15 16:30	09/16/15 20:00	1

# QC Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

## Method: 9014 - Cyanide (Continued)

Lab Sample ID: LCS 500-304558/2-A  
 Matrix: Solid  
 Analysis Batch: 304603

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 304558

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	5.00	5.24		mg/Kg		105	80 - 120

Lab Sample ID: 500-101071-20 MS  
 Matrix: Solid  
 Analysis Batch: 304603

Client Sample ID: 2233V-1-B19 (0-2)  
 Prep Type: Total/NA  
 Prep Batch: 304558

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	<0.55		2.22	2.14		mg/Kg	☼	96	75 - 125

Lab Sample ID: 500-101071-20 MSD  
 Matrix: Solid  
 Analysis Batch: 304603

Client Sample ID: 2233V-1-B19 (0-2)  
 Prep Type: Total/NA  
 Prep Batch: 304558

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Cyanide, Total	<0.55		2.22	2.33		mg/Kg	☼	105	75 - 125	8	20

## Method: 9045D - pH

Lab Sample ID: 500-101071-7 DU  
 Matrix: Solid  
 Analysis Batch: 304199

Client Sample ID: 2233V-1-B07 (0-2)  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
pH	7.61		7.590		SU		0.3	

Lab Sample ID: 500-101071-15 DU  
 Matrix: Solid  
 Analysis Batch: 304380

Client Sample ID: 2233V-1-B14 (0-2)  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
pH	8.79		8.740		SU		0.6	

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B01 (0-2)**

**Date Collected: 09/10/15 11:45**

**Date Received: 09/11/15 13:00**

**Lab Sample ID: 500-101071-1**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			304209	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304422	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304648	09/16/15 19:02	PJ1	TAL CHI
TCLP	Leach	1311			304750	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304898	09/18/15 09:30	JML	TAL CHI
TCLP	Analysis	6010B		1	304995	09/18/15 19:22	KML	TAL CHI
SPLP East	Leach	1312			304209	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304422	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304528	09/16/15 11:21	PFK	TAL CHI
TCLP	Leach	1311			304750	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304898	09/18/15 09:30	JML	TAL CHI
TCLP	Analysis	6020A		1	305093	09/18/15 17:24	BJH	TAL CHI
SPLP East	Leach	1312			304209	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	7470A			304415	09/15/15 18:30	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304527	09/16/15 11:13	MJD	TAL CHI
TCLP	Leach	1311			304750	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	7470A			304941	09/18/15 15:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	305121	09/21/15 09:07	MJD	TAL CHI
Total/NA	Analysis	9045D		1	304199		SMO	TAL CHI
					(Start)	09/14/15 15:27		
					(End)	09/14/15 15:29		
Total/NA	Analysis	Moisture		1	303956	09/11/15 16:44	LWN	TAL CHI

**Client Sample ID: 2233V-1-B01 (0-2)**

**Date Collected: 09/10/15 11:45**

**Date Received: 09/11/15 13:00**

**Lab Sample ID: 500-101071-1**

**Matrix: Solid**

**Percent Solids: 83.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			304001	09/11/15 17:00	WRE	TAL CHI
Total/NA	Analysis	8260B		1	304054	09/14/15 19:21	JMP	TAL CHI
Total/NA	Prep	3541			304076	09/14/15 07:43	STW	TAL CHI
Total/NA	Analysis	8270D		1	304481	09/16/15 12:46	BJH	TAL CHI
Total/NA	Prep	3050B			304506	09/16/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	304825	09/17/15 18:15	PJ1	TAL CHI
Total/NA	Prep	3050B			304506	09/16/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	304636	09/16/15 17:20	PJ1	TAL CHI
Total/NA	Prep	7471B			304551	09/16/15 15:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	304697	09/17/15 10:23	MJD	TAL CHI
Total/NA	Prep	9010B			304375	09/15/15 18:40	ELR	TAL CHI
Total/NA	Analysis	9014		1	304433		ELR	TAL CHI
					(Start)	09/15/15 21:19		
					(End)	09/15/15 21:19		

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B02 (0-2)**

**Lab Sample ID: 500-101071-2**

**Date Collected: 09/10/15 11:55**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			304209	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304422	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304648	09/16/15 19:45	PJ1	TAL CHI
TCLP	Leach	1311			304750	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304898	09/18/15 09:30	JML	TAL CHI
TCLP	Analysis	6010B		1	304995	09/18/15 19:49	KML	TAL CHI
SPLP East	Leach	1312			304209	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304422	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304528	09/16/15 11:31	PFK	TAL CHI
TCLP	Leach	1311			304750	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304898	09/18/15 09:30	JML	TAL CHI
TCLP	Analysis	6020A		1	305093	09/18/15 17:27	BJH	TAL CHI
SPLP East	Leach	1312			304209	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	7470A			304415	09/15/15 18:30	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304527	09/16/15 12:02	MJD	TAL CHI
TCLP	Leach	1311			304750	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	7470A			304941	09/18/15 15:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	305121	09/21/15 09:09	MJD	TAL CHI
Total/NA	Analysis	9045D		1	304199		SMO	TAL CHI
					(Start)	09/14/15 15:29		
					(End)	09/14/15 15:32		
Total/NA	Analysis	Moisture		1	303956	09/11/15 16:44	LWN	TAL CHI

**Client Sample ID: 2233V-1-B02 (0-2)**

**Lab Sample ID: 500-101071-2**

**Date Collected: 09/10/15 11:55**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 81.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			304001	09/11/15 17:00	WRE	TAL CHI
Total/NA	Analysis	8260B		1	304054	09/14/15 19:46	JMP	TAL CHI
Total/NA	Prep	3541			304076	09/14/15 07:43	STW	TAL CHI
Total/NA	Analysis	8270D		1	304481	09/16/15 13:13	BJH	TAL CHI
Total/NA	Prep	3050B			304506	09/16/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	304825	09/17/15 18:48	PJ1	TAL CHI
Total/NA	Prep	3050B			304506	09/16/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	304636	09/16/15 17:44	PJ1	TAL CHI
Total/NA	Prep	7471B			304551	09/16/15 15:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	304697	09/17/15 10:31	MJD	TAL CHI
Total/NA	Prep	9010B			304543	09/16/15 14:15	ELR	TAL CHI
Total/NA	Analysis	9014		1	304577		ELR	TAL CHI
					(Start)	09/16/15 16:51		
					(End)	09/16/15 16:52		

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B03 (0-2)**

**Lab Sample ID: 500-101071-3**

**Date Collected: 09/10/15 12:05**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			304209	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304422	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304648	09/16/15 19:52	PJ1	TAL CHI
TCLP	Leach	1311			304750	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304898	09/18/15 09:30	JML	TAL CHI
TCLP	Analysis	6010B		1	304995	09/18/15 20:11	KML	TAL CHI
SPLP East	Leach	1312			304209	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304422	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304528	09/16/15 11:33	PFK	TAL CHI
TCLP	Leach	1311			304750	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304898	09/18/15 09:30	JML	TAL CHI
TCLP	Analysis	6020A		1	305093	09/18/15 17:28	BJH	TAL CHI
SPLP East	Leach	1312			304209	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	7470A			304415	09/15/15 18:30	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304527	09/16/15 11:20	MJD	TAL CHI
TCLP	Leach	1311			304750	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	7470A			304941	09/18/15 15:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	305121	09/21/15 09:15	MJD	TAL CHI
Total/NA	Analysis	9045D		1	304199		SMO	TAL CHI
					(Start)	09/14/15 15:32		
					(End)	09/14/15 15:35		
Total/NA	Analysis	Moisture		1	303956	09/11/15 16:44	LWN	TAL CHI

**Client Sample ID: 2233V-1-B03 (0-2)**

**Lab Sample ID: 500-101071-3**

**Date Collected: 09/10/15 12:05**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 80.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			304001	09/11/15 17:00	WRE	TAL CHI
Total/NA	Analysis	8260B		1	304173	09/14/15 22:58	BDW	TAL CHI
Total/NA	Prep	3541			304076	09/14/15 07:43	STW	TAL CHI
Total/NA	Analysis	8270D		1	304481	09/16/15 13:41	BJH	TAL CHI
Total/NA	Prep	3050B			304506	09/16/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	304825	09/17/15 18:55	PJ1	TAL CHI
Total/NA	Prep	3050B			304506	09/16/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	304636	09/16/15 17:49	PJ1	TAL CHI
Total/NA	Prep	7471B			304551	09/16/15 15:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	304697	09/17/15 10:34	MJD	TAL CHI
Total/NA	Prep	9010B			304543	09/16/15 14:15	ELR	TAL CHI
Total/NA	Analysis	9014		1	304577		ELR	TAL CHI
					(Start)	09/16/15 16:52		
					(End)	09/16/15 16:53		

TestAmerica Chicago



# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B04 (0-2)**

**Lab Sample ID: 500-101071-4**

**Date Collected: 09/10/15 12:15**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			304209	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304422	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304648	09/16/15 19:59	PJ1	TAL CHI
TCLP	Leach	1311			304750	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304898	09/18/15 09:30	JML	TAL CHI
TCLP	Analysis	6010B		1	304995	09/18/15 20:18	KML	TAL CHI
SPLP East	Leach	1312			304209	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304422	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304528	09/16/15 11:35	PFK	TAL CHI
TCLP	Leach	1311			304750	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304898	09/18/15 09:30	JML	TAL CHI
TCLP	Analysis	6020A		1	305093	09/18/15 17:29	BJH	TAL CHI
SPLP East	Leach	1312			304209	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	7470A			304415	09/15/15 18:30	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304527	09/16/15 11:22	MJD	TAL CHI
TCLP	Leach	1311			304750	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	7470A			304941	09/18/15 15:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	305121	09/21/15 09:17	MJD	TAL CHI
Total/NA	Analysis	9045D		1	304199		SMO	TAL CHI
					(Start)	09/14/15 15:34		
					(End)	09/14/15 15:37		
Total/NA	Analysis	Moisture		1	303956	09/11/15 16:44	LWN	TAL CHI

**Client Sample ID: 2233V-1-B04 (0-2)**

**Lab Sample ID: 500-101071-4**

**Date Collected: 09/10/15 12:15**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 80.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			304001	09/11/15 17:00	WRE	TAL CHI
Total/NA	Analysis	8260B		1	304173	09/14/15 23:23	BDW	TAL CHI
Total/NA	Prep	3541			304076	09/14/15 07:43	STW	TAL CHI
Total/NA	Analysis	8270D		1	304662	09/17/15 11:49	BJH	TAL CHI
Total/NA	Prep	3050B			304506	09/16/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	304825	09/17/15 19:02	PJ1	TAL CHI
Total/NA	Prep	3050B			304506	09/16/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	304636	09/16/15 17:54	PJ1	TAL CHI
Total/NA	Prep	7471B			304551	09/16/15 15:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	304697	09/17/15 10:36	MJD	TAL CHI
Total/NA	Prep	9010B			304543	09/16/15 14:15	ELR	TAL CHI
Total/NA	Analysis	9014		1	304577		ELR	TAL CHI
					(Start)	09/16/15 16:53		
					(End)	09/16/15 16:53		

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B05 (0-2)**

**Lab Sample ID: 500-101071-5**

**Date Collected: 09/10/15 12:30**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			304209	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304422	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304648	09/16/15 20:05	PJ1	TAL CHI
TCLP	Leach	1311			304750	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304898	09/18/15 09:30	JML	TAL CHI
TCLP	Analysis	6010B		1	304995	09/18/15 20:25	KML	TAL CHI
SPLP East	Leach	1312			304209	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304422	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304528	09/16/15 11:36	PFK	TAL CHI
TCLP	Leach	1311			304750	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304898	09/18/15 09:30	JML	TAL CHI
TCLP	Analysis	6020A		1	305093	09/18/15 17:32	BJH	TAL CHI
SPLP East	Leach	1312			304209	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	7470A			304415	09/15/15 18:30	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304527	09/16/15 11:24	MJD	TAL CHI
TCLP	Leach	1311			304750	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	7470A			304941	09/18/15 15:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	305121	09/21/15 09:23	MJD	TAL CHI
Total/NA	Analysis	9045D		1	304199		SMO	TAL CHI
					(Start)	09/14/15 15:37		
					(End)	09/14/15 15:40		
Total/NA	Analysis	Moisture		1	303956	09/11/15 16:44	LWN	TAL CHI

**Client Sample ID: 2233V-1-B05 (0-2)**

**Lab Sample ID: 500-101071-5**

**Date Collected: 09/10/15 12:30**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 81.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			304001	09/11/15 17:00	WRE	TAL CHI
Total/NA	Analysis	8260B		1	304173	09/14/15 23:48	BDW	TAL CHI
Total/NA	Prep	3541			304076	09/14/15 07:43	STW	TAL CHI
Total/NA	Analysis	8270D		1	304481	09/16/15 18:47	BJH	TAL CHI
Total/NA	Prep	3050B			304506	09/16/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	304825	09/17/15 19:24	PJ1	TAL CHI
Total/NA	Prep	3050B			304506	09/16/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	304636	09/16/15 18:07	PJ1	TAL CHI
Total/NA	Prep	7471B			304551	09/16/15 15:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	304697	09/17/15 10:37	MJD	TAL CHI
Total/NA	Prep	9010B			304543	09/16/15 14:15	ELR	TAL CHI
Total/NA	Analysis	9014		1	304577		ELR	TAL CHI
					(Start)	09/16/15 16:53		
					(End)	09/16/15 16:53		

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# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B06 (0-2)**

**Lab Sample ID: 500-101071-6**

**Date Collected: 09/10/15 12:45**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			304209	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304422	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304648	09/16/15 20:12	PJ1	TAL CHI
TCLP	Leach	1311			304750	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304898	09/18/15 09:30	JML	TAL CHI
TCLP	Analysis	6010B		1	304995	09/18/15 20:31	KML	TAL CHI
SPLP East	Leach	1312			304209	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304422	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304528	09/16/15 11:38	PFK	TAL CHI
TCLP	Leach	1311			304750	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304898	09/18/15 09:30	JML	TAL CHI
TCLP	Analysis	6020A		1	305093	09/18/15 17:33	BJH	TAL CHI
SPLP East	Leach	1312			304209	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	7470A			304415	09/15/15 18:30	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304527	09/16/15 11:29	MJD	TAL CHI
TCLP	Leach	1311			304750	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	7470A			304941	09/18/15 15:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	305121	09/21/15 09:25	MJD	TAL CHI
Total/NA	Analysis	9045D		1	304199		SMO	TAL CHI
					(Start)	09/14/15 15:40		
					(End)	09/14/15 15:42		
Total/NA	Analysis	Moisture		1	303956	09/11/15 16:44	LWN	TAL CHI

**Client Sample ID: 2233V-1-B06 (0-2)**

**Lab Sample ID: 500-101071-6**

**Date Collected: 09/10/15 12:45**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 84.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			304001	09/11/15 17:00	WRE	TAL CHI
Total/NA	Analysis	8260B		1	304173	09/15/15 00:13	BDW	TAL CHI
Total/NA	Prep	3541			304076	09/14/15 07:43	STW	TAL CHI
Total/NA	Analysis	8270D		1	304662	09/17/15 12:12	BJH	TAL CHI
Total/NA	Prep	3050B			304506	09/16/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	304825	09/17/15 19:42	PJ1	TAL CHI
Total/NA	Prep	3050B			304506	09/16/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	304636	09/16/15 18:12	PJ1	TAL CHI
Total/NA	Prep	7471B			304551	09/16/15 15:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	304697	09/17/15 10:44	MJD	TAL CHI
Total/NA	Prep	9010B			304543	09/16/15 14:15	ELR	TAL CHI
Total/NA	Analysis	9014		1	304577		ELR	TAL CHI
					(Start)	09/16/15 16:54		
					(End)	09/16/15 16:54		

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# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B07 (0-2)**

**Lab Sample ID: 500-101071-7**

**Date Collected: 09/10/15 12:55**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			304209	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304422	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304648	09/16/15 20:19	PJ1	TAL CHI
TCLP	Leach	1311			304750	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304898	09/18/15 09:30	JML	TAL CHI
TCLP	Analysis	6010B		1	304995	09/18/15 20:38	KML	TAL CHI
SPLP East	Leach	1312			304209	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304422	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304528	09/16/15 11:40	PFK	TAL CHI
TCLP	Leach	1311			304750	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304898	09/18/15 09:30	JML	TAL CHI
TCLP	Analysis	6020A		1	305093	09/18/15 17:34	BJH	TAL CHI
SPLP East	Leach	1312			304209	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	7470A			304415	09/15/15 18:30	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304527	09/16/15 11:31	MJD	TAL CHI
TCLP	Leach	1311			304750	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	7470A			304941	09/18/15 15:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	305121	09/21/15 09:27	MJD	TAL CHI
Total/NA	Analysis	9045D		1	304199		SMO	TAL CHI
					(Start)	09/14/15 15:42		
					(End)	09/14/15 15:45		
Total/NA	Analysis	Moisture		1	303956	09/11/15 16:44	LWN	TAL CHI

**Client Sample ID: 2233V-1-B07 (0-2)**

**Lab Sample ID: 500-101071-7**

**Date Collected: 09/10/15 12:55**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 82.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			304001	09/11/15 17:00	WRE	TAL CHI
Total/NA	Analysis	8260B		1	304173	09/15/15 00:38	BDW	TAL CHI
Total/NA	Prep	3541			304076	09/14/15 07:43	STW	TAL CHI
Total/NA	Analysis	8270D		1	304481	09/16/15 14:09	BJH	TAL CHI
Total/NA	Prep	3050B			304506	09/16/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	304825	09/17/15 19:48	PJ1	TAL CHI
Total/NA	Prep	3050B			304506	09/16/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	304636	09/16/15 18:17	PJ1	TAL CHI
Total/NA	Prep	7471B			304551	09/16/15 15:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	304697	09/17/15 10:46	MJD	TAL CHI
Total/NA	Prep	9010B			304543	09/16/15 14:15	ELR	TAL CHI
Total/NA	Analysis	9014		1	304577		ELR	TAL CHI
					(Start)	09/16/15 16:54		
					(End)	09/16/15 16:55		

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# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B08 (0-2)**

**Lab Sample ID: 500-101071-8**

**Date Collected: 09/10/15 11:05**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			304209	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304422	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304648	09/16/15 20:26	PJ1	TAL CHI
TCLP	Leach	1311			304750	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304898	09/18/15 09:30	JML	TAL CHI
TCLP	Analysis	6010B		1	304995	09/18/15 20:45	KML	TAL CHI
SPLP East	Leach	1312			304209	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304422	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304528	09/16/15 11:41	PFK	TAL CHI
TCLP	Leach	1311			304750	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304898	09/18/15 09:30	JML	TAL CHI
TCLP	Analysis	6020A		1	305093	09/18/15 17:34	BJH	TAL CHI
SPLP East	Leach	1312			304209	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	7470A			304415	09/15/15 18:30	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304527	09/16/15 11:33	MJD	TAL CHI
TCLP	Leach	1311			304750	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	7470A			304941	09/18/15 15:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	305121	09/21/15 09:29	MJD	TAL CHI
Total/NA	Analysis	9045D		1	304199		SMO	TAL CHI
					(Start)	09/14/15 15:48		
					(End)	09/14/15 15:50		
Total/NA	Analysis	Moisture		1	303956	09/11/15 16:44	LWN	TAL CHI

**Client Sample ID: 2233V-1-B08 (0-2)**

**Lab Sample ID: 500-101071-8**

**Date Collected: 09/10/15 11:05**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 84.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			304001	09/11/15 17:00	WRE	TAL CHI
Total/NA	Analysis	8260B		1	304173	09/15/15 01:03	BDW	TAL CHI
Total/NA	Prep	3541			304076	09/14/15 07:43	STW	TAL CHI
Total/NA	Analysis	8270D		1	304481	09/16/15 14:37	BJH	TAL CHI
Total/NA	Prep	3050B			304506	09/16/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	304825	09/17/15 20:02	PJ1	TAL CHI
Total/NA	Prep	3050B			304506	09/16/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	304636	09/16/15 18:22	PJ1	TAL CHI
Total/NA	Prep	7471B			304551	09/16/15 15:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	304697	09/17/15 10:47	MJD	TAL CHI
Total/NA	Prep	9010B			304543	09/16/15 14:15	ELR	TAL CHI
Total/NA	Analysis	9014		1	304577		ELR	TAL CHI
					(Start)	09/16/15 16:55		
					(End)	09/16/15 16:55		

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# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B09 (0-2)**

**Lab Sample ID: 500-101071-9**

**Date Collected: 09/10/15 10:40**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			304209	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304422	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304648	09/16/15 20:32	PJ1	TAL CHI
TCLP	Leach	1311			304750	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304898	09/18/15 09:30	JML	TAL CHI
TCLP	Analysis	6010B		1	304995	09/18/15 20:52	KML	TAL CHI
SPLP East	Leach	1312			304209	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304422	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304528	09/16/15 11:43	PFK	TAL CHI
TCLP	Leach	1311			304750	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304898	09/18/15 09:30	JML	TAL CHI
TCLP	Analysis	6020A		1	305093	09/18/15 17:35	BJH	TAL CHI
SPLP East	Leach	1312			304209	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	7470A			304415	09/15/15 18:30	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304527	09/16/15 11:35	MJD	TAL CHI
TCLP	Leach	1311			304750	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	7470A			304941	09/18/15 15:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	305121	09/21/15 09:31	MJD	TAL CHI
Total/NA	Analysis	9045D		1	304199		SMO	TAL CHI
					(Start)	09/14/15 15:50		
					(End)	09/14/15 15:53		
Total/NA	Analysis	Moisture		1	303956	09/11/15 16:44	LWN	TAL CHI

**Client Sample ID: 2233V-1-B09 (0-2)**

**Lab Sample ID: 500-101071-9**

**Date Collected: 09/10/15 10:40**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 79.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			304001	09/11/15 17:00	WRE	TAL CHI
Total/NA	Analysis	8260B		1	304173	09/15/15 01:28	BDW	TAL CHI
Total/NA	Prep	3541			304076	09/14/15 07:43	STW	TAL CHI
Total/NA	Analysis	8270D		1	304481	09/16/15 15:04	BJH	TAL CHI
Total/NA	Prep	3050B			304506	09/16/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	304825	09/17/15 20:15	PJ1	TAL CHI
Total/NA	Prep	3050B			304506	09/16/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	304636	09/16/15 18:26	PJ1	TAL CHI
Total/NA	Prep	7471B			304551	09/16/15 15:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	304697	09/17/15 10:49	MJD	TAL CHI
Total/NA	Prep	9010B			304543	09/16/15 14:15	ELR	TAL CHI
Total/NA	Analysis	9014		1	304577		ELR	TAL CHI
					(Start)	09/16/15 16:55		
					(End)	09/16/15 16:55		

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B09 DUP (0-2)**

**Lab Sample ID: 500-101071-10**

**Date Collected: 09/10/15 10:45**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			304209	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304422	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304648	09/16/15 20:39	PJ1	TAL CHI
TCLP	Leach	1311			304750	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304898	09/18/15 09:30	JML	TAL CHI
TCLP	Analysis	6010B		1	304995	09/18/15 20:58	KML	TAL CHI
SPLP East	Leach	1312			304209	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304422	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304528	09/16/15 11:44	PFK	TAL CHI
TCLP	Leach	1311			304750	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304898	09/18/15 09:30	JML	TAL CHI
TCLP	Analysis	6020A		1	305093	09/18/15 17:36	BJH	TAL CHI
SPLP East	Leach	1312			304209	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	7470A			304415	09/15/15 18:30	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304527	09/16/15 11:37	MJD	TAL CHI
TCLP	Leach	1311			304750	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	7470A			304941	09/18/15 15:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	305121	09/21/15 09:33	MJD	TAL CHI
Total/NA	Analysis	9045D		1	304199		SMO	TAL CHI
					(Start)	09/14/15 15:53		
					(End)	09/14/15 15:56		
Total/NA	Analysis	Moisture		1	303956	09/11/15 16:44	LWN	TAL CHI

**Client Sample ID: 2233V-1-B09 DUP (0-2)**

**Lab Sample ID: 500-101071-10**

**Date Collected: 09/10/15 10:45**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 81.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			304001	09/11/15 17:00	WRE	TAL CHI
Total/NA	Analysis	8260B		1	304173	09/15/15 01:52	BDW	TAL CHI
Total/NA	Prep	3541			304076	09/14/15 07:43	STW	TAL CHI
Total/NA	Analysis	8270D		1	304481	09/16/15 15:32	BJH	TAL CHI
Total/NA	Prep	3050B			304506	09/16/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	304825	09/17/15 20:29	PJ1	TAL CHI
Total/NA	Prep	3050B			304506	09/16/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	304636	09/16/15 18:31	PJ1	TAL CHI
Total/NA	Prep	7471B			304551	09/16/15 15:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	304697	09/17/15 10:51	MJD	TAL CHI
Total/NA	Prep	9010B			304543	09/16/15 14:15	ELR	TAL CHI
Total/NA	Analysis	9014		1	304577		ELR	TAL CHI
					(Start)	09/16/15 16:55		
					(End)	09/16/15 16:55		

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B10 (0-2)**

**Lab Sample ID: 500-101071-11**

**Date Collected: 09/10/15 10:25**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			304209	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304422	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304648	09/16/15 21:02	PJ1	TAL CHI
TCLP	Leach	1311			304750	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304898	09/18/15 09:30	JML	TAL CHI
TCLP	Analysis	6010B		1	304995	09/18/15 21:05	KML	TAL CHI
SPLP East	Leach	1312			304209	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304422	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304528	09/16/15 11:49	PFK	TAL CHI
TCLP	Leach	1311			304750	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304898	09/18/15 09:30	JML	TAL CHI
TCLP	Analysis	6020A		1	305093	09/18/15 17:37	BJH	TAL CHI
SPLP East	Leach	1312			304209	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	7470A			304415	09/15/15 18:30	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304527	09/16/15 11:39	MJD	TAL CHI
TCLP	Leach	1311			304750	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	7470A			304941	09/18/15 15:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	305121	09/21/15 09:35	MJD	TAL CHI
Total/NA	Analysis	9045D		1	304199		SMO	TAL CHI
					(Start)	09/14/15 15:56		
					(End)	09/14/15 15:58		
Total/NA	Analysis	Moisture		1	303956	09/11/15 16:44	LWN	TAL CHI

**Client Sample ID: 2233V-1-B10 (0-2)**

**Lab Sample ID: 500-101071-11**

**Date Collected: 09/10/15 10:25**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 83.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			304001	09/11/15 17:00	WRE	TAL CHI
Total/NA	Analysis	8260B		1	304173	09/15/15 02:17	BDW	TAL CHI
Total/NA	Prep	3541			304076	09/14/15 07:43	STW	TAL CHI
Total/NA	Analysis	8270D		1	304481	09/16/15 12:18	BJH	TAL CHI
Total/NA	Prep	3050B			304506	09/16/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	304825	09/17/15 20:58	PJ1	TAL CHI
Total/NA	Prep	3050B			304506	09/16/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	304636	09/16/15 18:36	PJ1	TAL CHI
Total/NA	Prep	7471B			304551	09/16/15 15:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	304697	09/17/15 10:53	MJD	TAL CHI
Total/NA	Prep	9010B			304543	09/16/15 14:15	ELR	TAL CHI
Total/NA	Analysis	9014		1	304577		ELR	TAL CHI
					(Start)	09/16/15 16:55		
					(End)	09/16/15 16:56		



# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B11 (0-2)**

**Lab Sample ID: 500-101071-12**

**Date Collected: 09/10/15 10:15**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			304209	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304422	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304648	09/16/15 21:09	PJ1	TAL CHI
TCLP	Leach	1311			304750	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304898	09/18/15 09:30	JML	TAL CHI
TCLP	Analysis	6010B		1	304995	09/18/15 21:12	KML	TAL CHI
SPLP East	Leach	1312			304209	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304422	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304528	09/16/15 11:51	PFK	TAL CHI
TCLP	Leach	1311			304750	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304898	09/18/15 09:30	JML	TAL CHI
TCLP	Analysis	6020A		1	305093	09/18/15 17:38	BJH	TAL CHI
SPLP East	Leach	1312			304209	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	7470A			304415	09/15/15 18:30	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304527	09/16/15 11:41	MJD	TAL CHI
TCLP	Leach	1311			304750	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	7470A			304941	09/18/15 15:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	305121	09/21/15 09:37	MJD	TAL CHI
Total/NA	Analysis	9045D		1	304199		SMO	TAL CHI
					(Start)	09/14/15 15:58		
					(End)	09/14/15 16:01		
Total/NA	Analysis	Moisture		1	303956	09/11/15 16:44	LWN	TAL CHI

**Client Sample ID: 2233V-1-B11 (0-2)**

**Lab Sample ID: 500-101071-12**

**Date Collected: 09/10/15 10:15**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 83.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			304001	09/11/15 17:00	WRE	TAL CHI
Total/NA	Analysis	8260B		1	304173	09/15/15 02:42	BDW	TAL CHI
Total/NA	Prep	3541			304076	09/14/15 07:43	STW	TAL CHI
Total/NA	Analysis	8270D		1	304662	09/17/15 12:35	BJH	TAL CHI
Total/NA	Prep	3050B			304506	09/16/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	304825	09/17/15 21:05	PJ1	TAL CHI
Total/NA	Prep	3050B			304506	09/16/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	304636	09/16/15 18:41	PJ1	TAL CHI
Total/NA	Prep	7471B			304551	09/16/15 15:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	304697	09/17/15 10:55	MJD	TAL CHI
Total/NA	Prep	9010B			304543	09/16/15 14:15	ELR	TAL CHI
Total/NA	Analysis	9014		1	304577		ELR	TAL CHI
					(Start)	09/16/15 16:56		
					(End)	09/16/15 16:56		

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B12 (0-2)**

**Lab Sample ID: 500-101071-13**

**Date Collected: 09/10/15 10:05**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			304209	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304422	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304648	09/16/15 21:15	PJ1	TAL CHI
TCLP	Leach	1311			304750	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304898	09/18/15 09:30	JML	TAL CHI
TCLP	Analysis	6010B		1	304995	09/18/15 21:35	KML	TAL CHI
SPLP East	Leach	1312			304209	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304422	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304528	09/16/15 11:53	PFK	TAL CHI
TCLP	Leach	1311			304750	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304898	09/18/15 09:30	JML	TAL CHI
TCLP	Analysis	6020A		1	305093	09/18/15 17:39	BJH	TAL CHI
SPLP East	Leach	1312			304209	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	7470A			304415	09/15/15 18:30	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304527	09/16/15 11:42	MJD	TAL CHI
TCLP	Leach	1311			304750	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	7470A			304941	09/18/15 15:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	305121	09/21/15 09:39	MJD	TAL CHI
Total/NA	Analysis	9045D		1	304199		SMO	TAL CHI
					(Start)	09/14/15 16:01		
					(End)	09/14/15 16:04		
Total/NA	Analysis	Moisture		1	303956	09/11/15 16:44	LWN	TAL CHI

**Client Sample ID: 2233V-1-B12 (0-2)**

**Lab Sample ID: 500-101071-13**

**Date Collected: 09/10/15 10:05**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 80.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			304001	09/11/15 17:00	WRE	TAL CHI
Total/NA	Analysis	8260B		1	304173	09/15/15 03:08	BDW	TAL CHI
Total/NA	Prep	3541			304076	09/14/15 07:43	STW	TAL CHI
Total/NA	Analysis	8270D		1	304481	09/16/15 20:10	BJH	TAL CHI
Total/NA	Prep	3050B			304506	09/16/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	304825	09/17/15 21:19	PJ1	TAL CHI
Total/NA	Prep	3050B			304506	09/16/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	304636	09/16/15 18:46	PJ1	TAL CHI
Total/NA	Prep	7471B			304551	09/16/15 15:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	304697	09/17/15 10:57	MJD	TAL CHI
Total/NA	Prep	9010B			304543	09/16/15 14:15	ELR	TAL CHI
Total/NA	Analysis	9014		1	304577		ELR	TAL CHI
					(Start)	09/16/15 16:56		
					(End)	09/16/15 16:56		

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B13 (0-2)**

**Lab Sample ID: 500-101071-14**

**Date Collected: 09/10/15 09:55**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			304209	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304422	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304648	09/16/15 21:22	PJ1	TAL CHI
TCLP	Leach	1311			304750	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304898	09/18/15 09:30	JML	TAL CHI
TCLP	Analysis	6010B		1	304995	09/18/15 21:41	KML	TAL CHI
SPLP East	Leach	1312			304209	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304422	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304528	09/16/15 11:54	PFK	TAL CHI
TCLP	Leach	1311			304750	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304898	09/18/15 09:30	JML	TAL CHI
TCLP	Analysis	6020A		1	305093	09/18/15 17:40	BJH	TAL CHI
SPLP East	Leach	1312			304209	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	7470A			304415	09/15/15 18:30	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304527	09/16/15 11:44	MJD	TAL CHI
TCLP	Leach	1311			304750	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	7470A			304941	09/18/15 15:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	305121	09/21/15 09:40	MJD	TAL CHI
Total/NA	Analysis	9045D		1	304199		SMO	TAL CHI
					(Start)	09/14/15 16:04		
					(End)	09/14/15 16:06		
Total/NA	Analysis	Moisture		1	303956	09/11/15 16:44	LWN	TAL CHI

**Client Sample ID: 2233V-1-B13 (0-2)**

**Lab Sample ID: 500-101071-14**

**Date Collected: 09/10/15 09:55**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 88.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			304001	09/11/15 17:00	WRE	TAL CHI
Total/NA	Analysis	8260B		1	304173	09/15/15 03:33	BDW	TAL CHI
Total/NA	Prep	3541			304076	09/14/15 07:43	STW	TAL CHI
Total/NA	Analysis	8270D		1	304662	09/17/15 14:08	BJH	TAL CHI
Total/NA	Prep	3050B			304506	09/16/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	304825	09/17/15 21:25	PJ1	TAL CHI
Total/NA	Prep	3050B			304506	09/16/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	304636	09/16/15 18:51	PJ1	TAL CHI
Total/NA	Prep	7471B			304551	09/16/15 15:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	304697	09/17/15 10:59	MJD	TAL CHI
Total/NA	Prep	9010B			304543	09/16/15 14:15	ELR	TAL CHI
Total/NA	Analysis	9014		1	304577		ELR	TAL CHI
					(Start)	09/16/15 16:56		
					(End)	09/16/15 16:57		

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B14 (0-2)**

**Lab Sample ID: 500-101071-15**

**Date Collected: 09/10/15 09:40**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			304209	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304422	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304648	09/16/15 21:29	PJ1	TAL CHI
TCLP	Leach	1311			304750	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304898	09/18/15 09:30	JML	TAL CHI
TCLP	Analysis	6010B		1	304995	09/18/15 21:48	KML	TAL CHI
SPLP East	Leach	1312			304209	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304422	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304528	09/16/15 11:56	PFK	TAL CHI
TCLP	Leach	1311			304750	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304898	09/18/15 09:30	JML	TAL CHI
TCLP	Analysis	6020A		1	305093	09/18/15 17:43	BJH	TAL CHI
SPLP East	Leach	1312			304209	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	7470A			304415	09/15/15 18:30	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304527	09/16/15 11:47	MJD	TAL CHI
TCLP	Leach	1311			304750	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	7470A			304941	09/18/15 15:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	305121	09/21/15 09:46	MJD	TAL CHI
Total/NA	Analysis	9045D		1	304380		SMO	TAL CHI
					(Start)	09/15/15 12:47		
					(End)	09/15/15 12:55		
Total/NA	Analysis	Moisture		1	303956	09/11/15 16:44	LWN	TAL CHI

**Client Sample ID: 2233V-1-B14 (0-2)**

**Lab Sample ID: 500-101071-15**

**Date Collected: 09/10/15 09:40**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 86.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			304001	09/11/15 17:00	WRE	TAL CHI
Total/NA	Analysis	8260B		1	304173	09/15/15 03:57	BDW	TAL CHI
Total/NA	Prep	3541			304076	09/14/15 07:43	STW	TAL CHI
Total/NA	Analysis	8270D		1	304481	09/16/15 16:00	BJH	TAL CHI
Total/NA	Prep	3050B			304506	09/16/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	304825	09/17/15 21:39	PJ1	TAL CHI
Total/NA	Prep	3050B			304506	09/16/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		10	304825	09/17/15 21:45	PJ1	TAL CHI
Total/NA	Prep	3050B			304506	09/16/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	304636	09/16/15 19:06	PJ1	TAL CHI
Total/NA	Prep	7471B			304551	09/16/15 15:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	304697	09/17/15 11:01	MJD	TAL CHI
Total/NA	Prep	9010B			304543	09/16/15 14:15	ELR	TAL CHI
Total/NA	Analysis	9014		1	304577		ELR	TAL CHI
					(Start)	09/16/15 16:57		
					(End)	09/16/15 16:57		

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B15 (0-2)**

**Lab Sample ID: 500-101071-16**

**Date Collected: 09/10/15 09:25**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			304209	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304422	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304648	09/16/15 21:36	PJ1	TAL CHI
TCLP	Leach	1311			304750	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304898	09/18/15 09:30	JML	TAL CHI
TCLP	Analysis	6010B		1	304995	09/18/15 21:55	KML	TAL CHI
SPLP East	Leach	1312			304209	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304422	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304528	09/16/15 11:58	PFK	TAL CHI
TCLP	Leach	1311			304750	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304898	09/18/15 09:30	JML	TAL CHI
TCLP	Analysis	6020A		1	305093	09/18/15 17:44	BJH	TAL CHI
SPLP East	Leach	1312			304209	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	7470A			304415	09/15/15 18:30	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304527	09/16/15 11:52	MJD	TAL CHI
TCLP	Leach	1311			304750	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	7470A			304941	09/18/15 15:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	305121	09/21/15 09:48	MJD	TAL CHI
Total/NA	Analysis	9045D		1	304380		SMO	TAL CHI
					(Start)	09/15/15 13:03		
					(End)	09/15/15 13:11		
Total/NA	Analysis	Moisture		1	303956	09/11/15 16:44	LWN	TAL CHI

**Client Sample ID: 2233V-1-B15 (0-2)**

**Lab Sample ID: 500-101071-16**

**Date Collected: 09/10/15 09:25**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 79.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			304001	09/11/15 17:00	WRE	TAL CHI
Total/NA	Analysis	8260B		1	304173	09/15/15 04:22	BDW	TAL CHI
Total/NA	Prep	3541			304076	09/14/15 07:43	STW	TAL CHI
Total/NA	Analysis	8270D		1	304481	09/16/15 11:50	BJH	TAL CHI
Total/NA	Prep	3050B			304506	09/16/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	304825	09/17/15 21:52	PJ1	TAL CHI
Total/NA	Prep	3050B			304506	09/16/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		5	304825	09/17/15 22:15	PJ1	TAL CHI
Total/NA	Prep	3050B			304506	09/16/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	304636	09/16/15 19:11	PJ1	TAL CHI
Total/NA	Prep	7471B			304551	09/16/15 15:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	304697	09/17/15 11:07	MJD	TAL CHI
Total/NA	Prep	9010B			304543	09/16/15 14:15	ELR	TAL CHI
Total/NA	Analysis	9014		1	304577		ELR	TAL CHI
					(Start)	09/16/15 16:58		
					(End)	09/16/15 16:58		

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B16 (0-2)**

**Lab Sample ID: 500-101071-17**

**Date Collected: 09/10/15 09:15**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			304209	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304422	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304648	09/16/15 21:42	PJ1	TAL CHI
TCLP	Leach	1311			304750	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304898	09/18/15 09:30	JML	TAL CHI
TCLP	Analysis	6010B		1	304995	09/18/15 22:02	KML	TAL CHI
SPLP East	Leach	1312			304209	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304422	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304528	09/16/15 11:59	PFK	TAL CHI
TCLP	Leach	1311			304750	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304898	09/18/15 09:30	JML	TAL CHI
TCLP	Analysis	6020A		1	305093	09/18/15 17:45	BJH	TAL CHI
SPLP East	Leach	1312			304209	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	7470A			304415	09/15/15 18:30	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304527	09/16/15 11:54	MJD	TAL CHI
TCLP	Leach	1311			304750	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	7470A			304941	09/18/15 15:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	305121	09/21/15 09:50	MJD	TAL CHI
Total/NA	Analysis	9045D		1	304380		SMO	TAL CHI
					(Start)	09/15/15 13:11		
					(End)	09/15/15 13:18		
Total/NA	Analysis	Moisture		1	303956	09/11/15 16:44	LWN	TAL CHI

**Client Sample ID: 2233V-1-B16 (0-2)**

**Lab Sample ID: 500-101071-17**

**Date Collected: 09/10/15 09:15**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 86.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			304001	09/11/15 17:00	WRE	TAL CHI
Total/NA	Analysis	8260B		1	304173	09/15/15 04:47	BDW	TAL CHI
Total/NA	Prep	3541			304076	09/14/15 07:43	STW	TAL CHI
Total/NA	Analysis	8270D		1	304481	09/16/15 16:28	BJH	TAL CHI
Total/NA	Prep	3050B			304506	09/16/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	304825	09/17/15 22:22	PJ1	TAL CHI
Total/NA	Prep	3050B			304506	09/16/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		10	304825	09/17/15 22:28	PJ1	TAL CHI
Total/NA	Prep	3050B			304506	09/16/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	304636	09/16/15 19:16	PJ1	TAL CHI
Total/NA	Prep	7471B			304551	09/16/15 15:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	304697	09/17/15 11:09	MJD	TAL CHI
Total/NA	Prep	9010B			304543	09/16/15 14:15	ELR	TAL CHI
Total/NA	Analysis	9014		1	304577		ELR	TAL CHI
					(Start)	09/16/15 16:58		
					(End)	09/16/15 16:58		

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B17 (0-2)**

**Lab Sample ID: 500-101071-18**

**Date Collected: 09/10/15 09:10**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			304209	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304422	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304648	09/16/15 21:49	PJ1	TAL CHI
TCLP	Leach	1311			304752	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304898	09/18/15 09:30	JML	TAL CHI
TCLP	Analysis	6010B		1	304995	09/18/15 22:08	KML	TAL CHI
TCLP	Leach	1311			304752	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304898	09/18/15 09:30	JML	TAL CHI
TCLP	Analysis	6010B		10	304998	09/19/15 16:01	KML	TAL CHI
SPLP East	Leach	1312			304209	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	3010A			304422	09/15/15 17:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304528	09/16/15 12:01	PFK	TAL CHI
TCLP	Leach	1311			304752	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304898	09/18/15 09:30	JML	TAL CHI
TCLP	Analysis	6020A		1	305093	09/18/15 17:46	BJH	TAL CHI
SPLP East	Leach	1312			304209	09/14/15 15:45	FXG	TAL CHI
SPLP East	Prep	7470A			304415	09/15/15 18:30	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304527	09/16/15 11:56	MJD	TAL CHI
TCLP	Leach	1311			304752	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	7470A			304941	09/18/15 15:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	305121	09/21/15 09:52	MJD	TAL CHI
Total/NA	Analysis	9045D		1	304380		SMO	TAL CHI
					(Start)	09/15/15 13:18		
					(End)	09/15/15 13:26		
Total/NA	Analysis	Moisture		1	303956	09/11/15 16:44	LWN	TAL CHI

**Client Sample ID: 2233V-1-B17 (0-2)**

**Lab Sample ID: 500-101071-18**

**Date Collected: 09/10/15 09:10**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 86.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			304001	09/11/15 17:00	WRE	TAL CHI
Total/NA	Analysis	8260B		1	304173	09/15/15 05:12	BDW	TAL CHI
Total/NA	Prep	3541			304076	09/14/15 07:43	STW	TAL CHI
Total/NA	Analysis	8270D		1	304481	09/16/15 16:56	BJH	TAL CHI
Total/NA	Prep	3050B			304506	09/16/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	304825	09/17/15 22:35	PJ1	TAL CHI
Total/NA	Prep	3050B			304506	09/16/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	304636	09/16/15 19:21	PJ1	TAL CHI
Total/NA	Prep	7471B			304551	09/16/15 15:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	304697	09/17/15 11:12	MJD	TAL CHI
Total/NA	Prep	9010B			304543	09/16/15 14:15	ELR	TAL CHI
Total/NA	Analysis	9014		1	304577		ELR	TAL CHI
					(Start)	09/16/15 16:58		
					(End)	09/16/15 16:59		

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B18 (0-2)**

**Lab Sample ID: 500-101071-19**

**Date Collected: 09/10/15 08:55**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			304407	09/15/15 15:53	FXG	TAL CHI
SPLP East	Prep	3010A			304614	09/16/15 15:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304995	09/18/15 14:26	KML	TAL CHI
SPLP East	Leach	1312			304407	09/15/15 15:53	FXG	TAL CHI
SPLP East	Prep	3010A			304614	09/16/15 15:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304829	09/17/15 21:47	PJ1	TAL CHI
TCLP	Leach	1311			304752	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304898	09/18/15 09:30	JML	TAL CHI
TCLP	Analysis	6010B		1	304995	09/18/15 22:15	KML	TAL CHI
SPLP East	Leach	1312			304407	09/15/15 15:53	FXG	TAL CHI
SPLP East	Prep	3010A			304614	09/16/15 15:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304865	09/17/15 16:43	PFK	TAL CHI
TCLP	Leach	1311			304752	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304898	09/18/15 09:30	JML	TAL CHI
TCLP	Analysis	6020A		1	305093	09/18/15 17:47	BJH	TAL CHI
SPLP East	Leach	1312			304407	09/15/15 15:53	FXG	TAL CHI
SPLP East	Prep	7470A			304586	09/16/15 17:30	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304834	09/17/15 18:38	MJD	TAL CHI
TCLP	Leach	1311			304752	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	7470A			304941	09/18/15 15:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	305121	09/21/15 09:54	MJD	TAL CHI
Total/NA	Analysis	9045D		1	304380		SMO	TAL CHI
					(Start)	09/15/15 13:26		
					(End)	09/15/15 13:34		
Total/NA	Analysis	Moisture		1	303956	09/11/15 16:44	LWN	TAL CHI

**Client Sample ID: 2233V-1-B18 (0-2)**

**Lab Sample ID: 500-101071-19**

**Date Collected: 09/10/15 08:55**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 85.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			304001	09/11/15 17:00	WRE	TAL CHI
Total/NA	Analysis	8260B		1	304173	09/15/15 05:37	BDW	TAL CHI
Total/NA	Prep	3541			304076	09/14/15 07:43	STW	TAL CHI
Total/NA	Analysis	8270D		1	304481	09/16/15 17:24	BJH	TAL CHI
Total/NA	Prep	3050B			304506	09/16/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	304825	09/17/15 22:49	PJ1	TAL CHI
Total/NA	Prep	3050B			304506	09/16/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	304636	09/16/15 19:26	PJ1	TAL CHI
Total/NA	Prep	7471B			304551	09/16/15 15:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	304697	09/17/15 11:14	MJD	TAL CHI
Total/NA	Prep	9010B			304543	09/16/15 14:15	ELR	TAL CHI

TestAmerica Chicago



# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B18 (0-2)**

**Lab Sample ID: 500-101071-19**

**Date Collected: 09/10/15 08:55**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 85.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9014		1	304577		ELR	TAL CHI
					(Start)	09/16/15 16:59		
					(End)	09/16/15 16:59		

**Client Sample ID: 2233V-1-B19 (0-2)**

**Lab Sample ID: 500-101071-20**

**Date Collected: 09/10/15 08:45**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			304407	09/15/15 15:53	FXG	TAL CHI
SPLP East	Prep	3010A			304614	09/16/15 15:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304995	09/18/15 14:53	KML	TAL CHI
SPLP East	Leach	1312			304407	09/15/15 15:53	FXG	TAL CHI
SPLP East	Prep	3010A			304614	09/16/15 15:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304829	09/17/15 22:08	PJ1	TAL CHI
TCLP	Leach	1311			304750	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304898	09/18/15 09:30	JML	TAL CHI
TCLP	Analysis	6010B		1	304995	09/18/15 22:22	KML	TAL CHI
SPLP East	Leach	1312			304407	09/15/15 15:53	FXG	TAL CHI
SPLP East	Prep	3010A			304614	09/16/15 15:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304865	09/17/15 17:02	PFK	TAL CHI
TCLP	Leach	1311			304750	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304898	09/18/15 09:30	JML	TAL CHI
TCLP	Analysis	6020A		1	305093	09/18/15 17:48	BJH	TAL CHI
SPLP East	Leach	1312			304407	09/15/15 15:53	FXG	TAL CHI
SPLP East	Prep	7470A			304586	09/16/15 17:30	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304834	09/17/15 18:40	MJD	TAL CHI
TCLP	Leach	1311			304750	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	7470A			304941	09/18/15 15:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	305121	09/21/15 09:56	MJD	TAL CHI
Total/NA	Analysis	9045D		1	304380		SMO	TAL CHI
					(Start)	09/15/15 13:34		
					(End)	09/15/15 13:42		
Total/NA	Analysis	Moisture		1	303956	09/11/15 16:44	LWN	TAL CHI

**Client Sample ID: 2233V-1-B19 (0-2)**

**Lab Sample ID: 500-101071-20**

**Date Collected: 09/10/15 08:45**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 85.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			304001	09/11/15 17:00	WRE	TAL CHI
Total/NA	Analysis	8260B		1	304173	09/15/15 06:02	BDW	TAL CHI
Total/NA	Prep	3541			304076	09/14/15 07:43	STW	TAL CHI
Total/NA	Analysis	8270D		1	304481	09/16/15 17:51	BJH	TAL CHI

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B19 (0-2)**

**Lab Sample ID: 500-101071-20**

**Date Collected: 09/10/15 08:45**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 85.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			304506	09/16/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	304825	09/17/15 23:02	PJ1	TAL CHI
Total/NA	Prep	3050B			304506	09/16/15 12:00	JML	TAL CHI
Total/NA	Analysis	6010B		1	304636	09/16/15 19:31	PJ1	TAL CHI
Total/NA	Prep	7471B			304551	09/16/15 15:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	304697	09/17/15 11:16	MJD	TAL CHI
Total/NA	Prep	9010B			304558	09/16/15 16:30	ELR	TAL CHI
Total/NA	Analysis	9014		1	304603		ELR	TAL CHI
					(Start)	09/16/15 20:01		
					(End)	09/16/15 20:01		

**Client Sample ID: 2233V-1-B20 (0-2)**

**Lab Sample ID: 500-101071-21**

**Date Collected: 09/10/15 08:25**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			304407	09/15/15 15:53	FXG	TAL CHI
SPLP East	Prep	3010A			304614	09/16/15 15:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304995	09/18/15 15:00	KML	TAL CHI
SPLP East	Leach	1312			304407	09/15/15 15:53	FXG	TAL CHI
SPLP East	Prep	3010A			304614	09/16/15 15:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304829	09/17/15 22:12	PJ1	TAL CHI
TCLP	Leach	1311			304753	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304900	09/18/15 11:00	JML	TAL CHI
TCLP	Analysis	6010B		1	304995	09/18/15 23:00	KML	TAL CHI
SPLP East	Leach	1312			304407	09/15/15 15:53	FXG	TAL CHI
SPLP East	Prep	3010A			304614	09/16/15 15:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304865	09/17/15 17:06	PFK	TAL CHI
TCLP	Leach	1311			304753	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304900	09/18/15 11:00	JML	TAL CHI
TCLP	Analysis	6020A		1	305093	09/18/15 17:50	BJH	TAL CHI
SPLP East	Leach	1312			304407	09/15/15 15:53	FXG	TAL CHI
SPLP East	Prep	7470A			304586	09/16/15 17:30	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304834	09/17/15 18:42	MJD	TAL CHI
TCLP	Leach	1311			304753	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	7470A			304944	09/18/15 15:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	305121	09/21/15 10:04	MJD	TAL CHI
Total/NA	Analysis	9045D		1	304380		SMO	TAL CHI
					(Start)	09/15/15 13:42		
					(End)	09/15/15 13:50		
Total/NA	Analysis	Moisture		1	303958	09/11/15 16:53	LWN	TAL CHI

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B20 (0-2)**

**Lab Sample ID: 500-101071-21**

**Date Collected: 09/10/15 08:25**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 82.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			304001	09/11/15 17:00	WRE	TAL CHI
Total/NA	Analysis	8260B		1	304173	09/15/15 06:28	BDW	TAL CHI
Total/NA	Prep	3541			304034	09/13/15 16:30	DEA	TAL CHI
Total/NA	Analysis	8270D		1	304662	09/17/15 14:32	BJH	TAL CHI
Total/NA	Prep	3050B			304597	09/16/15 20:33	PJH	TAL CHI
Total/NA	Analysis	6010B		1	304831	09/17/15 16:47	PJ1	TAL CHI
Total/NA	Prep	7471B			304521	09/16/15 15:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	304697	09/17/15 11:21	MJD	TAL CHI
Total/NA	Prep	9010B			304558	09/16/15 16:30	ELR	TAL CHI
Total/NA	Analysis	9014		1	304603		ELR	TAL CHI
					(Start)	09/16/15 20:02		
					(End)	09/16/15 20:02		

**Client Sample ID: 2233V-1-B20 DUP (0-2)**

**Lab Sample ID: 500-101071-22**

**Date Collected: 09/10/15 08:30**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			304407	09/15/15 15:53	FXG	TAL CHI
SPLP East	Prep	3010A			304614	09/16/15 15:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304995	09/18/15 15:06	KML	TAL CHI
SPLP East	Leach	1312			304407	09/15/15 15:53	FXG	TAL CHI
SPLP East	Prep	3010A			304614	09/16/15 15:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304829	09/17/15 22:16	PJ1	TAL CHI
TCLP	Leach	1311			304753	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304900	09/18/15 11:00	JML	TAL CHI
TCLP	Analysis	6010B		1	304995	09/18/15 23:27	KML	TAL CHI
SPLP East	Leach	1312			304407	09/15/15 15:53	FXG	TAL CHI
SPLP East	Prep	3010A			304614	09/16/15 15:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304865	09/17/15 17:11	PFK	TAL CHI
TCLP	Leach	1311			304753	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304900	09/18/15 11:00	JML	TAL CHI
TCLP	Analysis	6020A		1	305093	09/18/15 17:56	BJH	TAL CHI
SPLP East	Leach	1312			304407	09/15/15 15:53	FXG	TAL CHI
SPLP East	Prep	7470A			304586	09/16/15 17:30	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304834	09/17/15 18:48	MJD	TAL CHI
TCLP	Leach	1311			304753	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	7470A			304944	09/18/15 15:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	305121	09/21/15 10:10	MJD	TAL CHI
Total/NA	Analysis	9045D		1	304380		SMO	TAL CHI
					(Start)	09/15/15 13:50		
					(End)	09/15/15 13:58		
Total/NA	Analysis	Moisture		1	303958	09/11/15 16:53	LWN	TAL CHI

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B20 DUP (0-2)**

**Lab Sample ID: 500-101071-22**

**Date Collected: 09/10/15 08:30**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 79.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			304001	09/11/15 17:00	WRE	TAL CHI
Total/NA	Analysis	8260B		1	304173	09/15/15 06:53	BDW	TAL CHI
Total/NA	Prep	3541			304034	09/13/15 16:30	DEA	TAL CHI
Total/NA	Analysis	8270D		1	304474	09/16/15 16:07	BJH	TAL CHI
Total/NA	Prep	3050B			304597	09/16/15 20:33	PJH	TAL CHI
Total/NA	Analysis	6010B		1	304831	09/17/15 16:52	PJ1	TAL CHI
Total/NA	Prep	7471B			304521	09/16/15 15:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	304697	09/17/15 11:34	MJD	TAL CHI
Total/NA	Prep	9010B			304558	09/16/15 16:30	ELR	TAL CHI
Total/NA	Analysis	9014		1	304603		ELR	TAL CHI
					(Start)	09/16/15 20:02		
					(End)	09/16/15 20:02		

**Client Sample ID: 2233V-1-B21 (0-2)**

**Lab Sample ID: 500-101071-23**

**Date Collected: 09/10/15 08:15**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			304407	09/15/15 15:53	FXG	TAL CHI
SPLP East	Prep	3010A			304614	09/16/15 15:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304995	09/18/15 15:17	KML	TAL CHI
SPLP East	Leach	1312			304407	09/15/15 15:53	FXG	TAL CHI
SPLP East	Prep	3010A			304614	09/16/15 15:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304829	09/17/15 22:20	PJ1	TAL CHI
TCLP	Leach	1311			304753	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304900	09/18/15 11:00	JML	TAL CHI
TCLP	Analysis	6010B		1	304995	09/18/15 23:34	KML	TAL CHI
SPLP East	Leach	1312			304407	09/15/15 15:53	FXG	TAL CHI
SPLP East	Prep	3010A			304614	09/16/15 15:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304865	09/17/15 17:25	PFK	TAL CHI
TCLP	Leach	1311			304753	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304900	09/18/15 11:00	JML	TAL CHI
TCLP	Analysis	6020A		1	305093	09/18/15 17:56	BJH	TAL CHI
SPLP East	Leach	1312			304407	09/15/15 15:53	FXG	TAL CHI
SPLP East	Prep	7470A			304586	09/16/15 17:30	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304834	09/17/15 18:50	MJD	TAL CHI
TCLP	Leach	1311			304753	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	7470A			304944	09/18/15 15:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	305121	09/21/15 10:16	MJD	TAL CHI
Total/NA	Analysis	9045D		1	304380		SMO	TAL CHI
					(Start)	09/15/15 13:58		
					(End)	09/15/15 14:06		
Total/NA	Analysis	Moisture		1	303958	09/11/15 16:53	LWN	TAL CHI

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B21 (0-2)**

**Lab Sample ID: 500-101071-23**

**Date Collected: 09/10/15 08:15**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 84.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			304001	09/11/15 17:00	WRE	TAL CHI
Total/NA	Analysis	8260B		1	304173	09/15/15 07:18	BDW	TAL CHI
Total/NA	Prep	3541			304034	09/13/15 16:30	DEA	TAL CHI
Total/NA	Analysis	8270D		1	304474	09/16/15 16:33	BJH	TAL CHI
Total/NA	Prep	3050B			304597	09/16/15 20:33	PJH	TAL CHI
Total/NA	Analysis	6010B		10	304924	09/18/15 13:30	KML	TAL CHI
Total/NA	Prep	3050B			304597	09/16/15 20:33	PJH	TAL CHI
Total/NA	Analysis	6010B		1	304831	09/17/15 16:57	PJ1	TAL CHI
Total/NA	Prep	7471B			304521	09/16/15 15:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	304697	09/17/15 11:36	MJD	TAL CHI
Total/NA	Prep	9010B			304558	09/16/15 16:30	ELR	TAL CHI
Total/NA	Analysis	9014		1	304603		ELR	TAL CHI
					(Start)	09/16/15 20:02		
					(End)	09/16/15 20:03		

**Client Sample ID: 2233V-1-B22 (0-2)**

**Lab Sample ID: 500-101071-24**

**Date Collected: 09/10/15 08:05**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			304407	09/15/15 15:53	FXG	TAL CHI
SPLP East	Prep	3010A			304614	09/16/15 15:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304995	09/18/15 15:24	KML	TAL CHI
SPLP East	Leach	1312			304407	09/15/15 15:53	FXG	TAL CHI
SPLP East	Prep	3010A			304614	09/16/15 15:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304829	09/17/15 22:25	PJ1	TAL CHI
TCLP	Leach	1311			304753	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304900	09/18/15 11:00	JML	TAL CHI
TCLP	Analysis	6010B		1	304995	09/18/15 23:41	KML	TAL CHI
SPLP East	Leach	1312			304407	09/15/15 15:53	FXG	TAL CHI
SPLP East	Prep	3010A			304614	09/16/15 15:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304865	09/17/15 17:30	PFK	TAL CHI
TCLP	Leach	1311			304753	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304900	09/18/15 11:00	JML	TAL CHI
TCLP	Analysis	6020A		1	305093	09/18/15 17:57	BJH	TAL CHI
SPLP East	Leach	1312			304407	09/15/15 15:53	FXG	TAL CHI
SPLP East	Prep	7470A			304586	09/16/15 17:30	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304834	09/17/15 18:55	MJD	TAL CHI
TCLP	Leach	1311			304753	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	7470A			304944	09/18/15 15:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	305121	09/21/15 10:18	MJD	TAL CHI
Total/NA	Analysis	9045D		1	304380		SMO	TAL CHI
					(Start)	09/15/15 14:06		
					(End)	09/15/15 14:14		
Total/NA	Analysis	Moisture		1	303958	09/11/15 16:53	LWN	TAL CHI

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B22 (0-2)**

**Lab Sample ID: 500-101071-24**

**Date Collected: 09/10/15 08:05**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 83.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			304001	09/11/15 17:00	WRE	TAL CHI
Total/NA	Analysis	8260B		1	304173	09/15/15 07:43	BDW	TAL CHI
Total/NA	Prep	3541			304034	09/13/15 16:30	DEA	TAL CHI
Total/NA	Analysis	8270D		1	304474	09/16/15 17:00	BJH	TAL CHI
Total/NA	Prep	3050B			304597	09/16/15 20:33	PJH	TAL CHI
Total/NA	Analysis	6010B		1	304831	09/17/15 17:02	PJ1	TAL CHI
Total/NA	Prep	7471B			304521	09/16/15 15:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	304697	09/17/15 12:42	MJD	TAL CHI
Total/NA	Prep	9010B			304558	09/16/15 16:30	ELR	TAL CHI
Total/NA	Analysis	9014		1	304603		ELR	TAL CHI
					(Start)	09/16/15 20:03		
					(End)	09/16/15 20:03		

**Client Sample ID: 2233V-1-B23 (0-2)**

**Lab Sample ID: 500-101071-25**

**Date Collected: 09/10/15 07:55**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			304407	09/15/15 15:53	FXG	TAL CHI
SPLP East	Prep	3010A			304614	09/16/15 15:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304995	09/18/15 15:30	KML	TAL CHI
SPLP East	Leach	1312			304407	09/15/15 15:53	FXG	TAL CHI
SPLP East	Prep	3010A			304614	09/16/15 15:00	PJH	TAL CHI
SPLP East	Analysis	6010B		1	304829	09/17/15 22:38	PJ1	TAL CHI
TCLP	Leach	1311			304753	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304900	09/18/15 11:00	JML	TAL CHI
TCLP	Analysis	6010B		1	304995	09/18/15 23:48	KML	TAL CHI
SPLP East	Leach	1312			304407	09/15/15 15:53	FXG	TAL CHI
SPLP East	Prep	3010A			304614	09/16/15 15:00	PJH	TAL CHI
SPLP East	Analysis	6020A		1	304865	09/17/15 17:34	PFK	TAL CHI
TCLP	Leach	1311			304753	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	3010A			304900	09/18/15 11:00	JML	TAL CHI
TCLP	Analysis	6020A		1	305093	09/18/15 17:58	BJH	TAL CHI
SPLP East	Leach	1312			304407	09/15/15 15:53	FXG	TAL CHI
SPLP East	Prep	7470A			304586	09/16/15 17:30	MJD	TAL CHI
SPLP East	Analysis	7470A		1	304834	09/17/15 18:57	MJD	TAL CHI
TCLP	Leach	1311			304753	09/17/15 14:34	FXG	TAL CHI
TCLP	Prep	7470A			304944	09/18/15 15:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	305121	09/21/15 10:20	MJD	TAL CHI
Total/NA	Analysis	9045D		1	304380		SMO	TAL CHI
					(Start)	09/15/15 14:14		
					(End)	09/15/15 14:21		
Total/NA	Analysis	Moisture		1	303958	09/11/15 16:53	LWN	TAL CHI

TestAmerica Chicago

# Lab Chronicle

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

**Client Sample ID: 2233V-1-B23 (0-2)**

**Lab Sample ID: 500-101071-25**

**Date Collected: 09/10/15 07:55**

**Matrix: Solid**

**Date Received: 09/11/15 13:00**

**Percent Solids: 86.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			304001	09/11/15 17:00	WRE	TAL CHI
Total/NA	Analysis	8260B		1	304173	09/15/15 08:08	BDW	TAL CHI
Total/NA	Prep	3541			304034	09/13/15 16:30	DEA	TAL CHI
Total/NA	Analysis	8270D		1	304662	09/17/15 14:55	BJH	TAL CHI
Total/NA	Prep	3050B			304597	09/16/15 20:33	PJH	TAL CHI
Total/NA	Analysis	6010B		1	304831	09/17/15 17:05	PJ1	TAL CHI
Total/NA	Prep	7471B			304521	09/16/15 15:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	304697	09/17/15 11:42	MJD	TAL CHI
Total/NA	Prep	9010B			304558	09/16/15 16:30	ELR	TAL CHI
Total/NA	Analysis	9014		1	304603		ELR	TAL CHI
					(Start)	09/16/15 20:03		
					(End)	09/16/15 20:03		

**Laboratory References:**

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

# Certification Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - I-80 at Briggs Street - WO 011

TestAmerica Job ID: 500-101071-1

## Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

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



# TestAmerica

THE LEADER IN ENVIRONMENTAL

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



500-101071 COC

Report To (optional)  
Contact: Matt Weiss  
Company: Terracon  
Address: 135 Ambassador Dr.  
Address: Niperville, IL 60540  
Phone: 630-717-4263  
Fax: 630-357-9489  
E-Mail: matt.weiss@terracon.com

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

## Chain of Custody Record

Lab Job #: 500-101071  
Chain of Custody Number: \_\_\_\_\_  
Page \_\_\_\_\_ of \_\_\_\_\_  
Temperature °C of Cooler: 3, 4, 28, 3, 1

Client		Client Project #		Preservative		Parameter										Preservative Key		
Project Name		11157111														1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other		
Project Location/State		Lab-Project #																
Joliet, IL																		
Sampler		Lab PM																
Chad Kelly																		
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOCS	SVOCs	Total 24 Inorganics	TCLP 24 Inorganics	SPLP 24 Inorganics	PH					Comments	
			Date	Time														
1		2233V-1-B01 (0-2)	9/10/15	11:45	6	S	✓	✓	✓	✓	✓	✓						
2		2233V-1-B02 (0-2)	9/10/15	11:55	6	S	✓	✓	✓	✓	✓	✓						
3		2233V-1-B03 (0-2)	9/10/15	12:05	6	S	✓	✓	✓	✓	✓	✓						
4		2233V-1-B04 (0-2)	9/10/15	12:15	6	S	✓	✓	✓	✓	✓	✓						
5		2233V-1-B05 (0-2)	9/10/15	12:30	6	S	✓	✓	✓	✓	✓	✓						
6		2233V-1-B06 (0-2)	9/10/15	12:45	6	S	✓	✓	✓	✓	✓	✓						
7		2233V-1-B07 (0-2)	9/10/15	12:55	6	S	✓	✓	✓	✓	✓	✓						
8		2233V-1-B08 (0-2)	9/10/15	11:05	6	S	✓	✓	✓	✓	✓	✓						
9		2233V-1-B09 (0-2)	9/10/15	10:40	6	S	✓	✓	✓	✓	✓	✓						
10		2233V-1-B09 Dup (0-2)	9/10/15	10:45	6	S	✓	✓	✓	✓	✓	✓						

Turnaround Time Required (Business Days) \_\_\_\_\_ Sample Disposal \_\_\_\_\_  
 1 Day 2 Days 5 Days 7 Days  10 Days 15 Days Other \_\_\_\_\_  
 Requested Due Date \_\_\_\_\_ Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>Chad Kelly</u>	Company <u>Terracon</u>	Date <u>9/11/15</u>	Time <u>1030</u>	Received By <u>MR George</u>	Company <u>TA</u>	Date <u>9/11/15</u>	Time <u>1030</u>	Lab Courier <u>TA</u>
Relinquished By <u>George</u>	Company <u>TA</u>	Date <u>9/11/15</u>	Time <u>1300</u>	Received By <u>Shawn Scott</u>	Company <u>TA-COE</u>	Date <u>9/11/15</u>	Time <u>1300</u>	Shipped _____
Relinquished By _____	Company _____	Date _____	Time _____	Received By _____	Company _____	Date _____	Time _____	Hand Delivered _____

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

Client Comments  
Meet IL TAGO Requirements, Please.

Lab Comments:  
 \_\_\_\_\_

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Report To: <u>(optional)</u>	Bill To: <u>(optional)</u>
Contact: <u>Matt Weiss</u>	Contact: _____
Company: <u>Terracon</u>	Company: _____
Address: <u>135 Ambassador Dr.</u>	Address: _____
Address: <u>Naperville, IL 60540</u>	Address: _____
Phone: <u>630-717-4263</u>	Phone: _____
Fax: <u>630-357-9489</u>	Fax: _____
E-Mail: <u>matt.weiss@terracon.com</u>	PO#/Reference# _____

## Chain of Custody Record

Lab Job #: 500-101071

Chain of Custody Number: \_\_\_\_\_

Page \_\_\_\_\_ of \_\_\_\_\_

Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter												Preservative Key		
Project Name		11157111																1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other		
Project Location/State		Lab Project #																		
Joliet, IL																				
Sampler		Lab PM																		
Chad Kelly																				
Lab ID	MIS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOCs	SVOCs	Total 24 Inorganics	TCP 24 Inorganics	SLP 24 Inorganics	pH							Comments	
			Date	Time																
11		2233V-1-B10 (0-2)	9/10/15	10:25	6	S	✓	✓	✓	✓	✓	✓								
12		2233V-1-B11 (0-2)	9/10/15	10:15	6	S	✓	✓	✓	✓	✓	✓								
13		2233V-1-B12 (0-2)	9/10/15	10:05	6	S	✓	✓	✓	✓	✓	✓								
14		2233V-1-B13 (0-2)	9/10/15	9:55	6	S	✓	✓	✓	✓	✓	✓								
15		2233V-1-B14 (0-2)	9/10/15	9:40	6	S	✓	✓	✓	✓	✓	✓								
16		2233V-1-B15 (0-2)	9/10/15	9:25	6	S	✓	✓	✓	✓	✓	✓								
17		2233V-1-B16 (0-2)	9/10/15	9:15	6	S	✓	✓	✓	✓	✓	✓								
18		2233V-1-B17 (0-2)	9/10/15	9:10	6	S	✓	✓	✓	✓	✓	✓								
19		2233V-1-B18 (0-2)	9/10/15	8:55	6	S	✓	✓	✓	✓	✓	✓								
20		2233V-1-B19 (0-2)	9/10/15	8:45	6	S	✓	✓	✓	✓	✓	✓								

Turnaround Time Required (Business Days): 1 Day 2 Days 5 Days 7 Days X 10 Days 15 Days Other

Requested Due Date: \_\_\_\_\_

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

Relinquished By: <u>Chad Kelly</u> Company: <u>Terracon</u> Date: <u>9/11/15</u> Time: <u>10:30</u>	Received By: <u>[Signature]</u> Company: <u>JA</u> Date: <u>9/11/15</u> Time: <u>1:30</u>	Lab Courier: <u>[Signature]</u>
Relinquished By: <u>[Signature]</u> Company: <u>JA</u> Date: <u>9/11/15</u> Time: <u>1:30</u>	Received By: <u>[Signature]</u> Company: <u>JA-CPE</u> Date: <u>9/11/15</u> Time: <u>1:30</u>	Shipped: _____
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____	Hand Delivered: _____

<p>Matrix Key</p> <p>WW - Wastewater SE - Sediment                  W - Water SO - Soil                  S - Soil L - Leachate                  SL - Sludge WI - Wipe                  MS - Miscellaneous DW - Drinking Water                  OL - Oil O - Other                  A - Air</p>	<p>Client Comments: <u>Meet IL TACO Requirements, Please</u></p>	<p>Lab Comments:</p>
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# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Report To (optional) \_\_\_\_\_ Bill To (optional) \_\_\_\_\_  
 Contact: Matt Weiss Contact: \_\_\_\_\_  
 Company: Terracon Company: \_\_\_\_\_  
 Address: 135 Ambassador Drive Address: \_\_\_\_\_  
 Address: Naperville, IL 60540 Address: \_\_\_\_\_  
 Phone: 630-717-4263 Phone: \_\_\_\_\_  
 Fax: 630-357-9489 Fax: \_\_\_\_\_  
 E-Mail: matt.weiss@terracon.com PO#/Reference# \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-101071  
 Chain of Custody Number: \_\_\_\_\_  
 Page \_\_\_\_\_ of \_\_\_\_\_  
 Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter												Preservative Key		
Project Name		11157111																1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other		
Project Location/State		Lab Project #																		
Joliet, IL																				
Sampler		Lab PM																		
Chad Kelly																				
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOCS	SUOCS	Total 24 Inorganics	TCLP 24 Inorganics	SPLP 24 Inorganics	pH							Comments	
			Date	Time																
21	23	2233V-1-B20 (0-2)	9/10/15	8:25	6	S	✓	✓	✓	✓	✓	✓								
22	24	2233V-1-B20 Dup (0-2)	9/10/15	8:30	6	S	✓	✓	✓	✓	✓	✓								
23	25	2233V-1-B21 (0-2)	9/10/15	8:15	6	S	✓	✓	✓	✓	✓	✓								
24	26	2233V-1-B22 (0-2)	9/10/15	8:05	6	S	✓	✓	✓	✓	✓	✓								
25	27	2233V-1-B23 (0-2)	9/10/15	7:55	6	S	✓	✓	✓	✓	✓	✓								

Turnaround Time Required (Business Days): 1 Day 2 Days 5 Days 7 Days  10 Days 15 Days Other \_\_\_\_\_  
 Sample Disposal:  Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)  
 Requested Due Date: \_\_\_\_\_

Relinquished By: <u>Chad Kelly</u> Company: <u>Terracon</u> Date: <u>9/11/15</u> Time: <u>1030</u>	Received By: <u>AR Logan</u> Company: <u>JA</u> Date: <u>9/11/15</u> Time: <u>1030</u>	Lab Courier: <u>JA</u>
Relinquished By: <u>AR Logan</u> Company: <u>JA</u> Date: <u>9/11/15</u> Time: <u>1300</u>	Received By: <u>Shirley</u> Company: <u>JA-CHE</u> Date: <u>9/11/15</u> Time: <u>1300</u>	Shipped: _____
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____	Hand Delivered: _____

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

Client Comments: Meet IL TACO Requirements

Lab Comments: \_\_\_\_\_

## Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-101071-1

**Login Number: 101071**

**List Source: TestAmerica Chicago**

**List Number: 1**

**Creator: Scott, Sherri L**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> 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	3.4,2.8,3.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	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	