



Illinois Environmental Protection Agency

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

Uncontaminated Soil Certification

by Licensed Professional Engineer or Licensed Professional Geologist

for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

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

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

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

I. Source Location Information

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

Project Name: FAU 1319-Ballard Rd Office Phone Number, if available: _____

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

Ballard Road (Eastbound), IDOT STA 7+10 to 8+00 (ISGS Site 3229V-2)

City: Des Plaines State: IL Zip Code: 60016

County: Cook Township: Maine

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

Latitude: 42.04317 Longitude: - 87.86865

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

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

Estimated Volume of debris (cu. Yd.): 26

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Contact: Irma Romiti-Johnson

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

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

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

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

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

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

Soil from boring B01 was sampled adjacent to ISGS Site No 3229V-2.
See Exhibit 2 and Table 1 of the Preliminary Site Investigation Report prepared by Terracon.

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

TestAmerica Lab Report No J177898-1.
Also see Preliminary Site Investigation Report prepared by Terracon. CCDD/USFO facility in MSA County.

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

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

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

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

Matt Weiss
Printed Name:

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

1/22/21
Date:



[Empty Box]
P.E or L.P.G. Seal:

Comparison of Detected Constituents to MACs-PTB 174-009;Work Order:068A

Preliminary Site Investigation

FAU 1319-Ballard Road (PESA #3229V-2)

Des Plaines and Niles, Cook County, IL

Terracon Project No. 11207011C

Page 1 of 2

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	3229V-2-B01 (0-5)
				CCDD	Sample Depth (feet)	(0-5)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	02/13/2020
Semivolatile Organic Analytical Parameters						
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.018
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.016
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.019
Chrysene	mg/kg	1.2	2.7	88		0.019
Fluoranthene	mg/kg	2.7	4.1	3100		0.033
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.01
Phenanthrene	mg/kg	1.3	2.5	210		0.02
Pyrene	mg/kg	1.9	3.0	2300		0.029
Inorganic Analytical Parameters						
Arsenic	mg/kg	---	13	11.3		3.3
Barium	mg/kg	---	110	1500		66
Cadmium	mg/kg	---	0.6	5.2		0.28
Chromium, total	mg/kg	---	16.2	21		14
Lead	mg/kg	---	36	107		19
Mercury	mg/kg	---	0.06	0.89		0.038
Selenium	mg/kg	---	0.48	1.3		0.49
Silver	mg/kg	---	0.55	4.4		0.082
Antimony	mg/kg	---	4.0	5		<0.24
Beryllium	mg/kg	---	0.59	22		0.61
Calcium	mg/kg	---	9,300	---		3200
Cobalt	mg/kg	---	8.9	20		7.7
Copper	mg/kg	---	19.6	2900		14
Cyanide	mg/kg	---	0.51	---		<0.30
Iron	mg/kg	---	15,900	15000		12000
Magnesium	mg/kg	---	4,820	325000		2600
Manganese	mg/kg	---	636	630		270
Nickel	mg/kg	---	18	100		15
Potassium	mg/kg	---	1,268	---		1100
Sodium	mg/kg	---	130	---		970
Thallium	mg/kg	---	0.32	2.6		<0.30
Vanadium	mg/kg	---	25.2	550		24
Zinc	mg/kg	---	95	5100		68
pH			6.25	9		8.2
Inorganic Analytical Parameters (SPLP)						
Antimony,SPLP	mg/L	---	---	---		--
Arsenic,SPLP	mg/L	---	---	---		--
Barium,SPLP	mg/L	---	---	---		--
Beryllium,SPLP	mg/L	---	---	---		--
Cadmium,SPLP	mg/L	---	---	---		--
Calcium,SPLP	mg/L	---	---	---		--
Chromium,SPLP	mg/L	---	---	---		--
Cobalt,SPLP	mg/L	---	---	---		--
Copper,SPLP	mg/L	---	---	---		--
Iron,SPLP	mg/L	---	---	---		--
Lead,SPLP	mg/L	---	---	---		--
Magnesium,SPLP	mg/L	---	---	---		--
Manganese,SPLP	mg/L	---	---	---		1.6
Mercury,SPLP	mg/L	---	---	---		--
Nickel,SPLP	mg/L	---	---	---		--
Potassium,SPLP	mg/L	---	---	---		--
Selenium,SPLP	mg/L	---	---	---		--
Silver,SPLP	mg/L	---	---	---		--
Sodium,SPLP	mg/L	---	---	---		--
Thallium,SPLP	mg/L	---	---	---		--
Vanadium,SPLP	mg/L	---	---	---		--
Zinc,SPLP	mg/L	---	---	---		--
Cyanide,SPLP	mg/L	---	---	---		--

Comparison of Detected Constituents to MACs-PTB 174-009;Work Order:068A

Preliminary Site Investigation

FAU 1319-Ballard Road (PESA #3229V-2)

Des Plaines and Niles, Cook County, IL

Terracon Project No. 11207011C

Page 2 of 2

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	3229V-2-B01 (0-5)
				CCDD	Sample Depth (feet)	(0-5)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	02/13/2020
Inorganic Analytical Parameters (TCLP)						
Arsenic, TCLP	mg/L	---	---	---		<0.010
Barium, TCLP	mg/L	---	---	---		0.23
Cadmium, TCLP	mg/L	---	---	---		<0.0020
Chromium, TCLP	mg/L	---	---	---		<0.010
Lead, TCLP	mg/L	---	---	---		<0.0075
Mercury, TCLP	mg/L	---	---	---		<0.00020
Selenium, TCLP	mg/L	---	---	---		<0.020
Silver, TCLP	mg/L	---	---	---		<0.010
Antimony, TCLP	mg/L	---	---	---		<0.0060
Beryllium, TCLP	mg/L	---	---	---		<0.0040
Calcium, TCLP	mg/L	---	---	---		64
Cobalt, TCLP	mg/L	---	---	---		0.028
Copper, TCLP	mg/L	---	---	---		<0.010
Cyanide, TCLP	mg/L	---	---	---		--
Iron, TCLP	mg/L	---	---	---		<0.20
Magnesium, TCLP	mg/L	---	---	---		19
Manganese, TCLP	mg/L	---	---	---		5.1
Nickel, TCLP	mg/L	---	---	---		0.013
Potassium, TCLP	mg/L	---	---	---		1.5
Sodium, TCLP	mg/L	---	---	---		--
Thallium, TCLP	mg/L	---	---	---		<0.0020
Vanadium, TCLP	mg/L	---	---	---		<0.010
Zinc, TCLP	mg/L	---	---	---		0.069

ANALYTICAL REPORT

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

Laboratory Job ID: 500-177898-1
Client Project/Site: IDOT - PTB 174-009 - WO 068

For:
Environmental Design International, Inc.
33 W. Monroe
Suite 1825
Chicago, Illinois 60603

Attn: Michael Fischer



Authorized for release by:
2/26/2020 1:59:04 PM

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

LINKS

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TotalAccess

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www.testamericainc.com

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

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

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



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Case Narrative

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177898-1

Job ID: 500-177898-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-177898-1

Receipt

The sample was received on 2/14/2020 2:00 PM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.7° C.

GC/MS VOA

Method 8260B: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for 530118 recovered outside control limits for the following analytes: Chloroethane and Chloromethane. These analytes were biased high in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported.3229V-2-B01 (0-5) (500-177898-1)

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

GC/MS Semi VOA

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

Metals

Method 6010B: The laboratory control sample (LCS) for preparation batch 500-530903 and 500-531036 and analytical batch 500-531227 recovered outside control limits for the following analytes: Zinc. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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

General Chemistry

Method 9045D: Reanalysis of the following pH samples was performed outside of the analytical holding time due to an instrument malfunction : 3229V-2-B01 (0-5) (500-177898-1).

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

Organic Prep

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

Detection Summary

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177898-1

Client Sample ID: 3229V-2-B01 (0-5)

Lab Sample ID: 500-177898-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.018	J	0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.016	J	0.040	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.019	J	0.040	0.0086	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.019	J	0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.033	J	0.040	0.0074	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.010	J	0.040	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.020	J	0.040	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.029	J	0.040	0.0079	mg/Kg	1	☼	8270D	Total/NA
Arsenic	3.3		0.61	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	66		0.61	0.069	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.61		0.24	0.057	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.28	B	0.12	0.022	mg/Kg	1	☼	6010B	Total/NA
Chromium	14		0.61	0.30	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.7		0.30	0.080	mg/Kg	1	☼	6010B	Total/NA
Copper	14		0.61	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	12000		12	6.3	mg/Kg	1	☼	6010B	Total/NA
Lead	19		0.30	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2600		6.1	3.0	mg/Kg	1	☼	6010B	Total/NA
Calcium	3200		12	2.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	270		0.61	0.088	mg/Kg	1	☼	6010B	Total/NA
Nickel	15		0.61	0.18	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.49	J	0.61	0.36	mg/Kg	1	☼	6010B	Total/NA
Silver	0.082	J	0.30	0.079	mg/Kg	1	☼	6010B	Total/NA
Vanadium	24		0.30	0.072	mg/Kg	1	☼	6010B	Total/NA
Zinc	68		1.2	0.54	mg/Kg	1	☼	6010B	Total/NA
Potassium	1100		30	11	mg/Kg	1	☼	6010B	Total/NA
Sodium	970		61	9.0	mg/Kg	1	☼	6010B	Total/NA
Barium	0.23	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	64		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.028		0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	19		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	5.1		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.5	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.069	J*	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.6		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.038		0.020	0.0067	mg/Kg	1	☼	7471B	Total/NA
pH	8.2		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Method Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177898-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9014	Cyanide	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
1311	TCLP Extraction	SW846	TAL CHI
1312	SPLP Extraction	SW846	TAL CHI
3010A	Preparation, Total Metals	SW846	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL CHI
7471B	Preparation, Mercury	SW846	TAL CHI
9010B	Cyanide, Distillation	SW846	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177898-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-177898-1	3229V-2-B01 (0-5)	Solid	02/13/20 09:35	02/14/20 14:00	

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Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177898-1

Client Sample ID: 3229V-2-B01 (0-5)

Lab Sample ID: 500-177898-1

Date Collected: 02/13/20 09:35

Matrix: Solid

Date Received: 02/14/20 14:00

Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0078		0.018	0.0078	mg/Kg	☼	02/14/20 17:08	02/18/20 12:55	1
Benzene	<0.00046		0.0018	0.00046	mg/Kg	☼	02/14/20 17:08	02/18/20 12:55	1
Bromodichloromethane	<0.00037		0.0018	0.00037	mg/Kg	☼	02/14/20 17:08	02/18/20 12:55	1
Bromoform	<0.00053		0.0018	0.00053	mg/Kg	☼	02/14/20 17:08	02/18/20 12:55	1
Bromomethane	<0.0017		0.0045	0.0017	mg/Kg	☼	02/14/20 17:08	02/18/20 12:55	1
2-Butanone (MEK)	<0.0020		0.0045	0.0020	mg/Kg	☼	02/14/20 17:08	02/18/20 12:55	1
Carbon disulfide	<0.00094		0.0045	0.00094	mg/Kg	☼	02/14/20 17:08	02/18/20 12:55	1
Carbon tetrachloride	<0.00052		0.0018	0.00052	mg/Kg	☼	02/14/20 17:08	02/18/20 12:55	1
Chlorobenzene	<0.00066		0.0018	0.00066	mg/Kg	☼	02/14/20 17:08	02/18/20 12:55	1
Chloroethane	<0.0013	*	0.0045	0.0013	mg/Kg	☼	02/14/20 17:08	02/18/20 12:55	1
Chloroform	<0.00062		0.0018	0.00062	mg/Kg	☼	02/14/20 17:08	02/18/20 12:55	1
Chloromethane	<0.0018	*	0.0045	0.0018	mg/Kg	☼	02/14/20 17:08	02/18/20 12:55	1
cis-1,2-Dichloroethene	<0.00050		0.0018	0.00050	mg/Kg	☼	02/14/20 17:08	02/18/20 12:55	1
cis-1,3-Dichloropropene	<0.00054		0.0018	0.00054	mg/Kg	☼	02/14/20 17:08	02/18/20 12:55	1
Dibromochloromethane	<0.00059		0.0018	0.00059	mg/Kg	☼	02/14/20 17:08	02/18/20 12:55	1
1,1-Dichloroethane	<0.00062		0.0018	0.00062	mg/Kg	☼	02/14/20 17:08	02/18/20 12:55	1
1,2-Dichloroethane	<0.0014		0.0045	0.0014	mg/Kg	☼	02/14/20 17:08	02/18/20 12:55	1
1,1-Dichloroethene	<0.00062		0.0018	0.00062	mg/Kg	☼	02/14/20 17:08	02/18/20 12:55	1
1,2-Dichloropropane	<0.00047		0.0018	0.00047	mg/Kg	☼	02/14/20 17:08	02/18/20 12:55	1
1,3-Dichloropropane, Total	<0.00063		0.0018	0.00063	mg/Kg	☼	02/14/20 17:08	02/18/20 12:55	1
Ethylbenzene	<0.00086		0.0018	0.00086	mg/Kg	☼	02/14/20 17:08	02/18/20 12:55	1
2-Hexanone	<0.0014		0.0045	0.0014	mg/Kg	☼	02/14/20 17:08	02/18/20 12:55	1
Methylene Chloride	<0.0018		0.0045	0.0018	mg/Kg	☼	02/14/20 17:08	02/18/20 12:55	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0045	0.0013	mg/Kg	☼	02/14/20 17:08	02/18/20 12:55	1
Methyl tert-butyl ether	<0.00053		0.0018	0.00053	mg/Kg	☼	02/14/20 17:08	02/18/20 12:55	1
Styrene	<0.00054		0.0018	0.00054	mg/Kg	☼	02/14/20 17:08	02/18/20 12:55	1
1,1,2,2-Tetrachloroethane	<0.00058		0.0018	0.00058	mg/Kg	☼	02/14/20 17:08	02/18/20 12:55	1
Tetrachloroethene	<0.00061		0.0018	0.00061	mg/Kg	☼	02/14/20 17:08	02/18/20 12:55	1
Toluene	<0.00045		0.0018	0.00045	mg/Kg	☼	02/14/20 17:08	02/18/20 12:55	1
trans-1,2-Dichloroethene	<0.00080		0.0018	0.00080	mg/Kg	☼	02/14/20 17:08	02/18/20 12:55	1
trans-1,3-Dichloropropene	<0.00063		0.0018	0.00063	mg/Kg	☼	02/14/20 17:08	02/18/20 12:55	1
1,1,1-Trichloroethane	<0.00060		0.0018	0.00060	mg/Kg	☼	02/14/20 17:08	02/18/20 12:55	1
1,1,2-Trichloroethane	<0.00077		0.0018	0.00077	mg/Kg	☼	02/14/20 17:08	02/18/20 12:55	1
Trichloroethene	<0.00061		0.0018	0.00061	mg/Kg	☼	02/14/20 17:08	02/18/20 12:55	1
Vinyl acetate	<0.0016		0.0045	0.0016	mg/Kg	☼	02/14/20 17:08	02/18/20 12:55	1
Vinyl chloride	<0.00080		0.0018	0.00080	mg/Kg	☼	02/14/20 17:08	02/18/20 12:55	1
Xylenes, Total	<0.00058		0.0036	0.00058	mg/Kg	☼	02/14/20 17:08	02/18/20 12:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		75 - 131	02/14/20 17:08	02/18/20 12:55	1
Dibromofluoromethane	97		75 - 126	02/14/20 17:08	02/18/20 12:55	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	02/14/20 17:08	02/18/20 12:55	1
Toluene-d8 (Surr)	95		75 - 124	02/14/20 17:08	02/18/20 12:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0071		0.040	0.0071	mg/Kg	☼	02/14/20 16:50	02/16/20 21:01	1
Acenaphthylene	<0.0052		0.040	0.0052	mg/Kg	☼	02/14/20 16:50	02/16/20 21:01	1
Anthracene	<0.0066		0.040	0.0066	mg/Kg	☼	02/14/20 16:50	02/16/20 21:01	1
Benzo[a]anthracene	0.018	J	0.040	0.0054	mg/Kg	☼	02/14/20 16:50	02/16/20 21:01	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177898-1

Client Sample ID: 3229V-2-B01 (0-5)

Lab Sample ID: 500-177898-1

Date Collected: 02/13/20 09:35

Matrix: Solid

Date Received: 02/14/20 14:00

Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.016	J	0.040	0.0077	mg/Kg	☼	02/14/20 16:50	02/16/20 21:01	1
Benzo[b]fluoranthene	0.019	J	0.040	0.0086	mg/Kg	☼	02/14/20 16:50	02/16/20 21:01	1
Benzo[g,h,i]perylene	<0.013		0.040	0.013	mg/Kg	☼	02/14/20 16:50	02/16/20 21:01	1
Benzo[k]fluoranthene	<0.012		0.040	0.012	mg/Kg	☼	02/14/20 16:50	02/16/20 21:01	1
Bis(2-chloroethoxy)methane	<0.041		0.20	0.041	mg/Kg	☼	02/14/20 16:50	02/16/20 21:01	1
Bis(2-chloroethyl)ether	<0.060		0.20	0.060	mg/Kg	☼	02/14/20 16:50	02/16/20 21:01	1
Bis(2-ethylhexyl) phthalate	<0.073		0.20	0.073	mg/Kg	☼	02/14/20 16:50	02/16/20 21:01	1
4-Bromophenyl phenyl ether	<0.052		0.20	0.052	mg/Kg	☼	02/14/20 16:50	02/16/20 21:01	1
Butyl benzyl phthalate	<0.076		0.20	0.076	mg/Kg	☼	02/14/20 16:50	02/16/20 21:01	1
Carbazole	<0.099		0.20	0.099	mg/Kg	☼	02/14/20 16:50	02/16/20 21:01	1
4-Chloroaniline	<0.19		0.80	0.19	mg/Kg	☼	02/14/20 16:50	02/16/20 21:01	1
4-Chloro-3-methylphenol	<0.14		0.40	0.14	mg/Kg	☼	02/14/20 16:50	02/16/20 21:01	1
2-Chloronaphthalene	<0.044		0.20	0.044	mg/Kg	☼	02/14/20 16:50	02/16/20 21:01	1
2-Chlorophenol	<0.068		0.20	0.068	mg/Kg	☼	02/14/20 16:50	02/16/20 21:01	1
4-Chlorophenyl phenyl ether	<0.046		0.20	0.046	mg/Kg	☼	02/14/20 16:50	02/16/20 21:01	1
Chrysene	0.019	J	0.040	0.011	mg/Kg	☼	02/14/20 16:50	02/16/20 21:01	1
Dibenz(a,h)anthracene	<0.0077		0.040	0.0077	mg/Kg	☼	02/14/20 16:50	02/16/20 21:01	1
Dibenzofuran	<0.047		0.20	0.047	mg/Kg	☼	02/14/20 16:50	02/16/20 21:01	1
1,2-Dichlorobenzene	<0.048		0.20	0.048	mg/Kg	☼	02/14/20 16:50	02/16/20 21:01	1
1,3-Dichlorobenzene	<0.045		0.20	0.045	mg/Kg	☼	02/14/20 16:50	02/16/20 21:01	1
1,4-Dichlorobenzene	<0.051		0.20	0.051	mg/Kg	☼	02/14/20 16:50	02/16/20 21:01	1
3,3'-Dichlorobenzidine	<0.056		0.20	0.056	mg/Kg	☼	02/14/20 16:50	02/16/20 21:01	1
2,4-Dichlorophenol	<0.094		0.40	0.094	mg/Kg	☼	02/14/20 16:50	02/16/20 21:01	1
Diethyl phthalate	<0.067		0.20	0.067	mg/Kg	☼	02/14/20 16:50	02/16/20 21:01	1
2,4-Dimethylphenol	<0.15		0.40	0.15	mg/Kg	☼	02/14/20 16:50	02/16/20 21:01	1
Dimethyl phthalate	<0.052		0.20	0.052	mg/Kg	☼	02/14/20 16:50	02/16/20 21:01	1
Di-n-butyl phthalate	<0.061		0.20	0.061	mg/Kg	☼	02/14/20 16:50	02/16/20 21:01	1
4,6-Dinitro-2-methylphenol	<0.32		0.80	0.32	mg/Kg	☼	02/14/20 16:50	02/16/20 21:01	1
2,4-Dinitrophenol	<0.70		0.80	0.70	mg/Kg	☼	02/14/20 16:50	02/16/20 21:01	1
2,4-Dinitrotoluene	<0.063		0.20	0.063	mg/Kg	☼	02/14/20 16:50	02/16/20 21:01	1
2,6-Dinitrotoluene	<0.078		0.20	0.078	mg/Kg	☼	02/14/20 16:50	02/16/20 21:01	1
Di-n-octyl phthalate	<0.065		0.20	0.065	mg/Kg	☼	02/14/20 16:50	02/16/20 21:01	1
Fluoranthene	0.033	J	0.040	0.0074	mg/Kg	☼	02/14/20 16:50	02/16/20 21:01	1
Fluorene	<0.0056		0.040	0.0056	mg/Kg	☼	02/14/20 16:50	02/16/20 21:01	1
Hexachlorobenzene	<0.0092		0.080	0.0092	mg/Kg	☼	02/14/20 16:50	02/16/20 21:01	1
Hexachlorobutadiene	<0.063		0.20	0.063	mg/Kg	☼	02/14/20 16:50	02/16/20 21:01	1
Hexachlorocyclopentadiene	<0.23		0.80	0.23	mg/Kg	☼	02/14/20 16:50	02/16/20 21:01	1
Hexachloroethane	<0.060		0.20	0.060	mg/Kg	☼	02/14/20 16:50	02/16/20 21:01	1
Indeno[1,2,3-cd]pyrene	0.010	J	0.040	0.010	mg/Kg	☼	02/14/20 16:50	02/16/20 21:01	1
Isophorone	<0.045		0.20	0.045	mg/Kg	☼	02/14/20 16:50	02/16/20 21:01	1
2-Methylnaphthalene	<0.0073		0.080	0.0073	mg/Kg	☼	02/14/20 16:50	02/16/20 21:01	1
2-Methylphenol	<0.064		0.20	0.064	mg/Kg	☼	02/14/20 16:50	02/16/20 21:01	1
3 & 4 Methylphenol	<0.066		0.20	0.066	mg/Kg	☼	02/14/20 16:50	02/16/20 21:01	1
Naphthalene	<0.0061		0.040	0.0061	mg/Kg	☼	02/14/20 16:50	02/16/20 21:01	1
2-Nitroaniline	<0.054		0.20	0.054	mg/Kg	☼	02/14/20 16:50	02/16/20 21:01	1
3-Nitroaniline	<0.12		0.40	0.12	mg/Kg	☼	02/14/20 16:50	02/16/20 21:01	1
4-Nitroaniline	<0.17		0.40	0.17	mg/Kg	☼	02/14/20 16:50	02/16/20 21:01	1
Nitrobenzene	<0.0099		0.040	0.0099	mg/Kg	☼	02/14/20 16:50	02/16/20 21:01	1
2-Nitrophenol	<0.094		0.40	0.094	mg/Kg	☼	02/14/20 16:50	02/16/20 21:01	1

Euofins TestAmerica, Chicago

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177898-1

Client Sample ID: 3229V-2-B01 (0-5)

Lab Sample ID: 500-177898-1

Date Collected: 02/13/20 09:35

Matrix: Solid

Date Received: 02/14/20 14:00

Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.38		0.80	0.38	mg/Kg	☼	02/14/20 16:50	02/16/20 21:01	1
N-Nitrosodi-n-propylamine	<0.049		0.080	0.049	mg/Kg	☼	02/14/20 16:50	02/16/20 21:01	1
N-Nitrosodiphenylamine	<0.047		0.20	0.047	mg/Kg	☼	02/14/20 16:50	02/16/20 21:01	1
2,2'-oxybis[1-chloropropane]	<0.046		0.20	0.046	mg/Kg	☼	02/14/20 16:50	02/16/20 21:01	1
Pentachlorophenol	<0.64		0.80	0.64	mg/Kg	☼	02/14/20 16:50	02/16/20 21:01	1
Phenanthrene	0.020	J	0.040	0.0055	mg/Kg	☼	02/14/20 16:50	02/16/20 21:01	1
Phenol	<0.088		0.20	0.088	mg/Kg	☼	02/14/20 16:50	02/16/20 21:01	1
Pyrene	0.029	J	0.040	0.0079	mg/Kg	☼	02/14/20 16:50	02/16/20 21:01	1
1,2,4-Trichlorobenzene	<0.043		0.20	0.043	mg/Kg	☼	02/14/20 16:50	02/16/20 21:01	1
2,4,5-Trichlorophenol	<0.091		0.40	0.091	mg/Kg	☼	02/14/20 16:50	02/16/20 21:01	1
2,4,6-Trichlorophenol	<0.14		0.40	0.14	mg/Kg	☼	02/14/20 16:50	02/16/20 21:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	97		43 - 145				02/14/20 16:50	02/16/20 21:01	1
2-Fluorophenol	90		31 - 166				02/14/20 16:50	02/16/20 21:01	1
Nitrobenzene-d5	87		37 - 147				02/14/20 16:50	02/16/20 21:01	1
Phenol-d5	81		30 - 153				02/14/20 16:50	02/16/20 21:01	1
Terphenyl-d14	121		42 - 157				02/14/20 16:50	02/16/20 21:01	1
2,4,6-Tribromophenol	116		31 - 143				02/14/20 16:50	02/16/20 21:01	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.24		1.2	0.24	mg/Kg	☼	02/18/20 16:42	02/19/20 14:50	1
Arsenic	3.3		0.61	0.21	mg/Kg	☼	02/18/20 16:42	02/19/20 14:50	1
Barium	66		0.61	0.069	mg/Kg	☼	02/18/20 16:42	02/19/20 14:50	1
Beryllium	0.61		0.24	0.057	mg/Kg	☼	02/18/20 16:42	02/19/20 14:50	1
Cadmium	0.28	B	0.12	0.022	mg/Kg	☼	02/18/20 16:42	02/19/20 14:50	1
Chromium	14		0.61	0.30	mg/Kg	☼	02/18/20 16:42	02/19/20 14:50	1
Cobalt	7.7		0.30	0.080	mg/Kg	☼	02/18/20 16:42	02/19/20 14:50	1
Copper	14		0.61	0.17	mg/Kg	☼	02/18/20 16:42	02/19/20 14:50	1
Iron	12000		12	6.3	mg/Kg	☼	02/18/20 16:42	02/19/20 14:50	1
Lead	19		0.30	0.14	mg/Kg	☼	02/18/20 16:42	02/19/20 14:50	1
Magnesium	2600		6.1	3.0	mg/Kg	☼	02/18/20 16:42	02/19/20 14:50	1
Calcium	3200		12	2.1	mg/Kg	☼	02/18/20 16:42	02/19/20 14:50	1
Manganese	270		0.61	0.088	mg/Kg	☼	02/18/20 16:42	02/19/20 14:50	1
Nickel	15		0.61	0.18	mg/Kg	☼	02/18/20 16:42	02/19/20 14:50	1
Selenium	0.49	J	0.61	0.36	mg/Kg	☼	02/18/20 16:42	02/19/20 14:50	1
Silver	0.082	J	0.30	0.079	mg/Kg	☼	02/18/20 16:42	02/19/20 14:50	1
Thallium	<0.30		0.61	0.30	mg/Kg	☼	02/18/20 16:42	02/19/20 14:50	1
Vanadium	24		0.30	0.072	mg/Kg	☼	02/18/20 16:42	02/19/20 14:50	1
Zinc	68		1.2	0.54	mg/Kg	☼	02/18/20 16:42	02/19/20 14:50	1
Potassium	1100		30	11	mg/Kg	☼	02/18/20 16:42	02/19/20 14:50	1
Sodium	970		61	9.0	mg/Kg	☼	02/18/20 16:42	02/19/20 14:50	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		02/24/20 06:22	02/24/20 17:48	1
Barium	0.23	J	0.50	0.050	mg/L		02/24/20 06:22	02/24/20 17:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/24/20 06:22	02/24/20 17:48	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		02/24/20 06:22	02/24/20 17:48	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177898-1

Client Sample ID: 3229V-2-B01 (0-5)

Lab Sample ID: 500-177898-1

Date Collected: 02/13/20 09:35

Matrix: Solid

Date Received: 02/14/20 14:00

Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	64		5.0	0.50	mg/L		02/24/20 06:22	02/24/20 17:48	1
Chromium	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 17:48	1
Cobalt	0.028		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 17:48	1
Copper	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 17:48	1
Iron	<0.20		0.40	0.20	mg/L		02/24/20 06:22	02/24/20 17:48	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/24/20 06:22	02/24/20 17:48	1
Magnesium	19		2.5	0.50	mg/L		02/24/20 06:22	02/24/20 17:48	1
Manganese	5.1		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 17:48	1
Nickel	0.013	J	0.025	0.010	mg/L		02/24/20 06:22	02/24/20 17:48	1
Potassium	1.5	J	2.5	0.50	mg/L		02/24/20 06:22	02/24/20 17:48	1
Selenium	<0.020		0.050	0.020	mg/L		02/24/20 06:22	02/24/20 17:48	1
Silver	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 17:48	1
Vanadium	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 17:48	1
Zinc	0.069	J*	0.50	0.020	mg/L		02/24/20 06:22	02/24/20 17:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.6		0.025	0.010	mg/L		02/24/20 06:19	02/24/20 18:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/24/20 06:22	02/24/20 19:24	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/24/20 06:22	02/24/20 19:24	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/24/20 10:20	02/25/20 09:08	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038		0.020	0.0067	mg/Kg	☼	02/21/20 15:40	02/24/20 10:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.30		0.61	0.30	mg/Kg	☼	02/24/20 09:45	02/24/20 13:50	1
pH	8.2		0.2	0.2	SU			02/22/20 18:46	1

Definitions/Glossary

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177898-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

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

Glossary

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

QC Association Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177898-1

GC/MS VOA

Prep Batch: 529871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177898-1	3229V-2-B01 (0-5)	Total/NA	Solid	5035	

Analysis Batch: 530118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177898-1	3229V-2-B01 (0-5)	Total/NA	Solid	8260B	529871
MB 500-530118/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-530118/4	Lab Control Sample	Total/NA	Solid	8260B	
LCS 500-530118/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 529816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177898-1	3229V-2-B01 (0-5)	Total/NA	Solid	3541	
MB 500-529816/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-529816/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 529887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177898-1	3229V-2-B01 (0-5)	Total/NA	Solid	8270D	529816
MB 500-529816/1-A	Method Blank	Total/NA	Solid	8270D	529816
LCS 500-529816/2-A	Lab Control Sample	Total/NA	Solid	8270D	529816

Metals

Prep Batch: 530259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177898-1	3229V-2-B01 (0-5)	Total/NA	Solid	3050B	
MB 500-530259/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-530259/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 530529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177898-1	3229V-2-B01 (0-5)	Total/NA	Solid	6010B	530259
MB 500-530259/1-A	Method Blank	Total/NA	Solid	6010B	530259
LCS 500-530259/2-A	Lab Control Sample	Total/NA	Solid	6010B	530259

Prep Batch: 530893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177898-1	3229V-2-B01 (0-5)	Total/NA	Solid	7471B	
MB 500-530893/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-530893/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Leach Batch: 530902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177898-1	3229V-2-B01 (0-5)	SPLP East	Solid	1312	
LB 500-530902/1-B	Method Blank	SPLP East	Solid	1312	

Leach Batch: 530903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177898-1	3229V-2-B01 (0-5)	TCLP	Solid	1311	
LB 500-530903/1-B	Method Blank	TCLP	Solid	1311	

Eurofins TestAmerica, Chicago

QC Association Summary

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177898-1

Metals (Continued)

Leach Batch: 530903 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 500-530903/2-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 531035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177898-1	3229V-2-B01 (0-5)	SPLP East	Solid	3010A	530902
LB 500-530902/1-B	Method Blank	SPLP East	Solid	3010A	530902
LCS 500-531035/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 531036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177898-1	3229V-2-B01 (0-5)	TCLP	Solid	3010A	530903
LB 500-530903/1-B	Method Blank	TCLP	Solid	3010A	530903
LCS 500-531036/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 531122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177898-1	3229V-2-B01 (0-5)	TCLP	Solid	7470A	530903
LB 500-530903/2-B	Method Blank	TCLP	Solid	7470A	530903
MB 500-531122/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-531122/14-A	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 531150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177898-1	3229V-2-B01 (0-5)	Total/NA	Solid	7471B	530893
MB 500-530893/12-A	Method Blank	Total/NA	Solid	7471B	530893
LCS 500-530893/13-A	Lab Control Sample	Total/NA	Solid	7471B	530893

Analysis Batch: 531227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177898-1	3229V-2-B01 (0-5)	TCLP	Solid	6010B	531036
LB 500-530903/1-B	Method Blank	TCLP	Solid	6010B	531036
LCS 500-531036/2-A	Lab Control Sample	Total/NA	Solid	6010B	531036

Analysis Batch: 531230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177898-1	3229V-2-B01 (0-5)	SPLP East	Solid	6010B	531035
LB 500-530902/1-B	Method Blank	SPLP East	Solid	6010B	531035
LCS 500-531035/2-A	Lab Control Sample	Total/NA	Solid	6010B	531035

Analysis Batch: 531307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177898-1	3229V-2-B01 (0-5)	TCLP	Solid	6020A	531036
LB 500-530903/1-B	Method Blank	TCLP	Solid	6020A	531036
LCS 500-531036/2-A	Lab Control Sample	Total/NA	Solid	6020A	531036

Analysis Batch: 531315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177898-1	3229V-2-B01 (0-5)	TCLP	Solid	7470A	531122
LB 500-530903/2-B	Method Blank	TCLP	Solid	7470A	531122
MB 500-531122/12-A	Method Blank	Total/NA	Solid	7470A	531122
LCS 500-531122/14-A	Lab Control Sample	Total/NA	Solid	7470A	531122

Eurofins TestAmerica, Chicago

QC Association Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177898-1

General Chemistry

Analysis Batch: 530170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177898-1	3229V-2-B01 (0-5)	Total/NA	Solid	Moisture	

Analysis Batch: 531081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177898-1	3229V-2-B01 (0-5)	Total/NA	Solid	9045D	
LCS 500-531081/6	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-531081/7	Lab Control Sample Dup	Total/NA	Solid	9045D	

Prep Batch: 531089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177898-1	3229V-2-B01 (0-5)	Total/NA	Solid	9010B	
MB 500-531089/1-A	Method Blank	Total/NA	Solid	9010B	
LCS 500-531089/2-A	Lab Control Sample	Total/NA	Solid	9010B	

Analysis Batch: 531173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177898-1	3229V-2-B01 (0-5)	Total/NA	Solid	9014	531089
MB 500-531089/1-A	Method Blank	Total/NA	Solid	9014	531089
LCS 500-531089/2-A	Lab Control Sample	Total/NA	Solid	9014	531089

Surrogate Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177898-1

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB (75-131)	DBFM (75-126)	DCA (70-134)	TOL (75-124)
500-177898-1	3229V-2-B01 (0-5)	104	97	94	95
LCS 500-530118/4	Lab Control Sample	100	94	89	90
LCSD 500-530118/5	Lab Control Sample Dup	103	98	87	93
MB 500-530118/7	Method Blank	100	88	91	94

Surrogate Legend

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

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	FBP (43-145)	2FP (31-166)	NBZ (37-147)	PHL (30-153)	TPHL (42-157)	TBP (31-143)
500-177898-1	3229V-2-B01 (0-5)	97	90	87	81	121	116
LCS 500-529816/2-A	Lab Control Sample	114	109	102	111	113	120
MB 500-529816/1-A	Method Blank	109	113	104	102	140	97

Surrogate Legend

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPHL = Terphenyl-d14
TBP = 2,4,6-Tribromophenol

QC Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177898-1

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

Lab Sample ID: MB 500-530118/7
Matrix: Solid
Analysis Batch: 530118

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.0087		0.020	0.0087	mg/Kg			02/18/20 11:13	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg			02/18/20 11:13	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg			02/18/20 11:13	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg			02/18/20 11:13	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg			02/18/20 11:13	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			02/18/20 11:13	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg			02/18/20 11:13	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg			02/18/20 11:13	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg			02/18/20 11:13	1
Chloroethane	<0.0015		0.0050	0.0015	mg/Kg			02/18/20 11:13	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg			02/18/20 11:13	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg			02/18/20 11:13	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg			02/18/20 11:13	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg			02/18/20 11:13	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg			02/18/20 11:13	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg			02/18/20 11:13	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg			02/18/20 11:13	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg			02/18/20 11:13	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			02/18/20 11:13	1
1,3-Dichloropropene, Total	<0.00070		0.0020	0.00070	mg/Kg			02/18/20 11:13	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg			02/18/20 11:13	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg			02/18/20 11:13	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg			02/18/20 11:13	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg			02/18/20 11:13	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg			02/18/20 11:13	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg			02/18/20 11:13	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg			02/18/20 11:13	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg			02/18/20 11:13	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg			02/18/20 11:13	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg			02/18/20 11:13	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg			02/18/20 11:13	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg			02/18/20 11:13	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg			02/18/20 11:13	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg			02/18/20 11:13	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg			02/18/20 11:13	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg			02/18/20 11:13	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg			02/18/20 11:13	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	100		75 - 131		02/18/20 11:13	1
Dibromofluoromethane	88		75 - 126		02/18/20 11:13	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134		02/18/20 11:13	1
Toluene-d8 (Surr)	94		75 - 124		02/18/20 11:13	1

QC Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177898-1

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

Lab Sample ID: LCS 500-530118/4

Matrix: Solid

Analysis Batch: 530118

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	0.0519		mg/Kg		104	40 - 150
Benzene	0.0500	0.0456		mg/Kg		91	70 - 125
Bromodichloromethane	0.0500	0.0426		mg/Kg		85	67 - 129
Bromoform	0.0500	0.0414		mg/Kg		83	68 - 136
Bromomethane	0.0500	0.0574		mg/Kg		115	70 - 130
2-Butanone (MEK)	0.0500	0.0503		mg/Kg		101	47 - 138
Carbon disulfide	0.0500	0.0438		mg/Kg		88	70 - 129
Carbon tetrachloride	0.0500	0.0447		mg/Kg		89	75 - 125
Chlorobenzene	0.0500	0.0445		mg/Kg		89	50 - 150
Chloroethane	0.0500	0.0754	*	mg/Kg		151	75 - 125
Chloroform	0.0500	0.0454		mg/Kg		91	57 - 135
Chloromethane	0.0500	0.0665	*	mg/Kg		133	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0471		mg/Kg		94	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0390		mg/Kg		78	70 - 125
Dibromochloromethane	0.0500	0.0399		mg/Kg		80	69 - 125
1,1-Dichloroethane	0.0500	0.0476		mg/Kg		95	70 - 125
1,2-Dichloroethane	0.0500	0.0448		mg/Kg		90	70 - 130
1,1-Dichloroethene	0.0500	0.0472		mg/Kg		94	70 - 120
1,2-Dichloropropane	0.0500	0.0452		mg/Kg		90	70 - 125
Ethylbenzene	0.0500	0.0432		mg/Kg		86	61 - 136
2-Hexanone	0.0500	0.0505		mg/Kg		101	48 - 146
Methylene Chloride	0.0500	0.0482		mg/Kg		96	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0478		mg/Kg		96	50 - 148
Methyl tert-butyl ether	0.0500	0.0467		mg/Kg		93	50 - 140
Styrene	0.0500	0.0435		mg/Kg		87	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0462		mg/Kg		92	70 - 122
Tetrachloroethene	0.0500	0.0471		mg/Kg		94	70 - 124
Toluene	0.0500	0.0423		mg/Kg		85	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0490		mg/Kg		98	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0383		mg/Kg		77	70 - 125
1,1,1-Trichloroethane	0.0500	0.0459		mg/Kg		92	70 - 128
1,1,2-Trichloroethane	0.0500	0.0425		mg/Kg		85	70 - 125
Trichloroethene	0.0500	0.0464		mg/Kg		93	70 - 125
Vinyl acetate	0.0500	0.0509		mg/Kg		102	40 - 153
Vinyl chloride	0.0500	0.0568		mg/Kg		114	70 - 125
Xylenes, Total	0.100	0.0863		mg/Kg		86	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	100		75 - 131
Dibromofluoromethane	94		75 - 126
1,2-Dichloroethane-d4 (Surr)	89		70 - 134
Toluene-d8 (Surr)	90		75 - 124

QC Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177898-1

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

Lab Sample ID: LCSD 500-530118/5
Matrix: Solid
Analysis Batch: 530118

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	0.0481		mg/Kg		96	40 - 150	8	30
Benzene	0.0500	0.0448		mg/Kg		90	70 - 125	2	30
Bromodichloromethane	0.0500	0.0417		mg/Kg		83	67 - 129	2	30
Bromoform	0.0500	0.0405		mg/Kg		81	68 - 136	2	30
Bromomethane	0.0500	0.0512		mg/Kg		102	70 - 130	11	30
2-Butanone (MEK)	0.0500	0.0424		mg/Kg		85	47 - 138	17	30
Carbon disulfide	0.0500	0.0438		mg/Kg		88	70 - 129	0	30
Carbon tetrachloride	0.0500	0.0435		mg/Kg		87	75 - 125	3	30
Chlorobenzene	0.0500	0.0437		mg/Kg		87	50 - 150	2	30
Chloroethane	0.0500	0.0688	*	mg/Kg		138	75 - 125	9	30
Chloroform	0.0500	0.0452		mg/Kg		90	57 - 135	0	30
Chloromethane	0.0500	0.0643	*	mg/Kg		129	70 - 125	3	30
cis-1,2-Dichloroethene	0.0500	0.0476		mg/Kg		95	70 - 125	1	30
cis-1,3-Dichloropropene	0.0500	0.0383		mg/Kg		77	70 - 125	2	30
Dibromochloromethane	0.0500	0.0397		mg/Kg		79	69 - 125	0	30
1,1-Dichloroethane	0.0500	0.0470		mg/Kg		94	70 - 125	1	30
1,2-Dichloroethane	0.0500	0.0433		mg/Kg		87	70 - 130	3	30
1,1-Dichloroethene	0.0500	0.0471		mg/Kg		94	70 - 120	0	30
1,2-Dichloropropane	0.0500	0.0445		mg/Kg		89	70 - 125	2	30
Ethylbenzene	0.0500	0.0425		mg/Kg		85	61 - 136	2	30
2-Hexanone	0.0500	0.0421		mg/Kg		84	48 - 146	18	30
Methylene Chloride	0.0500	0.0483		mg/Kg		97	70 - 126	0	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0396		mg/Kg		79	50 - 148	19	30
Methyl tert-butyl ether	0.0500	0.0451		mg/Kg		90	50 - 140	4	30
Styrene	0.0500	0.0420		mg/Kg		84	70 - 125	4	30
1,1,2,2-Tetrachloroethane	0.0500	0.0439		mg/Kg		88	70 - 122	5	30
Tetrachloroethene	0.0500	0.0468		mg/Kg		94	70 - 124	1	30
Toluene	0.0500	0.0412		mg/Kg		82	70 - 125	3	30
trans-1,2-Dichloroethene	0.0500	0.0485		mg/Kg		97	70 - 125	1	30
trans-1,3-Dichloropropene	0.0500	0.0384		mg/Kg		77	70 - 125	0	30
1,1,1-Trichloroethane	0.0500	0.0453		mg/Kg		91	70 - 128	1	30
1,1,2-Trichloroethane	0.0500	0.0418		mg/Kg		84	70 - 125	2	30
Trichloroethene	0.0500	0.0461		mg/Kg		92	70 - 125	1	30
Vinyl acetate	0.0500	0.0447		mg/Kg		89	40 - 153	13	30
Vinyl chloride	0.0500	0.0534		mg/Kg		107	70 - 125	6	30
Xylenes, Total	0.100	0.0847		mg/Kg		85	53 - 147	2	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	103		75 - 131
Dibromofluoromethane	98		75 - 126
1,2-Dichloroethane-d4 (Surr)	87		70 - 134
Toluene-d8 (Surr)	93		75 - 124

QC Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177898-1

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

Lab Sample ID: MB 500-529816/1-A

Matrix: Solid

Analysis Batch: 529887

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 529816

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	<0.0060		0.033	0.0060	mg/Kg		02/14/20 16:50	02/16/20 19:03	1
Acenaphthylene	<0.0044		0.033	0.0044	mg/Kg		02/14/20 16:50	02/16/20 19:03	1
Anthracene	<0.0056		0.033	0.0056	mg/Kg		02/14/20 16:50	02/16/20 19:03	1
Benzo[a]anthracene	<0.0045		0.033	0.0045	mg/Kg		02/14/20 16:50	02/16/20 19:03	1
Benzo[a]pyrene	<0.0064		0.033	0.0064	mg/Kg		02/14/20 16:50	02/16/20 19:03	1
Benzo[b]fluoranthene	<0.0072		0.033	0.0072	mg/Kg		02/14/20 16:50	02/16/20 19:03	1
Benzo[g,h,i]perylene	<0.011		0.033	0.011	mg/Kg		02/14/20 16:50	02/16/20 19:03	1
Benzo[k]fluoranthene	<0.0098		0.033	0.0098	mg/Kg		02/14/20 16:50	02/16/20 19:03	1
Bis(2-chloroethoxy)methane	<0.034		0.17	0.034	mg/Kg		02/14/20 16:50	02/16/20 19:03	1
Bis(2-chloroethyl)ether	<0.050		0.17	0.050	mg/Kg		02/14/20 16:50	02/16/20 19:03	1
Bis(2-ethylhexyl) phthalate	<0.061		0.17	0.061	mg/Kg		02/14/20 16:50	02/16/20 19:03	1
4-Bromophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		02/14/20 16:50	02/16/20 19:03	1
Butyl benzyl phthalate	<0.063		0.17	0.063	mg/Kg		02/14/20 16:50	02/16/20 19:03	1
Carbazole	<0.083		0.17	0.083	mg/Kg		02/14/20 16:50	02/16/20 19:03	1
4-Chloroaniline	<0.16		0.67	0.16	mg/Kg		02/14/20 16:50	02/16/20 19:03	1
4-Chloro-3-methylphenol	<0.11		0.33	0.11	mg/Kg		02/14/20 16:50	02/16/20 19:03	1
2-Chloronaphthalene	<0.037		0.17	0.037	mg/Kg		02/14/20 16:50	02/16/20 19:03	1
2-Chlorophenol	<0.057		0.17	0.057	mg/Kg		02/14/20 16:50	02/16/20 19:03	1
4-Chlorophenyl phenyl ether	<0.039		0.17	0.039	mg/Kg		02/14/20 16:50	02/16/20 19:03	1
Chrysene	<0.0091		0.033	0.0091	mg/Kg		02/14/20 16:50	02/16/20 19:03	1
Dibenz(a,h)anthracene	<0.0064		0.033	0.0064	mg/Kg		02/14/20 16:50	02/16/20 19:03	1
Dibenzofuran	<0.039		0.17	0.039	mg/Kg		02/14/20 16:50	02/16/20 19:03	1
1,2-Dichlorobenzene	<0.040		0.17	0.040	mg/Kg		02/14/20 16:50	02/16/20 19:03	1
1,3-Dichlorobenzene	<0.037		0.17	0.037	mg/Kg		02/14/20 16:50	02/16/20 19:03	1
1,4-Dichlorobenzene	<0.043		0.17	0.043	mg/Kg		02/14/20 16:50	02/16/20 19:03	1
3,3'-Dichlorobenzidine	<0.047		0.17	0.047	mg/Kg		02/14/20 16:50	02/16/20 19:03	1
2,4-Dichlorophenol	<0.079		0.33	0.079	mg/Kg		02/14/20 16:50	02/16/20 19:03	1
Diethyl phthalate	<0.056		0.17	0.056	mg/Kg		02/14/20 16:50	02/16/20 19:03	1
2,4-Dimethylphenol	<0.13		0.33	0.13	mg/Kg		02/14/20 16:50	02/16/20 19:03	1
Dimethyl phthalate	<0.043		0.17	0.043	mg/Kg		02/14/20 16:50	02/16/20 19:03	1
Di-n-butyl phthalate	<0.051		0.17	0.051	mg/Kg		02/14/20 16:50	02/16/20 19:03	1
4,6-Dinitro-2-methylphenol	<0.27		0.67	0.27	mg/Kg		02/14/20 16:50	02/16/20 19:03	1
2,4-Dinitrophenol	<0.59		0.67	0.59	mg/Kg		02/14/20 16:50	02/16/20 19:03	1
2,4-Dinitrotoluene	<0.053		0.17	0.053	mg/Kg		02/14/20 16:50	02/16/20 19:03	1
2,6-Dinitrotoluene	<0.065		0.17	0.065	mg/Kg		02/14/20 16:50	02/16/20 19:03	1
Di-n-octyl phthalate	<0.054		0.17	0.054	mg/Kg		02/14/20 16:50	02/16/20 19:03	1
Fluoranthene	<0.0062		0.033	0.0062	mg/Kg		02/14/20 16:50	02/16/20 19:03	1
Fluorene	<0.0047		0.033	0.0047	mg/Kg		02/14/20 16:50	02/16/20 19:03	1
Hexachlorobenzene	<0.0077		0.067	0.0077	mg/Kg		02/14/20 16:50	02/16/20 19:03	1
Hexachlorobutadiene	<0.052		0.17	0.052	mg/Kg		02/14/20 16:50	02/16/20 19:03	1
Hexachlorocyclopentadiene	<0.19		0.67	0.19	mg/Kg		02/14/20 16:50	02/16/20 19:03	1
Hexachloroethane	<0.051		0.17	0.051	mg/Kg		02/14/20 16:50	02/16/20 19:03	1
Indeno[1,2,3-cd]pyrene	<0.0086		0.033	0.0086	mg/Kg		02/14/20 16:50	02/16/20 19:03	1
Isophorone	<0.037		0.17	0.037	mg/Kg		02/14/20 16:50	02/16/20 19:03	1
2-Methylnaphthalene	<0.0061		0.067	0.0061	mg/Kg		02/14/20 16:50	02/16/20 19:03	1
2-Methylphenol	<0.053		0.17	0.053	mg/Kg		02/14/20 16:50	02/16/20 19:03	1
3 & 4 Methylphenol	<0.055		0.17	0.055	mg/Kg		02/14/20 16:50	02/16/20 19:03	1
Naphthalene	<0.0051		0.033	0.0051	mg/Kg		02/14/20 16:50	02/16/20 19:03	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177898-1

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

Lab Sample ID: MB 500-529816/1-A
Matrix: Solid
Analysis Batch: 529887

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 529816

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2-Nitroaniline	<0.045		0.17	0.045	mg/Kg		02/14/20 16:50	02/16/20 19:03	1
3-Nitroaniline	<0.10		0.33	0.10	mg/Kg		02/14/20 16:50	02/16/20 19:03	1
4-Nitroaniline	<0.14		0.33	0.14	mg/Kg		02/14/20 16:50	02/16/20 19:03	1
Nitrobenzene	<0.0083		0.033	0.0083	mg/Kg		02/14/20 16:50	02/16/20 19:03	1
2-Nitrophenol	<0.079		0.33	0.079	mg/Kg		02/14/20 16:50	02/16/20 19:03	1
4-Nitrophenol	<0.32		0.67	0.32	mg/Kg		02/14/20 16:50	02/16/20 19:03	1
N-Nitrosodi-n-propylamine	<0.041		0.067	0.041	mg/Kg		02/14/20 16:50	02/16/20 19:03	1
N-Nitrosodiphenylamine	<0.039		0.17	0.039	mg/Kg		02/14/20 16:50	02/16/20 19:03	1
2,2'-oxybis[1-chloropropane]	<0.039		0.17	0.039	mg/Kg		02/14/20 16:50	02/16/20 19:03	1
Pentachlorophenol	<0.53		0.67	0.53	mg/Kg		02/14/20 16:50	02/16/20 19:03	1
Phenanthrene	<0.0046		0.033	0.0046	mg/Kg		02/14/20 16:50	02/16/20 19:03	1
Phenol	<0.074		0.17	0.074	mg/Kg		02/14/20 16:50	02/16/20 19:03	1
Pyrene	<0.0066		0.033	0.0066	mg/Kg		02/14/20 16:50	02/16/20 19:03	1
1,2,4-Trichlorobenzene	<0.036		0.17	0.036	mg/Kg		02/14/20 16:50	02/16/20 19:03	1
2,4,5-Trichlorophenol	<0.076		0.33	0.076	mg/Kg		02/14/20 16:50	02/16/20 19:03	1
2,4,6-Trichlorophenol	<0.11		0.33	0.11	mg/Kg		02/14/20 16:50	02/16/20 19:03	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorobiphenyl	109		43 - 145	02/14/20 16:50	02/16/20 19:03	1
2-Fluorophenol	113		31 - 166	02/14/20 16:50	02/16/20 19:03	1
Nitrobenzene-d5	104		37 - 147	02/14/20 16:50	02/16/20 19:03	1
Phenol-d5	102		30 - 153	02/14/20 16:50	02/16/20 19:03	1
Terphenyl-d14	140		42 - 157	02/14/20 16:50	02/16/20 19:03	1
2,4,6-Tribromophenol	97		31 - 143	02/14/20 16:50	02/16/20 19:03	1

Lab Sample ID: LCS 500-529816/2-A
Matrix: Solid
Analysis Batch: 529887

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 529816

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthylene	1.33	1.42		mg/Kg		106	68 - 120
Anthracene	1.33	1.43		mg/Kg		107	70 - 114
Benzo[a]anthracene	1.33	1.25		mg/Kg		94	67 - 122
Benzo[a]pyrene	1.33	1.42		mg/Kg		106	65 - 133
Benzo[b]fluoranthene	1.33	1.39		mg/Kg		104	69 - 129
Benzo[g,h,i]perylene	1.33	1.58		mg/Kg		119	72 - 131
Benzo[k]fluoranthene	1.33	1.49		mg/Kg		112	68 - 127
Bis(2-chloroethoxy)methane	1.33	1.26		mg/Kg		94	60 - 112
Bis(2-chloroethyl)ether	1.33	1.28		mg/Kg		96	55 - 111
Bis(2-ethylhexyl) phthalate	1.33	1.24		mg/Kg		93	72 - 131
4-Bromophenyl phenyl ether	1.33	1.39		mg/Kg		104	68 - 118
Butyl benzyl phthalate	1.33	1.19		mg/Kg		89	71 - 129
Carbazole	1.33	1.44		mg/Kg		108	65 - 142
4-Chloroaniline	1.33	1.25		mg/Kg		94	30 - 150
4-Chloro-3-methylphenol	1.33	1.32		mg/Kg		99	65 - 122
2-Chloronaphthalene	1.33	1.41		mg/Kg		105	69 - 114
2-Chlorophenol	1.33	1.34		mg/Kg		101	64 - 110

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177898-1

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

Lab Sample ID: LCS 500-529816/2-A

Matrix: Solid

Analysis Batch: 529887

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 529816

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorophenyl phenyl ether	1.33	1.46		mg/Kg		110	62 - 119
Chrysene	1.33	1.32		mg/Kg		99	63 - 120
Dibenz(a,h)anthracene	1.33	1.55		mg/Kg		116	64 - 131
Dibenzofuran	1.33	1.52		mg/Kg		114	66 - 115
1,2-Dichlorobenzene	1.33	1.33		mg/Kg		100	62 - 110
1,3-Dichlorobenzene	1.33	1.29		mg/Kg		97	65 - 124
1,4-Dichlorobenzene	1.33	1.28		mg/Kg		96	61 - 110
3,3'-Dichlorobenzidine	1.33	1.08		mg/Kg		81	35 - 128
2,4-Dichlorophenol	1.33	1.38		mg/Kg		103	58 - 120
Diethyl phthalate	1.33	1.48		mg/Kg		111	58 - 120
2,4-Dimethylphenol	1.33	1.43		mg/Kg		107	60 - 110
Dimethyl phthalate	1.33	1.47		mg/Kg		110	69 - 116
Di-n-butyl phthalate	1.33	1.42		mg/Kg		107	65 - 120
4,6-Dinitro-2-methylphenol	2.67	0.865		mg/Kg		32	10 - 110
2,4-Dinitrophenol	2.67	<0.59		mg/Kg		12	10 - 100
2,4-Dinitrotoluene	1.33	1.59		mg/Kg		119	69 - 124
2,6-Dinitrotoluene	1.33	1.48		mg/Kg		111	70 - 123
Di-n-octyl phthalate	1.33	1.42		mg/Kg		106	68 - 134
Fluoranthene	1.33	1.47		mg/Kg		110	62 - 120
Fluorene	1.33	1.49		mg/Kg		112	62 - 120
Hexachlorobenzene	1.33	1.51		mg/Kg		113	63 - 124
Hexachlorobutadiene	1.33	1.50		mg/Kg		112	56 - 120
Hexachlorocyclopentadiene	1.33	0.776		mg/Kg		58	10 - 133
Hexachloroethane	1.33	1.22		mg/Kg		92	60 - 114
Indeno[1,2,3-cd]pyrene	1.33	1.55		mg/Kg		116	68 - 130
Isophorone	1.33	1.26		mg/Kg		94	55 - 110
2-Methylnaphthalene	1.33	1.44		mg/Kg		108	69 - 112
2-Methylphenol	1.33	1.15		mg/Kg		86	60 - 120
3 & 4 Methylphenol	1.33	1.19		mg/Kg		89	57 - 120
Naphthalene	1.33	1.37		mg/Kg		102	63 - 110
2-Nitroaniline	1.33	1.29		mg/Kg		97	57 - 124
3-Nitroaniline	1.33	1.19		mg/Kg		89	40 - 122
4-Nitroaniline	1.33	1.11		mg/Kg		83	60 - 160
Nitrobenzene	1.33	1.28		mg/Kg		96	60 - 116
2-Nitrophenol	1.33	1.32		mg/Kg		99	60 - 120
4-Nitrophenol	2.67	2.23		mg/Kg		84	30 - 122
N-Nitrosodi-n-propylamine	1.33	1.18		mg/Kg		89	56 - 118
N-Nitrosodiphenylamine	1.33	1.43		mg/Kg		107	65 - 112
2,2'-oxybis[1-chloropropane]	1.33	1.16		mg/Kg		87	40 - 124
Pentachlorophenol	2.67	1.03		mg/Kg		39	13 - 112
Phenanthrene	1.33	1.42		mg/Kg		107	62 - 120
Phenol	1.33	1.29		mg/Kg		97	56 - 122
Pyrene	1.33	1.28		mg/Kg		96	61 - 128
1,2,4-Trichlorobenzene	1.33	1.42		mg/Kg		107	66 - 117
2,4,5-Trichlorophenol	1.33	1.31		mg/Kg		98	50 - 120
2,4,6-Trichlorophenol	1.33	1.41		mg/Kg		105	57 - 120

QC Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177898-1

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

Lab Sample ID: LCS 500-529816/2-A
Matrix: Solid
Analysis Batch: 529887

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 529816

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	114		43 - 145
2-Fluorophenol	109		31 - 166
Nitrobenzene-d5	102		37 - 147
Phenol-d5	111		30 - 153
Terphenyl-d14	113		42 - 157
2,4,6-Tribromophenol	120		31 - 143

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-530259/1-A
Matrix: Solid
Analysis Batch: 530529

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 530259

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.39		2.0	0.39	mg/Kg		02/18/20 16:42	02/19/20 13:58	1
Arsenic	<0.34		1.0	0.34	mg/Kg		02/18/20 16:42	02/19/20 13:58	1
Barium	<0.11		1.0	0.11	mg/Kg		02/18/20 16:42	02/19/20 13:58	1
Beryllium	<0.093		0.40	0.093	mg/Kg		02/18/20 16:42	02/19/20 13:58	1
Cadmium	0.0525	J	0.20	0.036	mg/Kg		02/18/20 16:42	02/19/20 13:58	1
Chromium	<0.50		1.0	0.50	mg/Kg		02/18/20 16:42	02/19/20 13:58	1
Cobalt	<0.13		0.50	0.13	mg/Kg		02/18/20 16:42	02/19/20 13:58	1
Copper	<0.28		1.0	0.28	mg/Kg		02/18/20 16:42	02/19/20 13:58	1
Iron	<10		20	10	mg/Kg		02/18/20 16:42	02/19/20 13:58	1
Lead	<0.23		0.50	0.23	mg/Kg		02/18/20 16:42	02/19/20 13:58	1
Magnesium	<5.0		10	5.0	mg/Kg		02/18/20 16:42	02/19/20 13:58	1
Calcium	<3.4		20	3.4	mg/Kg		02/18/20 16:42	02/19/20 13:58	1
Manganese	<0.15		1.0	0.15	mg/Kg		02/18/20 16:42	02/19/20 13:58	1
Nickel	<0.29		1.0	0.29	mg/Kg		02/18/20 16:42	02/19/20 13:58	1
Selenium	<0.59		1.0	0.59	mg/Kg		02/18/20 16:42	02/19/20 13:58	1
Silver	<0.13		0.50	0.13	mg/Kg		02/18/20 16:42	02/19/20 13:58	1
Thallium	<0.50		1.0	0.50	mg/Kg		02/18/20 16:42	02/19/20 13:58	1
Vanadium	<0.12		0.50	0.12	mg/Kg		02/18/20 16:42	02/19/20 13:58	1
Zinc	<0.88		2.0	0.88	mg/Kg		02/18/20 16:42	02/19/20 13:58	1
Potassium	<18		50	18	mg/Kg		02/18/20 16:42	02/19/20 13:58	1
Sodium	<15		100	15	mg/Kg		02/18/20 16:42	02/19/20 13:58	1

Lab Sample ID: LCS 500-530259/2-A
Matrix: Solid
Analysis Batch: 530529

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 530259

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Antimony	50.0	49.6		mg/Kg		99	80 - 120
Arsenic	10.0	9.23		mg/Kg		92	80 - 120
Barium	200	199		mg/Kg		100	80 - 120
Beryllium	5.00	4.61		mg/Kg		92	80 - 120
Cadmium	5.00	4.72		mg/Kg		94	80 - 120
Chromium	20.0	19.3		mg/Kg		96	80 - 120
Cobalt	50.0	48.6		mg/Kg		97	80 - 120
Copper	25.0	24.9		mg/Kg		99	80 - 120

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177898-1

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

Lab Sample ID: LCS 500-530259/2-A
Matrix: Solid
Analysis Batch: 530529

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 530259

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	100	108		mg/Kg		108	80 - 120
Lead	10.0	9.09		mg/Kg		91	80 - 120
Magnesium	1000	891		mg/Kg		89	80 - 120
Calcium	1000	942		mg/Kg		94	80 - 120
Manganese	50.0	46.7		mg/Kg		93	80 - 120
Nickel	50.0	48.2		mg/Kg		96	80 - 120
Selenium	10.0	9.06		mg/Kg		91	80 - 120
Silver	5.00	4.48		mg/Kg		90	80 - 120
Thallium	10.0	9.49		mg/Kg		95	80 - 120
Vanadium	50.0	48.7		mg/Kg		97	80 - 120
Zinc	50.0	46.8		mg/Kg		94	80 - 120
Potassium	1000	985		mg/Kg		99	80 - 120
Sodium	1000	998		mg/Kg		100	80 - 120

Lab Sample ID: LCS 500-531035/2-A
Matrix: Solid
Analysis Batch: 531230

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 531035

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	0.500	0.497		mg/L		99	80 - 120

Lab Sample ID: LCS 500-531036/2-A
Matrix: Solid
Analysis Batch: 531227

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 531036

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.115		mg/L		115	80 - 120
Barium	0.500	0.505		mg/L		101	80 - 120
Beryllium	0.0500	0.0493		mg/L		99	80 - 120
Cadmium	0.0500	0.0542		mg/L		108	80 - 120
Chromium	0.200	0.200		mg/L		100	80 - 120
Cobalt	0.500	0.529		mg/L		106	80 - 120
Copper	0.250	0.277		mg/L		111	80 - 120
Iron	1.00	1.06		mg/L		106	80 - 120
Lead	0.100	0.0963		mg/L		96	80 - 120
Magnesium	10.0	9.17		mg/L		92	80 - 120
Calcium	10.0	9.75		mg/L		97	80 - 120
Manganese	0.500	0.480		mg/L		96	80 - 120
Nickel	0.500	0.548		mg/L		110	80 - 120
Selenium	0.100	0.108		mg/L		108	80 - 120
Silver	0.0500	0.0542		mg/L		108	80 - 120
Vanadium	0.500	0.511		mg/L		102	80 - 120
Zinc	0.500	0.634 *		mg/L		127	80 - 120
Potassium	10.0	10.4		mg/L		104	80 - 120

QC Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177898-1

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

Lab Sample ID: LB 500-530903/1-B
Matrix: Solid
Analysis Batch: 531227

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 531036

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.010		0.050	0.010	mg/L		02/24/20 06:22	02/24/20 17:40	1
Barium	<0.050		0.50	0.050	mg/L		02/24/20 06:22	02/24/20 17:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/24/20 06:22	02/24/20 17:40	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		02/24/20 06:22	02/24/20 17:40	1
Chromium	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 17:40	1
Cobalt	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 17:40	1
Copper	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 17:40	1
Iron	<0.20		0.40	0.20	mg/L		02/24/20 06:22	02/24/20 17:40	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/24/20 06:22	02/24/20 17:40	1
Magnesium	<0.50		2.5	0.50	mg/L		02/24/20 06:22	02/24/20 17:40	1
Calcium	<0.50		5.0	0.50	mg/L		02/24/20 06:22	02/24/20 17:40	1
Manganese	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 17:40	1
Nickel	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 17:40	1
Selenium	<0.020		0.050	0.020	mg/L		02/24/20 06:22	02/24/20 17:40	1
Silver	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 17:40	1
Vanadium	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 17:40	1
Zinc	<0.020		0.50	0.020	mg/L		02/24/20 06:22	02/24/20 17:40	1
Potassium	<0.50		2.5	0.50	mg/L		02/24/20 06:22	02/24/20 17:40	1

Lab Sample ID: LB 500-530902/1-B
Matrix: Solid
Analysis Batch: 531230

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 531035

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Manganese	<0.010		0.025	0.010	mg/L		02/24/20 06:19	02/24/20 18:18	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-531036/2-A
Matrix: Solid
Analysis Batch: 531307

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 531036

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.520		mg/L		104	80 - 120
Thallium	0.100	0.0917		mg/L		92	80 - 120

Lab Sample ID: LB 500-530903/1-B
Matrix: Solid
Analysis Batch: 531307

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 531036

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0060		0.0060	0.0060	mg/L		02/24/20 06:22	02/24/20 19:19	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/24/20 06:22	02/24/20 19:19	1

QC Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177898-1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-531122/12-A
 Matrix: Solid
 Analysis Batch: 531315

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 531122

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/24/20 10:20	02/25/20 08:52	1

Lab Sample ID: LCS 500-531122/14-A
 Matrix: Solid
 Analysis Batch: 531315

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 531122
 %Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00195		mg/L		97	80 - 120

Lab Sample ID: LB 500-530903/2-B
 Matrix: Solid
 Analysis Batch: 531315

Client Sample ID: Method Blank
 Prep Type: TCLP
 Prep Batch: 531122

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/24/20 10:20	02/25/20 08:54	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-530893/12-A
 Matrix: Solid
 Analysis Batch: 531150

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 530893

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		02/21/20 15:40	02/24/20 09:15	1

Lab Sample ID: LCS 500-530893/13-A
 Matrix: Solid
 Analysis Batch: 531150

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 530893
 %Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.154		mg/Kg		92	80 - 120

Method: 9014 - Cyanide

Lab Sample ID: MB 500-531089/1-A
 Matrix: Solid
 Analysis Batch: 531173

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 531089

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.25		0.50	0.25	mg/Kg		02/24/20 09:45	02/24/20 13:45	1

Lab Sample ID: LCS 500-531089/2-A
 Matrix: Solid
 Analysis Batch: 531173

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 531089
 %Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	5.00	5.20		mg/Kg		104	85 - 115

Lab Chronicle

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177898-1

Client Sample ID: 3229V-2-B01 (0-5)

Lab Sample ID: 500-177898-1

Date Collected: 02/13/20 09:35

Matrix: Solid

Date Received: 02/14/20 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			530902	02/21/20 12:35	BEC	TAL CHI
SPLP East	Prep	3010A			531035	02/24/20 06:19	LMN	TAL CHI
SPLP East	Analysis	6010B		1	531230	02/24/20 18:28	EEN	TAL CHI
TCLP	Leach	1311			530903	02/21/20 12:35	BEC	TAL CHI
TCLP	Prep	3010A			531036	02/24/20 06:22	LMN	TAL CHI
TCLP	Analysis	6010B		1	531227	02/24/20 17:48	EEN	TAL CHI
TCLP	Leach	1311			530903	02/21/20 12:35	BEC	TAL CHI
TCLP	Prep	3010A			531036	02/24/20 06:22	LMN	TAL CHI
TCLP	Analysis	6020A		1	531307	02/24/20 19:24	FXG	TAL CHI
TCLP	Leach	1311			530903	02/21/20 12:35	BEC	TAL CHI
TCLP	Prep	7470A			531122	02/24/20 10:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	531315	02/25/20 09:08	MJG	TAL CHI
Total/NA	Analysis	9045D		1	531081	02/22/20 18:46	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	530170	02/18/20 10:18	LWN	TAL CHI

Client Sample ID: 3229V-2-B01 (0-5)

Lab Sample ID: 500-177898-1

Date Collected: 02/13/20 09:35

Matrix: Solid

Date Received: 02/14/20 14:00

Percent Solids: 81.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			529871	02/14/20 17:08	WRE	TAL CHI
Total/NA	Analysis	8260B		1	530118	02/18/20 12:55	PMF	TAL CHI
Total/NA	Prep	3541			529816	02/14/20 16:50	ACK	TAL CHI
Total/NA	Analysis	8270D		1	529887	02/16/20 21:01	NRJ	TAL CHI
Total/NA	Prep	3050B			530259	02/18/20 16:42	BDE	TAL CHI
Total/NA	Analysis	6010B		1	530529	02/19/20 14:50	EEN	TAL CHI
Total/NA	Prep	7471B			530893	02/21/20 15:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	531150	02/24/20 10:08	MJG	TAL CHI
Total/NA	Prep	9010B			531089	02/24/20 09:45	MS	TAL CHI
Total/NA	Analysis	9014		1	531173	02/24/20 13:50	MS	TAL CHI

Laboratory References:

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

Accreditation/Certification Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177898-1

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20

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Address: _____

Regulatory Program: DW NPDES RCRA Other:

TAL-8210

Client Contact		Project Manager: Mike Fischer		Site Contact:		Date: 2-13-20		COC No:			
Company Name: EOI		Tel/Email:		Lab Contact: R. Wright		Carrier:		1 of 1 COCs			
Address: 33 W. Monroe, Ste. 1825		Analysis Turnaround Time		Filtered Sample (Y/N) Perform MS / MSD (Y/N) VOC SVOC Total 23 ions TCLP 23 ions Total Cyanide pH		 500-177898 COC		Sampler: M. Fischer			
City/State/Zip: Chicago IL 60603		<input checked="" type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS						For Lab Use Only: Walk-in Client:		Lab Sampling:	
Phone: 312-345-1480		TAT if different from Below _____						Job / SDG No.: 500-177898		Sample Specific Notes:	
Fax:		<input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day						Project Name: PJB 174-009-W068A Site: 3229V-2 PO# 2031.001.068A			
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.					
3229V-2-B01(0-5)		2-13-20	0925	G	S	5	XX XXXX XX XXXX XX XXXX				
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other											
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)						
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown					<input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months						
Special Instructions/QC Requirements & Comments:											
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temp. (°C): Obs'd: 3.7		Cor'd:		Therm ID No.:			
Relinquished by:		Company: EOI		Date/Time: 2/13/20 1510		Received by:		Company: TA			
Relinquished by:		Company: TA		Date/Time: 2/14/20 0800		Received by:		Company: TA			
Relinquished by:		Company: TA		Date/Time: 2/14/20 1400		Received in Laboratory by:		Company: TA-CHI			



Login Sample Receipt Checklist

Client: Environmental Design International, Inc.

Job Number: 500-177898-1

Login Number: 177898

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAU 1319-Ballard Rd Office Phone Number, if available: _____

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

2200 Block of Ballard Road (Eastbound), IDOT STA 10+85 to 12+15; 14+05 to 17+00 (ISGS Site 3229V-6)

City: Des Plaines State: IL Zip Code: 60016

County: Cook Township: Maine

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

Latitude: 42.04317 Longitude: - 87.86865

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

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

Estimated Volume of debris (cu. Yd.): 468

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Contact: Irma Romiti-Johnson

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

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

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

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

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

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

Soil from borings B02 through B04 were sampled adjacent to ISGS Site No 3229V-6.
See Exhibit 3 and Table 8 of the Preliminary Site Investigation Report prepared by Terracon.

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

TestAmerica Lab Report Nos J177900-1 and J181052-1.

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

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

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

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

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

Matt Weiss
Printed Name:

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

1/22/21
Date:



[Empty Box]
P.E or L.P.G. Seal:

Comparison of Detected Constituents to MACs-PTB 174-009;Work Order:068A

Preliminary Site Investigation

FAU 1319-Ballard Road (PESA #3229V-6)

Des Plaines and Niles, Cook County, IL

Terracon Project No. 11207011C

Page 1 of 4

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	3229V-6-B02 (0-5)	3229V-6-B02 (5-8)	3229V-6-B03 (0-5)	
				CCDD	Sample Depth (feet)	(0-5)	(5-8)	(0-5)	
		mg/kg	Chicago	MSAs	pH 6.25-9.0	Date Collected	02/13/2020	02/13/2020	02/13/2020
		pH 6.25-9.0							
Volatile Organic Analytical Parameters									
Acetone	mg/kg	---	---	25		0.01	0.011	0.009	
Semivolatile Organic Analytical Parameters									
Acenaphthene	mg/kg	0.09	0.13	570		<0.0069	<0.0075	<0.0068	
Acenaphthylene	mg/kg	0.03	0.07	85		<0.0051	<0.0055	<0.0050	
Anthracene	mg/kg	0.25	0.4	12000		0.015	0.017	<0.0063	
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.076	0.063	<0.0051	
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.079	0.072	<0.0073	
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.11	0.11	<0.0082	
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.041	0.043	0.018	
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.044	0.044	<0.011	
Chrysene	mg/kg	1.2	2.7	88		0.11	0.083	0.015	
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		0.0088	0.011	<0.0073	
Fluoranthene	mg/kg	2.7	4.1	3100		0.15	0.17	0.011	
Fluorene	mg/kg	0.1	0.18	560		<0.0054	<0.0059	<0.0053	
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.031	0.033	<0.0098	
Naphthalene	mg/kg	0.04	0.2	1.8		<0.0059	<0.0064	<0.0058	
Phenanthrene	mg/kg	1.3	2.5	210		0.096	0.081	0.037	
Pyrene	mg/kg	1.9	3.0	2300		0.14	0.14	0.022	
bis(2-Ethylhexyl)phthalate	mg/kg	---	---	46		<0.071	<0.076	<0.069	
2-Methylnaphthalene	mg/kg	---	0.14	---		0.085	<0.0077	0.0091	
2-Methylphenol	mg/kg	---	---	15		<0.062	<0.067	<0.061	
3 & 4-Methylphenol **	mg/kg	---	---	---		<0.064	<0.070	<0.063	
2,4,6-Trichlorophenol	mg/kg	---	---	0.66		<0.13	<0.14	<0.13	
Inorganic Analytical Parameters									
Arsenic	mg/kg	---	13	11.3		5.9	6.1	6.8	
Barium	mg/kg	---	110	1500		50	76	56	
Cadmium	mg/kg	---	0.6	5.2		0.27	0.32	0.13	
Chromium, total	mg/kg	---	16.2	21		16	17	18	
Lead	mg/kg	---	36	107		25	16	21	
Mercury	mg/kg	---	0.06	0.89		0.025	0.036	0.02	
Selenium	mg/kg	---	0.48	1.3		<0.33	0.44	0.36	
Silver	mg/kg	---	0.55	4.4		0.14	0.1	0.2	
Antimony	mg/kg	---	4.0	5		<0.22	<0.25	0.22	
Beryllium	mg/kg	---	0.59	22		0.7	0.69	0.82	
Calcium	mg/kg	---	9,300	---		49000	10000	56000	
Cobalt	mg/kg	---	8.9	20		9.2	8.1	13	
Copper	mg/kg	---	19.6	2900		22	19	20	
Cyanide	mg/kg	---	0.51	---		<0.29	<0.31	<0.27	
Iron	mg/kg	---	15,900	15000		15000	15000	18000	
Magnesium	mg/kg	---	4,820	325000		21000	6900	24000	
Manganese	mg/kg	---	636	630		340	390	400	
Nickel	mg/kg	---	18	100		23	20	31	
Potassium	mg/kg	---	1,268	---		3000	2300	3800	
Sodium	mg/kg	---	130	---		1000	1300	2300	
Thallium	mg/kg	---	0.32	2.6		<0.28	<0.32	<0.28	
Vanadium	mg/kg	---	25.2	550		24	29	24	
Zinc	mg/kg	---	95	5100		100	75	52	
pH			6.25	9		9	8.5	8.6	

Preliminary Site Investigation

FAU 1319-Ballard Road (PESA #3229V-6)

Des Plaines and Niles, Cook County, IL

Terracon Project No. 11207011C

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	3229V-6-B02 (0-5)	3229V-6-B02 (5-8)	3229V-6-B03 (0-5)
				CCDD	Sample Depth (feet)	(0-5)	(5-8)	(0-5)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	02/13/2020	02/13/2020	02/13/2020
Inorganic Analytical Parameters (SPLP)								
Antimony,SPLP	mg/L	---	---	---		--	--	--
Arsenic,SPLP	mg/L	---	---	---		--	--	--
Barium,SPLP	mg/L	---	---	---		--	--	--
Beryllium,SPLP	mg/L	---	---	---		--	--	--
Cadmium,SPLP	mg/L	---	---	---		--	--	--
Calcium,SPLP	mg/L	---	---	---		--	--	--
Chromium,SPLP	mg/L	---	---	---		--	--	--
Cobalt,SPLP	mg/L	---	---	---		--	--	--
Copper,SPLP	mg/L	---	---	---		--	--	--
Iron,SPLP	mg/L	---	---	---		--	--	--
Lead,SPLP	mg/L	---	---	---		--	--	--
Magnesium,SPLP	mg/L	---	---	---		--	--	--
Manganese,SPLP	mg/L	---	---	---		1	1.5	2.3
Mercury,SPLP	mg/L	---	---	---		--	--	--
Nickel,SPLP	mg/L	---	---	---		--	--	--
Potassium,SPLP	mg/L	---	---	---		--	--	--
Selenium,SPLP	mg/L	---	---	---		--	--	--
Silver,SPLP	mg/L	---	---	---		--	--	--
Sodium,SPLP	mg/L	---	---	---		--	--	--
Thallium,SPLP	mg/L	---	---	---		--	--	--
Vanadium,SPLP	mg/L	---	---	---		--	--	--
Zinc,SPLP	mg/L	---	---	---		--	--	--
Cyanide,SPLP	mg/L	---	---	---		--	--	--
Inorganic Analytical Parameters (TCLP)								
Arsenic,TCLP	mg/L	---	---	---		<0.010	<0.010	<0.010
Barium,TCLP	mg/L	---	---	---		0.39	0.3	0.71
Cadmium,TCLP	mg/L	---	---	---		0.0028	0.0023	0.002
Chromium,TCLP	mg/L	---	---	---		<0.010	<0.010	<0.010
Lead,TCLP	mg/L	---	---	---		<0.0075	<0.0075	<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020	<0.00020	<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.020	<0.020	<0.020
Silver,TCLP	mg/L	---	---	---		<0.010	<0.010	<0.010
Antimony,TCLP	mg/L	---	---	---		<0.0060	<0.0060	<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040	<0.0040	<0.0040
Calcium,TCLP	mg/L	---	---	---		430	260	530
Cobalt,TCLP	mg/L	---	---	---		<0.010	<0.010	0.02
Copper,TCLP	mg/L	---	---	---		<0.010	<0.010	<0.010
Cyanide,TCLP	mg/L	---	---	---		--	--	--
Iron,TCLP	mg/L	---	---	---		<0.20	<0.20	<0.20
Magnesium,TCLP	mg/L	---	---	---		88	120	45
Manganese,TCLP	mg/L	---	---	---		0.7	0.95	5.9
Nickel,TCLP	mg/L	---	---	---		0.015	<0.010	0.018
Potassium,TCLP	mg/L	---	---	---		4.9	3.3	4.1
Sodium,TCLP	mg/L	---	---	---		--	--	--
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.010	<0.010	<0.010
Zinc,TCLP	mg/L	---	---	---		0.084	0.037	<0.020

Comparison of Detected Constituents to MACs-PTB 174-009;Work Order:068A

Preliminary Site Investigation

FAU 1319-Ballard Road (PESA #3229V-6)

Des Plaines and Niles, Cook County, IL

Terracon Project No. 11207011C

Page 3 of 4

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	3229V-6-B03 (5-8)	3229V-6-B04 (0-2)
				CCDD	Sample Depth (feet)	(5-8)	(0-2)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	02/13/2020	4/20/2020
Volatile Organic Analytical Parameters							
Acetone	mg/kg	---	---	25		<0.0075	0.049
Semivolatile Organic Analytical Parameters							
Acenaphthene	mg/kg	0.09	0.13	570		<0.0073	0.024
Acenaphthylene	mg/kg	0.03	0.07	85		<0.0054	0.01
Anthracene	mg/kg	0.25	0.4	12000		<0.0068	0.083
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		<0.0055	0.51
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		<0.0079	0.77
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		<0.0088	1.3
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		<0.013	0.38
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		<0.012	0.41
Chrysene	mg/kg	1.2	2.7	88		<0.011	0.7
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		<0.0079	0.088
Fluoranthene	mg/kg	2.7	4.1	3100		<0.0076	1.2
Fluorene	mg/kg	0.1	0.18	560		<0.0057	0.024
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		<0.011	0.3
Naphthalene	mg/kg	0.04	0.2	1.8		<0.0063	0.022
Phenanthrene	mg/kg	1.3	2.5	210		<0.0057	0.54
Pyrene	mg/kg	1.9	3.0	2300		<0.0081	1.4
bis(2-Ethylhexyl)phthalate	mg/kg	---	---	46		<0.075	0.077
2-Methylnaphthalene	mg/kg	---	0.14	---		<0.0075	0.035
2-Methylphenol	mg/kg	---	---	15		<0.066	<0.062
3 & 4-Methylphenol **	mg/kg	---	---	---		<0.068	<0.064
2,4,6-Trichlorophenol	mg/kg	---	---	0.66		<0.14	<0.13
Inorganic Analytical Parameters							
Arsenic	mg/kg	---	13	11.3		3.5	5.4
Barium	mg/kg	---	110	1500		61	64
Cadmium	mg/kg	---	0.6	5.2		0.15	0.19
Chromium, total	mg/kg	---	16.2	21		16	21
Lead	mg/kg	---	36	107		7.9	21
Mercury	mg/kg	---	0.06	0.89		0.018	0.016
Selenium	mg/kg	---	0.48	1.3		<0.34	<0.34
Silver	mg/kg	---	0.55	4.4		0.14	0.2
Antimony	mg/kg	---	4.0	5		<0.23	0.87
Beryllium	mg/kg	---	0.59	22		0.56	0.69
Calcium	mg/kg	---	9,300	---		23000	78000
Cobalt	mg/kg	---	8.9	20		6.9	11
Copper	mg/kg	---	19.6	2900		10	29
Cyanide	mg/kg	---	0.51	---		<0.29	<0.29
Iron	mg/kg	---	15,900	15000		12000	16000
Magnesium	mg/kg	---	4,820	325000		16000	34000
Manganese	mg/kg	---	636	630		260	400
Nickel	mg/kg	---	18	100		18	27
Potassium	mg/kg	---	1,268	---		2000	2600
Sodium	mg/kg	---	130	---		1200	1600
Thallium	mg/kg	---	0.32	2.6		<0.29	0.43
Vanadium	mg/kg	---	25.2	550		23	20
Zinc	mg/kg	---	95	5100		50	86
pH			6.25	9		8.4	9

Comparison of Detected Constituents to MACs-PTB 174-009;Work Order:068A

Preliminary Site Investigation

FAU 1319-Ballard Road (PESA #3229V-6)

Des Plaines and Niles, Cook County, IL

Terracon Project No. 11207011C

Page 4 of 4

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	3229V-6-B03 (5-8)	3229V-6-B04 (0-2)
				CCDD	Sample Depth (feet)	(5-8)	(0-2)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	02/13/2020	4/20/2020
Inorganic Analytical Parameters (SPLP)							
Antimony,SPLP	mg/L	---	---	---		--	--
Arsenic,SPLP	mg/L	---	---	---		--	--
Barium,SPLP	mg/L	---	---	---		--	--
Beryllium,SPLP	mg/L	---	---	---		--	--
Cadmium,SPLP	mg/L	---	---	---		--	--
Calcium,SPLP	mg/L	---	---	---		--	--
Chromium,SPLP	mg/L	---	---	---		--	--
Cobalt,SPLP	mg/L	---	---	---		--	--
Copper,SPLP	mg/L	---	---	---		--	--
Iron,SPLP	mg/L	---	---	---		--	--
Lead,SPLP	mg/L	---	---	---		--	--
Magnesium,SPLP	mg/L	---	---	---		--	--
Manganese,SPLP	mg/L	---	---	---		0.96	1.2
Mercury,SPLP	mg/L	---	---	---		--	--
Nickel,SPLP	mg/L	---	---	---		--	--
Potassium,SPLP	mg/L	---	---	---		--	--
Selenium,SPLP	mg/L	---	---	---		--	--
Silver,SPLP	mg/L	---	---	---		--	--
Sodium,SPLP	mg/L	---	---	---		--	--
Thallium,SPLP	mg/L	---	---	---		--	--
Vanadium,SPLP	mg/L	---	---	---		--	--
Zinc,SPLP	mg/L	---	---	---		--	--
Cyanide,SPLP	mg/L	---	---	---		--	--
Inorganic Analytical Parameters (TCLP)							
Arsenic,TCLP	mg/L	---	---	---		<0.010	<0.010
Barium,TCLP	mg/L	---	---	---		0.31	0.45
Cadmium,TCLP	mg/L	---	---	---		0.0026	0.002
Chromium,TCLP	mg/L	---	---	---		<0.010	<0.010
Lead,TCLP	mg/L	---	---	---		<0.0075	<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020	<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.020	<0.020
Silver,TCLP	mg/L	---	---	---		<0.010	<0.010
Antimony,TCLP	mg/L	---	---	---		<0.0060	<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040	<0.0040
Calcium,TCLP	mg/L	---	---	---		280	380
Cobalt,TCLP	mg/L	---	---	---		<0.010	<0.010
Copper,TCLP	mg/L	---	---	---		<0.010	<0.010
Cyanide,TCLP	mg/L	---	---	---		--	--
Iron,TCLP	mg/L	---	---	---		<0.20	<0.20
Magnesium,TCLP	mg/L	---	---	---		150	120
Manganese,TCLP	mg/L	---	---	---		1.1	1.6
Nickel,TCLP	mg/L	---	---	---		0.01	0.011
Potassium,TCLP	mg/L	---	---	---		0.85	3.1
Sodium,TCLP	mg/L	---	---	---		--	--
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.010	<0.010
Zinc,TCLP	mg/L	---	---	---		<0.020	0.039

ANALYTICAL REPORT

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

Laboratory Job ID: 500-177900-1
Client Project/Site: IDOT - PTB 174-009 - WO 068

For:
Environmental Design International, Inc.
33 W. Monroe
Suite 1825
Chicago, Illinois 60603

Attn: Michael Fischer



Authorized for release by:
2/26/2020 2:02:21 PM

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

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

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Case Narrative

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

Job ID: 500-177900-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-177900-1

Receipt

The samples were received on 2/14/2020 2:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.9° C and 3.7° C.

GC/MS VOA

Method 8260B: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batches 530118 and 530336 recovered outside control limits for the following analytes: Chloroethane and Chloromethane. These analytes were biased high in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported. 3229V-6-B01 (0-5) (500-177900-1), 3229V-6-B01 (0-5) Dup (500-177900-2), 3229V-6-B01 (5-8) (500-177900-3), 3229V-6-B02 (0-5) (500-177900-4), 3229V-6-B02 (5-8) (500-177900-5), 3229V-6-B03 (0-5) (500-177900-6) and 3229V-6-B03 (5-8) (500-177900-7)

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

GC/MS Semi VOA

Method 8270D: Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 3 analytes to recover outside criteria for this method when utilizing this list of analytes. The LCS associated with preparation batch 500-530357 and analytical batch 500-530474 had 1 analyte outside control limits: 2,4-Dinitrophenol. These results have been reported and qualified.

Method 8270D: The method blank for preparation batch 500-530357 and analytical batch 500-530474 contained Benzo[a]pyrene, Fluoranthene, Phenanthrene and Pyrene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8270D: The following matrix spike/matrix spike duplicate (MS/MSD) recovered at 0% for two analytes: 2,4-Dinitrophenol and Hexachlorocyclopentadiene. Data has been qualified and reported. (500-177900-E-1-F MS) and (500-177900-E-1-G MSD)

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

Metals

Method 6010B: The laboratory control sample (LCS) for preparation batch 500-530903 and 500-531036 and analytical batch 500-531227 recovered outside control limits for the following analytes: Zinc. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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

General Chemistry

Method 9045D: Reanalysis of the following pH samples was performed outside of the analytical holding time due to an instrument malfunction : 3229V-6-B01 (0-5) (500-177900-1), 3229V-6-B01 (0-5) Dup (500-177900-2), 3229V-6-B01 (5-8) (500-177900-3), 3229V-6-B02 (0-5) (500-177900-4), 3229V-6-B02 (5-8) (500-177900-5), 3229V-6-B03 (0-5) (500-177900-6) and 3229V-6-B03 (5-8) (500-177900-7).

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

Organic Prep

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

Detection Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

Client Sample ID: 3229V-6-B01 (0-5)

Lab Sample ID: 500-177900-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.0070	J	0.039	0.0051	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.012	J	0.039	0.0065	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.076	B	0.039	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.072		0.039	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.11	F1	0.039	0.0084	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.052	F1	0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.045	F1	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.088		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.12	B	0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.038	J F1	0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.013	J	0.078	0.0071	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.078	B	0.039	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.12	B	0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.21	J F1	1.1	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.3		0.55	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	76	F1	0.55	0.062	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.61		0.22	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.25	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.4		0.27	0.072	mg/Kg	1	☼	6010B	Total/NA
Copper	18	F1	0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	13000	B	11	5.7	mg/Kg	1	☼	6010B	Total/NA
Lead	48		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	13000	F2	5.5	2.7	mg/Kg	1	☼	6010B	Total/NA
Calcium	19000	F2	11	1.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	400		0.55	0.079	mg/Kg	1	☼	6010B	Total/NA
Nickel	19		0.55	0.16	mg/Kg	1	☼	6010B	Total/NA
Silver	0.097	J	0.27	0.071	mg/Kg	1	☼	6010B	Total/NA
Vanadium	27		0.27	0.065	mg/Kg	1	☼	6010B	Total/NA
Zinc	77	F1 B	1.1	0.48	mg/Kg	1	☼	6010B	Total/NA
Potassium	1400	F1 F2	27	9.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	1100	F1	55	8.1	mg/Kg	1	☼	6010B	Total/NA
Barium	0.56		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0040	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	390		5.0	0.50	mg/L	1		6010B	TCLP
Lead	0.039		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	99		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	2.4		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.3	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.080	J *	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.65		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	1.2		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.037		0.019	0.0063	mg/Kg	1	☼	7471B	Total/NA
pH	8.8		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3229V-6-B01 (0-5) Dup

Lab Sample ID: 500-177900-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.024	J	0.038	0.0068	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.0069	J	0.038	0.0050	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

Client Sample ID: 3229V-6-B01 (0-5) Dup (Continued)

Lab Sample ID: 500-177900-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.053		0.038	0.0063	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.16	B	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.18		0.038	0.0073	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.22		0.038	0.0082	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.12		0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.088		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.19		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.024	J	0.038	0.0073	mg/Kg	1	☼	8270D	Total/NA
Di-n-butyl phthalate	0.82		0.19	0.058	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.41	B	0.038	0.0070	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.019	J	0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.091		0.038	0.0098	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.036	J	0.076	0.0070	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.021	J	0.038	0.0058	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.30	B	0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.40	B	0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Arsenic	3.5		0.57	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	81		0.57	0.065	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.56		0.23	0.054	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.32	B	0.11	0.021	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.7		0.29	0.075	mg/Kg	1	☼	6010B	Total/NA
Copper	15		0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	12000	B	11	6.0	mg/Kg	1	☼	6010B	Total/NA
Lead	63		0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	12000		5.7	2.8	mg/Kg	1	☼	6010B	Total/NA
Calcium	18000		11	1.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	700		0.57	0.083	mg/Kg	1	☼	6010B	Total/NA
Nickel	16		0.57	0.17	mg/Kg	1	☼	6010B	Total/NA
Silver	0.17	J	0.29	0.074	mg/Kg	1	☼	6010B	Total/NA
Vanadium	27		0.29	0.068	mg/Kg	1	☼	6010B	Total/NA
Zinc	76	B	1.1	0.50	mg/Kg	1	☼	6010B	Total/NA
Potassium	1400		29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	1200		57	8.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.57		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0043	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	370		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.025		0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.12		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	79		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	4.3		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.022	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.6		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.12	J*	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.88		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	1.2		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.021		0.019	0.0063	mg/Kg	1	☼	7471B	Total/NA
pH	8.5		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

Client Sample ID: 3229V-6-B01 (5-8)

Lab Sample ID: 500-177900-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.0069	J	0.039	0.0065	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.028	J B	0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.031	J	0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.045		0.039	0.0084	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.024	J	0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.012	J	0.039	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.032	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.054	B	0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.021	J	0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.027	J B	0.039	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.052	B	0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Arsenic	3.0		0.59	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	48		0.59	0.067	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.52		0.24	0.055	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.15	B	0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.1		0.29	0.077	mg/Kg	1	☼	6010B	Total/NA
Copper	20		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	11000	B	12	6.1	mg/Kg	1	☼	6010B	Total/NA
Lead	45		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	7500		5.9	2.9	mg/Kg	1	☼	6010B	Total/NA
Calcium	11000		12	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	300		0.59	0.085	mg/Kg	1	☼	6010B	Total/NA
Nickel	17		0.59	0.17	mg/Kg	1	☼	6010B	Total/NA
Silver	0.11	J	0.29	0.076	mg/Kg	1	☼	6010B	Total/NA
Vanadium	24		0.29	0.069	mg/Kg	1	☼	6010B	Total/NA
Zinc	81	B	1.2	0.52	mg/Kg	1	☼	6010B	Total/NA
Potassium	1400		29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	990		59	8.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.32	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0023	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	230		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	120		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.2		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.93	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.050	J *	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.88		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.029		0.020	0.0067	mg/Kg	1	☼	7471B	Total/NA
pH	8.1		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3229V-6-B02 (0-5)

Lab Sample ID: 500-177900-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.010	J	0.018	0.0077	mg/Kg	1	☼	8260B	Total/NA
Anthracene	0.015	J	0.038	0.0065	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.076	B	0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.079		0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.11		0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.041		0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.044		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

Client Sample ID: 3229V-6-B02 (0-5) (Continued)

Lab Sample ID: 500-177900-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysene	0.11		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.0088	J	0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.15	B	0.038	0.0072	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.031	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.085		0.078	0.0071	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.096	B	0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.14	B	0.038	0.0077	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.9		0.57	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	50		0.57	0.065	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.70		0.23	0.053	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.27	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.2		0.28	0.074	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	15000	B	11	5.9	mg/Kg	1	☼	6010B	Total/NA
Lead	25		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	21000		5.7	2.8	mg/Kg	1	☼	6010B	Total/NA
Calcium	49000		110	19	mg/Kg	10	☼	6010B	Total/NA
Manganese	340		0.57	0.082	mg/Kg	1	☼	6010B	Total/NA
Nickel	23		0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Silver	0.14	J	0.28	0.073	mg/Kg	1	☼	6010B	Total/NA
Vanadium	24		0.28	0.067	mg/Kg	1	☼	6010B	Total/NA
Zinc	100	B	1.1	0.50	mg/Kg	1	☼	6010B	Total/NA
Potassium	3000		28	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	1000		57	8.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.39	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0028	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	430		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	88		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.70		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	4.9		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.084	J*	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.0		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.025		0.019	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	9.0		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3229V-6-B02 (5-8)

Lab Sample ID: 500-177900-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.011	J	0.020	0.0087	mg/Kg	1	☼	8260B	Total/NA
Anthracene	0.017	J	0.041	0.0070	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.063	B	0.041	0.0056	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.072		0.041	0.0081	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.11		0.041	0.0090	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.043		0.041	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.044		0.041	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.083		0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.011	J	0.041	0.0081	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.17	B	0.041	0.0077	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.033	J	0.041	0.011	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

Client Sample ID: 3229V-6-B02 (5-8) (Continued)

Lab Sample ID: 500-177900-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.081	B	0.041	0.0058	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.14	B	0.041	0.0083	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.1		0.64	0.22	mg/Kg	1	☼	6010B	Total/NA
Barium	76		0.64	0.073	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.69		0.26	0.060	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.32	B	0.13	0.023	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.64	0.32	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.1		0.32	0.084	mg/Kg	1	☼	6010B	Total/NA
Copper	19		0.64	0.18	mg/Kg	1	☼	6010B	Total/NA
Iron	15000	B	13	6.7	mg/Kg	1	☼	6010B	Total/NA
Lead	16		0.32	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	6900		6.4	3.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	10000		13	2.2	mg/Kg	1	☼	6010B	Total/NA
Manganese	390		0.64	0.093	mg/Kg	1	☼	6010B	Total/NA
Nickel	20		0.64	0.19	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.44	J	0.64	0.38	mg/Kg	1	☼	6010B	Total/NA
Silver	0.10	J	0.32	0.083	mg/Kg	1	☼	6010B	Total/NA
Vanadium	29		0.32	0.076	mg/Kg	1	☼	6010B	Total/NA
Zinc	75	B	1.3	0.56	mg/Kg	1	☼	6010B	Total/NA
Potassium	2300		32	11	mg/Kg	1	☼	6010B	Total/NA
Sodium	1300		64	9.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.30	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0023	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	260		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	120		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.95		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.3		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.037	J*	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.5		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.036		0.021	0.0069	mg/Kg	1	☼	7471B	Total/NA
pH	8.5		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3229V-6-B03 (0-5)

Lab Sample ID: 500-177900-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0090	J	0.017	0.0073	mg/Kg	1	☼	8260B	Total/NA
Benzo[g,h,i]perylene	0.018	J	0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.015	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.011	J B	0.038	0.0070	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.0091	J	0.077	0.0070	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.037	J B	0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.022	J B	0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.22	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.8		0.56	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	56		0.56	0.064	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.82		0.22	0.052	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.13	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	18		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.28	0.074	mg/Kg	1	☼	6010B	Total/NA
Copper	20		0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	11	5.8	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

Client Sample ID: 3229V-6-B03 (0-5) (Continued)

Lab Sample ID: 500-177900-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	21		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	24000		5.6	2.8	mg/Kg	1	☼	6010B	Total/NA
Calcium	56000		110	19	mg/Kg	10	☼	6010B	Total/NA
Manganese	400		0.56	0.081	mg/Kg	1	☼	6010B	Total/NA
Nickel	31		0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.36	J	0.56	0.33	mg/Kg	1	☼	6010B	Total/NA
Silver	0.20	J	0.28	0.072	mg/Kg	1	☼	6010B	Total/NA
Vanadium	24		0.28	0.066	mg/Kg	1	☼	6010B	Total/NA
Zinc	52	B	1.1	0.49	mg/Kg	1	☼	6010B	Total/NA
Potassium	3800		28	9.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	2300		56	8.3	mg/Kg	1	☼	6010B	Total/NA
Barium	0.71		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0020	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	530		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.020	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	45		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	5.9		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.018	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	4.1		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	2.3		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.020		0.019	0.0063	mg/Kg	1	☼	7471B	Total/NA
pH	8.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3229V-6-B03 (5-8)

Lab Sample ID: 500-177900-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.5		0.58	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	61		0.58	0.066	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.56		0.23	0.054	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.15	B	0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.9		0.29	0.076	mg/Kg	1	☼	6010B	Total/NA
Copper	10		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	12000	B	12	6.0	mg/Kg	1	☼	6010B	Total/NA
Lead	7.9		0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	16000		5.8	2.9	mg/Kg	1	☼	6010B	Total/NA
Calcium	23000		12	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	260		0.58	0.084	mg/Kg	1	☼	6010B	Total/NA
Nickel	18		0.58	0.17	mg/Kg	1	☼	6010B	Total/NA
Silver	0.14	J	0.29	0.075	mg/Kg	1	☼	6010B	Total/NA
Vanadium	23		0.29	0.069	mg/Kg	1	☼	6010B	Total/NA
Zinc	50	B	1.2	0.51	mg/Kg	1	☼	6010B	Total/NA
Potassium	2000		29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	1200		58	8.6	mg/Kg	1	☼	6010B	Total/NA
Barium	0.31	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0026	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	280		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	150		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.010	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.85	J	2.5	0.50	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

Client Sample ID: 3229V-6-B03 (5-8) (Continued)

Lab Sample ID: 500-177900-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.96		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.018	J	0.019	0.0063	mg/Kg	1	*	7471B	Total/NA
pH	8.4		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

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Method Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6010B	SPLP Metals	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9014	Cyanide	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
1311	TCLP Extraction	SW846	TAL CHI
1312	SPLP Extraction	SW846	TAL CHI
3010A	Preparation, Total Metals	SW846	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL CHI
7471B	Preparation, Mercury	SW846	TAL CHI
9010B	Cyanide, Distillation	SW846	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-177900-1	3229V-6-B01 (0-5)	Solid	02/13/20 10:00	02/14/20 14:00	
500-177900-2	3229V-6-B01 (0-5) Dup	Solid	02/13/20 10:05	02/14/20 14:00	
500-177900-3	3229V-6-B01 (5-8)	Solid	02/13/20 10:10	02/14/20 14:00	
500-177900-4	3229V-6-B02 (0-5)	Solid	02/13/20 10:20	02/14/20 14:00	
500-177900-5	3229V-6-B02 (5-8)	Solid	02/13/20 10:30	02/14/20 14:00	
500-177900-6	3229V-6-B03 (0-5)	Solid	02/13/20 10:45	02/14/20 14:00	
500-177900-7	3229V-6-B03 (5-8)	Solid	02/13/20 10:55	02/14/20 14:00	

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

Client Sample ID: 3229V-6-B01 (0-5)

Lab Sample ID: 500-177900-1

Date Collected: 02/13/20 10:00

Matrix: Solid

Date Received: 02/14/20 14:00

Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0078		0.018	0.0078	mg/Kg	☼	02/14/20 17:08	02/18/20 13:46	1
Benzene	<0.00046		0.0018	0.00046	mg/Kg	☼	02/14/20 17:08	02/18/20 13:46	1
Bromodichloromethane	<0.00037		0.0018	0.00037	mg/Kg	☼	02/14/20 17:08	02/18/20 13:46	1
Bromoform	<0.00053		0.0018	0.00053	mg/Kg	☼	02/14/20 17:08	02/18/20 13:46	1
Bromomethane	<0.0017		0.0045	0.0017	mg/Kg	☼	02/14/20 17:08	02/18/20 13:46	1
2-Butanone (MEK)	<0.0020		0.0045	0.0020	mg/Kg	☼	02/14/20 17:08	02/18/20 13:46	1
Carbon disulfide	<0.00094		0.0045	0.00094	mg/Kg	☼	02/14/20 17:08	02/18/20 13:46	1
Carbon tetrachloride	<0.00052		0.0018	0.00052	mg/Kg	☼	02/14/20 17:08	02/18/20 13:46	1
Chlorobenzene	<0.00066		0.0018	0.00066	mg/Kg	☼	02/14/20 17:08	02/18/20 13:46	1
Chloroethane	<0.0013	*	0.0045	0.0013	mg/Kg	☼	02/14/20 17:08	02/18/20 13:46	1
Chloroform	<0.00062		0.0018	0.00062	mg/Kg	☼	02/14/20 17:08	02/18/20 13:46	1
Chloromethane	<0.0018	*	0.0045	0.0018	mg/Kg	☼	02/14/20 17:08	02/18/20 13:46	1
cis-1,2-Dichloroethene	<0.00050		0.0018	0.00050	mg/Kg	☼	02/14/20 17:08	02/18/20 13:46	1
cis-1,3-Dichloropropene	<0.00054		0.0018	0.00054	mg/Kg	☼	02/14/20 17:08	02/18/20 13:46	1
Dibromochloromethane	<0.00059		0.0018	0.00059	mg/Kg	☼	02/14/20 17:08	02/18/20 13:46	1
1,1-Dichloroethane	<0.00062		0.0018	0.00062	mg/Kg	☼	02/14/20 17:08	02/18/20 13:46	1
1,2-Dichloroethane	<0.0014		0.0045	0.0014	mg/Kg	☼	02/14/20 17:08	02/18/20 13:46	1
1,1-Dichloroethene	<0.00062		0.0018	0.00062	mg/Kg	☼	02/14/20 17:08	02/18/20 13:46	1
1,2-Dichloropropane	<0.00047		0.0018	0.00047	mg/Kg	☼	02/14/20 17:08	02/18/20 13:46	1
1,3-Dichloropropane, Total	<0.00063		0.0018	0.00063	mg/Kg	☼	02/14/20 17:08	02/18/20 13:46	1
Ethylbenzene	<0.00086		0.0018	0.00086	mg/Kg	☼	02/14/20 17:08	02/18/20 13:46	1
2-Hexanone	<0.0014		0.0045	0.0014	mg/Kg	☼	02/14/20 17:08	02/18/20 13:46	1
Methylene Chloride	<0.0018		0.0045	0.0018	mg/Kg	☼	02/14/20 17:08	02/18/20 13:46	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0045	0.0013	mg/Kg	☼	02/14/20 17:08	02/18/20 13:46	1
Methyl tert-butyl ether	<0.00053		0.0018	0.00053	mg/Kg	☼	02/14/20 17:08	02/18/20 13:46	1
Styrene	<0.00054		0.0018	0.00054	mg/Kg	☼	02/14/20 17:08	02/18/20 13:46	1
1,1,2,2-Tetrachloroethane	<0.00058		0.0018	0.00058	mg/Kg	☼	02/14/20 17:08	02/18/20 13:46	1
Tetrachloroethene	<0.00061		0.0018	0.00061	mg/Kg	☼	02/14/20 17:08	02/18/20 13:46	1
Toluene	<0.00045		0.0018	0.00045	mg/Kg	☼	02/14/20 17:08	02/18/20 13:46	1
trans-1,2-Dichloroethene	<0.00080		0.0018	0.00080	mg/Kg	☼	02/14/20 17:08	02/18/20 13:46	1
trans-1,3-Dichloropropene	<0.00063		0.0018	0.00063	mg/Kg	☼	02/14/20 17:08	02/18/20 13:46	1
1,1,1-Trichloroethane	<0.00060		0.0018	0.00060	mg/Kg	☼	02/14/20 17:08	02/18/20 13:46	1
1,1,2-Trichloroethane	<0.00077		0.0018	0.00077	mg/Kg	☼	02/14/20 17:08	02/18/20 13:46	1
Trichloroethene	<0.00061		0.0018	0.00061	mg/Kg	☼	02/14/20 17:08	02/18/20 13:46	1
Vinyl acetate	<0.0016		0.0045	0.0016	mg/Kg	☼	02/14/20 17:08	02/18/20 13:46	1
Vinyl chloride	<0.00080		0.0018	0.00080	mg/Kg	☼	02/14/20 17:08	02/18/20 13:46	1
Xylenes, Total	<0.00058		0.0036	0.00058	mg/Kg	☼	02/14/20 17:08	02/18/20 13:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		75 - 131	02/14/20 17:08	02/18/20 13:46	1
Dibromofluoromethane	93		75 - 126	02/14/20 17:08	02/18/20 13:46	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	02/14/20 17:08	02/18/20 13:46	1
Toluene-d8 (Surr)	94		75 - 124	02/14/20 17:08	02/18/20 13:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0070		0.039	0.0070	mg/Kg	☼	02/19/20 08:46	02/19/20 22:05	1
Acenaphthylene	0.0070	J	0.039	0.0051	mg/Kg	☼	02/19/20 08:46	02/19/20 22:05	1
Anthracene	0.012	J	0.039	0.0065	mg/Kg	☼	02/19/20 08:46	02/19/20 22:05	1
Benzo[a]anthracene	0.076	B	0.039	0.0052	mg/Kg	☼	02/19/20 08:46	02/19/20 22:05	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

Client Sample ID: 3229V-6-B01 (0-5)

Lab Sample ID: 500-177900-1

Date Collected: 02/13/20 10:00

Matrix: Solid

Date Received: 02/14/20 14:00

Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.072		0.039	0.0075	mg/Kg	☼	02/19/20 08:46	02/19/20 22:05	1
Benzo[b]fluoranthene	0.11	F1	0.039	0.0084	mg/Kg	☼	02/19/20 08:46	02/19/20 22:05	1
Benzo[g,h,i]perylene	0.052	F1	0.039	0.013	mg/Kg	☼	02/19/20 08:46	02/19/20 22:05	1
Benzo[k]fluoranthene	0.045	F1	0.039	0.011	mg/Kg	☼	02/19/20 08:46	02/19/20 22:05	1
Bis(2-chloroethoxy)methane	<0.040		0.20	0.040	mg/Kg	☼	02/19/20 08:46	02/19/20 22:05	1
Bis(2-chloroethyl)ether	<0.058		0.20	0.058	mg/Kg	☼	02/19/20 08:46	02/19/20 22:05	1
Bis(2-ethylhexyl) phthalate	<0.071		0.20	0.071	mg/Kg	☼	02/19/20 08:46	02/19/20 22:05	1
4-Bromophenyl phenyl ether	<0.051		0.20	0.051	mg/Kg	☼	02/19/20 08:46	02/19/20 22:05	1
Butyl benzyl phthalate	<0.074		0.20	0.074	mg/Kg	☼	02/19/20 08:46	02/19/20 22:05	1
Carbazole	<0.097		0.20	0.097	mg/Kg	☼	02/19/20 08:46	02/19/20 22:05	1
4-Chloroaniline	<0.18		0.78	0.18	mg/Kg	☼	02/19/20 08:46	02/19/20 22:05	1
4-Chloro-3-methylphenol	<0.13		0.39	0.13	mg/Kg	☼	02/19/20 08:46	02/19/20 22:05	1
2-Chloronaphthalene	<0.043		0.20	0.043	mg/Kg	☼	02/19/20 08:46	02/19/20 22:05	1
2-Chlorophenol	<0.066		0.20	0.066	mg/Kg	☼	02/19/20 08:46	02/19/20 22:05	1
4-Chlorophenyl phenyl ether	<0.045		0.20	0.045	mg/Kg	☼	02/19/20 08:46	02/19/20 22:05	1
Chrysene	0.088		0.039	0.011	mg/Kg	☼	02/19/20 08:46	02/19/20 22:05	1
Dibenz(a,h)anthracene	<0.0075		0.039	0.0075	mg/Kg	☼	02/19/20 08:46	02/19/20 22:05	1
Dibenzofuran	<0.045		0.20	0.045	mg/Kg	☼	02/19/20 08:46	02/19/20 22:05	1
1,2-Dichlorobenzene	<0.046		0.20	0.046	mg/Kg	☼	02/19/20 08:46	02/19/20 22:05	1
1,3-Dichlorobenzene	<0.044		0.20	0.044	mg/Kg	☼	02/19/20 08:46	02/19/20 22:05	1
1,4-Dichlorobenzene	<0.050		0.20	0.050	mg/Kg	☼	02/19/20 08:46	02/19/20 22:05	1
3,3'-Dichlorobenzidine	<0.054		0.20	0.054	mg/Kg	☼	02/19/20 08:46	02/19/20 22:05	1
2,4-Dichlorophenol	<0.092		0.39	0.092	mg/Kg	☼	02/19/20 08:46	02/19/20 22:05	1
Diethyl phthalate	<0.066		0.20	0.066	mg/Kg	☼	02/19/20 08:46	02/19/20 22:05	1
2,4-Dimethylphenol	<0.15		0.39	0.15	mg/Kg	☼	02/19/20 08:46	02/19/20 22:05	1
Dimethyl phthalate	<0.051		0.20	0.051	mg/Kg	☼	02/19/20 08:46	02/19/20 22:05	1
Di-n-butyl phthalate	<0.059		0.20	0.059	mg/Kg	☼	02/19/20 08:46	02/19/20 22:05	1
4,6-Dinitro-2-methylphenol	<0.31		0.78	0.31	mg/Kg	☼	02/19/20 08:46	02/19/20 22:05	1
2,4-Dinitrophenol	<0.68	F1 *	0.78	0.68	mg/Kg	☼	02/19/20 08:46	02/19/20 22:05	1
2,4-Dinitrotoluene	<0.062		0.20	0.062	mg/Kg	☼	02/19/20 08:46	02/19/20 22:05	1
2,6-Dinitrotoluene	<0.076		0.20	0.076	mg/Kg	☼	02/19/20 08:46	02/19/20 22:05	1
Di-n-octyl phthalate	<0.063		0.20	0.063	mg/Kg	☼	02/19/20 08:46	02/19/20 22:05	1
Fluoranthene	0.12	B	0.039	0.0072	mg/Kg	☼	02/19/20 08:46	02/19/20 22:05	1
Fluorene	<0.0055		0.039	0.0055	mg/Kg	☼	02/19/20 08:46	02/19/20 22:05	1
Hexachlorobenzene	<0.0090		0.078	0.0090	mg/Kg	☼	02/19/20 08:46	02/19/20 22:05	1
Hexachlorobutadiene	<0.061		0.20	0.061	mg/Kg	☼	02/19/20 08:46	02/19/20 22:05	1
Hexachlorocyclopentadiene	<0.22	F1	0.78	0.22	mg/Kg	☼	02/19/20 08:46	02/19/20 22:05	1
Hexachloroethane	<0.059		0.20	0.059	mg/Kg	☼	02/19/20 08:46	02/19/20 22:05	1
Indeno[1,2,3-cd]pyrene	0.038	J F1	0.039	0.010	mg/Kg	☼	02/19/20 08:46	02/19/20 22:05	1
Isophorone	<0.044		0.20	0.044	mg/Kg	☼	02/19/20 08:46	02/19/20 22:05	1
2-Methylnaphthalene	0.013	J	0.078	0.0071	mg/Kg	☼	02/19/20 08:46	02/19/20 22:05	1
2-Methylphenol	<0.062		0.20	0.062	mg/Kg	☼	02/19/20 08:46	02/19/20 22:05	1
3 & 4 Methylphenol	<0.065		0.20	0.065	mg/Kg	☼	02/19/20 08:46	02/19/20 22:05	1
Naphthalene	<0.0060		0.039	0.0060	mg/Kg	☼	02/19/20 08:46	02/19/20 22:05	1
2-Nitroaniline	<0.052		0.20	0.052	mg/Kg	☼	02/19/20 08:46	02/19/20 22:05	1
3-Nitroaniline	<0.12		0.39	0.12	mg/Kg	☼	02/19/20 08:46	02/19/20 22:05	1
4-Nitroaniline	<0.16		0.39	0.16	mg/Kg	☼	02/19/20 08:46	02/19/20 22:05	1
Nitrobenzene	<0.0097		0.039	0.0097	mg/Kg	☼	02/19/20 08:46	02/19/20 22:05	1
2-Nitrophenol	<0.092		0.39	0.092	mg/Kg	☼	02/19/20 08:46	02/19/20 22:05	1

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

Client Sample ID: 3229V-6-B01 (0-5)

Lab Sample ID: 500-177900-1

Date Collected: 02/13/20 10:00

Matrix: Solid

Date Received: 02/14/20 14:00

Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.37		0.78	0.37	mg/Kg	☼	02/19/20 08:46	02/19/20 22:05	1
N-Nitrosodi-n-propylamine	<0.047		0.078	0.047	mg/Kg	☼	02/19/20 08:46	02/19/20 22:05	1
N-Nitrosodiphenylamine	<0.046		0.20	0.046	mg/Kg	☼	02/19/20 08:46	02/19/20 22:05	1
2,2'-oxybis[1-chloropropane]	<0.045		0.20	0.045	mg/Kg	☼	02/19/20 08:46	02/19/20 22:05	1
Pentachlorophenol	<0.62		0.78	0.62	mg/Kg	☼	02/19/20 08:46	02/19/20 22:05	1
Phenanthrene	0.078	B	0.039	0.0054	mg/Kg	☼	02/19/20 08:46	02/19/20 22:05	1
Phenol	<0.086		0.20	0.086	mg/Kg	☼	02/19/20 08:46	02/19/20 22:05	1
Pyrene	0.12	B	0.039	0.0077	mg/Kg	☼	02/19/20 08:46	02/19/20 22:05	1
1,2,4-Trichlorobenzene	<0.042		0.20	0.042	mg/Kg	☼	02/19/20 08:46	02/19/20 22:05	1
2,4,5-Trichlorophenol	<0.089		0.39	0.089	mg/Kg	☼	02/19/20 08:46	02/19/20 22:05	1
2,4,6-Trichlorophenol	<0.13		0.39	0.13	mg/Kg	☼	02/19/20 08:46	02/19/20 22:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	74		43 - 145	02/19/20 08:46	02/19/20 22:05	1
2-Fluorophenol	83		31 - 166	02/19/20 08:46	02/19/20 22:05	1
Nitrobenzene-d5	65		37 - 147	02/19/20 08:46	02/19/20 22:05	1
Phenol-d5	74		30 - 153	02/19/20 08:46	02/19/20 22:05	1
Terphenyl-d14	109		42 - 157	02/19/20 08:46	02/19/20 22:05	1
2,4,6-Tribromophenol	101		31 - 143	02/19/20 08:46	02/19/20 22:05	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.21	J F1	1.1	0.21	mg/Kg	☼	02/19/20 06:57	02/19/20 17:44	1
Arsenic	4.3		0.55	0.19	mg/Kg	☼	02/19/20 06:57	02/19/20 17:44	1
Barium	76	F1	0.55	0.062	mg/Kg	☼	02/19/20 06:57	02/19/20 17:44	1
Beryllium	0.61		0.22	0.051	mg/Kg	☼	02/19/20 06:57	02/19/20 17:44	1
Cadmium	0.25	B	0.11	0.020	mg/Kg	☼	02/19/20 06:57	02/19/20 17:44	1
Chromium	15		0.55	0.27	mg/Kg	☼	02/19/20 06:57	02/19/20 17:44	1
Cobalt	7.4		0.27	0.072	mg/Kg	☼	02/19/20 06:57	02/19/20 17:44	1
Copper	18	F1	0.55	0.15	mg/Kg	☼	02/19/20 06:57	02/19/20 17:44	1
Iron	13000	B	11	5.7	mg/Kg	☼	02/19/20 06:57	02/19/20 17:44	1
Lead	48		0.27	0.13	mg/Kg	☼	02/19/20 06:57	02/19/20 17:44	1
Magnesium	13000	F2	5.5	2.7	mg/Kg	☼	02/19/20 06:57	02/19/20 17:44	1
Calcium	19000	F2	11	1.9	mg/Kg	☼	02/19/20 06:57	02/19/20 17:44	1
Manganese	400		0.55	0.079	mg/Kg	☼	02/19/20 06:57	02/19/20 17:44	1
Nickel	19		0.55	0.16	mg/Kg	☼	02/19/20 06:57	02/19/20 17:44	1
Selenium	<0.32		0.55	0.32	mg/Kg	☼	02/19/20 06:57	02/19/20 17:44	1
Silver	0.097	J	0.27	0.071	mg/Kg	☼	02/19/20 06:57	02/19/20 17:44	1
Thallium	<0.27		0.55	0.27	mg/Kg	☼	02/19/20 06:57	02/19/20 17:44	1
Vanadium	27		0.27	0.065	mg/Kg	☼	02/19/20 06:57	02/19/20 17:44	1
Zinc	77	F1 B	1.1	0.48	mg/Kg	☼	02/19/20 06:57	02/19/20 17:44	1
Potassium	1400	F1 F2	27	9.7	mg/Kg	☼	02/19/20 06:57	02/19/20 17:44	1
Sodium	1100	F1	55	8.1	mg/Kg	☼	02/19/20 06:57	02/19/20 17:44	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		02/24/20 06:22	02/24/20 17:57	1
Barium	0.56		0.50	0.050	mg/L		02/24/20 06:22	02/24/20 17:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/24/20 06:22	02/24/20 17:57	1
Cadmium	0.0040	J	0.0050	0.0020	mg/L		02/24/20 06:22	02/24/20 17:57	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

Client Sample ID: 3229V-6-B01 (0-5)

Lab Sample ID: 500-177900-1

Date Collected: 02/13/20 10:00

Matrix: Solid

Date Received: 02/14/20 14:00

Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	390		5.0	0.50	mg/L		02/24/20 06:22	02/24/20 17:57	1
Chromium	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 17:57	1
Cobalt	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 17:57	1
Copper	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 17:57	1
Iron	<0.20		0.40	0.20	mg/L		02/24/20 06:22	02/24/20 17:57	1
Lead	0.039		0.0075	0.0075	mg/L		02/24/20 06:22	02/24/20 17:57	1
Magnesium	99		2.5	0.50	mg/L		02/24/20 06:22	02/24/20 17:57	1
Manganese	2.4		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 17:57	1
Nickel	0.014	J	0.025	0.010	mg/L		02/24/20 06:22	02/24/20 17:57	1
Potassium	2.3	J	2.5	0.50	mg/L		02/24/20 06:22	02/24/20 17:57	1
Selenium	<0.020		0.050	0.020	mg/L		02/24/20 06:22	02/24/20 17:57	1
Silver	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 17:57	1
Vanadium	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 17:57	1
Zinc	0.080	J *	0.50	0.020	mg/L		02/24/20 06:22	02/24/20 17:57	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.65		0.0075	0.0075	mg/L		02/24/20 06:19	02/24/20 18:37	1
Manganese	1.2		0.025	0.010	mg/L		02/24/20 06:19	02/24/20 18:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/24/20 06:22	02/24/20 19:29	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/24/20 06:22	02/24/20 19:29	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/24/20 10:20	02/25/20 09:12	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.037		0.019	0.0063	mg/Kg	☼	02/24/20 15:45	02/25/20 07:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.28		0.56	0.28	mg/Kg	☼	02/24/20 09:45	02/24/20 13:51	1
pH	8.8		0.2	0.2	SU			02/22/20 18:51	1

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

Client Sample ID: 3229V-6-B01 (0-5) Dup

Lab Sample ID: 500-177900-2

Date Collected: 02/13/20 10:05

Matrix: Solid

Date Received: 02/14/20 14:00

Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0072		0.016	0.0072	mg/Kg	☼	02/14/20 17:08	02/18/20 14:12	1
Benzene	<0.00042		0.0016	0.00042	mg/Kg	☼	02/14/20 17:08	02/18/20 14:12	1
Bromodichloromethane	<0.00034		0.0016	0.00034	mg/Kg	☼	02/14/20 17:08	02/18/20 14:12	1
Bromoform	<0.00048		0.0016	0.00048	mg/Kg	☼	02/14/20 17:08	02/18/20 14:12	1
Bromomethane	<0.0016		0.0041	0.0016	mg/Kg	☼	02/14/20 17:08	02/18/20 14:12	1
2-Butanone (MEK)	<0.0018		0.0041	0.0018	mg/Kg	☼	02/14/20 17:08	02/18/20 14:12	1
Carbon disulfide	<0.00086		0.0041	0.00086	mg/Kg	☼	02/14/20 17:08	02/18/20 14:12	1
Carbon tetrachloride	<0.00048		0.0016	0.00048	mg/Kg	☼	02/14/20 17:08	02/18/20 14:12	1
Chlorobenzene	<0.00061		0.0016	0.00061	mg/Kg	☼	02/14/20 17:08	02/18/20 14:12	1
Chloroethane	<0.0012	*	0.0041	0.0012	mg/Kg	☼	02/14/20 17:08	02/18/20 14:12	1
Chloroform	<0.00057		0.0016	0.00057	mg/Kg	☼	02/14/20 17:08	02/18/20 14:12	1
Chloromethane	<0.0017	*	0.0041	0.0017	mg/Kg	☼	02/14/20 17:08	02/18/20 14:12	1
cis-1,2-Dichloroethene	<0.00046		0.0016	0.00046	mg/Kg	☼	02/14/20 17:08	02/18/20 14:12	1
cis-1,3-Dichloropropene	<0.00050		0.0016	0.00050	mg/Kg	☼	02/14/20 17:08	02/18/20 14:12	1
Dibromochloromethane	<0.00054		0.0016	0.00054	mg/Kg	☼	02/14/20 17:08	02/18/20 14:12	1
1,1-Dichloroethane	<0.00057		0.0016	0.00057	mg/Kg	☼	02/14/20 17:08	02/18/20 14:12	1
1,2-Dichloroethane	<0.0013		0.0041	0.0013	mg/Kg	☼	02/14/20 17:08	02/18/20 14:12	1
1,1-Dichloroethene	<0.00057		0.0016	0.00057	mg/Kg	☼	02/14/20 17:08	02/18/20 14:12	1
1,2-Dichloropropane	<0.00043		0.0016	0.00043	mg/Kg	☼	02/14/20 17:08	02/18/20 14:12	1
1,3-Dichloropropane, Total	<0.00058		0.0016	0.00058	mg/Kg	☼	02/14/20 17:08	02/18/20 14:12	1
Ethylbenzene	<0.00079		0.0016	0.00079	mg/Kg	☼	02/14/20 17:08	02/18/20 14:12	1
2-Hexanone	<0.0013		0.0041	0.0013	mg/Kg	☼	02/14/20 17:08	02/18/20 14:12	1
Methylene Chloride	<0.0016		0.0041	0.0016	mg/Kg	☼	02/14/20 17:08	02/18/20 14:12	1
4-Methyl-2-pentanone (MIBK)	<0.0012		0.0041	0.0012	mg/Kg	☼	02/14/20 17:08	02/18/20 14:12	1
Methyl tert-butyl ether	<0.00048		0.0016	0.00048	mg/Kg	☼	02/14/20 17:08	02/18/20 14:12	1
Styrene	<0.00050		0.0016	0.00050	mg/Kg	☼	02/14/20 17:08	02/18/20 14:12	1
1,1,2,2-Tetrachloroethane	<0.00053		0.0016	0.00053	mg/Kg	☼	02/14/20 17:08	02/18/20 14:12	1
Tetrachloroethene	<0.00056		0.0016	0.00056	mg/Kg	☼	02/14/20 17:08	02/18/20 14:12	1
Toluene	<0.00042		0.0016	0.00042	mg/Kg	☼	02/14/20 17:08	02/18/20 14:12	1
trans-1,2-Dichloroethene	<0.00073		0.0016	0.00073	mg/Kg	☼	02/14/20 17:08	02/18/20 14:12	1
trans-1,3-Dichloropropene	<0.00058		0.0016	0.00058	mg/Kg	☼	02/14/20 17:08	02/18/20 14:12	1
1,1,1-Trichloroethane	<0.00055		0.0016	0.00055	mg/Kg	☼	02/14/20 17:08	02/18/20 14:12	1
1,1,2-Trichloroethane	<0.00071		0.0016	0.00071	mg/Kg	☼	02/14/20 17:08	02/18/20 14:12	1
Trichloroethene	<0.00056		0.0016	0.00056	mg/Kg	☼	02/14/20 17:08	02/18/20 14:12	1
Vinyl acetate	<0.0014		0.0041	0.0014	mg/Kg	☼	02/14/20 17:08	02/18/20 14:12	1
Vinyl chloride	<0.00073		0.0016	0.00073	mg/Kg	☼	02/14/20 17:08	02/18/20 14:12	1
Xylenes, Total	<0.00053		0.0033	0.00053	mg/Kg	☼	02/14/20 17:08	02/18/20 14:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		75 - 131	02/14/20 17:08	02/18/20 14:12	1
Dibromofluoromethane	93		75 - 126	02/14/20 17:08	02/18/20 14:12	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	02/14/20 17:08	02/18/20 14:12	1
Toluene-d8 (Surr)	96		75 - 124	02/14/20 17:08	02/18/20 14:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.024	J	0.038	0.0068	mg/Kg	☼	02/19/20 08:46	02/19/20 22:28	1
Acenaphthylene	0.0069	J	0.038	0.0050	mg/Kg	☼	02/19/20 08:46	02/19/20 22:28	1
Anthracene	0.053		0.038	0.0063	mg/Kg	☼	02/19/20 08:46	02/19/20 22:28	1
Benzo[a]anthracene	0.16	B	0.038	0.0051	mg/Kg	☼	02/19/20 08:46	02/19/20 22:28	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

Client Sample ID: 3229V-6-B01 (0-5) Dup

Lab Sample ID: 500-177900-2

Date Collected: 02/13/20 10:05

Matrix: Solid

Date Received: 02/14/20 14:00

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	0.18		0.038	0.0073	mg/Kg	☼	02/19/20 08:46	02/19/20 22:28	1
Benzo[b]fluoranthene	0.22		0.038	0.0082	mg/Kg	☼	02/19/20 08:46	02/19/20 22:28	1
Benzo[g,h,i]perylene	0.12		0.038	0.012	mg/Kg	☼	02/19/20 08:46	02/19/20 22:28	1
Benzo[k]fluoranthene	0.088		0.038	0.011	mg/Kg	☼	02/19/20 08:46	02/19/20 22:28	1
Bis(2-chloroethoxy)methane	<0.039		0.19	0.039	mg/Kg	☼	02/19/20 08:46	02/19/20 22:28	1
Bis(2-chloroethyl)ether	<0.057		0.19	0.057	mg/Kg	☼	02/19/20 08:46	02/19/20 22:28	1
Bis(2-ethylhexyl) phthalate	<0.069		0.19	0.069	mg/Kg	☼	02/19/20 08:46	02/19/20 22:28	1
4-Bromophenyl phenyl ether	<0.050		0.19	0.050	mg/Kg	☼	02/19/20 08:46	02/19/20 22:28	1
Butyl benzyl phthalate	<0.072		0.19	0.072	mg/Kg	☼	02/19/20 08:46	02/19/20 22:28	1
Carbazole	<0.095		0.19	0.095	mg/Kg	☼	02/19/20 08:46	02/19/20 22:28	1
4-Chloroaniline	<0.18		0.76	0.18	mg/Kg	☼	02/19/20 08:46	02/19/20 22:28	1
4-Chloro-3-methylphenol	<0.13		0.38	0.13	mg/Kg	☼	02/19/20 08:46	02/19/20 22:28	1
2-Chloronaphthalene	<0.042		0.19	0.042	mg/Kg	☼	02/19/20 08:46	02/19/20 22:28	1
2-Chlorophenol	<0.065		0.19	0.065	mg/Kg	☼	02/19/20 08:46	02/19/20 22:28	1
4-Chlorophenyl phenyl ether	<0.044		0.19	0.044	mg/Kg	☼	02/19/20 08:46	02/19/20 22:28	1
Chrysene	0.19		0.038	0.010	mg/Kg	☼	02/19/20 08:46	02/19/20 22:28	1
Dibenz(a,h)anthracene	0.024	J	0.038	0.0073	mg/Kg	☼	02/19/20 08:46	02/19/20 22:28	1
Dibenzofuran	<0.044		0.19	0.044	mg/Kg	☼	02/19/20 08:46	02/19/20 22:28	1
1,2-Dichlorobenzene	<0.045		0.19	0.045	mg/Kg	☼	02/19/20 08:46	02/19/20 22:28	1
1,3-Dichlorobenzene	<0.043		0.19	0.043	mg/Kg	☼	02/19/20 08:46	02/19/20 22:28	1
1,4-Dichlorobenzene	<0.049		0.19	0.049	mg/Kg	☼	02/19/20 08:46	02/19/20 22:28	1
3,3'-Dichlorobenzidine	<0.053		0.19	0.053	mg/Kg	☼	02/19/20 08:46	02/19/20 22:28	1
2,4-Dichlorophenol	<0.090		0.38	0.090	mg/Kg	☼	02/19/20 08:46	02/19/20 22:28	1
Diethyl phthalate	<0.064		0.19	0.064	mg/Kg	☼	02/19/20 08:46	02/19/20 22:28	1
2,4-Dimethylphenol	<0.14		0.38	0.14	mg/Kg	☼	02/19/20 08:46	02/19/20 22:28	1
Dimethyl phthalate	<0.050		0.19	0.050	mg/Kg	☼	02/19/20 08:46	02/19/20 22:28	1
Di-n-butyl phthalate	0.82		0.19	0.058	mg/Kg	☼	02/19/20 08:46	02/19/20 22:28	1
4,6-Dinitro-2-methylphenol	<0.30		0.76	0.30	mg/Kg	☼	02/19/20 08:46	02/19/20 22:28	1
2,4-Dinitrophenol	<0.67	*	0.76	0.67	mg/Kg	☼	02/19/20 08:46	02/19/20 22:28	1
2,4-Dinitrotoluene	<0.060		0.19	0.060	mg/Kg	☼	02/19/20 08:46	02/19/20 22:28	1
2,6-Dinitrotoluene	<0.075		0.19	0.075	mg/Kg	☼	02/19/20 08:46	02/19/20 22:28	1
Di-n-octyl phthalate	<0.062		0.19	0.062	mg/Kg	☼	02/19/20 08:46	02/19/20 22:28	1
Fluoranthene	0.41	B	0.038	0.0070	mg/Kg	☼	02/19/20 08:46	02/19/20 22:28	1
Fluorene	0.019	J	0.038	0.0053	mg/Kg	☼	02/19/20 08:46	02/19/20 22:28	1
Hexachlorobenzene	<0.0088		0.076	0.0088	mg/Kg	☼	02/19/20 08:46	02/19/20 22:28	1
Hexachlorobutadiene	<0.060		0.19	0.060	mg/Kg	☼	02/19/20 08:46	02/19/20 22:28	1
Hexachlorocyclopentadiene	<0.22		0.76	0.22	mg/Kg	☼	02/19/20 08:46	02/19/20 22:28	1
Hexachloroethane	<0.058		0.19	0.058	mg/Kg	☼	02/19/20 08:46	02/19/20 22:28	1
Indeno[1,2,3-cd]pyrene	0.091		0.038	0.0098	mg/Kg	☼	02/19/20 08:46	02/19/20 22:28	1
Isophorone	<0.043		0.19	0.043	mg/Kg	☼	02/19/20 08:46	02/19/20 22:28	1
2-Methylnaphthalene	0.036	J	0.076	0.0070	mg/Kg	☼	02/19/20 08:46	02/19/20 22:28	1
2-Methylphenol	<0.061		0.19	0.061	mg/Kg	☼	02/19/20 08:46	02/19/20 22:28	1
3 & 4 Methylphenol	<0.063		0.19	0.063	mg/Kg	☼	02/19/20 08:46	02/19/20 22:28	1
Naphthalene	0.021	J	0.038	0.0058	mg/Kg	☼	02/19/20 08:46	02/19/20 22:28	1
2-Nitroaniline	<0.051		0.19	0.051	mg/Kg	☼	02/19/20 08:46	02/19/20 22:28	1
3-Nitroaniline	<0.12		0.38	0.12	mg/Kg	☼	02/19/20 08:46	02/19/20 22:28	1
4-Nitroaniline	<0.16		0.38	0.16	mg/Kg	☼	02/19/20 08:46	02/19/20 22:28	1
Nitrobenzene	<0.0095		0.038	0.0095	mg/Kg	☼	02/19/20 08:46	02/19/20 22:28	1
2-Nitrophenol	<0.090		0.38	0.090	mg/Kg	☼	02/19/20 08:46	02/19/20 22:28	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

Client Sample ID: 3229V-6-B01 (0-5) Dup

Lab Sample ID: 500-177900-2

Date Collected: 02/13/20 10:05

Matrix: Solid

Date Received: 02/14/20 14:00

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	<0.36		0.76	0.36	mg/Kg	☼	02/19/20 08:46	02/19/20 22:28	1
N-Nitrosodi-n-propylamine	<0.046		0.076	0.046	mg/Kg	☼	02/19/20 08:46	02/19/20 22:28	1
N-Nitrosodiphenylamine	<0.045		0.19	0.045	mg/Kg	☼	02/19/20 08:46	02/19/20 22:28	1
2,2'-oxybis[1-chloropropane]	<0.044		0.19	0.044	mg/Kg	☼	02/19/20 08:46	02/19/20 22:28	1
Pentachlorophenol	<0.61		0.76	0.61	mg/Kg	☼	02/19/20 08:46	02/19/20 22:28	1
Phenanthrene	0.30	B	0.038	0.0053	mg/Kg	☼	02/19/20 08:46	02/19/20 22:28	1
Phenol	<0.084		0.19	0.084	mg/Kg	☼	02/19/20 08:46	02/19/20 22:28	1
Pyrene	0.40	B	0.038	0.0075	mg/Kg	☼	02/19/20 08:46	02/19/20 22:28	1
1,2,4-Trichlorobenzene	<0.041		0.19	0.041	mg/Kg	☼	02/19/20 08:46	02/19/20 22:28	1
2,4,5-Trichlorophenol	<0.086		0.38	0.086	mg/Kg	☼	02/19/20 08:46	02/19/20 22:28	1
2,4,6-Trichlorophenol	<0.13		0.38	0.13	mg/Kg	☼	02/19/20 08:46	02/19/20 22:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	99		43 - 145				02/19/20 08:46	02/19/20 22:28	1
2-Fluorophenol	92		31 - 166				02/19/20 08:46	02/19/20 22:28	1
Nitrobenzene-d5	90		37 - 147				02/19/20 08:46	02/19/20 22:28	1
Phenol-d5	83		30 - 153				02/19/20 08:46	02/19/20 22:28	1
Terphenyl-d14	136		42 - 157				02/19/20 08:46	02/19/20 22:28	1
2,4,6-Tribromophenol	121		31 - 143				02/19/20 08:46	02/19/20 22:28	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.22		1.1	0.22	mg/Kg	☼	02/19/20 06:57	02/19/20 18:16	1
Arsenic	3.5		0.57	0.20	mg/Kg	☼	02/19/20 06:57	02/19/20 18:16	1
Barium	81		0.57	0.065	mg/Kg	☼	02/19/20 06:57	02/19/20 18:16	1
Beryllium	0.56		0.23	0.054	mg/Kg	☼	02/19/20 06:57	02/19/20 18:16	1
Cadmium	0.32	B	0.11	0.021	mg/Kg	☼	02/19/20 06:57	02/19/20 18:16	1
Chromium	15		0.57	0.28	mg/Kg	☼	02/19/20 06:57	02/19/20 18:16	1
Cobalt	6.7		0.29	0.075	mg/Kg	☼	02/19/20 06:57	02/19/20 18:16	1
Copper	15		0.57	0.16	mg/Kg	☼	02/19/20 06:57	02/19/20 18:16	1
Iron	12000	B	11	6.0	mg/Kg	☼	02/19/20 06:57	02/19/20 18:16	1
Lead	63		0.29	0.13	mg/Kg	☼	02/19/20 06:57	02/19/20 18:16	1
Magnesium	12000		5.7	2.8	mg/Kg	☼	02/19/20 06:57	02/19/20 18:16	1
Calcium	18000		11	1.9	mg/Kg	☼	02/19/20 06:57	02/19/20 18:16	1
Manganese	700		0.57	0.083	mg/Kg	☼	02/19/20 06:57	02/19/20 18:16	1
Nickel	16		0.57	0.17	mg/Kg	☼	02/19/20 06:57	02/19/20 18:16	1
Selenium	<0.34		0.57	0.34	mg/Kg	☼	02/19/20 06:57	02/19/20 18:16	1
Silver	0.17	J	0.29	0.074	mg/Kg	☼	02/19/20 06:57	02/19/20 18:16	1
Thallium	<0.29		0.57	0.29	mg/Kg	☼	02/19/20 06:57	02/19/20 18:16	1
Vanadium	27		0.29	0.068	mg/Kg	☼	02/19/20 06:57	02/19/20 18:16	1
Zinc	76	B	1.1	0.50	mg/Kg	☼	02/19/20 06:57	02/19/20 18:16	1
Potassium	1400		29	10	mg/Kg	☼	02/19/20 06:57	02/19/20 18:16	1
Sodium	1200		57	8.5	mg/Kg	☼	02/19/20 06:57	02/19/20 18:16	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		02/24/20 06:22	02/24/20 18:01	1
Barium	0.57		0.50	0.050	mg/L		02/24/20 06:22	02/24/20 18:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/24/20 06:22	02/24/20 18:01	1
Cadmium	0.0043	J	0.0050	0.0020	mg/L		02/24/20 06:22	02/24/20 18:01	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

Client Sample ID: 3229V-6-B01 (0-5) Dup

Lab Sample ID: 500-177900-2

Date Collected: 02/13/20 10:05

Matrix: Solid

Date Received: 02/14/20 14:00

Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	370		5.0	0.50	mg/L		02/24/20 06:22	02/24/20 18:01	1
Chromium	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:01	1
Cobalt	0.025		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:01	1
Copper	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:01	1
Iron	<0.20		0.40	0.20	mg/L		02/24/20 06:22	02/24/20 18:01	1
Lead	0.12		0.0075	0.0075	mg/L		02/24/20 06:22	02/24/20 18:01	1
Magnesium	79		2.5	0.50	mg/L		02/24/20 06:22	02/24/20 18:01	1
Manganese	4.3		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:01	1
Nickel	0.022	J	0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:01	1
Potassium	2.6		2.5	0.50	mg/L		02/24/20 06:22	02/24/20 18:01	1
Selenium	<0.020		0.050	0.020	mg/L		02/24/20 06:22	02/24/20 18:01	1
Silver	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:01	1
Vanadium	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:01	1
Zinc	0.12	J *	0.50	0.020	mg/L		02/24/20 06:22	02/24/20 18:01	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.88		0.0075	0.0075	mg/L		02/24/20 06:19	02/24/20 18:41	1
Manganese	1.2		0.025	0.010	mg/L		02/24/20 06:19	02/24/20 18:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/24/20 06:22	02/24/20 19:31	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/24/20 06:22	02/24/20 19:31	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/24/20 10:20	02/25/20 09:13	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.019	0.0063	mg/Kg	☼	02/24/20 15:45	02/25/20 07:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.25		0.49	0.25	mg/Kg	☼	02/24/20 09:45	02/24/20 13:52	1
pH	8.5		0.2	0.2	SU			02/22/20 18:54	1

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

Client Sample ID: 3229V-6-B01 (5-8)

Lab Sample ID: 500-177900-3

Date Collected: 02/13/20 10:10

Matrix: Solid

Date Received: 02/14/20 14:00

Percent Solids: 81.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0087		0.020	0.0087	mg/Kg	☼	02/14/20 17:08	02/18/20 14:37	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg	☼	02/14/20 17:08	02/18/20 14:37	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg	☼	02/14/20 17:08	02/18/20 14:37	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg	☼	02/14/20 17:08	02/18/20 14:37	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg	☼	02/14/20 17:08	02/18/20 14:37	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg	☼	02/14/20 17:08	02/18/20 14:37	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg	☼	02/14/20 17:08	02/18/20 14:37	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg	☼	02/14/20 17:08	02/18/20 14:37	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg	☼	02/14/20 17:08	02/18/20 14:37	1
Chloroethane	<0.0015 *		0.0050	0.0015	mg/Kg	☼	02/14/20 17:08	02/18/20 14:37	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg	☼	02/14/20 17:08	02/18/20 14:37	1
Chloromethane	<0.0020 *		0.0050	0.0020	mg/Kg	☼	02/14/20 17:08	02/18/20 14:37	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg	☼	02/14/20 17:08	02/18/20 14:37	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg	☼	02/14/20 17:08	02/18/20 14:37	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg	☼	02/14/20 17:08	02/18/20 14:37	1
1,1-Dichloroethane	<0.00068		0.0020	0.00068	mg/Kg	☼	02/14/20 17:08	02/18/20 14:37	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg	☼	02/14/20 17:08	02/18/20 14:37	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg	☼	02/14/20 17:08	02/18/20 14:37	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg	☼	02/14/20 17:08	02/18/20 14:37	1
1,3-Dichloropropane, Total	<0.00070		0.0020	0.00070	mg/Kg	☼	02/14/20 17:08	02/18/20 14:37	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg	☼	02/14/20 17:08	02/18/20 14:37	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg	☼	02/14/20 17:08	02/18/20 14:37	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg	☼	02/14/20 17:08	02/18/20 14:37	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg	☼	02/14/20 17:08	02/18/20 14:37	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg	☼	02/14/20 17:08	02/18/20 14:37	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg	☼	02/14/20 17:08	02/18/20 14:37	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg	☼	02/14/20 17:08	02/18/20 14:37	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg	☼	02/14/20 17:08	02/18/20 14:37	1
Toluene	<0.00050		0.0020	0.00050	mg/Kg	☼	02/14/20 17:08	02/18/20 14:37	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg	☼	02/14/20 17:08	02/18/20 14:37	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg	☼	02/14/20 17:08	02/18/20 14:37	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg	☼	02/14/20 17:08	02/18/20 14:37	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg	☼	02/14/20 17:08	02/18/20 14:37	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg	☼	02/14/20 17:08	02/18/20 14:37	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg	☼	02/14/20 17:08	02/18/20 14:37	1
Vinyl chloride	<0.00088		0.0020	0.00088	mg/Kg	☼	02/14/20 17:08	02/18/20 14:37	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg	☼	02/14/20 17:08	02/18/20 14:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		75 - 131	02/14/20 17:08	02/18/20 14:37	1
Dibromofluoromethane	90		75 - 126	02/14/20 17:08	02/18/20 14:37	1
1,2-Dichloroethane-d4 (Surr)	88		70 - 134	02/14/20 17:08	02/18/20 14:37	1
Toluene-d8 (Surr)	96		75 - 124	02/14/20 17:08	02/18/20 14:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0070		0.039	0.0070	mg/Kg	☼	02/19/20 08:46	02/19/20 22:51	1
Acenaphthylene	<0.0052		0.039	0.0052	mg/Kg	☼	02/19/20 08:46	02/19/20 22:51	1
Anthracene	0.0069	J	0.039	0.0065	mg/Kg	☼	02/19/20 08:46	02/19/20 22:51	1
Benzo[a]anthracene	0.028	J B	0.039	0.0053	mg/Kg	☼	02/19/20 08:46	02/19/20 22:51	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

Client Sample ID: 3229V-6-B01 (5-8)

Lab Sample ID: 500-177900-3

Date Collected: 02/13/20 10:10

Matrix: Solid

Date Received: 02/14/20 14:00

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	0.031	J	0.039	0.0076	mg/Kg	☼	02/19/20 08:46	02/19/20 22:51	1
Benzo[b]fluoranthene	0.045		0.039	0.0084	mg/Kg	☼	02/19/20 08:46	02/19/20 22:51	1
Benzo[g,h,i]perylene	0.024	J	0.039	0.013	mg/Kg	☼	02/19/20 08:46	02/19/20 22:51	1
Benzo[k]fluoranthene	0.012	J	0.039	0.012	mg/Kg	☼	02/19/20 08:46	02/19/20 22:51	1
Bis(2-chloroethoxy)methane	<0.040		0.20	0.040	mg/Kg	☼	02/19/20 08:46	02/19/20 22:51	1
Bis(2-chloroethyl)ether	<0.059		0.20	0.059	mg/Kg	☼	02/19/20 08:46	02/19/20 22:51	1
Bis(2-ethylhexyl) phthalate	<0.071		0.20	0.071	mg/Kg	☼	02/19/20 08:46	02/19/20 22:51	1
4-Bromophenyl phenyl ether	<0.052		0.20	0.052	mg/Kg	☼	02/19/20 08:46	02/19/20 22:51	1
Butyl benzyl phthalate	<0.074		0.20	0.074	mg/Kg	☼	02/19/20 08:46	02/19/20 22:51	1
Carbazole	<0.098		0.20	0.098	mg/Kg	☼	02/19/20 08:46	02/19/20 22:51	1
4-Chloroaniline	<0.18		0.79	0.18	mg/Kg	☼	02/19/20 08:46	02/19/20 22:51	1
4-Chloro-3-methylphenol	<0.13		0.39	0.13	mg/Kg	☼	02/19/20 08:46	02/19/20 22:51	1
2-Chloronaphthalene	<0.043		0.20	0.043	mg/Kg	☼	02/19/20 08:46	02/19/20 22:51	1
2-Chlorophenol	<0.067		0.20	0.067	mg/Kg	☼	02/19/20 08:46	02/19/20 22:51	1
4-Chlorophenyl phenyl ether	<0.046		0.20	0.046	mg/Kg	☼	02/19/20 08:46	02/19/20 22:51	1
Chrysene	0.032	J	0.039	0.011	mg/Kg	☼	02/19/20 08:46	02/19/20 22:51	1
Dibenz(a,h)anthracene	<0.0076		0.039	0.0076	mg/Kg	☼	02/19/20 08:46	02/19/20 22:51	1
Dibenzofuran	<0.046		0.20	0.046	mg/Kg	☼	02/19/20 08:46	02/19/20 22:51	1
1,2-Dichlorobenzene	<0.047		0.20	0.047	mg/Kg	☼	02/19/20 08:46	02/19/20 22:51	1
1,3-Dichlorobenzene	<0.044		0.20	0.044	mg/Kg	☼	02/19/20 08:46	02/19/20 22:51	1
1,4-Dichlorobenzene	<0.050		0.20	0.050	mg/Kg	☼	02/19/20 08:46	02/19/20 22:51	1
3,3'-Dichlorobenzidine	<0.055		0.20	0.055	mg/Kg	☼	02/19/20 08:46	02/19/20 22:51	1
2,4-Dichlorophenol	<0.093		0.39	0.093	mg/Kg	☼	02/19/20 08:46	02/19/20 22:51	1
Diethyl phthalate	<0.066		0.20	0.066	mg/Kg	☼	02/19/20 08:46	02/19/20 22:51	1
2,4-Dimethylphenol	<0.15		0.39	0.15	mg/Kg	☼	02/19/20 08:46	02/19/20 22:51	1
Dimethyl phthalate	<0.051		0.20	0.051	mg/Kg	☼	02/19/20 08:46	02/19/20 22:51	1
Di-n-butyl phthalate	<0.060		0.20	0.060	mg/Kg	☼	02/19/20 08:46	02/19/20 22:51	1
4,6-Dinitro-2-methylphenol	<0.31		0.79	0.31	mg/Kg	☼	02/19/20 08:46	02/19/20 22:51	1
2,4-Dinitrophenol	<0.69	*	0.79	0.69	mg/Kg	☼	02/19/20 08:46	02/19/20 22:51	1
2,4-Dinitrotoluene	<0.062		0.20	0.062	mg/Kg	☼	02/19/20 08:46	02/19/20 22:51	1
2,6-Dinitrotoluene	<0.077		0.20	0.077	mg/Kg	☼	02/19/20 08:46	02/19/20 22:51	1
Di-n-octyl phthalate	<0.064		0.20	0.064	mg/Kg	☼	02/19/20 08:46	02/19/20 22:51	1
Fluoranthene	0.054	B	0.039	0.0072	mg/Kg	☼	02/19/20 08:46	02/19/20 22:51	1
Fluorene	<0.0055		0.039	0.0055	mg/Kg	☼	02/19/20 08:46	02/19/20 22:51	1
Hexachlorobenzene	<0.0091		0.079	0.0091	mg/Kg	☼	02/19/20 08:46	02/19/20 22:51	1
Hexachlorobutadiene	<0.061		0.20	0.061	mg/Kg	☼	02/19/20 08:46	02/19/20 22:51	1
Hexachlorocyclopentadiene	<0.22		0.79	0.22	mg/Kg	☼	02/19/20 08:46	02/19/20 22:51	1
Hexachloroethane	<0.059		0.20	0.059	mg/Kg	☼	02/19/20 08:46	02/19/20 22:51	1
Indeno[1,2,3-cd]pyrene	0.021	J	0.039	0.010	mg/Kg	☼	02/19/20 08:46	02/19/20 22:51	1
Isophorone	<0.044		0.20	0.044	mg/Kg	☼	02/19/20 08:46	02/19/20 22:51	1
2-Methylnaphthalene	<0.0072		0.079	0.0072	mg/Kg	☼	02/19/20 08:46	02/19/20 22:51	1
2-Methylphenol	<0.063		0.20	0.063	mg/Kg	☼	02/19/20 08:46	02/19/20 22:51	1
3 & 4 Methylphenol	<0.065		0.20	0.065	mg/Kg	☼	02/19/20 08:46	02/19/20 22:51	1
Naphthalene	<0.0060		0.039	0.0060	mg/Kg	☼	02/19/20 08:46	02/19/20 22:51	1
2-Nitroaniline	<0.053		0.20	0.053	mg/Kg	☼	02/19/20 08:46	02/19/20 22:51	1
3-Nitroaniline	<0.12		0.39	0.12	mg/Kg	☼	02/19/20 08:46	02/19/20 22:51	1
4-Nitroaniline	<0.16		0.39	0.16	mg/Kg	☼	02/19/20 08:46	02/19/20 22:51	1
Nitrobenzene	<0.0098		0.039	0.0098	mg/Kg	☼	02/19/20 08:46	02/19/20 22:51	1
2-Nitrophenol	<0.092		0.39	0.092	mg/Kg	☼	02/19/20 08:46	02/19/20 22:51	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

Client Sample ID: 3229V-6-B01 (5-8)

Lab Sample ID: 500-177900-3

Date Collected: 02/13/20 10:10

Matrix: Solid

Date Received: 02/14/20 14:00

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	<0.37		0.79	0.37	mg/Kg	☼	02/19/20 08:46	02/19/20 22:51	1
N-Nitrosodi-n-propylamine	<0.048		0.079	0.048	mg/Kg	☼	02/19/20 08:46	02/19/20 22:51	1
N-Nitrosodiphenylamine	<0.046		0.20	0.046	mg/Kg	☼	02/19/20 08:46	02/19/20 22:51	1
2,2'-oxybis[1-chloropropane]	<0.045		0.20	0.045	mg/Kg	☼	02/19/20 08:46	02/19/20 22:51	1
Pentachlorophenol	<0.63		0.79	0.63	mg/Kg	☼	02/19/20 08:46	02/19/20 22:51	1
Phenanthrene	0.027	J B	0.039	0.0054	mg/Kg	☼	02/19/20 08:46	02/19/20 22:51	1
Phenol	<0.087		0.20	0.087	mg/Kg	☼	02/19/20 08:46	02/19/20 22:51	1
Pyrene	0.052	B	0.039	0.0078	mg/Kg	☼	02/19/20 08:46	02/19/20 22:51	1
1,2,4-Trichlorobenzene	<0.042		0.20	0.042	mg/Kg	☼	02/19/20 08:46	02/19/20 22:51	1
2,4,5-Trichlorophenol	<0.089		0.39	0.089	mg/Kg	☼	02/19/20 08:46	02/19/20 22:51	1
2,4,6-Trichlorophenol	<0.13		0.39	0.13	mg/Kg	☼	02/19/20 08:46	02/19/20 22:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	67		43 - 145				02/19/20 08:46	02/19/20 22:51	1
2-Fluorophenol	89		31 - 166				02/19/20 08:46	02/19/20 22:51	1
Nitrobenzene-d5	80		37 - 147				02/19/20 08:46	02/19/20 22:51	1
Phenol-d5	70		30 - 153				02/19/20 08:46	02/19/20 22:51	1
Terphenyl-d14	130		42 - 157				02/19/20 08:46	02/19/20 22:51	1
2,4,6-Tribromophenol	79		31 - 143				02/19/20 08:46	02/19/20 22:51	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.23		1.2	0.23	mg/Kg	☼	02/19/20 06:57	02/19/20 18:20	1
Arsenic	3.0		0.59	0.20	mg/Kg	☼	02/19/20 06:57	02/19/20 18:20	1
Barium	48		0.59	0.067	mg/Kg	☼	02/19/20 06:57	02/19/20 18:20	1
Beryllium	0.52		0.24	0.055	mg/Kg	☼	02/19/20 06:57	02/19/20 18:20	1
Cadmium	0.15	B	0.12	0.021	mg/Kg	☼	02/19/20 06:57	02/19/20 18:20	1
Chromium	16		0.59	0.29	mg/Kg	☼	02/19/20 06:57	02/19/20 18:20	1
Cobalt	7.1		0.29	0.077	mg/Kg	☼	02/19/20 06:57	02/19/20 18:20	1
Copper	20		0.59	0.16	mg/Kg	☼	02/19/20 06:57	02/19/20 18:20	1
Iron	11000	B	12	6.1	mg/Kg	☼	02/19/20 06:57	02/19/20 18:20	1
Lead	45		0.29	0.14	mg/Kg	☼	02/19/20 06:57	02/19/20 18:20	1
Magnesium	7500		5.9	2.9	mg/Kg	☼	02/19/20 06:57	02/19/20 18:20	1
Calcium	11000		12	2.0	mg/Kg	☼	02/19/20 06:57	02/19/20 18:20	1
Manganese	300		0.59	0.085	mg/Kg	☼	02/19/20 06:57	02/19/20 18:20	1
Nickel	17		0.59	0.17	mg/Kg	☼	02/19/20 06:57	02/19/20 18:20	1
Selenium	<0.35		0.59	0.35	mg/Kg	☼	02/19/20 06:57	02/19/20 18:20	1
Silver	0.11	J	0.29	0.076	mg/Kg	☼	02/19/20 06:57	02/19/20 18:20	1
Thallium	<0.29		0.59	0.29	mg/Kg	☼	02/19/20 06:57	02/19/20 18:20	1
Vanadium	24		0.29	0.069	mg/Kg	☼	02/19/20 06:57	02/19/20 18:20	1
Zinc	81	B	1.2	0.52	mg/Kg	☼	02/19/20 06:57	02/19/20 18:20	1
Potassium	1400		29	10	mg/Kg	☼	02/19/20 06:57	02/19/20 18:20	1
Sodium	990		59	8.7	mg/Kg	☼	02/19/20 06:57	02/19/20 18:20	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		02/24/20 06:22	02/24/20 18:05	1
Barium	0.32	J	0.50	0.050	mg/L		02/24/20 06:22	02/24/20 18:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/24/20 06:22	02/24/20 18:05	1
Cadmium	0.0023	J	0.0050	0.0020	mg/L		02/24/20 06:22	02/24/20 18:05	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

Client Sample ID: 3229V-6-B01 (5-8)

Lab Sample ID: 500-177900-3

Date Collected: 02/13/20 10:10

Matrix: Solid

Date Received: 02/14/20 14:00

Percent Solids: 81.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	230		5.0	0.50	mg/L		02/24/20 06:22	02/24/20 18:05	1
Chromium	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:05	1
Cobalt	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:05	1
Copper	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:05	1
Iron	<0.20		0.40	0.20	mg/L		02/24/20 06:22	02/24/20 18:05	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/24/20 06:22	02/24/20 18:05	1
Magnesium	120		2.5	0.50	mg/L		02/24/20 06:22	02/24/20 18:05	1
Manganese	1.2		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:05	1
Nickel	0.011	J	0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:05	1
Potassium	0.93	J	2.5	0.50	mg/L		02/24/20 06:22	02/24/20 18:05	1
Selenium	<0.020		0.050	0.020	mg/L		02/24/20 06:22	02/24/20 18:05	1
Silver	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:05	1
Vanadium	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:05	1
Zinc	0.050	J*	0.50	0.020	mg/L		02/24/20 06:22	02/24/20 18:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.88		0.025	0.010	mg/L		02/24/20 06:19	02/24/20 18:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/24/20 06:22	02/24/20 19:34	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/24/20 06:22	02/24/20 19:34	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/24/20 10:20	02/25/20 09:15	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.020	0.0067	mg/Kg	☼	02/24/20 15:45	02/25/20 07:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.26		0.52	0.26	mg/Kg	☼	02/24/20 09:45	02/24/20 13:52	1
pH	8.1		0.2	0.2	SU			02/22/20 18:56	1

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

Client Sample ID: 3229V-6-B02 (0-5)

Lab Sample ID: 500-177900-4

Date Collected: 02/13/20 10:20

Matrix: Solid

Date Received: 02/14/20 14:00

Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.010	J	0.018	0.0077	mg/Kg	☼	02/14/20 17:08	02/18/20 15:03	1
Benzene	<0.00045		0.0018	0.00045	mg/Kg	☼	02/14/20 17:08	02/18/20 15:03	1
Bromodichloromethane	<0.00036		0.0018	0.00036	mg/Kg	☼	02/14/20 17:08	02/18/20 15:03	1
Bromoform	<0.00052		0.0018	0.00052	mg/Kg	☼	02/14/20 17:08	02/18/20 15:03	1
Bromomethane	<0.0017		0.0044	0.0017	mg/Kg	☼	02/14/20 17:08	02/18/20 15:03	1
2-Butanone (MEK)	<0.0020		0.0044	0.0020	mg/Kg	☼	02/14/20 17:08	02/18/20 15:03	1
Carbon disulfide	<0.00092		0.0044	0.00092	mg/Kg	☼	02/14/20 17:08	02/18/20 15:03	1
Carbon tetrachloride	<0.00051		0.0018	0.00051	mg/Kg	☼	02/14/20 17:08	02/18/20 15:03	1
Chlorobenzene	<0.00065		0.0018	0.00065	mg/Kg	☼	02/14/20 17:08	02/18/20 15:03	1
Chloroethane	<0.0013	*	0.0044	0.0013	mg/Kg	☼	02/14/20 17:08	02/18/20 15:03	1
Chloroform	<0.00061		0.0018	0.00061	mg/Kg	☼	02/14/20 17:08	02/18/20 15:03	1
Chloromethane	<0.0018	*	0.0044	0.0018	mg/Kg	☼	02/14/20 17:08	02/18/20 15:03	1
cis-1,2-Dichloroethene	<0.00049		0.0018	0.00049	mg/Kg	☼	02/14/20 17:08	02/18/20 15:03	1
cis-1,3-Dichloropropene	<0.00053		0.0018	0.00053	mg/Kg	☼	02/14/20 17:08	02/18/20 15:03	1
Dibromochloromethane	<0.00058		0.0018	0.00058	mg/Kg	☼	02/14/20 17:08	02/18/20 15:03	1
1,1-Dichloroethane	<0.00060		0.0018	0.00060	mg/Kg	☼	02/14/20 17:08	02/18/20 15:03	1
1,2-Dichloroethane	<0.0014		0.0044	0.0014	mg/Kg	☼	02/14/20 17:08	02/18/20 15:03	1
1,1-Dichloroethene	<0.00061		0.0018	0.00061	mg/Kg	☼	02/14/20 17:08	02/18/20 15:03	1
1,2-Dichloropropane	<0.00046		0.0018	0.00046	mg/Kg	☼	02/14/20 17:08	02/18/20 15:03	1
1,3-Dichloropropane, Total	<0.00062		0.0018	0.00062	mg/Kg	☼	02/14/20 17:08	02/18/20 15:03	1
Ethylbenzene	<0.00084		0.0018	0.00084	mg/Kg	☼	02/14/20 17:08	02/18/20 15:03	1
2-Hexanone	<0.0014		0.0044	0.0014	mg/Kg	☼	02/14/20 17:08	02/18/20 15:03	1
Methylene Chloride	<0.0017		0.0044	0.0017	mg/Kg	☼	02/14/20 17:08	02/18/20 15:03	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0044	0.0013	mg/Kg	☼	02/14/20 17:08	02/18/20 15:03	1
Methyl tert-butyl ether	<0.00052		0.0018	0.00052	mg/Kg	☼	02/14/20 17:08	02/18/20 15:03	1
Styrene	<0.00053		0.0018	0.00053	mg/Kg	☼	02/14/20 17:08	02/18/20 15:03	1
1,1,2,2-Tetrachloroethane	<0.00056		0.0018	0.00056	mg/Kg	☼	02/14/20 17:08	02/18/20 15:03	1
Tetrachloroethene	<0.00060		0.0018	0.00060	mg/Kg	☼	02/14/20 17:08	02/18/20 15:03	1
Toluene	<0.00045		0.0018	0.00045	mg/Kg	☼	02/14/20 17:08	02/18/20 15:03	1
trans-1,2-Dichloroethene	<0.00078		0.0018	0.00078	mg/Kg	☼	02/14/20 17:08	02/18/20 15:03	1
trans-1,3-Dichloropropene	<0.00062		0.0018	0.00062	mg/Kg	☼	02/14/20 17:08	02/18/20 15:03	1
1,1,1-Trichloroethane	<0.00059		0.0018	0.00059	mg/Kg	☼	02/14/20 17:08	02/18/20 15:03	1
1,1,2-Trichloroethane	<0.00076		0.0018	0.00076	mg/Kg	☼	02/14/20 17:08	02/18/20 15:03	1
Trichloroethene	<0.00060		0.0018	0.00060	mg/Kg	☼	02/14/20 17:08	02/18/20 15:03	1
Vinyl acetate	<0.0015		0.0044	0.0015	mg/Kg	☼	02/14/20 17:08	02/18/20 15:03	1
Vinyl chloride	<0.00078		0.0018	0.00078	mg/Kg	☼	02/14/20 17:08	02/18/20 15:03	1
Xylenes, Total	<0.00056		0.0035	0.00056	mg/Kg	☼	02/14/20 17:08	02/18/20 15:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		75 - 131	02/14/20 17:08	02/18/20 15:03	1
Dibromofluoromethane	91		75 - 126	02/14/20 17:08	02/18/20 15:03	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	02/14/20 17:08	02/18/20 15:03	1
Toluene-d8 (Surr)	99		75 - 124	02/14/20 17:08	02/18/20 15:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0069		0.038	0.0069	mg/Kg	☼	02/19/20 08:46	02/19/20 23:15	1
Acenaphthylene	<0.0051		0.038	0.0051	mg/Kg	☼	02/19/20 08:46	02/19/20 23:15	1
Anthracene	0.015	J	0.038	0.0065	mg/Kg	☼	02/19/20 08:46	02/19/20 23:15	1
Benzo[a]anthracene	0.076	B	0.038	0.0052	mg/Kg	☼	02/19/20 08:46	02/19/20 23:15	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

Client Sample ID: 3229V-6-B02 (0-5)

Lab Sample ID: 500-177900-4

Date Collected: 02/13/20 10:20

Matrix: Solid

Date Received: 02/14/20 14:00

Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.079		0.038	0.0075	mg/Kg	☼	02/19/20 08:46	02/19/20 23:15	1
Benzo[b]fluoranthene	0.11		0.038	0.0083	mg/Kg	☼	02/19/20 08:46	02/19/20 23:15	1
Benzo[g,h,i]perylene	0.041		0.038	0.012	mg/Kg	☼	02/19/20 08:46	02/19/20 23:15	1
Benzo[k]fluoranthene	0.044		0.038	0.011	mg/Kg	☼	02/19/20 08:46	02/19/20 23:15	1
Bis(2-chloroethoxy)methane	<0.039		0.19	0.039	mg/Kg	☼	02/19/20 08:46	02/19/20 23:15	1
Bis(2-chloroethyl)ether	<0.058		0.19	0.058	mg/Kg	☼	02/19/20 08:46	02/19/20 23:15	1
Bis(2-ethylhexyl) phthalate	<0.071		0.19	0.071	mg/Kg	☼	02/19/20 08:46	02/19/20 23:15	1
4-Bromophenyl phenyl ether	<0.051		0.19	0.051	mg/Kg	☼	02/19/20 08:46	02/19/20 23:15	1
Butyl benzyl phthalate	<0.074		0.19	0.074	mg/Kg	☼	02/19/20 08:46	02/19/20 23:15	1
Carbazole	<0.097		0.19	0.097	mg/Kg	☼	02/19/20 08:46	02/19/20 23:15	1
4-Chloroaniline	<0.18		0.78	0.18	mg/Kg	☼	02/19/20 08:46	02/19/20 23:15	1
4-Chloro-3-methylphenol	<0.13		0.38	0.13	mg/Kg	☼	02/19/20 08:46	02/19/20 23:15	1
2-Chloronaphthalene	<0.043		0.19	0.043	mg/Kg	☼	02/19/20 08:46	02/19/20 23:15	1
2-Chlorophenol	<0.066		0.19	0.066	mg/Kg	☼	02/19/20 08:46	02/19/20 23:15	1
4-Chlorophenyl phenyl ether	<0.045		0.19	0.045	mg/Kg	☼	02/19/20 08:46	02/19/20 23:15	1
Chrysene	0.11		0.038	0.011	mg/Kg	☼	02/19/20 08:46	02/19/20 23:15	1
Dibenz(a,h)anthracene	0.0088	J	0.038	0.0075	mg/Kg	☼	02/19/20 08:46	02/19/20 23:15	1
Dibenzofuran	<0.045		0.19	0.045	mg/Kg	☼	02/19/20 08:46	02/19/20 23:15	1
1,2-Dichlorobenzene	<0.046		0.19	0.046	mg/Kg	☼	02/19/20 08:46	02/19/20 23:15	1
1,3-Dichlorobenzene	<0.044		0.19	0.044	mg/Kg	☼	02/19/20 08:46	02/19/20 23:15	1
1,4-Dichlorobenzene	<0.050		0.19	0.050	mg/Kg	☼	02/19/20 08:46	02/19/20 23:15	1
3,3'-Dichlorobenzidine	<0.054		0.19	0.054	mg/Kg	☼	02/19/20 08:46	02/19/20 23:15	1
2,4-Dichlorophenol	<0.092		0.38	0.092	mg/Kg	☼	02/19/20 08:46	02/19/20 23:15	1
Diethyl phthalate	<0.066		0.19	0.066	mg/Kg	☼	02/19/20 08:46	02/19/20 23:15	1
2,4-Dimethylphenol	<0.15		0.38	0.15	mg/Kg	☼	02/19/20 08:46	02/19/20 23:15	1
Dimethyl phthalate	<0.051		0.19	0.051	mg/Kg	☼	02/19/20 08:46	02/19/20 23:15	1
Di-n-butyl phthalate	<0.059		0.19	0.059	mg/Kg	☼	02/19/20 08:46	02/19/20 23:15	1
4,6-Dinitro-2-methylphenol	<0.31		0.78	0.31	mg/Kg	☼	02/19/20 08:46	02/19/20 23:15	1
2,4-Dinitrophenol	<0.68	*	0.78	0.68	mg/Kg	☼	02/19/20 08:46	02/19/20 23:15	1
2,4-Dinitrotoluene	<0.061		0.19	0.061	mg/Kg	☼	02/19/20 08:46	02/19/20 23:15	1
2,6-Dinitrotoluene	<0.076		0.19	0.076	mg/Kg	☼	02/19/20 08:46	02/19/20 23:15	1
Di-n-octyl phthalate	<0.063		0.19	0.063	mg/Kg	☼	02/19/20 08:46	02/19/20 23:15	1
Fluoranthene	0.15	B	0.038	0.0072	mg/Kg	☼	02/19/20 08:46	02/19/20 23:15	1
Fluorene	<0.0054		0.038	0.0054	mg/Kg	☼	02/19/20 08:46	02/19/20 23:15	1
Hexachlorobenzene	<0.0090		0.078	0.0090	mg/Kg	☼	02/19/20 08:46	02/19/20 23:15	1
Hexachlorobutadiene	<0.061		0.19	0.061	mg/Kg	☼	02/19/20 08:46	02/19/20 23:15	1
Hexachlorocyclopentadiene	<0.22		0.78	0.22	mg/Kg	☼	02/19/20 08:46	02/19/20 23:15	1
Hexachloroethane	<0.059		0.19	0.059	mg/Kg	☼	02/19/20 08:46	02/19/20 23:15	1
Indeno[1,2,3-cd]pyrene	0.031	J	0.038	0.010	mg/Kg	☼	02/19/20 08:46	02/19/20 23:15	1
Isophorone	<0.043		0.19	0.043	mg/Kg	☼	02/19/20 08:46	02/19/20 23:15	1
2-Methylnaphthalene	0.085		0.078	0.0071	mg/Kg	☼	02/19/20 08:46	02/19/20 23:15	1
2-Methylphenol	<0.062		0.19	0.062	mg/Kg	☼	02/19/20 08:46	02/19/20 23:15	1
3 & 4 Methylphenol	<0.064		0.19	0.064	mg/Kg	☼	02/19/20 08:46	02/19/20 23:15	1
Naphthalene	<0.0059		0.038	0.0059	mg/Kg	☼	02/19/20 08:46	02/19/20 23:15	1
2-Nitroaniline	<0.052		0.19	0.052	mg/Kg	☼	02/19/20 08:46	02/19/20 23:15	1
3-Nitroaniline	<0.12		0.38	0.12	mg/Kg	☼	02/19/20 08:46	02/19/20 23:15	1
4-Nitroaniline	<0.16		0.38	0.16	mg/Kg	☼	02/19/20 08:46	02/19/20 23:15	1
Nitrobenzene	<0.0096		0.038	0.0096	mg/Kg	☼	02/19/20 08:46	02/19/20 23:15	1
2-Nitrophenol	<0.091		0.38	0.091	mg/Kg	☼	02/19/20 08:46	02/19/20 23:15	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

Client Sample ID: 3229V-6-B02 (0-5)

Lab Sample ID: 500-177900-4

Date Collected: 02/13/20 10:20

Matrix: Solid

Date Received: 02/14/20 14:00

Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.37		0.78	0.37	mg/Kg	☼	02/19/20 08:46	02/19/20 23:15	1
N-Nitrosodi-n-propylamine	<0.047		0.078	0.047	mg/Kg	☼	02/19/20 08:46	02/19/20 23:15	1
N-Nitrosodiphenylamine	<0.046		0.19	0.046	mg/Kg	☼	02/19/20 08:46	02/19/20 23:15	1
2,2'-oxybis[1-chloropropane]	<0.045		0.19	0.045	mg/Kg	☼	02/19/20 08:46	02/19/20 23:15	1
Pentachlorophenol	<0.62		0.78	0.62	mg/Kg	☼	02/19/20 08:46	02/19/20 23:15	1
Phenanthrene	0.096	B	0.038	0.0054	mg/Kg	☼	02/19/20 08:46	02/19/20 23:15	1
Phenol	<0.086		0.19	0.086	mg/Kg	☼	02/19/20 08:46	02/19/20 23:15	1
Pyrene	0.14	B	0.038	0.0077	mg/Kg	☼	02/19/20 08:46	02/19/20 23:15	1
1,2,4-Trichlorobenzene	<0.042		0.19	0.042	mg/Kg	☼	02/19/20 08:46	02/19/20 23:15	1
2,4,5-Trichlorophenol	<0.088		0.38	0.088	mg/Kg	☼	02/19/20 08:46	02/19/20 23:15	1
2,4,6-Trichlorophenol	<0.13		0.38	0.13	mg/Kg	☼	02/19/20 08:46	02/19/20 23:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	74		43 - 145	02/19/20 08:46	02/19/20 23:15	1
2-Fluorophenol	91		31 - 166	02/19/20 08:46	02/19/20 23:15	1
Nitrobenzene-d5	85		37 - 147	02/19/20 08:46	02/19/20 23:15	1
Phenol-d5	78		30 - 153	02/19/20 08:46	02/19/20 23:15	1
Terphenyl-d14	127		42 - 157	02/19/20 08:46	02/19/20 23:15	1
2,4,6-Tribromophenol	83		31 - 143	02/19/20 08:46	02/19/20 23:15	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.22		1.1	0.22	mg/Kg	☼	02/19/20 06:57	02/19/20 18:24	1
Arsenic	5.9		0.57	0.19	mg/Kg	☼	02/19/20 06:57	02/19/20 18:24	1
Barium	50		0.57	0.065	mg/Kg	☼	02/19/20 06:57	02/19/20 18:24	1
Beryllium	0.70		0.23	0.053	mg/Kg	☼	02/19/20 06:57	02/19/20 18:24	1
Cadmium	0.27	B	0.11	0.020	mg/Kg	☼	02/19/20 06:57	02/19/20 18:24	1
Chromium	16		0.57	0.28	mg/Kg	☼	02/19/20 06:57	02/19/20 18:24	1
Cobalt	9.2		0.28	0.074	mg/Kg	☼	02/19/20 06:57	02/19/20 18:24	1
Copper	22		0.57	0.16	mg/Kg	☼	02/19/20 06:57	02/19/20 18:24	1
Iron	15000	B	11	5.9	mg/Kg	☼	02/19/20 06:57	02/19/20 18:24	1
Lead	25		0.28	0.13	mg/Kg	☼	02/19/20 06:57	02/19/20 18:24	1
Magnesium	21000		5.7	2.8	mg/Kg	☼	02/19/20 06:57	02/19/20 18:24	1
Calcium	49000		110	19	mg/Kg	☼	02/19/20 06:57	02/20/20 15:50	10
Manganese	340		0.57	0.082	mg/Kg	☼	02/19/20 06:57	02/19/20 18:24	1
Nickel	23		0.57	0.16	mg/Kg	☼	02/19/20 06:57	02/19/20 18:24	1
Selenium	<0.33		0.57	0.33	mg/Kg	☼	02/19/20 06:57	02/19/20 18:24	1
Silver	0.14	J	0.28	0.073	mg/Kg	☼	02/19/20 06:57	02/19/20 18:24	1
Thallium	<0.28		0.57	0.28	mg/Kg	☼	02/19/20 06:57	02/19/20 18:24	1
Vanadium	24		0.28	0.067	mg/Kg	☼	02/19/20 06:57	02/19/20 18:24	1
Zinc	100	B	1.1	0.50	mg/Kg	☼	02/19/20 06:57	02/19/20 18:24	1
Potassium	3000		28	10	mg/Kg	☼	02/19/20 06:57	02/19/20 18:24	1
Sodium	1000		57	8.4	mg/Kg	☼	02/19/20 06:57	02/19/20 18:24	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		02/24/20 06:22	02/24/20 18:09	1
Barium	0.39	J	0.50	0.050	mg/L		02/24/20 06:22	02/24/20 18:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/24/20 06:22	02/24/20 18:09	1
Cadmium	0.0028	J	0.0050	0.0020	mg/L		02/24/20 06:22	02/24/20 18:09	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

Client Sample ID: 3229V-6-B02 (0-5)

Lab Sample ID: 500-177900-4

Date Collected: 02/13/20 10:20

Matrix: Solid

Date Received: 02/14/20 14:00

Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	430		5.0	0.50	mg/L		02/24/20 06:22	02/24/20 18:09	1
Chromium	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:09	1
Cobalt	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:09	1
Copper	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:09	1
Iron	<0.20		0.40	0.20	mg/L		02/24/20 06:22	02/24/20 18:09	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/24/20 06:22	02/24/20 18:09	1
Magnesium	88		2.5	0.50	mg/L		02/24/20 06:22	02/24/20 18:09	1
Manganese	0.70		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:09	1
Nickel	0.015	J	0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:09	1
Potassium	4.9		2.5	0.50	mg/L		02/24/20 06:22	02/24/20 18:09	1
Selenium	<0.020		0.050	0.020	mg/L		02/24/20 06:22	02/24/20 18:09	1
Silver	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:09	1
Vanadium	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:09	1
Zinc	0.084	J *	0.50	0.020	mg/L		02/24/20 06:22	02/24/20 18:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.0		0.025	0.010	mg/L		02/24/20 06:19	02/24/20 18:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/24/20 06:22	02/24/20 19:36	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/24/20 06:22	02/24/20 19:36	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/24/20 10:20	02/25/20 09:16	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.019	0.0065	mg/Kg	☼	02/24/20 15:45	02/25/20 07:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.29		0.58	0.29	mg/Kg	☼	02/24/20 09:45	02/24/20 13:52	1
pH	9.0		0.2	0.2	SU			02/22/20 18:59	1

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

Client Sample ID: 3229V-6-B02 (5-8)

Lab Sample ID: 500-177900-5

Date Collected: 02/13/20 10:30

Matrix: Solid

Date Received: 02/14/20 14:00

Percent Solids: 76.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.011	J	0.020	0.0087	mg/Kg	☼	02/14/20 17:08	02/19/20 14:31	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg	☼	02/14/20 17:08	02/19/20 14:31	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg	☼	02/14/20 17:08	02/19/20 14:31	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg	☼	02/14/20 17:08	02/19/20 14:31	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg	☼	02/14/20 17:08	02/19/20 14:31	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg	☼	02/14/20 17:08	02/19/20 14:31	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg	☼	02/14/20 17:08	02/19/20 14:31	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg	☼	02/14/20 17:08	02/19/20 14:31	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg	☼	02/14/20 17:08	02/19/20 14:31	1
Chloroethane	<0.0015	*	0.0050	0.0015	mg/Kg	☼	02/14/20 17:08	02/19/20 14:31	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg	☼	02/14/20 17:08	02/19/20 14:31	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg	☼	02/14/20 17:08	02/19/20 14:31	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg	☼	02/14/20 17:08	02/19/20 14:31	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg	☼	02/14/20 17:08	02/19/20 14:31	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg	☼	02/14/20 17:08	02/19/20 14:31	1
1,1-Dichloroethane	<0.00068		0.0020	0.00068	mg/Kg	☼	02/14/20 17:08	02/19/20 14:31	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg	☼	02/14/20 17:08	02/19/20 14:31	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg	☼	02/14/20 17:08	02/19/20 14:31	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg	☼	02/14/20 17:08	02/19/20 14:31	1
1,3-Dichloropropane, Total	<0.00070		0.0020	0.00070	mg/Kg	☼	02/14/20 17:08	02/19/20 14:31	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg	☼	02/14/20 17:08	02/19/20 14:31	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg	☼	02/14/20 17:08	02/19/20 14:31	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg	☼	02/14/20 17:08	02/19/20 14:31	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg	☼	02/14/20 17:08	02/19/20 14:31	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg	☼	02/14/20 17:08	02/19/20 14:31	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg	☼	02/14/20 17:08	02/19/20 14:31	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg	☼	02/14/20 17:08	02/19/20 14:31	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg	☼	02/14/20 17:08	02/19/20 14:31	1
Toluene	<0.00050		0.0020	0.00050	mg/Kg	☼	02/14/20 17:08	02/19/20 14:31	1
trans-1,2-Dichloroethene	<0.00088		0.0020	0.00088	mg/Kg	☼	02/14/20 17:08	02/19/20 14:31	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg	☼	02/14/20 17:08	02/19/20 14:31	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg	☼	02/14/20 17:08	02/19/20 14:31	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg	☼	02/14/20 17:08	02/19/20 14:31	1
Trichloroethene	<0.00067		0.0020	0.00067	mg/Kg	☼	02/14/20 17:08	02/19/20 14:31	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg	☼	02/14/20 17:08	02/19/20 14:31	1
Vinyl chloride	<0.00088		0.0020	0.00088	mg/Kg	☼	02/14/20 17:08	02/19/20 14:31	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg	☼	02/14/20 17:08	02/19/20 14:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		75 - 131	02/14/20 17:08	02/19/20 14:31	1
Dibromofluoromethane	95		75 - 126	02/14/20 17:08	02/19/20 14:31	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	02/14/20 17:08	02/19/20 14:31	1
Toluene-d8 (Surr)	94		75 - 124	02/14/20 17:08	02/19/20 14:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0075		0.041	0.0075	mg/Kg	☼	02/19/20 08:46	02/19/20 23:38	1
Acenaphthylene	<0.0055		0.041	0.0055	mg/Kg	☼	02/19/20 08:46	02/19/20 23:38	1
Anthracene	0.017	J	0.041	0.0070	mg/Kg	☼	02/19/20 08:46	02/19/20 23:38	1
Benzo[a]anthracene	0.063	B	0.041	0.0056	mg/Kg	☼	02/19/20 08:46	02/19/20 23:38	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

Client Sample ID: 3229V-6-B02 (5-8)

Lab Sample ID: 500-177900-5

Date Collected: 02/13/20 10:30

Matrix: Solid

Date Received: 02/14/20 14:00

Percent Solids: 76.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.072		0.041	0.0081	mg/Kg	☼	02/19/20 08:46	02/19/20 23:38	1
Benzo[b]fluoranthene	0.11		0.041	0.0090	mg/Kg	☼	02/19/20 08:46	02/19/20 23:38	1
Benzo[g,h,i]perylene	0.043		0.041	0.013	mg/Kg	☼	02/19/20 08:46	02/19/20 23:38	1
Benzo[k]fluoranthene	0.044		0.041	0.012	mg/Kg	☼	02/19/20 08:46	02/19/20 23:38	1
Bis(2-chloroethoxy)methane	<0.043		0.21	0.043	mg/Kg	☼	02/19/20 08:46	02/19/20 23:38	1
Bis(2-chloroethyl)ether	<0.063		0.21	0.063	mg/Kg	☼	02/19/20 08:46	02/19/20 23:38	1
Bis(2-ethylhexyl) phthalate	<0.076		0.21	0.076	mg/Kg	☼	02/19/20 08:46	02/19/20 23:38	1
4-Bromophenyl phenyl ether	<0.055		0.21	0.055	mg/Kg	☼	02/19/20 08:46	02/19/20 23:38	1
Butyl benzyl phthalate	<0.079		0.21	0.079	mg/Kg	☼	02/19/20 08:46	02/19/20 23:38	1
Carbazole	<0.10		0.21	0.10	mg/Kg	☼	02/19/20 08:46	02/19/20 23:38	1
4-Chloroaniline	<0.20		0.84	0.20	mg/Kg	☼	02/19/20 08:46	02/19/20 23:38	1
4-Chloro-3-methylphenol	<0.14		0.41	0.14	mg/Kg	☼	02/19/20 08:46	02/19/20 23:38	1
2-Chloronaphthalene	<0.046		0.21	0.046	mg/Kg	☼	02/19/20 08:46	02/19/20 23:38	1
2-Chlorophenol	<0.071		0.21	0.071	mg/Kg	☼	02/19/20 08:46	02/19/20 23:38	1
4-Chlorophenyl phenyl ether	<0.049		0.21	0.049	mg/Kg	☼	02/19/20 08:46	02/19/20 23:38	1
Chrysene	0.083		0.041	0.011	mg/Kg	☼	02/19/20 08:46	02/19/20 23:38	1
Dibenz(a,h)anthracene	0.011	J	0.041	0.0081	mg/Kg	☼	02/19/20 08:46	02/19/20 23:38	1
Dibenzofuran	<0.049		0.21	0.049	mg/Kg	☼	02/19/20 08:46	02/19/20 23:38	1
1,2-Dichlorobenzene	<0.050		0.21	0.050	mg/Kg	☼	02/19/20 08:46	02/19/20 23:38	1
1,3-Dichlorobenzene	<0.047		0.21	0.047	mg/Kg	☼	02/19/20 08:46	02/19/20 23:38	1
1,4-Dichlorobenzene	<0.054		0.21	0.054	mg/Kg	☼	02/19/20 08:46	02/19/20 23:38	1
3,3'-Dichlorobenzidine	<0.058		0.21	0.058	mg/Kg	☼	02/19/20 08:46	02/19/20 23:38	1
2,4-Dichlorophenol	<0.099		0.41	0.099	mg/Kg	☼	02/19/20 08:46	02/19/20 23:38	1
Diethyl phthalate	<0.071		0.21	0.071	mg/Kg	☼	02/19/20 08:46	02/19/20 23:38	1
2,4-Dimethylphenol	<0.16		0.41	0.16	mg/Kg	☼	02/19/20 08:46	02/19/20 23:38	1
Dimethyl phthalate	<0.055		0.21	0.055	mg/Kg	☼	02/19/20 08:46	02/19/20 23:38	1
Di-n-butyl phthalate	<0.064		0.21	0.064	mg/Kg	☼	02/19/20 08:46	02/19/20 23:38	1
4,6-Dinitro-2-methylphenol	<0.34		0.84	0.34	mg/Kg	☼	02/19/20 08:46	02/19/20 23:38	1
2,4-Dinitrophenol	<0.74	*	0.84	0.74	mg/Kg	☼	02/19/20 08:46	02/19/20 23:38	1
2,4-Dinitrotoluene	<0.066		0.21	0.066	mg/Kg	☼	02/19/20 08:46	02/19/20 23:38	1
2,6-Dinitrotoluene	<0.082		0.21	0.082	mg/Kg	☼	02/19/20 08:46	02/19/20 23:38	1
Di-n-octyl phthalate	<0.068		0.21	0.068	mg/Kg	☼	02/19/20 08:46	02/19/20 23:38	1
Fluoranthene	0.17	B	0.041	0.0077	mg/Kg	☼	02/19/20 08:46	02/19/20 23:38	1
Fluorene	<0.0059		0.041	0.0059	mg/Kg	☼	02/19/20 08:46	02/19/20 23:38	1
Hexachlorobenzene	<0.0097		0.084	0.0097	mg/Kg	☼	02/19/20 08:46	02/19/20 23:38	1
Hexachlorobutadiene	<0.066		0.21	0.066	mg/Kg	☼	02/19/20 08:46	02/19/20 23:38	1
Hexachlorocyclopentadiene	<0.24		0.84	0.24	mg/Kg	☼	02/19/20 08:46	02/19/20 23:38	1
Hexachloroethane	<0.063		0.21	0.063	mg/Kg	☼	02/19/20 08:46	02/19/20 23:38	1
Indeno[1,2,3-cd]pyrene	0.033	J	0.041	0.011	mg/Kg	☼	02/19/20 08:46	02/19/20 23:38	1
Isophorone	<0.047		0.21	0.047	mg/Kg	☼	02/19/20 08:46	02/19/20 23:38	1
2-Methylnaphthalene	<0.0077		0.084	0.0077	mg/Kg	☼	02/19/20 08:46	02/19/20 23:38	1
2-Methylphenol	<0.067		0.21	0.067	mg/Kg	☼	02/19/20 08:46	02/19/20 23:38	1
3 & 4 Methylphenol	<0.070		0.21	0.070	mg/Kg	☼	02/19/20 08:46	02/19/20 23:38	1
Naphthalene	<0.0064		0.041	0.0064	mg/Kg	☼	02/19/20 08:46	02/19/20 23:38	1
2-Nitroaniline	<0.056		0.21	0.056	mg/Kg	☼	02/19/20 08:46	02/19/20 23:38	1
3-Nitroaniline	<0.13		0.41	0.13	mg/Kg	☼	02/19/20 08:46	02/19/20 23:38	1
4-Nitroaniline	<0.17		0.41	0.17	mg/Kg	☼	02/19/20 08:46	02/19/20 23:38	1
Nitrobenzene	<0.010		0.041	0.010	mg/Kg	☼	02/19/20 08:46	02/19/20 23:38	1
2-Nitrophenol	<0.099		0.41	0.099	mg/Kg	☼	02/19/20 08:46	02/19/20 23:38	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

Client Sample ID: 3229V-6-B02 (5-8)

Lab Sample ID: 500-177900-5

Date Collected: 02/13/20 10:30

Matrix: Solid

Date Received: 02/14/20 14:00

Percent Solids: 76.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.40		0.84	0.40	mg/Kg	☼	02/19/20 08:46	02/19/20 23:38	1
N-Nitrosodi-n-propylamine	<0.051		0.084	0.051	mg/Kg	☼	02/19/20 08:46	02/19/20 23:38	1
N-Nitrosodiphenylamine	<0.049		0.21	0.049	mg/Kg	☼	02/19/20 08:46	02/19/20 23:38	1
2,2'-oxybis[1-chloropropane]	<0.048		0.21	0.048	mg/Kg	☼	02/19/20 08:46	02/19/20 23:38	1
Pentachlorophenol	<0.67		0.84	0.67	mg/Kg	☼	02/19/20 08:46	02/19/20 23:38	1
Phenanthrene	0.081	B	0.041	0.0058	mg/Kg	☼	02/19/20 08:46	02/19/20 23:38	1
Phenol	<0.093		0.21	0.093	mg/Kg	☼	02/19/20 08:46	02/19/20 23:38	1
Pyrene	0.14	B	0.041	0.0083	mg/Kg	☼	02/19/20 08:46	02/19/20 23:38	1
1,2,4-Trichlorobenzene	<0.045		0.21	0.045	mg/Kg	☼	02/19/20 08:46	02/19/20 23:38	1
2,4,5-Trichlorophenol	<0.095		0.41	0.095	mg/Kg	☼	02/19/20 08:46	02/19/20 23:38	1
2,4,6-Trichlorophenol	<0.14		0.41	0.14	mg/Kg	☼	02/19/20 08:46	02/19/20 23:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	81		43 - 145				02/19/20 08:46	02/19/20 23:38	1
2-Fluorophenol	90		31 - 166				02/19/20 08:46	02/19/20 23:38	1
Nitrobenzene-d5	76		37 - 147				02/19/20 08:46	02/19/20 23:38	1
Phenol-d5	84		30 - 153				02/19/20 08:46	02/19/20 23:38	1
Terphenyl-d14	129		42 - 157				02/19/20 08:46	02/19/20 23:38	1
2,4,6-Tribromophenol	94		31 - 143				02/19/20 08:46	02/19/20 23:38	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.25		1.3	0.25	mg/Kg	☼	02/19/20 06:57	02/19/20 18:29	1
Arsenic	6.1		0.64	0.22	mg/Kg	☼	02/19/20 06:57	02/19/20 18:29	1
Barium	76		0.64	0.073	mg/Kg	☼	02/19/20 06:57	02/19/20 18:29	1
Beryllium	0.69		0.26	0.060	mg/Kg	☼	02/19/20 06:57	02/19/20 18:29	1
Cadmium	0.32	B	0.13	0.023	mg/Kg	☼	02/19/20 06:57	02/19/20 18:29	1
Chromium	17		0.64	0.32	mg/Kg	☼	02/19/20 06:57	02/19/20 18:29	1
Cobalt	8.1		0.32	0.084	mg/Kg	☼	02/19/20 06:57	02/19/20 18:29	1
Copper	19		0.64	0.18	mg/Kg	☼	02/19/20 06:57	02/19/20 18:29	1
Iron	15000	B	13	6.7	mg/Kg	☼	02/19/20 06:57	02/19/20 18:29	1
Lead	16		0.32	0.15	mg/Kg	☼	02/19/20 06:57	02/19/20 18:29	1
Magnesium	6900		6.4	3.2	mg/Kg	☼	02/19/20 06:57	02/19/20 18:29	1
Calcium	10000		13	2.2	mg/Kg	☼	02/19/20 06:57	02/19/20 18:29	1
Manganese	390		0.64	0.093	mg/Kg	☼	02/19/20 06:57	02/19/20 18:29	1
Nickel	20		0.64	0.19	mg/Kg	☼	02/19/20 06:57	02/19/20 18:29	1
Selenium	0.44	J	0.64	0.38	mg/Kg	☼	02/19/20 06:57	02/19/20 18:29	1
Silver	0.10	J	0.32	0.083	mg/Kg	☼	02/19/20 06:57	02/19/20 18:29	1
Thallium	<0.32		0.64	0.32	mg/Kg	☼	02/19/20 06:57	02/19/20 18:29	1
Vanadium	29		0.32	0.076	mg/Kg	☼	02/19/20 06:57	02/19/20 18:29	1
Zinc	75	B	1.3	0.56	mg/Kg	☼	02/19/20 06:57	02/19/20 18:29	1
Potassium	2300		32	11	mg/Kg	☼	02/19/20 06:57	02/19/20 18:29	1
Sodium	1300		64	9.5	mg/Kg	☼	02/19/20 06:57	02/19/20 18:29	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		02/24/20 06:22	02/24/20 18:14	1
Barium	0.30	J	0.50	0.050	mg/L		02/24/20 06:22	02/24/20 18:14	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/24/20 06:22	02/24/20 18:14	1
Cadmium	0.0023	J	0.0050	0.0020	mg/L		02/24/20 06:22	02/24/20 18:14	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

Client Sample ID: 3229V-6-B02 (5-8)

Lab Sample ID: 500-177900-5

Date Collected: 02/13/20 10:30

Matrix: Solid

Date Received: 02/14/20 14:00

Percent Solids: 76.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	260		5.0	0.50	mg/L		02/24/20 06:22	02/24/20 18:14	1
Chromium	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:14	1
Cobalt	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:14	1
Copper	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:14	1
Iron	<0.20		0.40	0.20	mg/L		02/24/20 06:22	02/24/20 18:14	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/24/20 06:22	02/24/20 18:14	1
Magnesium	120		2.5	0.50	mg/L		02/24/20 06:22	02/24/20 18:14	1
Manganese	0.95		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:14	1
Nickel	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:14	1
Potassium	3.3		2.5	0.50	mg/L		02/24/20 06:22	02/24/20 18:14	1
Selenium	<0.020		0.050	0.020	mg/L		02/24/20 06:22	02/24/20 18:14	1
Silver	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:14	1
Vanadium	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:14	1
Zinc	0.037	J *	0.50	0.020	mg/L		02/24/20 06:22	02/24/20 18:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.5		0.025	0.010	mg/L		02/24/20 06:19	02/24/20 18:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/24/20 06:22	02/24/20 19:39	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/24/20 06:22	02/24/20 19:39	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/24/20 10:20	02/25/20 09:18	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.036		0.021	0.0069	mg/Kg	☼	02/24/20 15:45	02/25/20 07:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.31		0.62	0.31	mg/Kg	☼	02/24/20 09:45	02/24/20 13:53	1
pH	8.5		0.2	0.2	SU			02/22/20 19:01	1

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

Client Sample ID: 3229V-6-B03 (0-5)

Lab Sample ID: 500-177900-6

Date Collected: 02/13/20 10:45

Matrix: Solid

Date Received: 02/14/20 14:00

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0090	J	0.017	0.0073	mg/Kg	☼	02/14/20 17:08	02/18/20 15:53	1
Benzene	<0.00043		0.0017	0.00043	mg/Kg	☼	02/14/20 17:08	02/18/20 15:53	1
Bromodichloromethane	<0.00034		0.0017	0.00034	mg/Kg	☼	02/14/20 17:08	02/18/20 15:53	1
Bromoform	<0.00049		0.0017	0.00049	mg/Kg	☼	02/14/20 17:08	02/18/20 15:53	1
Bromomethane	<0.0016		0.0042	0.0016	mg/Kg	☼	02/14/20 17:08	02/18/20 15:53	1
2-Butanone (MEK)	<0.0019		0.0042	0.0019	mg/Kg	☼	02/14/20 17:08	02/18/20 15:53	1
Carbon disulfide	<0.00087		0.0042	0.00087	mg/Kg	☼	02/14/20 17:08	02/18/20 15:53	1
Carbon tetrachloride	<0.00049		0.0017	0.00049	mg/Kg	☼	02/14/20 17:08	02/18/20 15:53	1
Chlorobenzene	<0.00062		0.0017	0.00062	mg/Kg	☼	02/14/20 17:08	02/18/20 15:53	1
Chloroethane	<0.0012	*	0.0042	0.0012	mg/Kg	☼	02/14/20 17:08	02/18/20 15:53	1
Chloroform	<0.00058		0.0017	0.00058	mg/Kg	☼	02/14/20 17:08	02/18/20 15:53	1
Chloromethane	<0.0017	*	0.0042	0.0017	mg/Kg	☼	02/14/20 17:08	02/18/20 15:53	1
cis-1,2-Dichloroethene	<0.00047		0.0017	0.00047	mg/Kg	☼	02/14/20 17:08	02/18/20 15:53	1
cis-1,3-Dichloropropene	<0.00050		0.0017	0.00050	mg/Kg	☼	02/14/20 17:08	02/18/20 15:53	1
Dibromochloromethane	<0.00055		0.0017	0.00055	mg/Kg	☼	02/14/20 17:08	02/18/20 15:53	1
1,1-Dichloroethane	<0.00057		0.0017	0.00057	mg/Kg	☼	02/14/20 17:08	02/18/20 15:53	1
1,2-Dichloroethane	<0.0013		0.0042	0.0013	mg/Kg	☼	02/14/20 17:08	02/18/20 15:53	1
1,1-Dichloroethene	<0.00058		0.0017	0.00058	mg/Kg	☼	02/14/20 17:08	02/18/20 15:53	1
1,2-Dichloropropane	<0.00043		0.0017	0.00043	mg/Kg	☼	02/14/20 17:08	02/18/20 15:53	1
1,3-Dichloropropane, Total	<0.00059		0.0017	0.00059	mg/Kg	☼	02/14/20 17:08	02/18/20 15:53	1
Ethylbenzene	<0.00080		0.0017	0.00080	mg/Kg	☼	02/14/20 17:08	02/18/20 15:53	1
2-Hexanone	<0.0013		0.0042	0.0013	mg/Kg	☼	02/14/20 17:08	02/18/20 15:53	1
Methylene Chloride	<0.0016		0.0042	0.0016	mg/Kg	☼	02/14/20 17:08	02/18/20 15:53	1
4-Methyl-2-pentanone (MIBK)	<0.0012		0.0042	0.0012	mg/Kg	☼	02/14/20 17:08	02/18/20 15:53	1
Methyl tert-butyl ether	<0.00049		0.0017	0.00049	mg/Kg	☼	02/14/20 17:08	02/18/20 15:53	1
Styrene	<0.00051		0.0017	0.00051	mg/Kg	☼	02/14/20 17:08	02/18/20 15:53	1
1,1,2,2-Tetrachloroethane	<0.00054		0.0017	0.00054	mg/Kg	☼	02/14/20 17:08	02/18/20 15:53	1
Tetrachloroethene	<0.00057		0.0017	0.00057	mg/Kg	☼	02/14/20 17:08	02/18/20 15:53	1
Toluene	<0.00042		0.0017	0.00042	mg/Kg	☼	02/14/20 17:08	02/18/20 15:53	1
trans-1,2-Dichloroethene	<0.00074		0.0017	0.00074	mg/Kg	☼	02/14/20 17:08	02/18/20 15:53	1
trans-1,3-Dichloropropene	<0.00059		0.0017	0.00059	mg/Kg	☼	02/14/20 17:08	02/18/20 15:53	1
1,1,1-Trichloroethane	<0.00056		0.0017	0.00056	mg/Kg	☼	02/14/20 17:08	02/18/20 15:53	1
1,1,2-Trichloroethane	<0.00072		0.0017	0.00072	mg/Kg	☼	02/14/20 17:08	02/18/20 15:53	1
Trichloroethene	<0.00057		0.0017	0.00057	mg/Kg	☼	02/14/20 17:08	02/18/20 15:53	1
Vinyl acetate	<0.0015		0.0042	0.0015	mg/Kg	☼	02/14/20 17:08	02/18/20 15:53	1
Vinyl chloride	<0.00074		0.0017	0.00074	mg/Kg	☼	02/14/20 17:08	02/18/20 15:53	1
Xylenes, Total	<0.00054		0.0033	0.00054	mg/Kg	☼	02/14/20 17:08	02/18/20 15:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		75 - 131	02/14/20 17:08	02/18/20 15:53	1
Dibromofluoromethane	94		75 - 126	02/14/20 17:08	02/18/20 15:53	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	02/14/20 17:08	02/18/20 15:53	1
Toluene-d8 (Surr)	98		75 - 124	02/14/20 17:08	02/18/20 15:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0068		0.038	0.0068	mg/Kg	☼	02/19/20 08:46	02/20/20 00:01	1
Acenaphthylene	<0.0050		0.038	0.0050	mg/Kg	☼	02/19/20 08:46	02/20/20 00:01	1
Anthracene	<0.0063		0.038	0.0063	mg/Kg	☼	02/19/20 08:46	02/20/20 00:01	1
Benzof[a]anthracene	<0.0051		0.038	0.0051	mg/Kg	☼	02/19/20 08:46	02/20/20 00:01	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

Client Sample ID: 3229V-6-B03 (0-5)

Lab Sample ID: 500-177900-6

Date Collected: 02/13/20 10:45

Matrix: Solid

Date Received: 02/14/20 14:00

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.0073		0.038	0.0073	mg/Kg	☼	02/19/20 08:46	02/20/20 00:01	1
Benzo[b]fluoranthene	<0.0082		0.038	0.0082	mg/Kg	☼	02/19/20 08:46	02/20/20 00:01	1
Benzo[g,h,i]perylene	0.018	J	0.038	0.012	mg/Kg	☼	02/19/20 08:46	02/20/20 00:01	1
Benzo[k]fluoranthene	<0.011		0.038	0.011	mg/Kg	☼	02/19/20 08:46	02/20/20 00:01	1
Bis(2-chloroethoxy)methane	<0.039		0.19	0.039	mg/Kg	☼	02/19/20 08:46	02/20/20 00:01	1
Bis(2-chloroethyl)ether	<0.057		0.19	0.057	mg/Kg	☼	02/19/20 08:46	02/20/20 00:01	1
Bis(2-ethylhexyl) phthalate	<0.069		0.19	0.069	mg/Kg	☼	02/19/20 08:46	02/20/20 00:01	1
4-Bromophenyl phenyl ether	<0.050		0.19	0.050	mg/Kg	☼	02/19/20 08:46	02/20/20 00:01	1
Butyl benzyl phthalate	<0.072		0.19	0.072	mg/Kg	☼	02/19/20 08:46	02/20/20 00:01	1
Carbazole	<0.095		0.19	0.095	mg/Kg	☼	02/19/20 08:46	02/20/20 00:01	1
4-Chloroaniline	<0.18		0.77	0.18	mg/Kg	☼	02/19/20 08:46	02/20/20 00:01	1
4-Chloro-3-methylphenol	<0.13		0.38	0.13	mg/Kg	☼	02/19/20 08:46	02/20/20 00:01	1
2-Chloronaphthalene	<0.042		0.19	0.042	mg/Kg	☼	02/19/20 08:46	02/20/20 00:01	1
2-Chlorophenol	<0.065		0.19	0.065	mg/Kg	☼	02/19/20 08:46	02/20/20 00:01	1
4-Chlorophenyl phenyl ether	<0.044		0.19	0.044	mg/Kg	☼	02/19/20 08:46	02/20/20 00:01	1
Chrysene	0.015	J	0.038	0.010	mg/Kg	☼	02/19/20 08:46	02/20/20 00:01	1
Dibenz(a,h)anthracene	<0.0073		0.038	0.0073	mg/Kg	☼	02/19/20 08:46	02/20/20 00:01	1
Dibenzofuran	<0.044		0.19	0.044	mg/Kg	☼	02/19/20 08:46	02/20/20 00:01	1
1,2-Dichlorobenzene	<0.045		0.19	0.045	mg/Kg	☼	02/19/20 08:46	02/20/20 00:01	1
1,3-Dichlorobenzene	<0.043		0.19	0.043	mg/Kg	☼	02/19/20 08:46	02/20/20 00:01	1
1,4-Dichlorobenzene	<0.049		0.19	0.049	mg/Kg	☼	02/19/20 08:46	02/20/20 00:01	1
3,3'-Dichlorobenzidine	<0.053		0.19	0.053	mg/Kg	☼	02/19/20 08:46	02/20/20 00:01	1
2,4-Dichlorophenol	<0.090		0.38	0.090	mg/Kg	☼	02/19/20 08:46	02/20/20 00:01	1
Diethyl phthalate	<0.064		0.19	0.064	mg/Kg	☼	02/19/20 08:46	02/20/20 00:01	1
2,4-Dimethylphenol	<0.14		0.38	0.14	mg/Kg	☼	02/19/20 08:46	02/20/20 00:01	1
Dimethyl phthalate	<0.050		0.19	0.050	mg/Kg	☼	02/19/20 08:46	02/20/20 00:01	1
Di-n-butyl phthalate	<0.058		0.19	0.058	mg/Kg	☼	02/19/20 08:46	02/20/20 00:01	1
4,6-Dinitro-2-methylphenol	<0.31		0.77	0.31	mg/Kg	☼	02/19/20 08:46	02/20/20 00:01	1
2,4-Dinitrophenol	<0.67	*	0.77	0.67	mg/Kg	☼	02/19/20 08:46	02/20/20 00:01	1
2,4-Dinitrotoluene	<0.060		0.19	0.060	mg/Kg	☼	02/19/20 08:46	02/20/20 00:01	1
2,6-Dinitrotoluene	<0.075		0.19	0.075	mg/Kg	☼	02/19/20 08:46	02/20/20 00:01	1
Di-n-octyl phthalate	<0.062		0.19	0.062	mg/Kg	☼	02/19/20 08:46	02/20/20 00:01	1
Fluoranthene	0.011	J B	0.038	0.0070	mg/Kg	☼	02/19/20 08:46	02/20/20 00:01	1
Fluorene	<0.0053		0.038	0.0053	mg/Kg	☼	02/19/20 08:46	02/20/20 00:01	1
Hexachlorobenzene	<0.0088		0.077	0.0088	mg/Kg	☼	02/19/20 08:46	02/20/20 00:01	1
Hexachlorobutadiene	<0.060		0.19	0.060	mg/Kg	☼	02/19/20 08:46	02/20/20 00:01	1
Hexachlorocyclopentadiene	<0.22		0.77	0.22	mg/Kg	☼	02/19/20 08:46	02/20/20 00:01	1
Hexachloroethane	<0.058		0.19	0.058	mg/Kg	☼	02/19/20 08:46	02/20/20 00:01	1
Indeno[1,2,3-cd]pyrene	<0.0098		0.038	0.0098	mg/Kg	☼	02/19/20 08:46	02/20/20 00:01	1
Isophorone	<0.043		0.19	0.043	mg/Kg	☼	02/19/20 08:46	02/20/20 00:01	1
2-Methylnaphthalene	0.0091	J	0.077	0.0070	mg/Kg	☼	02/19/20 08:46	02/20/20 00:01	1
2-Methylphenol	<0.061		0.19	0.061	mg/Kg	☼	02/19/20 08:46	02/20/20 00:01	1
3 & 4 Methylphenol	<0.063		0.19	0.063	mg/Kg	☼	02/19/20 08:46	02/20/20 00:01	1
Naphthalene	<0.0058		0.038	0.0058	mg/Kg	☼	02/19/20 08:46	02/20/20 00:01	1
2-Nitroaniline	<0.051		0.19	0.051	mg/Kg	☼	02/19/20 08:46	02/20/20 00:01	1
3-Nitroaniline	<0.12		0.38	0.12	mg/Kg	☼	02/19/20 08:46	02/20/20 00:01	1
4-Nitroaniline	<0.16		0.38	0.16	mg/Kg	☼	02/19/20 08:46	02/20/20 00:01	1
Nitrobenzene	<0.0095		0.038	0.0095	mg/Kg	☼	02/19/20 08:46	02/20/20 00:01	1
2-Nitrophenol	<0.090		0.38	0.090	mg/Kg	☼	02/19/20 08:46	02/20/20 00:01	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

Client Sample ID: 3229V-6-B03 (0-5)

Lab Sample ID: 500-177900-6

Date Collected: 02/13/20 10:45

Matrix: Solid

Date Received: 02/14/20 14:00

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.36		0.77	0.36	mg/Kg	☼	02/19/20 08:46	02/20/20 00:01	1
N-Nitrosodi-n-propylamine	<0.046		0.077	0.046	mg/Kg	☼	02/19/20 08:46	02/20/20 00:01	1
N-Nitrosodiphenylamine	<0.045		0.19	0.045	mg/Kg	☼	02/19/20 08:46	02/20/20 00:01	1
2,2'-oxybis[1-chloropropane]	<0.044		0.19	0.044	mg/Kg	☼	02/19/20 08:46	02/20/20 00:01	1
Pentachlorophenol	<0.61		0.77	0.61	mg/Kg	☼	02/19/20 08:46	02/20/20 00:01	1
Phenanthrene	0.037	J B	0.038	0.0053	mg/Kg	☼	02/19/20 08:46	02/20/20 00:01	1
Phenol	<0.084		0.19	0.084	mg/Kg	☼	02/19/20 08:46	02/20/20 00:01	1
Pyrene	0.022	J B	0.038	0.0075	mg/Kg	☼	02/19/20 08:46	02/20/20 00:01	1
1,2,4-Trichlorobenzene	<0.041		0.19	0.041	mg/Kg	☼	02/19/20 08:46	02/20/20 00:01	1
2,4,5-Trichlorophenol	<0.087		0.38	0.087	mg/Kg	☼	02/19/20 08:46	02/20/20 00:01	1
2,4,6-Trichlorophenol	<0.13		0.38	0.13	mg/Kg	☼	02/19/20 08:46	02/20/20 00:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	107		43 - 145				02/19/20 08:46	02/20/20 00:01	1
2-Fluorophenol	88		31 - 166				02/19/20 08:46	02/20/20 00:01	1
Nitrobenzene-d5	81		37 - 147				02/19/20 08:46	02/20/20 00:01	1
Phenol-d5	74		30 - 153				02/19/20 08:46	02/20/20 00:01	1
Terphenyl-d14	127		42 - 157				02/19/20 08:46	02/20/20 00:01	1
2,4,6-Tribromophenol	104		31 - 143				02/19/20 08:46	02/20/20 00:01	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.22	J	1.1	0.22	mg/Kg	☼	02/19/20 06:57	02/19/20 18:33	1
Arsenic	6.8		0.56	0.19	mg/Kg	☼	02/19/20 06:57	02/19/20 18:33	1
Barium	56		0.56	0.064	mg/Kg	☼	02/19/20 06:57	02/19/20 18:33	1
Beryllium	0.82		0.22	0.052	mg/Kg	☼	02/19/20 06:57	02/19/20 18:33	1
Cadmium	0.13	B	0.11	0.020	mg/Kg	☼	02/19/20 06:57	02/19/20 18:33	1
Chromium	18		0.56	0.28	mg/Kg	☼	02/19/20 06:57	02/19/20 18:33	1
Cobalt	13		0.28	0.074	mg/Kg	☼	02/19/20 06:57	02/19/20 18:33	1
Copper	20		0.56	0.16	mg/Kg	☼	02/19/20 06:57	02/19/20 18:33	1
Iron	18000	B	11	5.8	mg/Kg	☼	02/19/20 06:57	02/19/20 18:33	1
Lead	21		0.28	0.13	mg/Kg	☼	02/19/20 06:57	02/19/20 18:33	1
Magnesium	24000		5.6	2.8	mg/Kg	☼	02/19/20 06:57	02/19/20 18:33	1
Calcium	56000		110	19	mg/Kg	☼	02/19/20 06:57	02/20/20 15:55	10
Manganese	400		0.56	0.081	mg/Kg	☼	02/19/20 06:57	02/19/20 18:33	1
Nickel	31		0.56	0.16	mg/Kg	☼	02/19/20 06:57	02/19/20 18:33	1
Selenium	0.36	J	0.56	0.33	mg/Kg	☼	02/19/20 06:57	02/19/20 18:33	1
Silver	0.20	J	0.28	0.072	mg/Kg	☼	02/19/20 06:57	02/19/20 18:33	1
Thallium	<0.28		0.56	0.28	mg/Kg	☼	02/19/20 06:57	02/19/20 18:33	1
Vanadium	24		0.28	0.066	mg/Kg	☼	02/19/20 06:57	02/19/20 18:33	1
Zinc	52	B	1.1	0.49	mg/Kg	☼	02/19/20 06:57	02/19/20 18:33	1
Potassium	3800		28	9.9	mg/Kg	☼	02/19/20 06:57	02/19/20 18:33	1
Sodium	2300		56	8.3	mg/Kg	☼	02/19/20 06:57	02/19/20 18:33	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		02/24/20 06:22	02/24/20 18:18	1
Barium	0.71		0.50	0.050	mg/L		02/24/20 06:22	02/24/20 18:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/24/20 06:22	02/24/20 18:18	1
Cadmium	0.0020	J	0.0050	0.0020	mg/L		02/24/20 06:22	02/24/20 18:18	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

Client Sample ID: 3229V-6-B03 (0-5)

Lab Sample ID: 500-177900-6

Date Collected: 02/13/20 10:45

Matrix: Solid

Date Received: 02/14/20 14:00

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	530		5.0	0.50	mg/L		02/24/20 06:22	02/24/20 18:18	1
Chromium	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:18	1
Cobalt	0.020	J	0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:18	1
Copper	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:18	1
Iron	<0.20		0.40	0.20	mg/L		02/24/20 06:22	02/24/20 18:18	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/24/20 06:22	02/24/20 18:18	1
Magnesium	45		2.5	0.50	mg/L		02/24/20 06:22	02/24/20 18:18	1
Manganese	5.9		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:18	1
Nickel	0.018	J	0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:18	1
Potassium	4.1		2.5	0.50	mg/L		02/24/20 06:22	02/24/20 18:18	1
Selenium	<0.020		0.050	0.020	mg/L		02/24/20 06:22	02/24/20 18:18	1
Silver	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:18	1
Vanadium	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:18	1
Zinc	<0.020	*	0.50	0.020	mg/L		02/24/20 06:22	02/24/20 18:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	2.3		0.025	0.010	mg/L		02/24/20 06:19	02/24/20 18:59	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		02/24/20 06:22	02/24/20 19:41	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/24/20 06:22	02/24/20 19:41	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/24/20 10:20	02/25/20 09:19	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.019	0.0063	mg/Kg	☼	02/24/20 15:45	02/25/20 07:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.27		0.54	0.27	mg/Kg	☼	02/24/20 09:45	02/24/20 13:53	1
pH	8.6		0.2	0.2	SU			02/22/20 19:06	1

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

Client Sample ID: 3229V-6-B03 (5-8)

Lab Sample ID: 500-177900-7

Date Collected: 02/13/20 10:55

Matrix: Solid

Date Received: 02/14/20 14:00

Percent Solids: 79.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0075		0.017	0.0075	mg/Kg	☼	02/14/20 17:08	02/18/20 16:19	1
Benzene	<0.00044		0.0017	0.00044	mg/Kg	☼	02/14/20 17:08	02/18/20 16:19	1
Bromodichloromethane	<0.00035		0.0017	0.00035	mg/Kg	☼	02/14/20 17:08	02/18/20 16:19	1
Bromoform	<0.00051		0.0017	0.00051	mg/Kg	☼	02/14/20 17:08	02/18/20 16:19	1
Bromomethane	<0.0016		0.0043	0.0016	mg/Kg	☼	02/14/20 17:08	02/18/20 16:19	1
2-Butanone (MEK)	<0.0019		0.0043	0.0019	mg/Kg	☼	02/14/20 17:08	02/18/20 16:19	1
Carbon disulfide	<0.00090		0.0043	0.00090	mg/Kg	☼	02/14/20 17:08	02/18/20 16:19	1
Carbon tetrachloride	<0.00050		0.0017	0.00050	mg/Kg	☼	02/14/20 17:08	02/18/20 16:19	1
Chlorobenzene	<0.00064		0.0017	0.00064	mg/Kg	☼	02/14/20 17:08	02/18/20 16:19	1
Chloroethane	<0.0013	*	0.0043	0.0013	mg/Kg	☼	02/14/20 17:08	02/18/20 16:19	1
Chloroform	<0.00060		0.0017	0.00060	mg/Kg	☼	02/14/20 17:08	02/18/20 16:19	1
Chloromethane	<0.0017	*	0.0043	0.0017	mg/Kg	☼	02/14/20 17:08	02/18/20 16:19	1
cis-1,2-Dichloroethene	<0.00048		0.0017	0.00048	mg/Kg	☼	02/14/20 17:08	02/18/20 16:19	1
cis-1,3-Dichloropropene	<0.00052		0.0017	0.00052	mg/Kg	☼	02/14/20 17:08	02/18/20 16:19	1
Dibromochloromethane	<0.00057		0.0017	0.00057	mg/Kg	☼	02/14/20 17:08	02/18/20 16:19	1
1,1-Dichloroethane	<0.00059		0.0017	0.00059	mg/Kg	☼	02/14/20 17:08	02/18/20 16:19	1
1,2-Dichloroethane	<0.0014		0.0043	0.0014	mg/Kg	☼	02/14/20 17:08	02/18/20 16:19	1
1,1-Dichloroethene	<0.00060		0.0017	0.00060	mg/Kg	☼	02/14/20 17:08	02/18/20 16:19	1
1,2-Dichloropropane	<0.00045		0.0017	0.00045	mg/Kg	☼	02/14/20 17:08	02/18/20 16:19	1
1,3-Dichloropropane, Total	<0.00061		0.0017	0.00061	mg/Kg	☼	02/14/20 17:08	02/18/20 16:19	1
Ethylbenzene	<0.00083		0.0017	0.00083	mg/Kg	☼	02/14/20 17:08	02/18/20 16:19	1
2-Hexanone	<0.0014		0.0043	0.0014	mg/Kg	☼	02/14/20 17:08	02/18/20 16:19	1
Methylene Chloride	<0.0017		0.0043	0.0017	mg/Kg	☼	02/14/20 17:08	02/18/20 16:19	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0043	0.0013	mg/Kg	☼	02/14/20 17:08	02/18/20 16:19	1
Methyl tert-butyl ether	<0.00051		0.0017	0.00051	mg/Kg	☼	02/14/20 17:08	02/18/20 16:19	1
Styrene	<0.00052		0.0017	0.00052	mg/Kg	☼	02/14/20 17:08	02/18/20 16:19	1
1,1,2,2-Tetrachloroethane	<0.00055		0.0017	0.00055	mg/Kg	☼	02/14/20 17:08	02/18/20 16:19	1
Tetrachloroethene	<0.00059		0.0017	0.00059	mg/Kg	☼	02/14/20 17:08	02/18/20 16:19	1
Toluene	<0.00044		0.0017	0.00044	mg/Kg	☼	02/14/20 17:08	02/18/20 16:19	1
trans-1,2-Dichloroethene	<0.00077		0.0017	0.00077	mg/Kg	☼	02/14/20 17:08	02/18/20 16:19	1
trans-1,3-Dichloropropene	<0.00061		0.0017	0.00061	mg/Kg	☼	02/14/20 17:08	02/18/20 16:19	1
1,1,1-Trichloroethane	<0.00058		0.0017	0.00058	mg/Kg	☼	02/14/20 17:08	02/18/20 16:19	1
1,1,2-Trichloroethane	<0.00074		0.0017	0.00074	mg/Kg	☼	02/14/20 17:08	02/18/20 16:19	1
Trichloroethene	<0.00059		0.0017	0.00059	mg/Kg	☼	02/14/20 17:08	02/18/20 16:19	1
Vinyl acetate	<0.0015		0.0043	0.0015	mg/Kg	☼	02/14/20 17:08	02/18/20 16:19	1
Vinyl chloride	<0.00077		0.0017	0.00077	mg/Kg	☼	02/14/20 17:08	02/18/20 16:19	1
Xylenes, Total	<0.00055		0.0035	0.00055	mg/Kg	☼	02/14/20 17:08	02/18/20 16:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		75 - 131	02/14/20 17:08	02/18/20 16:19	1
Dibromofluoromethane	94		75 - 126	02/14/20 17:08	02/18/20 16:19	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	02/14/20 17:08	02/18/20 16:19	1
Toluene-d8 (Surr)	94		75 - 124	02/14/20 17:08	02/18/20 16:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0073		0.041	0.0073	mg/Kg	☼	02/19/20 08:46	02/20/20 00:24	1
Acenaphthylene	<0.0054		0.041	0.0054	mg/Kg	☼	02/19/20 08:46	02/20/20 00:24	1
Anthracene	<0.0068		0.041	0.0068	mg/Kg	☼	02/19/20 08:46	02/20/20 00:24	1
Benzo[a]anthracene	<0.0055		0.041	0.0055	mg/Kg	☼	02/19/20 08:46	02/20/20 00:24	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

Client Sample ID: 3229V-6-B03 (5-8)

Lab Sample ID: 500-177900-7

Date Collected: 02/13/20 10:55

Matrix: Solid

Date Received: 02/14/20 14:00

Percent Solids: 79.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.0079		0.041	0.0079	mg/Kg	☼	02/19/20 08:46	02/20/20 00:24	1
Benzo[b]fluoranthene	<0.0088		0.041	0.0088	mg/Kg	☼	02/19/20 08:46	02/20/20 00:24	1
Benzo[g,h,i]perylene	<0.013		0.041	0.013	mg/Kg	☼	02/19/20 08:46	02/20/20 00:24	1
Benzo[k]fluoranthene	<0.012		0.041	0.012	mg/Kg	☼	02/19/20 08:46	02/20/20 00:24	1
Bis(2-chloroethoxy)methane	<0.042		0.21	0.042	mg/Kg	☼	02/19/20 08:46	02/20/20 00:24	1
Bis(2-chloroethyl)ether	<0.061		0.21	0.061	mg/Kg	☼	02/19/20 08:46	02/20/20 00:24	1
Bis(2-ethylhexyl) phthalate	<0.075		0.21	0.075	mg/Kg	☼	02/19/20 08:46	02/20/20 00:24	1
4-Bromophenyl phenyl ether	<0.054		0.21	0.054	mg/Kg	☼	02/19/20 08:46	02/20/20 00:24	1
Butyl benzyl phthalate	<0.078		0.21	0.078	mg/Kg	☼	02/19/20 08:46	02/20/20 00:24	1
Carbazole	<0.10		0.21	0.10	mg/Kg	☼	02/19/20 08:46	02/20/20 00:24	1
4-Chloroaniline	<0.19		0.82	0.19	mg/Kg	☼	02/19/20 08:46	02/20/20 00:24	1
4-Chloro-3-methylphenol	<0.14		0.41	0.14	mg/Kg	☼	02/19/20 08:46	02/20/20 00:24	1
2-Chloronaphthalene	<0.045		0.21	0.045	mg/Kg	☼	02/19/20 08:46	02/20/20 00:24	1
2-Chlorophenol	<0.070		0.21	0.070	mg/Kg	☼	02/19/20 08:46	02/20/20 00:24	1
4-Chlorophenyl phenyl ether	<0.048		0.21	0.048	mg/Kg	☼	02/19/20 08:46	02/20/20 00:24	1
Chrysene	<0.011		0.041	0.011	mg/Kg	☼	02/19/20 08:46	02/20/20 00:24	1
Dibenz(a,h)anthracene	<0.0079		0.041	0.0079	mg/Kg	☼	02/19/20 08:46	02/20/20 00:24	1
Dibenzofuran	<0.048		0.21	0.048	mg/Kg	☼	02/19/20 08:46	02/20/20 00:24	1
1,2-Dichlorobenzene	<0.049		0.21	0.049	mg/Kg	☼	02/19/20 08:46	02/20/20 00:24	1
1,3-Dichlorobenzene	<0.046		0.21	0.046	mg/Kg	☼	02/19/20 08:46	02/20/20 00:24	1
1,4-Dichlorobenzene	<0.052		0.21	0.052	mg/Kg	☼	02/19/20 08:46	02/20/20 00:24	1
3,3'-Dichlorobenzidine	<0.057		0.21	0.057	mg/Kg	☼	02/19/20 08:46	02/20/20 00:24	1
2,4-Dichlorophenol	<0.097		0.41	0.097	mg/Kg	☼	02/19/20 08:46	02/20/20 00:24	1
Diethyl phthalate	<0.069		0.21	0.069	mg/Kg	☼	02/19/20 08:46	02/20/20 00:24	1
2,4-Dimethylphenol	<0.15		0.41	0.15	mg/Kg	☼	02/19/20 08:46	02/20/20 00:24	1
Dimethyl phthalate	<0.053		0.21	0.053	mg/Kg	☼	02/19/20 08:46	02/20/20 00:24	1
Di-n-butyl phthalate	<0.062		0.21	0.062	mg/Kg	☼	02/19/20 08:46	02/20/20 00:24	1
4,6-Dinitro-2-methylphenol	<0.33		0.82	0.33	mg/Kg	☼	02/19/20 08:46	02/20/20 00:24	1
2,4-Dinitrophenol	<0.72 *		0.82	0.72	mg/Kg	☼	02/19/20 08:46	02/20/20 00:24	1
2,4-Dinitrotoluene	<0.065		0.21	0.065	mg/Kg	☼	02/19/20 08:46	02/20/20 00:24	1
2,6-Dinitrotoluene	<0.080		0.21	0.080	mg/Kg	☼	02/19/20 08:46	02/20/20 00:24	1
Di-n-octyl phthalate	<0.067		0.21	0.067	mg/Kg	☼	02/19/20 08:46	02/20/20 00:24	1
Fluoranthene	<0.0076		0.041	0.0076	mg/Kg	☼	02/19/20 08:46	02/20/20 00:24	1
Fluorene	<0.0057		0.041	0.0057	mg/Kg	☼	02/19/20 08:46	02/20/20 00:24	1
Hexachlorobenzene	<0.0095		0.082	0.0095	mg/Kg	☼	02/19/20 08:46	02/20/20 00:24	1
Hexachlorobutadiene	<0.064		0.21	0.064	mg/Kg	☼	02/19/20 08:46	02/20/20 00:24	1
Hexachlorocyclopentadiene	<0.23		0.82	0.23	mg/Kg	☼	02/19/20 08:46	02/20/20 00:24	1
Hexachloroethane	<0.062		0.21	0.062	mg/Kg	☼	02/19/20 08:46	02/20/20 00:24	1
Indeno[1,2,3-cd]pyrene	<0.011		0.041	0.011	mg/Kg	☼	02/19/20 08:46	02/20/20 00:24	1
Isophorone	<0.046		0.21	0.046	mg/Kg	☼	02/19/20 08:46	02/20/20 00:24	1
2-Methylnaphthalene	<0.0075		0.082	0.0075	mg/Kg	☼	02/19/20 08:46	02/20/20 00:24	1
2-Methylphenol	<0.066		0.21	0.066	mg/Kg	☼	02/19/20 08:46	02/20/20 00:24	1
3 & 4 Methylphenol	<0.068		0.21	0.068	mg/Kg	☼	02/19/20 08:46	02/20/20 00:24	1
Naphthalene	<0.0063		0.041	0.0063	mg/Kg	☼	02/19/20 08:46	02/20/20 00:24	1
2-Nitroaniline	<0.055		0.21	0.055	mg/Kg	☼	02/19/20 08:46	02/20/20 00:24	1
3-Nitroaniline	<0.13		0.41	0.13	mg/Kg	☼	02/19/20 08:46	02/20/20 00:24	1
4-Nitroaniline	<0.17		0.41	0.17	mg/Kg	☼	02/19/20 08:46	02/20/20 00:24	1
Nitrobenzene	<0.010		0.041	0.010	mg/Kg	☼	02/19/20 08:46	02/20/20 00:24	1
2-Nitrophenol	<0.097		0.41	0.097	mg/Kg	☼	02/19/20 08:46	02/20/20 00:24	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

Client Sample ID: 3229V-6-B03 (5-8)

Lab Sample ID: 500-177900-7

Date Collected: 02/13/20 10:55

Matrix: Solid

Date Received: 02/14/20 14:00

Percent Solids: 79.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.39		0.82	0.39	mg/Kg	☼	02/19/20 08:46	02/20/20 00:24	1
N-Nitrosodi-n-propylamine	<0.050		0.082	0.050	mg/Kg	☼	02/19/20 08:46	02/20/20 00:24	1
N-Nitrosodiphenylamine	<0.048		0.21	0.048	mg/Kg	☼	02/19/20 08:46	02/20/20 00:24	1
2,2'-oxybis[1-chloropropane]	<0.047		0.21	0.047	mg/Kg	☼	02/19/20 08:46	02/20/20 00:24	1
Pentachlorophenol	<0.66		0.82	0.66	mg/Kg	☼	02/19/20 08:46	02/20/20 00:24	1
Phenanthrene	<0.0057		0.041	0.0057	mg/Kg	☼	02/19/20 08:46	02/20/20 00:24	1
Phenol	<0.091		0.21	0.091	mg/Kg	☼	02/19/20 08:46	02/20/20 00:24	1
Pyrene	<0.0081		0.041	0.0081	mg/Kg	☼	02/19/20 08:46	02/20/20 00:24	1
1,2,4-Trichlorobenzene	<0.044		0.21	0.044	mg/Kg	☼	02/19/20 08:46	02/20/20 00:24	1
2,4,5-Trichlorophenol	<0.093		0.41	0.093	mg/Kg	☼	02/19/20 08:46	02/20/20 00:24	1
2,4,6-Trichlorophenol	<0.14		0.41	0.14	mg/Kg	☼	02/19/20 08:46	02/20/20 00:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	81		43 - 145	02/19/20 08:46	02/20/20 00:24	1
2-Fluorophenol	96		31 - 166	02/19/20 08:46	02/20/20 00:24	1
Nitrobenzene-d5	85		37 - 147	02/19/20 08:46	02/20/20 00:24	1
Phenol-d5	78		30 - 153	02/19/20 08:46	02/20/20 00:24	1
Terphenyl-d14	142		42 - 157	02/19/20 08:46	02/20/20 00:24	1
2,4,6-Tribromophenol	124		31 - 143	02/19/20 08:46	02/20/20 00:24	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.23		1.2	0.23	mg/Kg	☼	02/19/20 06:57	02/19/20 18:37	1
Arsenic	3.5		0.58	0.20	mg/Kg	☼	02/19/20 06:57	02/19/20 18:37	1
Barium	61		0.58	0.066	mg/Kg	☼	02/19/20 06:57	02/19/20 18:37	1
Beryllium	0.56		0.23	0.054	mg/Kg	☼	02/19/20 06:57	02/19/20 18:37	1
Cadmium	0.15	B	0.12	0.021	mg/Kg	☼	02/19/20 06:57	02/19/20 18:37	1
Chromium	16		0.58	0.29	mg/Kg	☼	02/19/20 06:57	02/19/20 18:37	1
Cobalt	6.9		0.29	0.076	mg/Kg	☼	02/19/20 06:57	02/19/20 18:37	1
Copper	10		0.58	0.16	mg/Kg	☼	02/19/20 06:57	02/19/20 18:37	1
Iron	12000	B	12	6.0	mg/Kg	☼	02/19/20 06:57	02/19/20 18:37	1
Lead	7.9		0.29	0.13	mg/Kg	☼	02/19/20 06:57	02/19/20 18:37	1
Magnesium	16000		5.8	2.9	mg/Kg	☼	02/19/20 06:57	02/19/20 18:37	1
Calcium	23000		12	2.0	mg/Kg	☼	02/19/20 06:57	02/19/20 18:37	1
Manganese	260		0.58	0.084	mg/Kg	☼	02/19/20 06:57	02/19/20 18:37	1
Nickel	18		0.58	0.17	mg/Kg	☼	02/19/20 06:57	02/19/20 18:37	1
Selenium	<0.34		0.58	0.34	mg/Kg	☼	02/19/20 06:57	02/19/20 18:37	1
Silver	0.14	J	0.29	0.075	mg/Kg	☼	02/19/20 06:57	02/19/20 18:37	1
Thallium	<0.29		0.58	0.29	mg/Kg	☼	02/19/20 06:57	02/19/20 18:37	1
Vanadium	23		0.29	0.069	mg/Kg	☼	02/19/20 06:57	02/19/20 18:37	1
Zinc	50	B	1.2	0.51	mg/Kg	☼	02/19/20 06:57	02/19/20 18:37	1
Potassium	2000		29	10	mg/Kg	☼	02/19/20 06:57	02/19/20 18:37	1
Sodium	1200		58	8.6	mg/Kg	☼	02/19/20 06:57	02/19/20 18:37	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		02/24/20 06:22	02/24/20 18:30	1
Barium	0.31	J	0.50	0.050	mg/L		02/24/20 06:22	02/24/20 18:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/24/20 06:22	02/24/20 18:30	1
Cadmium	0.0026	J	0.0050	0.0020	mg/L		02/24/20 06:22	02/24/20 18:30	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

Client Sample ID: 3229V-6-B03 (5-8)

Lab Sample ID: 500-177900-7

Date Collected: 02/13/20 10:55

Matrix: Solid

Date Received: 02/14/20 14:00

Percent Solids: 79.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	280		5.0	0.50	mg/L		02/24/20 06:22	02/24/20 18:30	1
Chromium	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:30	1
Cobalt	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:30	1
Copper	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:30	1
Iron	<0.20		0.40	0.20	mg/L		02/24/20 06:22	02/24/20 18:30	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/24/20 06:22	02/24/20 18:30	1
Magnesium	150		2.5	0.50	mg/L		02/24/20 06:22	02/24/20 18:30	1
Manganese	1.1		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:30	1
Nickel	0.010	J	0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:30	1
Potassium	0.85	J	2.5	0.50	mg/L		02/24/20 06:22	02/24/20 18:30	1
Selenium	<0.020		0.050	0.020	mg/L		02/24/20 06:22	02/24/20 18:30	1
Silver	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:30	1
Vanadium	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:30	1
Zinc	<0.020	*	0.50	0.020	mg/L		02/24/20 06:22	02/24/20 18:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.96		0.025	0.010	mg/L		02/24/20 06:19	02/24/20 19:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/24/20 06:22	02/24/20 19:49	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/24/20 06:22	02/24/20 19:49	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/24/20 10:20	02/25/20 09:21	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018	J	0.019	0.0063	mg/Kg	☼	02/24/20 15:45	02/25/20 07:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.29		0.57	0.29	mg/Kg	☼	02/24/20 09:45	02/24/20 13:54	1
pH	8.4		0.2	0.2	SU			02/22/20 19:09	1

Definitions/Glossary

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

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

Glossary

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

QC Association Summary

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

GC/MS VOA

Prep Batch: 529871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177900-1	3229V-6-B01 (0-5)	Total/NA	Solid	5035	
500-177900-2	3229V-6-B01 (0-5) Dup	Total/NA	Solid	5035	
500-177900-3	3229V-6-B01 (5-8)	Total/NA	Solid	5035	
500-177900-4	3229V-6-B02 (0-5)	Total/NA	Solid	5035	
500-177900-5	3229V-6-B02 (5-8)	Total/NA	Solid	5035	
500-177900-6	3229V-6-B03 (0-5)	Total/NA	Solid	5035	
500-177900-7	3229V-6-B03 (5-8)	Total/NA	Solid	5035	

Analysis Batch: 530118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177900-1	3229V-6-B01 (0-5)	Total/NA	Solid	8260B	529871
500-177900-2	3229V-6-B01 (0-5) Dup	Total/NA	Solid	8260B	529871
500-177900-3	3229V-6-B01 (5-8)	Total/NA	Solid	8260B	529871
500-177900-4	3229V-6-B02 (0-5)	Total/NA	Solid	8260B	529871
500-177900-6	3229V-6-B03 (0-5)	Total/NA	Solid	8260B	529871
500-177900-7	3229V-6-B03 (5-8)	Total/NA	Solid	8260B	529871
MB 500-530118/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-530118/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-530118/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 530336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177900-5	3229V-6-B02 (5-8)	Total/NA	Solid	8260B	529871
MB 500-530336/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-530336/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-530336/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 530357

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177900-1	3229V-6-B01 (0-5)	Total/NA	Solid	3541	
500-177900-2	3229V-6-B01 (0-5) Dup	Total/NA	Solid	3541	
500-177900-3	3229V-6-B01 (5-8)	Total/NA	Solid	3541	
500-177900-4	3229V-6-B02 (0-5)	Total/NA	Solid	3541	
500-177900-5	3229V-6-B02 (5-8)	Total/NA	Solid	3541	
500-177900-6	3229V-6-B03 (0-5)	Total/NA	Solid	3541	
500-177900-7	3229V-6-B03 (5-8)	Total/NA	Solid	3541	
MB 500-530357/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-530357/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-177900-1 MS	3229V-6-B01 (0-5)	Total/NA	Solid	3541	
500-177900-1 MSD	3229V-6-B01 (0-5)	Total/NA	Solid	3541	

Analysis Batch: 530474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177900-1	3229V-6-B01 (0-5)	Total/NA	Solid	8270D	530357
500-177900-2	3229V-6-B01 (0-5) Dup	Total/NA	Solid	8270D	530357
500-177900-3	3229V-6-B01 (5-8)	Total/NA	Solid	8270D	530357
500-177900-4	3229V-6-B02 (0-5)	Total/NA	Solid	8270D	530357
500-177900-5	3229V-6-B02 (5-8)	Total/NA	Solid	8270D	530357
500-177900-6	3229V-6-B03 (0-5)	Total/NA	Solid	8270D	530357

QC Association Summary

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

GC/MS Semi VOA (Continued)

Analysis Batch: 530474 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177900-7	3229V-6-B03 (5-8)	Total/NA	Solid	8270D	530357
MB 500-530357/1-A	Method Blank	Total/NA	Solid	8270D	530357
LCS 500-530357/2-A	Lab Control Sample	Total/NA	Solid	8270D	530357
500-177900-1 MS	3229V-6-B01 (0-5)	Total/NA	Solid	8270D	530357
500-177900-1 MSD	3229V-6-B01 (0-5)	Total/NA	Solid	8270D	530357

Metals

Prep Batch: 530303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177900-1	3229V-6-B01 (0-5)	Total/NA	Solid	3050B	
500-177900-2	3229V-6-B01 (0-5) Dup	Total/NA	Solid	3050B	
500-177900-3	3229V-6-B01 (5-8)	Total/NA	Solid	3050B	
500-177900-4	3229V-6-B02 (0-5)	Total/NA	Solid	3050B	
500-177900-5	3229V-6-B02 (5-8)	Total/NA	Solid	3050B	
500-177900-6	3229V-6-B03 (0-5)	Total/NA	Solid	3050B	
500-177900-7	3229V-6-B03 (5-8)	Total/NA	Solid	3050B	
MB 500-530303/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-530303/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-177900-1 MS	3229V-6-B01 (0-5)	Total/NA	Solid	3050B	
500-177900-1 MSD	3229V-6-B01 (0-5)	Total/NA	Solid	3050B	
500-177900-1 DU	3229V-6-B01 (0-5)	Total/NA	Solid	3050B	

Analysis Batch: 530529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177900-1	3229V-6-B01 (0-5)	Total/NA	Solid	6010B	530303
500-177900-2	3229V-6-B01 (0-5) Dup	Total/NA	Solid	6010B	530303
500-177900-3	3229V-6-B01 (5-8)	Total/NA	Solid	6010B	530303
500-177900-4	3229V-6-B02 (0-5)	Total/NA	Solid	6010B	530303
500-177900-5	3229V-6-B02 (5-8)	Total/NA	Solid	6010B	530303
500-177900-6	3229V-6-B03 (0-5)	Total/NA	Solid	6010B	530303
500-177900-7	3229V-6-B03 (5-8)	Total/NA	Solid	6010B	530303
MB 500-530303/1-A	Method Blank	Total/NA	Solid	6010B	530303
LCS 500-530303/2-A	Lab Control Sample	Total/NA	Solid	6010B	530303
500-177900-1 MS	3229V-6-B01 (0-5)	Total/NA	Solid	6010B	530303
500-177900-1 MSD	3229V-6-B01 (0-5)	Total/NA	Solid	6010B	530303
500-177900-1 DU	3229V-6-B01 (0-5)	Total/NA	Solid	6010B	530303

Analysis Batch: 530786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177900-4	3229V-6-B02 (0-5)	Total/NA	Solid	6010B	530303
500-177900-6	3229V-6-B03 (0-5)	Total/NA	Solid	6010B	530303

Leach Batch: 530902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177900-1	3229V-6-B01 (0-5)	SPLP East	Solid	1312	
500-177900-2	3229V-6-B01 (0-5) Dup	SPLP East	Solid	1312	
500-177900-3	3229V-6-B01 (5-8)	SPLP East	Solid	1312	
500-177900-4	3229V-6-B02 (0-5)	SPLP East	Solid	1312	
500-177900-5	3229V-6-B02 (5-8)	SPLP East	Solid	1312	
500-177900-6	3229V-6-B03 (0-5)	SPLP East	Solid	1312	

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QC Association Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

Metals (Continued)

Leach Batch: 530902 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177900-7	3229V-6-B03 (5-8)	SPLP East	Solid	1312	
LB 500-530902/1-B	Method Blank	SPLP East	Solid	1312	

Leach Batch: 530903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177900-1	3229V-6-B01 (0-5)	TCLP	Solid	1311	
500-177900-2	3229V-6-B01 (0-5) Dup	TCLP	Solid	1311	
500-177900-3	3229V-6-B01 (5-8)	TCLP	Solid	1311	
500-177900-4	3229V-6-B02 (0-5)	TCLP	Solid	1311	
500-177900-5	3229V-6-B02 (5-8)	TCLP	Solid	1311	
500-177900-6	3229V-6-B03 (0-5)	TCLP	Solid	1311	
500-177900-7	3229V-6-B03 (5-8)	TCLP	Solid	1311	
LB 500-530903/1-B	Method Blank	TCLP	Solid	1311	
LB 500-530903/2-B	Method Blank	TCLP	Solid	1311	
500-177900-7 MS	3229V-6-B03 (5-8)	TCLP	Solid	1311	
500-177900-7 DU	3229V-6-B03 (5-8)	TCLP	Solid	1311	

Prep Batch: 531035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177900-1	3229V-6-B01 (0-5)	SPLP East	Solid	3010A	530902
500-177900-2	3229V-6-B01 (0-5) Dup	SPLP East	Solid	3010A	530902
500-177900-3	3229V-6-B01 (5-8)	SPLP East	Solid	3010A	530902
500-177900-4	3229V-6-B02 (0-5)	SPLP East	Solid	3010A	530902
500-177900-5	3229V-6-B02 (5-8)	SPLP East	Solid	3010A	530902
500-177900-6	3229V-6-B03 (0-5)	SPLP East	Solid	3010A	530902
500-177900-7	3229V-6-B03 (5-8)	SPLP East	Solid	3010A	530902
LB 500-530902/1-B	Method Blank	SPLP East	Solid	3010A	530902
LCS 500-531035/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 531036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177900-1	3229V-6-B01 (0-5)	TCLP	Solid	3010A	530903
500-177900-2	3229V-6-B01 (0-5) Dup	TCLP	Solid	3010A	530903
500-177900-3	3229V-6-B01 (5-8)	TCLP	Solid	3010A	530903
500-177900-4	3229V-6-B02 (0-5)	TCLP	Solid	3010A	530903
500-177900-5	3229V-6-B02 (5-8)	TCLP	Solid	3010A	530903
500-177900-6	3229V-6-B03 (0-5)	TCLP	Solid	3010A	530903
500-177900-7	3229V-6-B03 (5-8)	TCLP	Solid	3010A	530903
LB 500-530903/1-B	Method Blank	TCLP	Solid	3010A	530903
LCS 500-531036/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 531122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177900-1	3229V-6-B01 (0-5)	TCLP	Solid	7470A	530903
500-177900-2	3229V-6-B01 (0-5) Dup	TCLP	Solid	7470A	530903
500-177900-3	3229V-6-B01 (5-8)	TCLP	Solid	7470A	530903
500-177900-4	3229V-6-B02 (0-5)	TCLP	Solid	7470A	530903
500-177900-5	3229V-6-B02 (5-8)	TCLP	Solid	7470A	530903
500-177900-6	3229V-6-B03 (0-5)	TCLP	Solid	7470A	530903
500-177900-7	3229V-6-B03 (5-8)	TCLP	Solid	7470A	530903
LB 500-530903/2-B	Method Blank	TCLP	Solid	7470A	530903

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QC Association Summary

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

Metals (Continued)

Prep Batch: 531122 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-531122/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-531122/14-A	Lab Control Sample	Total/NA	Solid	7470A	
500-177900-7 MS	3229V-6-B03 (5-8)	TCLP	Solid	7470A	530903
500-177900-7 DU	3229V-6-B03 (5-8)	TCLP	Solid	7470A	530903

Prep Batch: 531148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177900-1	3229V-6-B01 (0-5)	Total/NA	Solid	7471B	
500-177900-2	3229V-6-B01 (0-5) Dup	Total/NA	Solid	7471B	
500-177900-3	3229V-6-B01 (5-8)	Total/NA	Solid	7471B	
500-177900-4	3229V-6-B02 (0-5)	Total/NA	Solid	7471B	
500-177900-5	3229V-6-B02 (5-8)	Total/NA	Solid	7471B	
500-177900-6	3229V-6-B03 (0-5)	Total/NA	Solid	7471B	
500-177900-7	3229V-6-B03 (5-8)	Total/NA	Solid	7471B	
MB 500-531148/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-531148/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 531227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177900-1	3229V-6-B01 (0-5)	TCLP	Solid	6010B	531036
500-177900-2	3229V-6-B01 (0-5) Dup	TCLP	Solid	6010B	531036
500-177900-3	3229V-6-B01 (5-8)	TCLP	Solid	6010B	531036
500-177900-4	3229V-6-B02 (0-5)	TCLP	Solid	6010B	531036
500-177900-5	3229V-6-B02 (5-8)	TCLP	Solid	6010B	531036
500-177900-6	3229V-6-B03 (0-5)	TCLP	Solid	6010B	531036
500-177900-7	3229V-6-B03 (5-8)	TCLP	Solid	6010B	531036
LB 500-530903/1-B	Method Blank	TCLP	Solid	6010B	531036
LCS 500-531036/2-A	Lab Control Sample	Total/NA	Solid	6010B	531036

Analysis Batch: 531230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177900-1	3229V-6-B01 (0-5)	SPLP East	Solid	6010B	531035
500-177900-2	3229V-6-B01 (0-5) Dup	SPLP East	Solid	6010B	531035
500-177900-3	3229V-6-B01 (5-8)	SPLP East	Solid	6010B	531035
500-177900-4	3229V-6-B02 (0-5)	SPLP East	Solid	6010B	531035
500-177900-5	3229V-6-B02 (5-8)	SPLP East	Solid	6010B	531035
500-177900-6	3229V-6-B03 (0-5)	SPLP East	Solid	6010B	531035
500-177900-7	3229V-6-B03 (5-8)	SPLP East	Solid	6010B	531035
LB 500-530902/1-B	Method Blank	SPLP East	Solid	6010B	531035
LCS 500-531035/2-A	Lab Control Sample	Total/NA	Solid	6010B	531035

Analysis Batch: 531307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177900-1	3229V-6-B01 (0-5)	TCLP	Solid	6020A	531036
500-177900-2	3229V-6-B01 (0-5) Dup	TCLP	Solid	6020A	531036
500-177900-3	3229V-6-B01 (5-8)	TCLP	Solid	6020A	531036
500-177900-4	3229V-6-B02 (0-5)	TCLP	Solid	6020A	531036
500-177900-5	3229V-6-B02 (5-8)	TCLP	Solid	6020A	531036
500-177900-6	3229V-6-B03 (0-5)	TCLP	Solid	6020A	531036
500-177900-7	3229V-6-B03 (5-8)	TCLP	Solid	6020A	531036
LB 500-530903/1-B	Method Blank	TCLP	Solid	6020A	531036

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QC Association Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

Metals (Continued)

Analysis Batch: 531307 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-531036/2-A	Lab Control Sample	Total/NA	Solid	6020A	531036

Analysis Batch: 531315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177900-1	3229V-6-B01 (0-5)	TCLP	Solid	7470A	531122
500-177900-2	3229V-6-B01 (0-5) Dup	TCLP	Solid	7470A	531122
500-177900-3	3229V-6-B01 (5-8)	TCLP	Solid	7470A	531122
500-177900-4	3229V-6-B02 (0-5)	TCLP	Solid	7470A	531122
500-177900-5	3229V-6-B02 (5-8)	TCLP	Solid	7470A	531122
500-177900-6	3229V-6-B03 (0-5)	TCLP	Solid	7470A	531122
500-177900-7	3229V-6-B03 (5-8)	TCLP	Solid	7470A	531122
LB 500-530903/2-B	Method Blank	TCLP	Solid	7470A	531122
MB 500-531122/12-A	Method Blank	Total/NA	Solid	7470A	531122
LCS 500-531122/14-A	Lab Control Sample	Total/NA	Solid	7470A	531122
500-177900-7 MS	3229V-6-B03 (5-8)	TCLP	Solid	7470A	531122
500-177900-7 DU	3229V-6-B03 (5-8)	TCLP	Solid	7470A	531122

Analysis Batch: 531351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177900-1	3229V-6-B01 (0-5)	Total/NA	Solid	7471B	531148
500-177900-2	3229V-6-B01 (0-5) Dup	Total/NA	Solid	7471B	531148
500-177900-3	3229V-6-B01 (5-8)	Total/NA	Solid	7471B	531148
500-177900-4	3229V-6-B02 (0-5)	Total/NA	Solid	7471B	531148
500-177900-5	3229V-6-B02 (5-8)	Total/NA	Solid	7471B	531148
500-177900-6	3229V-6-B03 (0-5)	Total/NA	Solid	7471B	531148
500-177900-7	3229V-6-B03 (5-8)	Total/NA	Solid	7471B	531148
MB 500-531148/12-A	Method Blank	Total/NA	Solid	7471B	531148
LCS 500-531148/13-A	Lab Control Sample	Total/NA	Solid	7471B	531148

General Chemistry

Analysis Batch: 530346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177900-1	3229V-6-B01 (0-5)	Total/NA	Solid	Moisture	
500-177900-2	3229V-6-B01 (0-5) Dup	Total/NA	Solid	Moisture	
500-177900-3	3229V-6-B01 (5-8)	Total/NA	Solid	Moisture	
500-177900-4	3229V-6-B02 (0-5)	Total/NA	Solid	Moisture	
500-177900-5	3229V-6-B02 (5-8)	Total/NA	Solid	Moisture	
500-177900-6	3229V-6-B03 (0-5)	Total/NA	Solid	Moisture	
500-177900-7	3229V-6-B03 (5-8)	Total/NA	Solid	Moisture	
500-177900-1 DU	3229V-6-B01 (0-5)	Total/NA	Solid	Moisture	

Analysis Batch: 531081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177900-1	3229V-6-B01 (0-5)	Total/NA	Solid	9045D	
500-177900-2	3229V-6-B01 (0-5) Dup	Total/NA	Solid	9045D	
500-177900-3	3229V-6-B01 (5-8)	Total/NA	Solid	9045D	
500-177900-4	3229V-6-B02 (0-5)	Total/NA	Solid	9045D	
500-177900-5	3229V-6-B02 (5-8)	Total/NA	Solid	9045D	
500-177900-6	3229V-6-B03 (0-5)	Total/NA	Solid	9045D	
500-177900-7	3229V-6-B03 (5-8)	Total/NA	Solid	9045D	

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QC Association Summary

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

General Chemistry (Continued)

Analysis Batch: 531081 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-531081/6	Lab Control Sample	Total/NA	Solid	9045D	
LCS 500-531081/7	Lab Control Sample Dup	Total/NA	Solid	9045D	

Prep Batch: 531089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177900-1	3229V-6-B01 (0-5)	Total/NA	Solid	9010B	
500-177900-2	3229V-6-B01 (0-5) Dup	Total/NA	Solid	9010B	
500-177900-3	3229V-6-B01 (5-8)	Total/NA	Solid	9010B	
500-177900-4	3229V-6-B02 (0-5)	Total/NA	Solid	9010B	
500-177900-5	3229V-6-B02 (5-8)	Total/NA	Solid	9010B	
500-177900-6	3229V-6-B03 (0-5)	Total/NA	Solid	9010B	
500-177900-7	3229V-6-B03 (5-8)	Total/NA	Solid	9010B	
MB 500-531089/1-A	Method Blank	Total/NA	Solid	9010B	
LCS 500-531089/2-A	Lab Control Sample	Total/NA	Solid	9010B	

Analysis Batch: 531173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177900-1	3229V-6-B01 (0-5)	Total/NA	Solid	9014	531089
500-177900-2	3229V-6-B01 (0-5) Dup	Total/NA	Solid	9014	531089
500-177900-3	3229V-6-B01 (5-8)	Total/NA	Solid	9014	531089
500-177900-4	3229V-6-B02 (0-5)	Total/NA	Solid	9014	531089
500-177900-5	3229V-6-B02 (5-8)	Total/NA	Solid	9014	531089
500-177900-6	3229V-6-B03 (0-5)	Total/NA	Solid	9014	531089
500-177900-7	3229V-6-B03 (5-8)	Total/NA	Solid	9014	531089
MB 500-531089/1-A	Method Blank	Total/NA	Solid	9014	531089
LCS 500-531089/2-A	Lab Control Sample	Total/NA	Solid	9014	531089

Surrogate Summary

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(75-131)	(75-126)	(70-134)	(75-124)
500-177900-1	3229V-6-B01 (0-5)	105	93	97	94
500-177900-2	3229V-6-B01 (0-5) Dup	104	93	94	96
500-177900-3	3229V-6-B01 (5-8)	106	90	88	96
500-177900-4	3229V-6-B02 (0-5)	109	91	94	99
500-177900-5	3229V-6-B02 (5-8)	99	95	96	94
500-177900-6	3229V-6-B03 (0-5)	110	94	95	98
500-177900-7	3229V-6-B03 (5-8)	105	94	98	94
LCS 500-530118/4	Lab Control Sample	100	94	89	90
LCS 500-530336/4	Lab Control Sample	98	93	86	95
LCSD 500-530118/5	Lab Control Sample Dup	103	98	87	93
LCSD 500-530336/5	Lab Control Sample Dup	95	96	87	94
MB 500-530118/7	Method Blank	100	88	91	94
MB 500-530336/7	Method Blank	101	87	87	94

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane

DCA = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	FBP	2FP	NBZ	PHL	TPHL	TBP
		(43-145)	(31-166)	(37-147)	(30-153)	(42-157)	(31-143)
500-177900-1	3229V-6-B01 (0-5)	74	83	65	74	109	101
500-177900-1 MS	3229V-6-B01 (0-5)	102	98	99	99	110	127
500-177900-1 MSD	3229V-6-B01 (0-5)	100	114	93	104	122	114
500-177900-2	3229V-6-B01 (0-5) Dup	99	92	90	83	136	121
500-177900-3	3229V-6-B01 (5-8)	67	89	80	70	130	79
500-177900-4	3229V-6-B02 (0-5)	74	91	85	78	127	83
500-177900-5	3229V-6-B02 (5-8)	81	90	76	84	129	94
500-177900-6	3229V-6-B03 (0-5)	107	88	81	74	127	104
500-177900-7	3229V-6-B03 (5-8)	81	96	85	78	142	124
LCS 500-530357/2-A	Lab Control Sample	95	99	92	97	115	84
MB 500-530357/1-A	Method Blank	93	97	82	91	133	90

Surrogate Legend

FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol

NBZ = Nitrobenzene-d5

PHL = Phenol-d5

TPHL = Terphenyl-d14

TBP = 2,4,6-Tribromophenol

QC Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

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

Lab Sample ID: MB 500-530118/7
Matrix: Solid
Analysis Batch: 530118

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.0087		0.020	0.0087	mg/Kg			02/18/20 11:13	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg			02/18/20 11:13	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg			02/18/20 11:13	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg			02/18/20 11:13	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg			02/18/20 11:13	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			02/18/20 11:13	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg			02/18/20 11:13	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg			02/18/20 11:13	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg			02/18/20 11:13	1
Chloroethane	<0.0015		0.0050	0.0015	mg/Kg			02/18/20 11:13	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg			02/18/20 11:13	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg			02/18/20 11:13	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg			02/18/20 11:13	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg			02/18/20 11:13	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg			02/18/20 11:13	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg			02/18/20 11:13	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg			02/18/20 11:13	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg			02/18/20 11:13	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			02/18/20 11:13	1
1,3-Dichloropropene, Total	<0.00070		0.0020	0.00070	mg/Kg			02/18/20 11:13	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg			02/18/20 11:13	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg			02/18/20 11:13	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg			02/18/20 11:13	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg			02/18/20 11:13	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg			02/18/20 11:13	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg			02/18/20 11:13	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg			02/18/20 11:13	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg			02/18/20 11:13	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg			02/18/20 11:13	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg			02/18/20 11:13	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg			02/18/20 11:13	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg			02/18/20 11:13	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg			02/18/20 11:13	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg			02/18/20 11:13	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg			02/18/20 11:13	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg			02/18/20 11:13	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg			02/18/20 11:13	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	100		75 - 131		02/18/20 11:13	1
Dibromofluoromethane	88		75 - 126		02/18/20 11:13	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134		02/18/20 11:13	1
Toluene-d8 (Surr)	94		75 - 124		02/18/20 11:13	1

QC Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

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

Lab Sample ID: LCS 500-530118/4

Matrix: Solid

Analysis Batch: 530118

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	0.0519		mg/Kg		104	40 - 150
Benzene	0.0500	0.0456		mg/Kg		91	70 - 125
Bromodichloromethane	0.0500	0.0426		mg/Kg		85	67 - 129
Bromoform	0.0500	0.0414		mg/Kg		83	68 - 136
Bromomethane	0.0500	0.0574		mg/Kg		115	70 - 130
2-Butanone (MEK)	0.0500	0.0503		mg/Kg		101	47 - 138
Carbon disulfide	0.0500	0.0438		mg/Kg		88	70 - 129
Carbon tetrachloride	0.0500	0.0447		mg/Kg		89	75 - 125
Chlorobenzene	0.0500	0.0445		mg/Kg		89	50 - 150
Chloroethane	0.0500	0.0754	*	mg/Kg		151	75 - 125
Chloroform	0.0500	0.0454		mg/Kg		91	57 - 135
Chloromethane	0.0500	0.0665	*	mg/Kg		133	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0471		mg/Kg		94	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0390		mg/Kg		78	70 - 125
Dibromochloromethane	0.0500	0.0399		mg/Kg		80	69 - 125
1,1-Dichloroethane	0.0500	0.0476		mg/Kg		95	70 - 125
1,2-Dichloroethane	0.0500	0.0448		mg/Kg		90	70 - 130
1,1-Dichloroethene	0.0500	0.0472		mg/Kg		94	70 - 120
1,2-Dichloropropane	0.0500	0.0452		mg/Kg		90	70 - 125
Ethylbenzene	0.0500	0.0432		mg/Kg		86	61 - 136
2-Hexanone	0.0500	0.0505		mg/Kg		101	48 - 146
Methylene Chloride	0.0500	0.0482		mg/Kg		96	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0478		mg/Kg		96	50 - 148
Methyl tert-butyl ether	0.0500	0.0467		mg/Kg		93	50 - 140
Styrene	0.0500	0.0435		mg/Kg		87	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0462		mg/Kg		92	70 - 122
Tetrachloroethene	0.0500	0.0471		mg/Kg		94	70 - 124
Toluene	0.0500	0.0423		mg/Kg		85	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0490		mg/Kg		98	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0383		mg/Kg		77	70 - 125
1,1,1-Trichloroethane	0.0500	0.0459		mg/Kg		92	70 - 128
1,1,2-Trichloroethane	0.0500	0.0425		mg/Kg		85	70 - 125
Trichloroethene	0.0500	0.0464		mg/Kg		93	70 - 125
Vinyl acetate	0.0500	0.0509		mg/Kg		102	40 - 153
Vinyl chloride	0.0500	0.0568		mg/Kg		114	70 - 125
Xylenes, Total	0.100	0.0863		mg/Kg		86	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	100		75 - 131
Dibromofluoromethane	94		75 - 126
1,2-Dichloroethane-d4 (Surr)	89		70 - 134
Toluene-d8 (Surr)	90		75 - 124

QC Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

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

Lab Sample ID: LCSD 500-530118/5
Matrix: Solid
Analysis Batch: 530118

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	0.0481		mg/Kg		96	40 - 150	8	30
Benzene	0.0500	0.0448		mg/Kg		90	70 - 125	2	30
Bromodichloromethane	0.0500	0.0417		mg/Kg		83	67 - 129	2	30
Bromoform	0.0500	0.0405		mg/Kg		81	68 - 136	2	30
Bromomethane	0.0500	0.0512		mg/Kg		102	70 - 130	11	30
2-Butanone (MEK)	0.0500	0.0424		mg/Kg		85	47 - 138	17	30
Carbon disulfide	0.0500	0.0438		mg/Kg		88	70 - 129	0	30
Carbon tetrachloride	0.0500	0.0435		mg/Kg		87	75 - 125	3	30
Chlorobenzene	0.0500	0.0437		mg/Kg		87	50 - 150	2	30
Chloroethane	0.0500	0.0688	*	mg/Kg		138	75 - 125	9	30
Chloroform	0.0500	0.0452		mg/Kg		90	57 - 135	0	30
Chloromethane	0.0500	0.0643	*	mg/Kg		129	70 - 125	3	30
cis-1,2-Dichloroethene	0.0500	0.0476		mg/Kg		95	70 - 125	1	30
cis-1,3-Dichloropropene	0.0500	0.0383		mg/Kg		77	70 - 125	2	30
Dibromochloromethane	0.0500	0.0397		mg/Kg		79	69 - 125	0	30
1,1-Dichloroethane	0.0500	0.0470		mg/Kg		94	70 - 125	1	30
1,2-Dichloroethane	0.0500	0.0433		mg/Kg		87	70 - 130	3	30
1,1-Dichloroethene	0.0500	0.0471		mg/Kg		94	70 - 120	0	30
1,2-Dichloropropane	0.0500	0.0445		mg/Kg		89	70 - 125	2	30
Ethylbenzene	0.0500	0.0425		mg/Kg		85	61 - 136	2	30
2-Hexanone	0.0500	0.0421		mg/Kg		84	48 - 146	18	30
Methylene Chloride	0.0500	0.0483		mg/Kg		97	70 - 126	0	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0396		mg/Kg		79	50 - 148	19	30
Methyl tert-butyl ether	0.0500	0.0451		mg/Kg		90	50 - 140	4	30
Styrene	0.0500	0.0420		mg/Kg		84	70 - 125	4	30
1,1,2,2-Tetrachloroethane	0.0500	0.0439		mg/Kg		88	70 - 122	5	30
Tetrachloroethene	0.0500	0.0468		mg/Kg		94	70 - 124	1	30
Toluene	0.0500	0.0412		mg/Kg		82	70 - 125	3	30
trans-1,2-Dichloroethene	0.0500	0.0485		mg/Kg		97	70 - 125	1	30
trans-1,3-Dichloropropene	0.0500	0.0384		mg/Kg		77	70 - 125	0	30
1,1,1-Trichloroethane	0.0500	0.0453		mg/Kg		91	70 - 128	1	30
1,1,2-Trichloroethane	0.0500	0.0418		mg/Kg		84	70 - 125	2	30
Trichloroethene	0.0500	0.0461		mg/Kg		92	70 - 125	1	30
Vinyl acetate	0.0500	0.0447		mg/Kg		89	40 - 153	13	30
Vinyl chloride	0.0500	0.0534		mg/Kg		107	70 - 125	6	30
Xylenes, Total	0.100	0.0847		mg/Kg		85	53 - 147	2	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	103		75 - 131
Dibromofluoromethane	98		75 - 126
1,2-Dichloroethane-d4 (Surr)	87		70 - 134
Toluene-d8 (Surr)	93		75 - 124

QC Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

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

Lab Sample ID: MB 500-530336/7
Matrix: Solid
Analysis Batch: 530336

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.0087		0.020	0.0087	mg/Kg			02/19/20 11:10	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg			02/19/20 11:10	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg			02/19/20 11:10	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg			02/19/20 11:10	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg			02/19/20 11:10	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			02/19/20 11:10	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg			02/19/20 11:10	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg			02/19/20 11:10	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg			02/19/20 11:10	1
Chloroethane	<0.0015		0.0050	0.0015	mg/Kg			02/19/20 11:10	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg			02/19/20 11:10	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg			02/19/20 11:10	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg			02/19/20 11:10	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg			02/19/20 11:10	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg			02/19/20 11:10	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg			02/19/20 11:10	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg			02/19/20 11:10	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg			02/19/20 11:10	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			02/19/20 11:10	1
1,3-Dichloropropene, Total	<0.00070		0.0020	0.00070	mg/Kg			02/19/20 11:10	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg			02/19/20 11:10	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg			02/19/20 11:10	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg			02/19/20 11:10	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg			02/19/20 11:10	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg			02/19/20 11:10	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg			02/19/20 11:10	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg			02/19/20 11:10	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg			02/19/20 11:10	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg			02/19/20 11:10	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg			02/19/20 11:10	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg			02/19/20 11:10	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg			02/19/20 11:10	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg			02/19/20 11:10	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg			02/19/20 11:10	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg			02/19/20 11:10	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg			02/19/20 11:10	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg			02/19/20 11:10	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	101		75 - 131		02/19/20 11:10	1
Dibromofluoromethane	87		75 - 126		02/19/20 11:10	1
1,2-Dichloroethane-d4 (Surr)	87		70 - 134		02/19/20 11:10	1
Toluene-d8 (Surr)	94		75 - 124		02/19/20 11:10	1

QC Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

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

Lab Sample ID: LCS 500-530336/4

Matrix: Solid

Analysis Batch: 530336

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0463		mg/Kg		93	40 - 150
Benzene	0.0500	0.0430		mg/Kg		86	70 - 125
Bromodichloromethane	0.0500	0.0389		mg/Kg		78	67 - 129
Bromoform	0.0500	0.0376		mg/Kg		75	68 - 136
Bromomethane	0.0500	0.0510		mg/Kg		102	70 - 130
2-Butanone (MEK)	0.0500	0.0432		mg/Kg		86	47 - 138
Carbon disulfide	0.0500	0.0399		mg/Kg		80	70 - 129
Carbon tetrachloride	0.0500	0.0411		mg/Kg		82	75 - 125
Chlorobenzene	0.0500	0.0431		mg/Kg		86	50 - 150
Chloroethane	0.0500	0.0690	*	mg/Kg		138	75 - 125
Chloroform	0.0500	0.0421		mg/Kg		84	57 - 135
Chloromethane	0.0500	0.0602		mg/Kg		120	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0434		mg/Kg		87	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0383		mg/Kg		77	70 - 125
Dibromochloromethane	0.0500	0.0380		mg/Kg		76	69 - 125
1,1-Dichloroethane	0.0500	0.0437		mg/Kg		87	70 - 125
1,2-Dichloroethane	0.0500	0.0406		mg/Kg		81	70 - 130
1,1-Dichloroethene	0.0500	0.0428		mg/Kg		86	70 - 120
1,2-Dichloropropane	0.0500	0.0436		mg/Kg		87	70 - 125
Ethylbenzene	0.0500	0.0428		mg/Kg		86	61 - 136
2-Hexanone	0.0500	0.0413		mg/Kg		83	48 - 146
Methylene Chloride	0.0500	0.0428		mg/Kg		86	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0391		mg/Kg		78	50 - 148
Methyl tert-butyl ether	0.0500	0.0401		mg/Kg		80	50 - 140
Styrene	0.0500	0.0417		mg/Kg		83	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0414		mg/Kg		83	70 - 122
Tetrachloroethene	0.0500	0.0465		mg/Kg		93	70 - 124
Toluene	0.0500	0.0417		mg/Kg		83	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0448		mg/Kg		90	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0367		mg/Kg		73	70 - 125
1,1,1-Trichloroethane	0.0500	0.0422		mg/Kg		84	70 - 128
1,1,2-Trichloroethane	0.0500	0.0395		mg/Kg		79	70 - 125
Trichloroethene	0.0500	0.0447		mg/Kg		89	70 - 125
Vinyl acetate	0.0500	0.0441		mg/Kg		88	40 - 153
Vinyl chloride	0.0500	0.0517		mg/Kg		103	70 - 125
Xylenes, Total	0.100	0.0844		mg/Kg		84	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	98		75 - 131
Dibromofluoromethane	93		75 - 126
1,2-Dichloroethane-d4 (Surr)	86		70 - 134
Toluene-d8 (Surr)	95		75 - 124

QC Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

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

Lab Sample ID: LCSD 500-530336/5

Matrix: Solid

Analysis Batch: 530336

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0461		mg/Kg		92	40 - 150	0	30
Benzene	0.0500	0.0441		mg/Kg		88	70 - 125	2	30
Bromodichloromethane	0.0500	0.0396		mg/Kg		79	67 - 129	2	30
Bromoform	0.0500	0.0390		mg/Kg		78	68 - 136	4	30
Bromomethane	0.0500	0.0509		mg/Kg		102	70 - 130	0	30
2-Butanone (MEK)	0.0500	0.0431		mg/Kg		86	47 - 138	0	30
Carbon disulfide	0.0500	0.0412		mg/Kg		82	70 - 129	3	30
Carbon tetrachloride	0.0500	0.0419		mg/Kg		84	75 - 125	2	30
Chlorobenzene	0.0500	0.0426		mg/Kg		85	50 - 150	1	30
Chloroethane	0.0500	0.0670	*	mg/Kg		134	75 - 125	3	30
Chloroform	0.0500	0.0429		mg/Kg		86	57 - 135	2	30
Chloromethane	0.0500	0.0618		mg/Kg		124	70 - 125	3	30
cis-1,2-Dichloroethene	0.0500	0.0446		mg/Kg		89	70 - 125	3	30
cis-1,3-Dichloropropene	0.0500	0.0388		mg/Kg		78	70 - 125	1	30
Dibromochloromethane	0.0500	0.0380		mg/Kg		76	69 - 125	0	30
1,1-Dichloroethane	0.0500	0.0446		mg/Kg		89	70 - 125	2	30
1,2-Dichloroethane	0.0500	0.0421		mg/Kg		84	70 - 130	4	30
1,1-Dichloroethene	0.0500	0.0452		mg/Kg		90	70 - 120	5	30
1,2-Dichloropropane	0.0500	0.0416		mg/Kg		83	70 - 125	5	30
Ethylbenzene	0.0500	0.0426		mg/Kg		85	61 - 136	1	30
2-Hexanone	0.0500	0.0399		mg/Kg		80	48 - 146	4	30
Methylene Chloride	0.0500	0.0444		mg/Kg		89	70 - 126	4	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0393		mg/Kg		79	50 - 148	1	30
Methyl tert-butyl ether	0.0500	0.0433		mg/Kg		87	50 - 140	8	30
Styrene	0.0500	0.0417		mg/Kg		83	70 - 125	0	30
1,1,2,2-Tetrachloroethane	0.0500	0.0424		mg/Kg		85	70 - 122	3	30
Tetrachloroethene	0.0500	0.0468		mg/Kg		94	70 - 124	1	30
Toluene	0.0500	0.0409		mg/Kg		82	70 - 125	2	30
trans-1,2-Dichloroethene	0.0500	0.0457		mg/Kg		91	70 - 125	2	30
trans-1,3-Dichloropropene	0.0500	0.0374		mg/Kg		75	70 - 125	2	30
1,1,1-Trichloroethane	0.0500	0.0433		mg/Kg		87	70 - 128	3	30
1,1,2-Trichloroethane	0.0500	0.0399		mg/Kg		80	70 - 125	1	30
Trichloroethene	0.0500	0.0457		mg/Kg		91	70 - 125	2	30
Vinyl acetate	0.0500	0.0429		mg/Kg		86	40 - 153	3	30
Vinyl chloride	0.0500	0.0513		mg/Kg		103	70 - 125	1	30
Xylenes, Total	0.100	0.0847		mg/Kg		85	53 - 147	0	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	95		75 - 131
Dibromofluoromethane	96		75 - 126
1,2-Dichloroethane-d4 (Surr)	87		70 - 134
Toluene-d8 (Surr)	94		75 - 124

QC Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

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

Lab Sample ID: MB 500-530357/1-A

Matrix: Solid

Analysis Batch: 530474

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 530357

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	<0.0060		0.033	0.0060	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
Acenaphthylene	<0.0044		0.033	0.0044	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
Anthracene	<0.0056		0.033	0.0056	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
Benzo[a]anthracene	0.00456	J	0.033	0.0045	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
Benzo[a]pyrene	<0.0064		0.033	0.0064	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
Benzo[b]fluoranthene	<0.0072		0.033	0.0072	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
Benzo[g,h,i]perylene	<0.011		0.033	0.011	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
Benzo[k]fluoranthene	<0.0098		0.033	0.0098	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
Bis(2-chloroethoxy)methane	<0.034		0.17	0.034	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
Bis(2-chloroethyl)ether	<0.050		0.17	0.050	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
Bis(2-ethylhexyl) phthalate	<0.061		0.17	0.061	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
4-Bromophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
Butyl benzyl phthalate	<0.063		0.17	0.063	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
Carbazole	<0.083		0.17	0.083	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
4-Chloroaniline	<0.16		0.67	0.16	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
4-Chloro-3-methylphenol	<0.11		0.33	0.11	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
2-Chloronaphthalene	<0.037		0.17	0.037	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
2-Chlorophenol	<0.057		0.17	0.057	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
4-Chlorophenyl phenyl ether	<0.039		0.17	0.039	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
Chrysene	<0.0091		0.033	0.0091	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
Dibenz(a,h)anthracene	<0.0064		0.033	0.0064	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
Dibenzofuran	<0.039		0.17	0.039	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
1,2-Dichlorobenzene	<0.040		0.17	0.040	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
1,3-Dichlorobenzene	<0.037		0.17	0.037	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
1,4-Dichlorobenzene	<0.043		0.17	0.043	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
3,3'-Dichlorobenzidine	<0.047		0.17	0.047	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
2,4-Dichlorophenol	<0.079		0.33	0.079	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
Diethyl phthalate	<0.056		0.17	0.056	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
2,4-Dimethylphenol	<0.13		0.33	0.13	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
Dimethyl phthalate	<0.043		0.17	0.043	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
Di-n-butyl phthalate	<0.051		0.17	0.051	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
4,6-Dinitro-2-methylphenol	<0.27		0.67	0.27	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
2,4-Dinitrophenol	<0.59		0.67	0.59	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
2,4-Dinitrotoluene	<0.053		0.17	0.053	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
2,6-Dinitrotoluene	<0.065		0.17	0.065	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
Di-n-octyl phthalate	<0.054		0.17	0.054	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
Fluoranthene	0.0130	J	0.033	0.0062	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
Fluorene	<0.0047		0.033	0.0047	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
Hexachlorobenzene	<0.0077		0.067	0.0077	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
Hexachlorobutadiene	<0.052		0.17	0.052	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
Hexachlorocyclopentadiene	<0.19		0.67	0.19	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
Hexachloroethane	<0.051		0.17	0.051	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
Indeno[1,2,3-cd]pyrene	<0.0086		0.033	0.0086	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
Isophorone	<0.037		0.17	0.037	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
2-Methylnaphthalene	<0.0061		0.067	0.0061	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
2-Methylphenol	<0.053		0.17	0.053	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
3 & 4 Methylphenol	<0.055		0.17	0.055	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
Naphthalene	<0.0051		0.033	0.0051	mg/Kg		02/19/20 08:46	02/19/20 20:32	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

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

Lab Sample ID: MB 500-530357/1-A
Matrix: Solid
Analysis Batch: 530474

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 530357

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2-Nitroaniline	<0.045		0.17	0.045	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
3-Nitroaniline	<0.10		0.33	0.10	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
4-Nitroaniline	<0.14		0.33	0.14	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
Nitrobenzene	<0.0083		0.033	0.0083	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
2-Nitrophenol	<0.079		0.33	0.079	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
4-Nitrophenol	<0.32		0.67	0.32	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
N-Nitrosodi-n-propylamine	<0.041		0.067	0.041	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
N-Nitrosodiphenylamine	<0.039		0.17	0.039	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
2,2'-oxybis[1-chloropropane]	<0.039		0.17	0.039	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
Pentachlorophenol	<0.53		0.67	0.53	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
Phenanthrene	0.00884	J	0.033	0.0046	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
Phenol	<0.074		0.17	0.074	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
Pyrene	0.0107	J	0.033	0.0066	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
1,2,4-Trichlorobenzene	<0.036		0.17	0.036	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
2,4,5-Trichlorophenol	<0.076		0.33	0.076	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
2,4,6-Trichlorophenol	<0.11		0.33	0.11	mg/Kg		02/19/20 08:46	02/19/20 20:32	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorobiphenyl	93		43 - 145	02/19/20 08:46	02/19/20 20:32	1
2-Fluorophenol	97		31 - 166	02/19/20 08:46	02/19/20 20:32	1
Nitrobenzene-d5	82		37 - 147	02/19/20 08:46	02/19/20 20:32	1
Phenol-d5	91		30 - 153	02/19/20 08:46	02/19/20 20:32	1
Terphenyl-d14	133		42 - 157	02/19/20 08:46	02/19/20 20:32	1
2,4,6-Tribromophenol	90		31 - 143	02/19/20 08:46	02/19/20 20:32	1

Lab Sample ID: LCS 500-530357/2-A
Matrix: Solid
Analysis Batch: 530474

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 530357

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthylene	1.33	1.04		mg/Kg		78	68 - 120
Anthracene	1.33	1.34		mg/Kg		101	70 - 114
Benzo[a]anthracene	1.33	1.25		mg/Kg		94	67 - 122
Benzo[a]pyrene	1.33	1.36		mg/Kg		102	65 - 133
Benzo[b]fluoranthene	1.33	1.39		mg/Kg		104	69 - 129
Benzo[g,h,i]perylene	1.33	1.47		mg/Kg		110	72 - 131
Benzo[k]fluoranthene	1.33	1.34		mg/Kg		101	68 - 127
Bis(2-chloroethoxy)methane	1.33	1.19		mg/Kg		89	60 - 112
Bis(2-chloroethyl)ether	1.33	1.23		mg/Kg		93	55 - 111
Bis(2-ethylhexyl) phthalate	1.33	1.33		mg/Kg		100	72 - 131
4-Bromophenyl phenyl ether	1.33	1.27		mg/Kg		96	68 - 118
Butyl benzyl phthalate	1.33	1.30		mg/Kg		98	71 - 129
Carbazole	1.33	1.43		mg/Kg		107	65 - 142
4-Chloroaniline	1.33	1.23		mg/Kg		92	30 - 150
4-Chloro-3-methylphenol	1.33	1.23		mg/Kg		92	65 - 122
2-Chloronaphthalene	1.33	1.19		mg/Kg		89	69 - 114
2-Chlorophenol	1.33	1.23		mg/Kg		92	64 - 110

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

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

Lab Sample ID: LCS 500-530357/2-A

Matrix: Solid

Analysis Batch: 530474

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 530357

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorophenyl phenyl ether	1.33	1.04		mg/Kg		78	62 - 119
Chrysene	1.33	1.29		mg/Kg		97	63 - 120
Dibenz(a,h)anthracene	1.33	1.42		mg/Kg		106	64 - 131
Dibenzofuran	1.33	1.08		mg/Kg		81	66 - 115
1,2-Dichlorobenzene	1.33	1.26		mg/Kg		94	62 - 110
1,3-Dichlorobenzene	1.33	1.22		mg/Kg		92	65 - 124
1,4-Dichlorobenzene	1.33	1.20		mg/Kg		90	61 - 110
3,3'-Dichlorobenzidine	1.33	1.09		mg/Kg		82	35 - 128
2,4-Dichlorophenol	1.33	1.27		mg/Kg		95	58 - 120
Diethyl phthalate	1.33	1.09		mg/Kg		82	58 - 120
2,4-Dimethylphenol	1.33	1.29		mg/Kg		96	60 - 110
Dimethyl phthalate	1.33	1.26		mg/Kg		95	69 - 116
Di-n-butyl phthalate	1.33	1.44		mg/Kg		108	65 - 120
4,6-Dinitro-2-methylphenol	2.67	0.822		mg/Kg		31	10 - 110
2,4-Dinitrophenol	2.67	<0.59	*	mg/Kg		9	10 - 100
2,4-Dinitrotoluene	1.33	1.14		mg/Kg		86	69 - 124
2,6-Dinitrotoluene	1.33	1.14		mg/Kg		85	70 - 123
Di-n-octyl phthalate	1.33	1.45		mg/Kg		109	68 - 134
Fluoranthene	1.33	1.40		mg/Kg		105	62 - 120
Fluorene	1.33	1.05		mg/Kg		79	62 - 120
Hexachlorobenzene	1.33	1.41		mg/Kg		106	63 - 124
Hexachlorobutadiene	1.33	1.42		mg/Kg		106	56 - 120
Hexachlorocyclopentadiene	1.33	0.513	J	mg/Kg		38	10 - 133
Hexachloroethane	1.33	1.19		mg/Kg		89	60 - 114
Indeno[1,2,3-cd]pyrene	1.33	1.42		mg/Kg		107	68 - 130
Isophorone	1.33	1.18		mg/Kg		89	55 - 110
2-Methylnaphthalene	1.33	1.21		mg/Kg		91	69 - 112
2-Methylphenol	1.33	1.01		mg/Kg		76	60 - 120
3 & 4 Methylphenol	1.33	1.15		mg/Kg		87	57 - 120
Naphthalene	1.33	1.30		mg/Kg		98	63 - 110
2-Nitroaniline	1.33	1.13		mg/Kg		85	57 - 124
3-Nitroaniline	1.33	1.03		mg/Kg		77	40 - 122
4-Nitroaniline	1.33	0.957		mg/Kg		72	60 - 160
Nitrobenzene	1.33	1.20		mg/Kg		90	60 - 116
2-Nitrophenol	1.33	1.23		mg/Kg		93	60 - 120
4-Nitrophenol	2.67	1.57		mg/Kg		59	30 - 122
N-Nitrosodi-n-propylamine	1.33	1.12		mg/Kg		84	56 - 118
N-Nitrosodiphenylamine	1.33	1.38		mg/Kg		103	65 - 112
2,2'-oxybis[1-chloropropane]	1.33	1.09		mg/Kg		82	40 - 124
Pentachlorophenol	2.67	1.30		mg/Kg		49	13 - 112
Phenanthrene	1.33	1.36		mg/Kg		102	62 - 120
Phenol	1.33	1.12		mg/Kg		84	56 - 122
Pyrene	1.33	1.28		mg/Kg		96	61 - 128
1,2,4-Trichlorobenzene	1.33	1.35		mg/Kg		101	66 - 117
2,4,5-Trichlorophenol	1.33	1.12		mg/Kg		84	50 - 120
2,4,6-Trichlorophenol	1.33	1.10		mg/Kg		83	57 - 120

QC Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

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

Lab Sample ID: LCS 500-530357/2-A
Matrix: Solid
Analysis Batch: 530474

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 530357

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	95		43 - 145
2-Fluorophenol	99		31 - 166
Nitrobenzene-d5	92		37 - 147
Phenol-d5	97		30 - 153
Terphenyl-d14	115		42 - 157
2,4,6-Tribromophenol	84		31 - 143

Lab Sample ID: 500-177900-1 MS
Matrix: Solid
Analysis Batch: 530474

Client Sample ID: 3229V-6-B01 (0-5)
Prep Type: Total/NA
Prep Batch: 530357

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
Acenaphthene	<0.0070		1.54	1.57		mg/Kg	☼	102	65 - 124
Acenaphthylene	0.0070	J	1.54	1.59		mg/Kg	☼	103	68 - 120
Anthracene	0.012	J	1.54	1.69		mg/Kg	☼	109	70 - 114
Benzo[a]anthracene	0.076	B	1.54	1.66		mg/Kg	☼	103	67 - 122
Benzo[a]pyrene	0.072		1.54	1.77		mg/Kg	☼	110	65 - 133
Benzo[b]fluoranthene	0.11	F1	1.54	2.09		mg/Kg	☼	129	69 - 129
Benzo[g,h,i]perylene	0.052	F1	1.54	0.870	F1	mg/Kg	☼	53	72 - 131
Benzo[k]fluoranthene	0.045	F1	1.54	2.07	F1	mg/Kg	☼	132	68 - 127
Bis(2-chloroethoxy)methane	<0.040		1.54	1.31		mg/Kg	☼	85	60 - 112
Bis(2-chloroethyl)ether	<0.058		1.54	1.39		mg/Kg	☼	90	55 - 111
Bis(2-ethylhexyl) phthalate	<0.071		1.54	1.56		mg/Kg	☼	101	72 - 131
4-Bromophenyl phenyl ether	<0.051		1.54	1.58		mg/Kg	☼	103	68 - 118
Butyl benzyl phthalate	<0.074		1.54	1.43		mg/Kg	☼	93	71 - 129
Carbazole	<0.097		1.54	1.65		mg/Kg	☼	107	65 - 142
4-Chloroaniline	<0.18		1.54	1.10		mg/Kg	☼	71	30 - 150
4-Chloro-3-methylphenol	<0.13		1.54	1.56		mg/Kg	☼	101	65 - 122
2-Chloronaphthalene	<0.043		1.54	1.56		mg/Kg	☼	101	69 - 114
2-Chlorophenol	<0.066		1.54	1.44		mg/Kg	☼	93	64 - 110
4-Chlorophenyl phenyl ether	<0.045		1.54	1.66		mg/Kg	☼	108	62 - 119
Chrysene	0.088		1.54	1.68		mg/Kg	☼	103	63 - 120
Dibenz(a,h)anthracene	<0.0075		1.54	1.02		mg/Kg	☼	66	64 - 131
Dibenzofuran	<0.045		1.54	1.73		mg/Kg	☼	112	66 - 115
1,2-Dichlorobenzene	<0.046		1.54	1.25		mg/Kg	☼	81	62 - 110
1,3-Dichlorobenzene	<0.044		1.54	1.23		mg/Kg	☼	79	60 - 110
1,4-Dichlorobenzene	<0.050		1.54	1.26		mg/Kg	☼	81	61 - 110
3,3'-Dichlorobenzidine	<0.054		1.54	0.594		mg/Kg	☼	38	35 - 128
2,4-Dichlorophenol	<0.092		1.54	1.56		mg/Kg	☼	101	58 - 120
Diethyl phthalate	<0.066		1.54	1.75		mg/Kg	☼	113	58 - 120
2,4-Dimethylphenol	<0.15		1.54	1.55		mg/Kg	☼	101	60 - 110
Dimethyl phthalate	<0.051		1.54	1.73		mg/Kg	☼	112	69 - 116
Di-n-butyl phthalate	<0.059		1.54	1.67		mg/Kg	☼	108	65 - 120
4,6-Dinitro-2-methylphenol	<0.31		3.09	1.10		mg/Kg	☼	36	10 - 110
2,4-Dinitrophenol	<0.68	F1 *	3.09	<0.68	F1	mg/Kg	☼	0	10 - 100
2,4-Dinitrotoluene	<0.062		1.54	1.80		mg/Kg	☼	117	69 - 124
2,6-Dinitrotoluene	<0.076		1.54	1.71		mg/Kg	☼	111	70 - 123
Di-n-octyl phthalate	<0.063		1.54	1.78		mg/Kg	☼	115	68 - 134

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

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

Lab Sample ID: 500-177900-1 MS

Matrix: Solid

Analysis Batch: 530474

Client Sample ID: 3229V-6-B01 (0-5)

Prep Type: Total/NA

Prep Batch: 530357

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier		Result	Qualifier					
Fluoranthene	0.12	B	1.54	1.75		mg/Kg	☼	105	62 - 120	
Fluorene	<0.0055		1.54	1.70		mg/Kg	☼	110	62 - 120	
Hexachlorobenzene	<0.0090		1.54	1.72		mg/Kg	☼	111	63 - 124	
Hexachlorobutadiene	<0.061		1.54	1.54		mg/Kg	☼	100	56 - 120	
Hexachlorocyclopentadiene	<0.22	F1	1.54	<0.22	F1	mg/Kg	☼	0	10 - 133	
Hexachloroethane	<0.059		1.54	1.05		mg/Kg	☼	68	60 - 114	
Indeno[1,2,3-cd]pyrene	0.038	J F1	1.54	1.01	F1	mg/Kg	☼	63	68 - 130	
Isophorone	<0.044		1.54	1.38		mg/Kg	☼	90	55 - 110	
2-Methylnaphthalene	0.013	J	1.54	1.54		mg/Kg	☼	99	69 - 112	
2-Methylphenol	<0.062		1.54	1.26		mg/Kg	☼	82	60 - 120	
3 & 4 Methylphenol	<0.065		1.54	1.24		mg/Kg	☼	80	57 - 120	
Naphthalene	<0.0060		1.54	1.47		mg/Kg	☼	95	63 - 110	
2-Nitroaniline	<0.052		1.54	1.54		mg/Kg	☼	100	57 - 124	
3-Nitroaniline	<0.12		1.54	1.47		mg/Kg	☼	95	40 - 122	
4-Nitroaniline	<0.16		1.54	1.42		mg/Kg	☼	92	60 - 160	
Nitrobenzene	<0.0097		1.54	1.46		mg/Kg	☼	95	60 - 116	
2-Nitrophenol	<0.092		1.54	1.44		mg/Kg	☼	93	60 - 120	
4-Nitrophenol	<0.37		3.09	2.45		mg/Kg	☼	79	30 - 122	
N-Nitrosodi-n-propylamine	<0.047		1.54	1.20		mg/Kg	☼	77	56 - 118	
N-Nitrosodiphenylamine	<0.046		1.54	1.62		mg/Kg	☼	105	65 - 112	
2,2'-oxybis[1-chloropropane]	<0.045		1.54	1.14		mg/Kg	☼	74	40 - 124	
Pentachlorophenol	<0.62		3.09	1.93		mg/Kg	☼	63	13 - 112	
Phenanthrene	0.078	B	1.54	1.79		mg/Kg	☼	111	62 - 120	
Phenol	<0.086		1.54	1.25		mg/Kg	☼	81	56 - 122	
Pyrene	0.12	B	1.54	1.62		mg/Kg	☼	97	61 - 128	
1,2,4-Trichlorobenzene	<0.042		1.54	1.47		mg/Kg	☼	95	66 - 117	
2,4,5-Trichlorophenol	<0.089		1.54	1.57		mg/Kg	☼	102	50 - 120	
2,4,6-Trichlorophenol	<0.13		1.54	1.64		mg/Kg	☼	106	57 - 120	

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	102		43 - 145
2-Fluorophenol	98		31 - 166
Nitrobenzene-d5	99		37 - 147
Phenol-d5	99		30 - 153
Terphenyl-d14	110		42 - 157
2,4,6-Tribromophenol	127		31 - 143

Lab Sample ID: 500-177900-1 MSD

Matrix: Solid

Analysis Batch: 530474

Client Sample ID: 3229V-6-B01 (0-5)

Prep Type: Total/NA

Prep Batch: 530357

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec.	Limits	RPD	
	Result	Qualifier		Result	Qualifier						RPD	Limit
Acenaphthene	<0.0070		1.55	1.55		mg/Kg	☼	100	65 - 124	1	30	
Acenaphthylene	0.0070	J	1.55	1.58		mg/Kg	☼	101	68 - 120	1	30	
Anthracene	0.012	J	1.55	1.73		mg/Kg	☼	111	70 - 114	2	30	
Benzo[a]anthracene	0.076	B	1.55	1.78		mg/Kg	☼	110	67 - 122	7	30	
Benzo[a]pyrene	0.072		1.55	1.95		mg/Kg	☼	121	65 - 133	10	30	
Benzo[b]fluoranthene	0.11	F1	1.55	2.47	F1	mg/Kg	☼	153	69 - 129	17	30	

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

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

Lab Sample ID: 500-177900-1 MSD

Matrix: Solid

Analysis Batch: 530474

Client Sample ID: 3229V-6-B01 (0-5)

Prep Type: Total/NA

Prep Batch: 530357

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier		Result	Qualifier						
Benzo[g,h,i]perylene	0.052	F1	1.55	1.12	F1	mg/Kg	☼	69	72 - 131	25	30
Benzo[k]fluoranthene	0.045	F1	1.55	2.17	F1	mg/Kg	☼	137	68 - 127	5	30
Bis(2-chloroethoxy)methane	<0.040		1.55	1.36		mg/Kg	☼	88	60 - 112	4	30
Bis(2-chloroethyl)ether	<0.058		1.55	1.49		mg/Kg	☼	96	55 - 111	6	30
Bis(2-ethylhexyl) phthalate	<0.071		1.55	1.69		mg/Kg	☼	109	72 - 131	8	30
4-Bromophenyl phenyl ether	<0.051		1.55	1.60		mg/Kg	☼	103	68 - 118	1	30
Butyl benzyl phthalate	<0.074		1.55	1.60		mg/Kg	☼	103	71 - 129	11	30
Carbazole	<0.097		1.55	1.81		mg/Kg	☼	117	65 - 142	9	30
4-Chloroaniline	<0.18		1.55	1.18		mg/Kg	☼	76	30 - 150	7	30
4-Chloro-3-methylphenol	<0.13		1.55	1.52		mg/Kg	☼	98	65 - 122	2	30
2-Chloronaphthalene	<0.043		1.55	1.52		mg/Kg	☼	98	69 - 114	3	30
2-Chlorophenol	<0.066		1.55	1.44		mg/Kg	☼	93	64 - 110	0	30
4-Chlorophenyl phenyl ether	<0.045		1.55	1.62		mg/Kg	☼	105	62 - 119	2	30
Chrysene	0.088		1.55	1.81		mg/Kg	☼	111	63 - 120	7	30
Dibenz(a,h)anthracene	<0.0075		1.55	1.25		mg/Kg	☼	81	64 - 131	21	30
Dibenzofuran	<0.045		1.55	1.71		mg/Kg	☼	110	66 - 115	1	30
1,2-Dichlorobenzene	<0.046		1.55	1.35		mg/Kg	☼	87	62 - 110	8	30
1,3-Dichlorobenzene	<0.044		1.55	1.25		mg/Kg	☼	80	60 - 110	2	30
1,4-Dichlorobenzene	<0.050		1.55	1.28		mg/Kg	☼	83	61 - 110	2	30
3,3'-Dichlorobenzidine	<0.054		1.55	0.640		mg/Kg	☼	41	35 - 128	7	30
2,4-Dichlorophenol	<0.092		1.55	1.58		mg/Kg	☼	102	58 - 120	1	30
Diethyl phthalate	<0.066		1.55	1.75		mg/Kg	☼	113	58 - 120	0	30
2,4-Dimethylphenol	<0.15		1.55	1.50		mg/Kg	☼	97	60 - 110	4	30
Dimethyl phthalate	<0.051		1.55	1.73		mg/Kg	☼	112	69 - 116	0	30
Di-n-butyl phthalate	<0.059		1.55	1.87		mg/Kg	☼	120	65 - 120	11	30
4,6-Dinitro-2-methylphenol	<0.31		3.10	1.35		mg/Kg	☼	43	10 - 110	20	30
2,4-Dinitrophenol	<0.68	F1 *	3.10	<0.68	F1	mg/Kg	☼	0	10 - 100	NC	30
2,4-Dinitrotoluene	<0.062		1.55	1.79		mg/Kg	☼	115	69 - 124	1	30
2,6-Dinitrotoluene	<0.076		1.55	1.69		mg/Kg	☼	109	70 - 123	1	30
Di-n-octyl phthalate	<0.063		1.55	1.70		mg/Kg	☼	109	68 - 134	5	30
Fluoranthene	0.12	B	1.55	1.91		mg/Kg	☼	116	62 - 120	9	30
Fluorene	<0.0055		1.55	1.68		mg/Kg	☼	109	62 - 120	1	30
Hexachlorobenzene	<0.0090		1.55	1.75		mg/Kg	☼	113	63 - 124	2	30
Hexachlorobutadiene	<0.061		1.55	1.53		mg/Kg	☼	99	56 - 120	1	30
Hexachlorocyclopentadiene	<0.22	F1	1.55	0.222	J	mg/Kg	☼	14	10 - 133	NC	30
Hexachloroethane	<0.059		1.55	1.08		mg/Kg	☼	69	60 - 114	3	30
Indeno[1,2,3-cd]pyrene	0.038	J F1	1.55	1.29		mg/Kg	☼	81	68 - 130	24	30
Isophorone	<0.044		1.55	1.41		mg/Kg	☼	91	55 - 110	2	30
2-Methylnaphthalene	0.013	J	1.55	1.60		mg/Kg	☼	102	69 - 112	4	30
2-Methylphenol	<0.062		1.55	1.27		mg/Kg	☼	82	60 - 120	0	30
3 & 4 Methylphenol	<0.065		1.55	1.34		mg/Kg	☼	86	57 - 120	7	30
Naphthalene	<0.0060		1.55	1.48		mg/Kg	☼	96	63 - 110	1	30
2-Nitroaniline	<0.052		1.55	1.55		mg/Kg	☼	100	57 - 124	0	30
3-Nitroaniline	<0.12		1.55	1.61		mg/Kg	☼	104	40 - 122	9	30
4-Nitroaniline	<0.16		1.55	1.59		mg/Kg	☼	103	60 - 160	11	30
Nitrobenzene	<0.0097		1.55	1.36		mg/Kg	☼	88	60 - 116	7	30
2-Nitrophenol	<0.092		1.55	1.43		mg/Kg	☼	92	60 - 120	1	30
4-Nitrophenol	<0.37		3.10	2.36		mg/Kg	☼	76	30 - 122	4	30
N-Nitrosodi-n-propylamine	<0.047		1.55	1.31		mg/Kg	☼	84	56 - 118	9	30

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

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

Lab Sample ID: 500-177900-1 MSD

Matrix: Solid

Analysis Batch: 530474

Client Sample ID: 3229V-6-B01 (0-5)

Prep Type: Total/NA

Prep Batch: 530357

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier						
N-Nitrosodiphenylamine	<0.046		1.55	1.72		mg/Kg	☼	111	65 - 112	6	30
2,2'-oxybis[1-chloropropane]	<0.045		1.55	1.26		mg/Kg	☼	82	40 - 124	11	30
Pentachlorophenol	<0.62		3.10	1.85		mg/Kg	☼	60	13 - 112	4	30
Phenanthrene	0.078	B	1.55	1.81		mg/Kg	☼	111	62 - 120	1	30
Phenol	<0.086		1.55	1.30		mg/Kg	☼	84	56 - 122	5	30
Pyrene	0.12	B	1.55	1.85		mg/Kg	☼	112	61 - 128	14	30
1,2,4-Trichlorobenzene	<0.042		1.55	1.46		mg/Kg	☼	94	66 - 117	1	30
2,4,5-Trichlorophenol	<0.089		1.55	1.40		mg/Kg	☼	90	50 - 120	12	30
2,4,6-Trichlorophenol	<0.13		1.55	1.56		mg/Kg	☼	100	57 - 120	5	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorobiphenyl	100		43 - 145
2-Fluorophenol	114		31 - 166
Nitrobenzene-d5	93		37 - 147
Phenol-d5	104		30 - 153
Terphenyl-d14	122		42 - 157
2,4,6-Tribromophenol	114		31 - 143

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-530303/1-A

Matrix: Solid

Analysis Batch: 530529

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 530303

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.39		2.0	0.39	mg/Kg		02/19/20 06:57	02/19/20 17:20	1
Arsenic	<0.34		1.0	0.34	mg/Kg		02/19/20 06:57	02/19/20 17:20	1
Barium	<0.11		1.0	0.11	mg/Kg		02/19/20 06:57	02/19/20 17:20	1
Beryllium	<0.093		0.40	0.093	mg/Kg		02/19/20 06:57	02/19/20 17:20	1
Cadmium	0.0593	J	0.20	0.036	mg/Kg		02/19/20 06:57	02/19/20 17:20	1
Chromium	<0.50		1.0	0.50	mg/Kg		02/19/20 06:57	02/19/20 17:20	1
Cobalt	<0.13		0.50	0.13	mg/Kg		02/19/20 06:57	02/19/20 17:20	1
Copper	<0.28		1.0	0.28	mg/Kg		02/19/20 06:57	02/19/20 17:20	1
Iron	10.6	J	20	10	mg/Kg		02/19/20 06:57	02/19/20 17:20	1
Lead	<0.23		0.50	0.23	mg/Kg		02/19/20 06:57	02/19/20 17:20	1
Magnesium	<5.0		10	5.0	mg/Kg		02/19/20 06:57	02/19/20 17:20	1
Calcium	<3.4		20	3.4	mg/Kg		02/19/20 06:57	02/19/20 17:20	1
Manganese	<0.15		1.0	0.15	mg/Kg		02/19/20 06:57	02/19/20 17:20	1
Nickel	<0.29		1.0	0.29	mg/Kg		02/19/20 06:57	02/19/20 17:20	1
Selenium	<0.59		1.0	0.59	mg/Kg		02/19/20 06:57	02/19/20 17:20	1
Silver	<0.13		0.50	0.13	mg/Kg		02/19/20 06:57	02/19/20 17:20	1
Thallium	<0.50		1.0	0.50	mg/Kg		02/19/20 06:57	02/19/20 17:20	1
Vanadium	<0.12		0.50	0.12	mg/Kg		02/19/20 06:57	02/19/20 17:20	1
Zinc	1.14	J	2.0	0.88	mg/Kg		02/19/20 06:57	02/19/20 17:20	1
Potassium	<18		50	18	mg/Kg		02/19/20 06:57	02/19/20 17:20	1
Sodium	<15		100	15	mg/Kg		02/19/20 06:57	02/19/20 17:20	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

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

Lab Sample ID: LCS 500-530303/2-A
Matrix: Solid
Analysis Batch: 530529

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 530303
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	50.0	47.5		mg/Kg		95	80 - 120
Arsenic	10.0	8.92		mg/Kg		89	80 - 120
Barium	200	190		mg/Kg		95	80 - 120
Beryllium	5.00	4.23		mg/Kg		85	80 - 120
Cadmium	5.00	4.48		mg/Kg		90	80 - 120
Chromium	20.0	18.2		mg/Kg		91	80 - 120
Cobalt	50.0	46.2		mg/Kg		92	80 - 120
Copper	25.0	23.4		mg/Kg		93	80 - 120
Iron	100	100		mg/Kg		100	80 - 120
Lead	10.0	8.80		mg/Kg		88	80 - 120
Magnesium	1000	837		mg/Kg		84	80 - 120
Calcium	1000	884		mg/Kg		88	80 - 120
Manganese	50.0	43.6		mg/Kg		87	80 - 120
Nickel	50.0	45.5		mg/Kg		91	80 - 120
Selenium	10.0	8.40		mg/Kg		84	80 - 120
Silver	5.00	4.16		mg/Kg		83	80 - 120
Thallium	10.0	8.95		mg/Kg		90	80 - 120
Vanadium	50.0	46.2		mg/Kg		92	80 - 120
Zinc	50.0	44.5		mg/Kg		89	80 - 120
Potassium	1000	935		mg/Kg		94	80 - 120
Sodium	1000	946		mg/Kg		95	80 - 120

Lab Sample ID: 500-177900-1 MS
Matrix: Solid
Analysis Batch: 530529

Client Sample ID: 3229V-6-B01 (0-5)
Prep Type: Total/NA
Prep Batch: 530303
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	0.21	J F1	28.3	5.72	F1	mg/Kg	☼	20	75 - 125
Arsenic	4.3		5.65	10.5		mg/Kg	☼	111	75 - 125
Barium	76	F1	113	167		mg/Kg	☼	81	75 - 125
Beryllium	0.61		2.83	2.80		mg/Kg	☼	78	75 - 125
Cadmium	0.25	B	2.83	2.42		mg/Kg	☼	77	75 - 125
Chromium	15		11.3	27.2		mg/Kg	☼	105	75 - 125
Cobalt	7.4		28.3	35.4		mg/Kg	☼	99	75 - 125
Copper	18	F1	14.1	36.2	F1	mg/Kg	☼	128	75 - 125
Iron	13000	B	56.5	14400	4	mg/Kg	☼	2203	75 - 125
Lead	48		5.65	142	4	mg/Kg	☼	1651	75 - 125
Magnesium	13000	F2	565	15500	4	mg/Kg	☼	434	75 - 125
Calcium	19000	F2	565	23800	4	mg/Kg	☼	802	75 - 125
Manganese	400		28.3	334	4	mg/Kg	☼	-220	75 - 125
Nickel	19		28.3	51.5		mg/Kg	☼	117	75 - 125
Selenium	<0.32		5.65	4.41		mg/Kg	☼	78	75 - 125
Silver	0.097	J	2.83	2.32		mg/Kg	☼	79	75 - 125
Thallium	<0.27		5.65	4.71		mg/Kg	☼	83	75 - 125
Vanadium	27		28.3	53.9		mg/Kg	☼	96	75 - 125
Zinc	77	F1 B	28.3	131	F1	mg/Kg	☼	190	75 - 125
Potassium	1400	F1 F2	565	3390	F1	mg/Kg	☼	346	75 - 125
Sodium	1100	F1	565	1850	F1	mg/Kg	☼	139	75 - 125

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

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

Lab Sample ID: 500-177900-1 MSD

Matrix: Solid

Analysis Batch: 530529

Client Sample ID: 3229V-6-B01 (0-5)

Prep Type: Total/NA

Prep Batch: 530303

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier		Added	Result						
Antimony	0.21	J F1	29.8	5.68	F1	mg/Kg	☼	19	75 - 125	1	20
Arsenic	4.3		5.96	10.8		mg/Kg	☼	110	75 - 125	3	20
Barium	76	F1	119	165	F1	mg/Kg	☼	74	75 - 125	2	20
Beryllium	0.61		2.98	3.14		mg/Kg	☼	85	75 - 125	11	20
Cadmium	0.25	B	2.98	2.69		mg/Kg	☼	82	75 - 125	11	20
Chromium	15		11.9	29.2		mg/Kg	☼	117	75 - 125	7	20
Cobalt	7.4		29.8	40.3		mg/Kg	☼	110	75 - 125	13	20
Copper	18	F1	14.9	35.2		mg/Kg	☼	114	75 - 125	3	20
Iron	13000	B	59.6	16800	4	mg/Kg	☼	5971	75 - 125	15	20
Lead	48		5.96	128	4	mg/Kg	☼	1342	75 - 125	10	20
Magnesium	13000	F2	596	25700	4 F2	mg/Kg	☼	2131	75 - 125	50	20
Calcium	19000	F2	596	43700	E 4 F2	mg/Kg	☼	4087	75 - 125	59	20
Manganese	400		29.8	383	4	mg/Kg	☼	-44	75 - 125	14	20
Nickel	19		29.8	54.3		mg/Kg	☼	120	75 - 125	5	20
Selenium	<0.32		5.96	4.48		mg/Kg	☼	75	75 - 125	1	20
Silver	0.097	J	2.98	2.58		mg/Kg	☼	83	75 - 125	11	20
Thallium	<0.27		5.96	4.61		mg/Kg	☼	77	75 - 125	2	20
Vanadium	27		29.8	53.4		mg/Kg	☼	90	75 - 125	1	20
Zinc	77	F1 B	29.8	112		mg/Kg	☼	118	75 - 125	15	20
Potassium	1400	F1 F2	596	5440	F1 F2	mg/Kg	☼	672	75 - 125	46	20
Sodium	1100	F1	596	2050	F1	mg/Kg	☼	165	75 - 125	10	20

Lab Sample ID: 500-177900-1 DU

Matrix: Solid

Analysis Batch: 530529

Client Sample ID: 3229V-6-B01 (0-5)

Prep Type: Total/NA

Prep Batch: 530303

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier		Result				
Antimony	0.21	J F1	<0.22		mg/Kg	☼	NC	20
Arsenic	4.3		4.36		mg/Kg	☼	2	20
Barium	76	F1	66.1		mg/Kg	☼	14	20
Beryllium	0.61		0.666		mg/Kg	☼	9	20
Cadmium	0.25	B	0.209		mg/Kg	☼	16	20
Chromium	15		17.8		mg/Kg	☼	15	20
Cobalt	7.4		7.37		mg/Kg	☼	0.3	20
Copper	18	F1	18.9		mg/Kg	☼	4	20
Iron	13000	B	13900		mg/Kg	☼	5	20
Lead	48		57.7		mg/Kg	☼	17	20
Magnesium	13000	F2	11400		mg/Kg	☼	14	20
Calcium	19000	F2	16500		mg/Kg	☼	16	20
Manganese	400		248	F3	mg/Kg	☼	46	20
Nickel	19		19.2		mg/Kg	☼	4	20
Selenium	<0.32		0.471	J	mg/Kg	☼	NC	20
Silver	0.097	J	0.113	J	mg/Kg	☼	16	20
Thallium	<0.27		<0.28		mg/Kg	☼	NC	20
Vanadium	27		28.8		mg/Kg	☼	8	20
Zinc	77	F1 B	91.3		mg/Kg	☼	17	20
Potassium	1400	F1 F2	1660		mg/Kg	☼	15	20
Sodium	1100	F1	1250		mg/Kg	☼	16	20

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QC Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

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

Lab Sample ID: LCS 500-531035/2-A
Matrix: Solid
Analysis Batch: 531230

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 531035
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Lead	0.100	0.0938		mg/L		94	80 - 120
Manganese	0.500	0.497		mg/L		99	80 - 120

Lab Sample ID: LCS 500-531036/2-A
Matrix: Solid
Analysis Batch: 531227

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 531036
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.100	0.115		mg/L		115	80 - 120
Barium	0.500	0.505		mg/L		101	80 - 120
Beryllium	0.0500	0.0493		mg/L		99	80 - 120
Cadmium	0.0500	0.0542		mg/L		108	80 - 120
Chromium	0.200	0.200		mg/L		100	80 - 120
Cobalt	0.500	0.529		mg/L		106	80 - 120
Copper	0.250	0.277		mg/L		111	80 - 120
Iron	1.00	1.06		mg/L		106	80 - 120
Lead	0.100	0.0963		mg/L		96	80 - 120
Magnesium	10.0	9.17		mg/L		92	80 - 120
Calcium	10.0	9.75		mg/L		97	80 - 120
Manganese	0.500	0.480		mg/L		96	80 - 120
Nickel	0.500	0.548		mg/L		110	80 - 120
Selenium	0.100	0.108		mg/L		108	80 - 120
Silver	0.0500	0.0542		mg/L		108	80 - 120
Vanadium	0.500	0.511		mg/L		102	80 - 120
Zinc	0.500	0.634	*	mg/L		127	80 - 120
Potassium	10.0	10.4		mg/L		104	80 - 120

Lab Sample ID: LB 500-530903/1-B
Matrix: Solid
Analysis Batch: 531227

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 531036

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		02/24/20 06:22	02/24/20 17:40	1
Barium	<0.050		0.50	0.050	mg/L		02/24/20 06:22	02/24/20 17:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/24/20 06:22	02/24/20 17:40	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		02/24/20 06:22	02/24/20 17:40	1
Chromium	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 17:40	1
Cobalt	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 17:40	1
Copper	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 17:40	1
Iron	<0.20		0.40	0.20	mg/L		02/24/20 06:22	02/24/20 17:40	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/24/20 06:22	02/24/20 17:40	1
Magnesium	<0.50		2.5	0.50	mg/L		02/24/20 06:22	02/24/20 17:40	1
Calcium	<0.50		5.0	0.50	mg/L		02/24/20 06:22	02/24/20 17:40	1
Manganese	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 17:40	1
Nickel	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 17:40	1
Selenium	<0.020		0.050	0.020	mg/L		02/24/20 06:22	02/24/20 17:40	1
Silver	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 17:40	1
Vanadium	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 17:40	1
Zinc	<0.020		0.50	0.020	mg/L		02/24/20 06:22	02/24/20 17:40	1

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QC Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

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

Lab Sample ID: LB 500-530903/1-B
Matrix: Solid
Analysis Batch: 531227

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 531036

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	<0.50		2.5	0.50	mg/L		02/24/20 06:22	02/24/20 17:40	1

Lab Sample ID: LB 500-530902/1-B
Matrix: Solid
Analysis Batch: 531230

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 531035

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		02/24/20 06:19	02/24/20 18:18	1
Manganese	<0.010		0.025	0.010	mg/L		02/24/20 06:19	02/24/20 18:18	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-531036/2-A
Matrix: Solid
Analysis Batch: 531307

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 531036

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.520		mg/L		104	80 - 120
Thallium	0.100	0.0917		mg/L		92	80 - 120

Lab Sample ID: LB 500-530903/1-B
Matrix: Solid
Analysis Batch: 531307

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 531036

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/24/20 06:22	02/24/20 19:19	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/24/20 06:22	02/24/20 19:19	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-531122/12-A
Matrix: Solid
Analysis Batch: 531315

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 531122

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/24/20 10:20	02/25/20 08:52	1

Lab Sample ID: LCS 500-531122/14-A
Matrix: Solid
Analysis Batch: 531315

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 531122

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00195		mg/L		97	80 - 120

Lab Sample ID: LB 500-530903/2-B
Matrix: Solid
Analysis Batch: 531315

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 531122

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/24/20 10:20	02/25/20 08:54	1

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QC Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

Method: 7470A - TCLP Mercury (Continued)

Lab Sample ID: 500-177900-7 MS
 Matrix: Solid
 Analysis Batch: 531315

Client Sample ID: 3229V-6-B03 (5-8)
 Prep Type: TCLP
 Prep Batch: 531122

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00020		0.00100	0.000911		mg/L		91	75 - 125

Lab Sample ID: 500-177900-7 DU
 Matrix: Solid
 Analysis Batch: 531315

Client Sample ID: 3229V-6-B03 (5-8)
 Prep Type: TCLP
 Prep Batch: 531122

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

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-531148/12-A
 Matrix: Solid
 Analysis Batch: 531351

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 531148

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		02/24/20 15:45	02/25/20 07:22	1

Lab Sample ID: LCS 500-531148/13-A
 Matrix: Solid
 Analysis Batch: 531351

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 531148

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.150		mg/Kg		90	80 - 120

Method: 9014 - Cyanide

Lab Sample ID: MB 500-531089/1-A
 Matrix: Solid
 Analysis Batch: 531173

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 531089

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.25		0.50	0.25	mg/Kg		02/24/20 09:45	02/24/20 13:45	1

Lab Sample ID: LCS 500-531089/2-A
 Matrix: Solid
 Analysis Batch: 531173

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 531089

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	5.00	5.20		mg/Kg		104	85 - 115

Lab Chronicle

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

Client Sample ID: 3229V-6-B01 (0-5)

Lab Sample ID: 500-177900-1

Date Collected: 02/13/20 10:00

Matrix: Solid

Date Received: 02/14/20 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			530902	02/21/20 12:35	BEC	TAL CHI
SPLP East	Prep	3010A			531035	02/24/20 06:19	LMN	TAL CHI
SPLP East	Analysis	6010B		1	531230	02/24/20 18:37	EEN	TAL CHI
TCLP	Leach	1311			530903	02/21/20 12:35	BEC	TAL CHI
TCLP	Prep	3010A			531036	02/24/20 06:22	LMN	TAL CHI
TCLP	Analysis	6010B		1	531227	02/24/20 17:57	EEN	TAL CHI
TCLP	Leach	1311			530903	02/21/20 12:35	BEC	TAL CHI
TCLP	Prep	3010A			531036	02/24/20 06:22	LMN	TAL CHI
TCLP	Analysis	6020A		1	531307	02/24/20 19:29	FXG	TAL CHI
TCLP	Leach	1311			530903	02/21/20 12:35	BEC	TAL CHI
TCLP	Prep	7470A			531122	02/24/20 10:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	531315	02/25/20 09:12	MJG	TAL CHI
Total/NA	Analysis	9045D		1	531081	02/22/20 18:51	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	530346	02/19/20 08:59	LWN	TAL CHI

Client Sample ID: 3229V-6-B01 (0-5)

Lab Sample ID: 500-177900-1

Date Collected: 02/13/20 10:00

Matrix: Solid

Date Received: 02/14/20 14:00

Percent Solids: 83.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			529871	02/14/20 17:08	WRE	TAL CHI
Total/NA	Analysis	8260B		1	530118	02/18/20 13:46	PMF	TAL CHI
Total/NA	Prep	3541			530357	02/19/20 08:46	BSO	TAL CHI
Total/NA	Analysis	8270D		1	530474	02/19/20 22:05	NRJ	TAL CHI
Total/NA	Prep	3050B			530303	02/19/20 06:57	LMN	TAL CHI
Total/NA	Analysis	6010B		1	530529	02/19/20 17:44	EEN	TAL CHI
Total/NA	Prep	7471B			531148	02/24/20 15:45	MJG	TAL CHI
Total/NA	Analysis	7471B		1	531351	02/25/20 07:26	MJG	TAL CHI
Total/NA	Prep	9010B			531089	02/24/20 09:45	MS	TAL CHI
Total/NA	Analysis	9014		1	531173	02/24/20 13:51	MS	TAL CHI

Client Sample ID: 3229V-6-B01 (0-5) Dup

Lab Sample ID: 500-177900-2

Date Collected: 02/13/20 10:05

Matrix: Solid

Date Received: 02/14/20 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			530902	02/21/20 12:35	BEC	TAL CHI
SPLP East	Prep	3010A			531035	02/24/20 06:19	LMN	TAL CHI
SPLP East	Analysis	6010B		1	531230	02/24/20 18:41	EEN	TAL CHI
TCLP	Leach	1311			530903	02/21/20 12:35	BEC	TAL CHI
TCLP	Prep	3010A			531036	02/24/20 06:22	LMN	TAL CHI
TCLP	Analysis	6010B		1	531227	02/24/20 18:01	EEN	TAL CHI
TCLP	Leach	1311			530903	02/21/20 12:35	BEC	TAL CHI
TCLP	Prep	3010A			531036	02/24/20 06:22	LMN	TAL CHI
TCLP	Analysis	6020A		1	531307	02/24/20 19:31	FXG	TAL CHI

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Lab Chronicle

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

Client Sample ID: 3229V-6-B01 (0-5) Dup

Lab Sample ID: 500-177900-2

Date Collected: 02/13/20 10:05

Matrix: Solid

Date Received: 02/14/20 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			530903	02/21/20 12:35	BEC	TAL CHI
TCLP	Prep	7470A			531122	02/24/20 10:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	531315	02/25/20 09:13	MJG	TAL CHI
Total/NA	Analysis	9045D		1	531081	02/22/20 18:54	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	530346	02/19/20 08:59	LWN	TAL CHI

Client Sample ID: 3229V-6-B01 (0-5) Dup

Lab Sample ID: 500-177900-2

Date Collected: 02/13/20 10:05

Matrix: Solid

Date Received: 02/14/20 14:00

Percent Solids: 85.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			529871	02/14/20 17:08	WRE	TAL CHI
Total/NA	Analysis	8260B		1	530118	02/18/20 14:12	PMF	TAL CHI
Total/NA	Prep	3541			530357	02/19/20 08:46	BSO	TAL CHI
Total/NA	Analysis	8270D		1	530474	02/19/20 22:28	NRJ	TAL CHI
Total/NA	Prep	3050B			530303	02/19/20 06:57	LMN	TAL CHI
Total/NA	Analysis	6010B		1	530529	02/19/20 18:16	EEN	TAL CHI
Total/NA	Prep	7471B			531148	02/24/20 15:45	MJG	TAL CHI
Total/NA	Analysis	7471B		1	531351	02/25/20 07:28	MJG	TAL CHI
Total/NA	Prep	9010B			531089	02/24/20 09:45	MS	TAL CHI
Total/NA	Analysis	9014		1	531173	02/24/20 13:52	MS	TAL CHI

Client Sample ID: 3229V-6-B01 (5-8)

Lab Sample ID: 500-177900-3

Date Collected: 02/13/20 10:10

Matrix: Solid

Date Received: 02/14/20 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			530902	02/21/20 12:35	BEC	TAL CHI
SPLP East	Prep	3010A			531035	02/24/20 06:19	LMN	TAL CHI
SPLP East	Analysis	6010B		1	531230	02/24/20 18:46	EEN	TAL CHI
TCLP	Leach	1311			530903	02/21/20 12:35	BEC	TAL CHI
TCLP	Prep	3010A			531036	02/24/20 06:22	LMN	TAL CHI
TCLP	Analysis	6010B		1	531227	02/24/20 18:05	EEN	TAL CHI
TCLP	Leach	1311			530903	02/21/20 12:35	BEC	TAL CHI
TCLP	Prep	3010A			531036	02/24/20 06:22	LMN	TAL CHI
TCLP	Analysis	6020A		1	531307	02/24/20 19:34	FXG	TAL CHI
TCLP	Leach	1311			530903	02/21/20 12:35	BEC	TAL CHI
TCLP	Prep	7470A			531122	02/24/20 10:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	531315	02/25/20 09:15	MJG	TAL CHI
Total/NA	Analysis	9045D		1	531081	02/22/20 18:56	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	530346	02/19/20 08:59	LWN	TAL CHI

Lab Chronicle

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

Client Sample ID: 3229V-6-B01 (5-8)

Lab Sample ID: 500-177900-3

Date Collected: 02/13/20 10:10

Matrix: Solid

Date Received: 02/14/20 14:00

Percent Solids: 81.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			529871	02/14/20 17:08	WRE	TAL CHI
Total/NA	Analysis	8260B		1	530118	02/18/20 14:37	PMF	TAL CHI
Total/NA	Prep	3541			530357	02/19/20 08:46	BSO	TAL CHI
Total/NA	Analysis	8270D		1	530474	02/19/20 22:51	NRJ	TAL CHI
Total/NA	Prep	3050B			530303	02/19/20 06:57	LMN	TAL CHI
Total/NA	Analysis	6010B		1	530529	02/19/20 18:20	EEN	TAL CHI
Total/NA	Prep	7471B			531148	02/24/20 15:45	MJG	TAL CHI
Total/NA	Analysis	7471B		1	531351	02/25/20 07:30	MJG	TAL CHI
Total/NA	Prep	9010B			531089	02/24/20 09:45	MS	TAL CHI
Total/NA	Analysis	9014		1	531173	02/24/20 13:52	MS	TAL CHI

Client Sample ID: 3229V-6-B02 (0-5)

Lab Sample ID: 500-177900-4

Date Collected: 02/13/20 10:20

Matrix: Solid

Date Received: 02/14/20 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			530902	02/21/20 12:35	BEC	TAL CHI
SPLP East	Prep	3010A			531035	02/24/20 06:19	LMN	TAL CHI
SPLP East	Analysis	6010B		1	531230	02/24/20 18:50	EEN	TAL CHI
TCLP	Leach	1311			530903	02/21/20 12:35	BEC	TAL CHI
TCLP	Prep	3010A			531036	02/24/20 06:22	LMN	TAL CHI
TCLP	Analysis	6010B		1	531227	02/24/20 18:09	EEN	TAL CHI
TCLP	Leach	1311			530903	02/21/20 12:35	BEC	TAL CHI
TCLP	Prep	3010A			531036	02/24/20 06:22	LMN	TAL CHI
TCLP	Analysis	6020A		1	531307	02/24/20 19:36	FXG	TAL CHI
TCLP	Leach	1311			530903	02/21/20 12:35	BEC	TAL CHI
TCLP	Prep	7470A			531122	02/24/20 10:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	531315	02/25/20 09:16	MJG	TAL CHI
Total/NA	Analysis	9045D		1	531081	02/22/20 18:59	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	530346	02/19/20 08:59	LWN	TAL CHI

Client Sample ID: 3229V-6-B02 (0-5)

Lab Sample ID: 500-177900-4

Date Collected: 02/13/20 10:20

Matrix: Solid

Date Received: 02/14/20 14:00

Percent Solids: 84.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			529871	02/14/20 17:08	WRE	TAL CHI
Total/NA	Analysis	8260B		1	530118	02/18/20 15:03	PMF	TAL CHI
Total/NA	Prep	3541			530357	02/19/20 08:46	BSO	TAL CHI
Total/NA	Analysis	8270D		1	530474	02/19/20 23:15	NRJ	TAL CHI
Total/NA	Prep	3050B			530303	02/19/20 06:57	LMN	TAL CHI
Total/NA	Analysis	6010B		1	530529	02/19/20 18:24	EEN	TAL CHI
Total/NA	Prep	3050B			530303	02/19/20 06:57	LMN	TAL CHI
Total/NA	Analysis	6010B		10	530786	02/20/20 15:50	EEN	TAL CHI

Lab Chronicle

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

Client Sample ID: 3229V-6-B02 (0-5)

Lab Sample ID: 500-177900-4

Date Collected: 02/13/20 10:20

Matrix: Solid

Date Received: 02/14/20 14:00

Percent Solids: 84.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			531148	02/24/20 15:45	MJG	TAL CHI
Total/NA	Analysis	7471B		1	531351	02/25/20 07:32	MJG	TAL CHI
Total/NA	Prep	9010B			531089	02/24/20 09:45	MS	TAL CHI
Total/NA	Analysis	9014		1	531173	02/24/20 13:52	MS	TAL CHI

Client Sample ID: 3229V-6-B02 (5-8)

Lab Sample ID: 500-177900-5

Date Collected: 02/13/20 10:30

Matrix: Solid

Date Received: 02/14/20 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			530902	02/21/20 12:35	BEC	TAL CHI
SPLP East	Prep	3010A			531035	02/24/20 06:19	LMN	TAL CHI
SPLP East	Analysis	6010B		1	531230	02/24/20 18:55	EEN	TAL CHI
TCLP	Leach	1311			530903	02/21/20 12:35	BEC	TAL CHI
TCLP	Prep	3010A			531036	02/24/20 06:22	LMN	TAL CHI
TCLP	Analysis	6010B		1	531227	02/24/20 18:14	EEN	TAL CHI
TCLP	Leach	1311			530903	02/21/20 12:35	BEC	TAL CHI
TCLP	Prep	3010A			531036	02/24/20 06:22	LMN	TAL CHI
TCLP	Analysis	6020A		1	531307	02/24/20 19:39	FXG	TAL CHI
TCLP	Leach	1311			530903	02/21/20 12:35	BEC	TAL CHI
TCLP	Prep	7470A			531122	02/24/20 10:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	531315	02/25/20 09:18	MJG	TAL CHI
Total/NA	Analysis	9045D		1	531081	02/22/20 19:01	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	530346	02/19/20 08:59	LWN	TAL CHI

Client Sample ID: 3229V-6-B02 (5-8)

Lab Sample ID: 500-177900-5

Date Collected: 02/13/20 10:30

Matrix: Solid

Date Received: 02/14/20 14:00

Percent Solids: 76.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			529871	02/14/20 17:08	WRE	TAL CHI
Total/NA	Analysis	8260B		1	530336	02/19/20 14:31	PMF	TAL CHI
Total/NA	Prep	3541			530357	02/19/20 08:46	BSO	TAL CHI
Total/NA	Analysis	8270D		1	530474	02/19/20 23:38	NRJ	TAL CHI
Total/NA	Prep	3050B			530303	02/19/20 06:57	LMN	TAL CHI
Total/NA	Analysis	6010B		1	530529	02/19/20 18:29	EEN	TAL CHI
Total/NA	Prep	7471B			531148	02/24/20 15:45	MJG	TAL CHI
Total/NA	Analysis	7471B		1	531351	02/25/20 07:34	MJG	TAL CHI
Total/NA	Prep	9010B			531089	02/24/20 09:45	MS	TAL CHI
Total/NA	Analysis	9014		1	531173	02/24/20 13:53	MS	TAL CHI

Lab Chronicle

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

Client Sample ID: 3229V-6-B03 (0-5)

Lab Sample ID: 500-177900-6

Date Collected: 02/13/20 10:45

Matrix: Solid

Date Received: 02/14/20 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			530902	02/21/20 12:35	BEC	TAL CHI
SPLP East	Prep	3010A			531035	02/24/20 06:19	LMN	TAL CHI
SPLP East	Analysis	6010B		1	531230	02/24/20 18:59	EEN	TAL CHI
TCLP	Leach	1311			530903	02/21/20 12:35	BEC	TAL CHI
TCLP	Prep	3010A			531036	02/24/20 06:22	LMN	TAL CHI
TCLP	Analysis	6010B		1	531227	02/24/20 18:18	EEN	TAL CHI
TCLP	Leach	1311			530903	02/21/20 12:35	BEC	TAL CHI
TCLP	Prep	3010A			531036	02/24/20 06:22	LMN	TAL CHI
TCLP	Analysis	6020A		1	531307	02/24/20 19:41	FXG	TAL CHI
TCLP	Leach	1311			530903	02/21/20 12:35	BEC	TAL CHI
TCLP	Prep	7470A			531122	02/24/20 10:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	531315	02/25/20 09:19	MJG	TAL CHI
Total/NA	Analysis	9045D		1	531081	02/22/20 19:06	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	530346	02/19/20 08:59	LWN	TAL CHI

Client Sample ID: 3229V-6-B03 (0-5)

Lab Sample ID: 500-177900-6

Date Collected: 02/13/20 10:45

Matrix: Solid

Date Received: 02/14/20 14:00

Percent Solids: 85.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			529871	02/14/20 17:08	WRE	TAL CHI
Total/NA	Analysis	8260B		1	530118	02/18/20 15:53	PMF	TAL CHI
Total/NA	Prep	3541			530357	02/19/20 08:46	BSO	TAL CHI
Total/NA	Analysis	8270D		1	530474	02/20/20 00:01	NRJ	TAL CHI
Total/NA	Prep	3050B			530303	02/19/20 06:57	LMN	TAL CHI
Total/NA	Analysis	6010B		1	530529	02/19/20 18:33	EEN	TAL CHI
Total/NA	Prep	3050B			530303	02/19/20 06:57	LMN	TAL CHI
Total/NA	Analysis	6010B		10	530786	02/20/20 15:55	EEN	TAL CHI
Total/NA	Prep	7471B			531148	02/24/20 15:45	MJG	TAL CHI
Total/NA	Analysis	7471B		1	531351	02/25/20 07:36	MJG	TAL CHI
Total/NA	Prep	9010B			531089	02/24/20 09:45	MS	TAL CHI
Total/NA	Analysis	9014		1	531173	02/24/20 13:53	MS	TAL CHI

Client Sample ID: 3229V-6-B03 (5-8)

Lab Sample ID: 500-177900-7

Date Collected: 02/13/20 10:55

Matrix: Solid

Date Received: 02/14/20 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			530902	02/21/20 12:35	BEC	TAL CHI
SPLP East	Prep	3010A			531035	02/24/20 06:19	LMN	TAL CHI
SPLP East	Analysis	6010B		1	531230	02/24/20 19:13	EEN	TAL CHI
TCLP	Leach	1311			530903	02/21/20 12:35	BEC	TAL CHI
TCLP	Prep	3010A			531036	02/24/20 06:22	LMN	TAL CHI
TCLP	Analysis	6010B		1	531227	02/24/20 18:30	EEN	TAL CHI

Lab Chronicle

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

Client Sample ID: 3229V-6-B03 (5-8)

Lab Sample ID: 500-177900-7

Date Collected: 02/13/20 10:55

Matrix: Solid

Date Received: 02/14/20 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			530903	02/21/20 12:35	BEC	TAL CHI
TCLP	Prep	3010A			531036	02/24/20 06:22	LMN	TAL CHI
TCLP	Analysis	6020A		1	531307	02/24/20 19:49	FXG	TAL CHI
TCLP	Leach	1311			530903	02/21/20 12:35	BEC	TAL CHI
TCLP	Prep	7470A			531122	02/24/20 10:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	531315	02/25/20 09:21	MJG	TAL CHI
Total/NA	Analysis	9045D		1	531081	02/22/20 19:09	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	530346	02/19/20 08:59	LWN	TAL CHI

Client Sample ID: 3229V-6-B03 (5-8)

Lab Sample ID: 500-177900-7

Date Collected: 02/13/20 10:55

Matrix: Solid

Date Received: 02/14/20 14:00

Percent Solids: 79.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			529871	02/14/20 17:08	WRE	TAL CHI
Total/NA	Analysis	8260B		1	530118	02/18/20 16:19	PMF	TAL CHI
Total/NA	Prep	3541			530357	02/19/20 08:46	BSO	TAL CHI
Total/NA	Analysis	8270D		1	530474	02/20/20 00:24	NRJ	TAL CHI
Total/NA	Prep	3050B			530303	02/19/20 06:57	LMN	TAL CHI
Total/NA	Analysis	6010B		1	530529	02/19/20 18:37	EEN	TAL CHI
Total/NA	Prep	7471B			531148	02/24/20 15:45	MJG	TAL CHI
Total/NA	Analysis	7471B		1	531351	02/25/20 07:38	MJG	TAL CHI
Total/NA	Prep	9010B			531089	02/24/20 09:45	MS	TAL CHI
Total/NA	Analysis	9014		1	531173	02/24/20 13:54	MS	TAL CHI

Laboratory References:

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

Accreditation/Certification Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177900-1

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20

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

Chain of Custody Record


417629 eurofins

Environment TestAmerica

Address: _____

Regulatory Program: DW NPDES RCRA Other:

TAL-3

Client Contact		Project Manager: Mike Fischer		Site Contact:		Date: 2-13-20		COC No.:	
Company Name: EDI		Tel/Email:		Lab Contact: R-Wright		Carrier:		_____ of _____ COCs	
Address: 33 W. Monroe, Ste. 1825		Analysis Turnaround Time		Filtered Sample (Y/N) _____ Perform MS / MSD (Y/N) _____ VOC _____ SVOC _____ Total 23 Ings _____ TCLP 23 Ings _____ Total Cyanide _____ PH _____		 500-177900 COC		Sampler: M. Fischer	
City/State/Zip: Chicago, IL 60603		<input checked="" type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____						For Lab Use Only:	
Phone: 312-345-1400		<input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day						Walk-in Client: _____	
Fax: _____								Lab Sampling: _____	
Project Name: PTIS 174-009-W068A								Job / SDG No.:	
Site: 3229V-6								500-177900	
PO# 2031-001-068A									

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Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOC	SVOC	Total 23 Ings	TCLP 23 Ings	Total Cyanide	PH
3229V-6-1301(0-5)	2/13/20	1000	G	S	5			X	X	X	X	X	X
-1301(0-5) DVP		1005											
-1301(5-8)		1010											
-1302(0-5)		1020											
-1302(5-8)		1030											
-1303(0-5)		1045											
-1303(5-8)		1055											



Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
 Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Non-Hazard Flammable Skin Irritant Poison B Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return to Client Disposal by Lab Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: 3.7, 2.9	Obs'd: _____	Therm ID No.:
Relinquished by:	Company: EDI	Date/Time: 2/13/20 1510	Received by:	Company: TA
Relinquished by:	Company: TA	Date/Time: 2/13/20	Received by:	Company: TA
Relinquished by:	Company: TA	Date/Time: 2/14/20	Received by:	Company: TA

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Login Sample Receipt Checklist

Client: Environmental Design International, Inc.

Job Number: 500-177900-1

Login Number: 177900

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.7,2.9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

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

Laboratory Job ID: 500-181052-1

Client Project/Site: IDOT - DesPlaines & Niles - WO 068A

For:

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

Attn: Mr. Matthew Weiss



Authorized for release by:
5/4/2020 4:01:24 PM

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

LINKS

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results through
TotalAccess

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www.eurofinsus.com/Env

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 - DesPlaines & Niles - WO 068A

Job ID: 500-181052-1

Job ID: 500-181052-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-181052-1

Receipt

The sample was received on 4/22/2020 5:00 PM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.3° C.

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

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

General Chemistry

Methods 9045C, 9045D: The ending CCV was outside criteria. The CCV prior to sample analysis was within limits. The sample duplicate matched the original results. The pH was verified with pH paper to confirm.

3229V-6-B04 (0-2) (500-181052-1), (CCV4 500-539636/79), (CCV5 500-539636/82) and (500-181052-F-1 DU)

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

Organic Prep

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

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - DesPlaines & Niles - WO 068A

Job ID: 500-181052-1

Client Sample ID: 3229V-6-B04 (0-2)

Lab Sample ID: 500-181052-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.049		0.016	0.0070	mg/Kg	1	☼	8260B	Total/NA
Acenaphthene	0.024	J	0.038	0.0069	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.010	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.083		0.038	0.0064	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.51		0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.77		0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	1.3		0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.38		0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.41		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.077	J	0.19	0.070	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.70		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.088		0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	1.2		0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.024	J	0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.30		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.035	J	0.078	0.0071	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.022	J	0.038	0.0059	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.54		0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	1.4		0.038	0.0077	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.87	J F1	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.4		0.57	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	64	F1	0.57	0.065	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.69		0.23	0.054	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.19	B	0.11	0.021	mg/Kg	1	☼	6010B	Total/NA
Chromium	21		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.29	0.075	mg/Kg	1	☼	6010B	Total/NA
Copper	29		0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	16000		11	6.0	mg/Kg	1	☼	6010B	Total/NA
Lead	21		0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	34000	F2	5.7	2.8	mg/Kg	1	☼	6010B	Total/NA
Calcium	78000	F2	110	19	mg/Kg	10	☼	6010B	Total/NA
Manganese	400		0.57	0.083	mg/Kg	1	☼	6010B	Total/NA
Nickel	27		0.57	0.17	mg/Kg	1	☼	6010B	Total/NA
Silver	0.20	J	0.29	0.074	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.43	J	0.57	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.29	0.068	mg/Kg	1	☼	6010B	Total/NA
Zinc	86		1.1	0.50	mg/Kg	1	☼	6010B	Total/NA
Potassium	2600		29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	1600	F1	57	8.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.57		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	540		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	43		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.6		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.1		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.039	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.2		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.016	J	0.019	0.0064	mg/Kg	1	☼	7471B	Total/NA
pH	9.0		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - DesPlaines & Niles - WO 068A

Job ID: 500-181052-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-181052-1	3229V-6-B04 (0-2)	Solid	04/22/20 13:55	04/22/20 17:00	

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

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - DesPlaines & Niles - WO 068A

Job ID: 500-181052-1

Client Sample ID: 3229V-6-B04 (0-2)

Lab Sample ID: 500-181052-1

Date Collected: 04/22/20 13:55

Matrix: Solid

Date Received: 04/22/20 17:00

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.049		0.016	0.0070	mg/Kg	☼	04/23/20 17:25	04/30/20 15:59	1
Benzene	<0.00041		0.0016	0.00041	mg/Kg	☼	04/23/20 17:25	04/30/20 15:59	1
Bromodichloromethane	<0.00033		0.0016	0.00033	mg/Kg	☼	04/23/20 17:25	04/30/20 15:59	1
Bromoform	<0.00047		0.0016	0.00047	mg/Kg	☼	04/23/20 17:25	04/30/20 15:59	1
Bromomethane	<0.0015		0.0040	0.0015	mg/Kg	☼	04/23/20 17:25	04/30/20 15:59	1
2-Butanone (MEK)	<0.0018		0.0040	0.0018	mg/Kg	☼	04/23/20 17:25	04/30/20 15:59	1
Carbon disulfide	<0.00083		0.0040	0.00083	mg/Kg	☼	04/23/20 17:25	04/30/20 15:59	1
Carbon tetrachloride	<0.00047		0.0016	0.00047	mg/Kg	☼	04/23/20 17:25	04/30/20 15:59	1
Chlorobenzene	<0.00059		0.0016	0.00059	mg/Kg	☼	04/23/20 17:25	04/30/20 15:59	1
Chloroethane	<0.0012		0.0040	0.0012	mg/Kg	☼	04/23/20 17:25	04/30/20 15:59	1
Chloroform	<0.00056		0.0016	0.00056	mg/Kg	☼	04/23/20 17:25	04/30/20 15:59	1
Chloromethane	<0.0016		0.0040	0.0016	mg/Kg	☼	04/23/20 17:25	04/30/20 15:59	1
cis-1,2-Dichloroethene	<0.00045		0.0016	0.00045	mg/Kg	☼	04/23/20 17:25	04/30/20 15:59	1
cis-1,3-Dichloropropene	<0.00048		0.0016	0.00048	mg/Kg	☼	04/23/20 17:25	04/30/20 15:59	1
Dibromochloromethane	<0.00052		0.0016	0.00052	mg/Kg	☼	04/23/20 17:25	04/30/20 15:59	1
1,1-Dichloroethane	<0.00055		0.0016	0.00055	mg/Kg	☼	04/23/20 17:25	04/30/20 15:59	1
1,2-Dichloroethane	<0.0013		0.0040	0.0013	mg/Kg	☼	04/23/20 17:25	04/30/20 15:59	1
1,1-Dichloroethene	<0.00055		0.0016	0.00055	mg/Kg	☼	04/23/20 17:25	04/30/20 15:59	1
1,2-Dichloropropane	<0.00041		0.0016	0.00041	mg/Kg	☼	04/23/20 17:25	04/30/20 15:59	1
1,3-Dichloropropane, Total	<0.00056		0.0016	0.00056	mg/Kg	☼	04/23/20 17:25	04/30/20 15:59	1
Ethylbenzene	<0.00077		0.0016	0.00077	mg/Kg	☼	04/23/20 17:25	04/30/20 15:59	1
2-Hexanone	<0.0013		0.0040	0.0013	mg/Kg	☼	04/23/20 17:25	04/30/20 15:59	1
Methylene Chloride	<0.0016		0.0040	0.0016	mg/Kg	☼	04/23/20 17:25	04/30/20 15:59	1
4-Methyl-2-pentanone (MIBK)	<0.0012		0.0040	0.0012	mg/Kg	☼	04/23/20 17:25	04/30/20 15:59	1
Methyl tert-butyl ether	<0.00047		0.0016	0.00047	mg/Kg	☼	04/23/20 17:25	04/30/20 15:59	1
Styrene	<0.00048		0.0016	0.00048	mg/Kg	☼	04/23/20 17:25	04/30/20 15:59	1
1,1,2,2-Tetrachloroethane	<0.00051		0.0016	0.00051	mg/Kg	☼	04/23/20 17:25	04/30/20 15:59	1
Tetrachloroethene	<0.00055		0.0016	0.00055	mg/Kg	☼	04/23/20 17:25	04/30/20 15:59	1
Toluene	<0.00041		0.0016	0.00041	mg/Kg	☼	04/23/20 17:25	04/30/20 15:59	1
trans-1,2-Dichloroethene	<0.00071		0.0016	0.00071	mg/Kg	☼	04/23/20 17:25	04/30/20 15:59	1
trans-1,3-Dichloropropene	<0.00056		0.0016	0.00056	mg/Kg	☼	04/23/20 17:25	04/30/20 15:59	1
1,1,1-Trichloroethane	<0.00054		0.0016	0.00054	mg/Kg	☼	04/23/20 17:25	04/30/20 15:59	1
1,1,2-Trichloroethane	<0.00069		0.0016	0.00069	mg/Kg	☼	04/23/20 17:25	04/30/20 15:59	1
Trichloroethene	<0.00054		0.0016	0.00054	mg/Kg	☼	04/23/20 17:25	04/30/20 15:59	1
Vinyl acetate	<0.0014		0.0040	0.0014	mg/Kg	☼	04/23/20 17:25	04/30/20 15:59	1
Vinyl chloride	<0.00071		0.0016	0.00071	mg/Kg	☼	04/23/20 17:25	04/30/20 15:59	1
Xylenes, Total	<0.00051		0.0032	0.00051	mg/Kg	☼	04/23/20 17:25	04/30/20 15:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		75 - 131	04/23/20 17:25	04/30/20 15:59	1
Dibromofluoromethane	100		75 - 126	04/23/20 17:25	04/30/20 15:59	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	04/23/20 17:25	04/30/20 15:59	1
Toluene-d8 (Surr)	94		75 - 124	04/23/20 17:25	04/30/20 15:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.024	J	0.038	0.0069	mg/Kg	☼	04/29/20 16:10	05/01/20 06:02	1
Acenaphthylene	0.010	J	0.038	0.0051	mg/Kg	☼	04/29/20 16:10	05/01/20 06:02	1
Anthracene	0.083		0.038	0.0064	mg/Kg	☼	04/29/20 16:10	05/01/20 06:02	1
Benzo[a]anthracene	0.51		0.038	0.0052	mg/Kg	☼	04/29/20 16:10	05/01/20 06:02	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - DesPlaines & Niles - WO 068A

Job ID: 500-181052-1

Client Sample ID: 3229V-6-B04 (0-2)

Lab Sample ID: 500-181052-1

Date Collected: 04/22/20 13:55

Matrix: Solid

Date Received: 04/22/20 17:00

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.77		0.038	0.0075	mg/Kg	☼	04/29/20 16:10	05/01/20 06:02	1
Benzo[b]fluoranthene	1.3		0.038	0.0083	mg/Kg	☼	04/29/20 16:10	05/01/20 06:02	1
Benzo[g,h,i]perylene	0.38		0.038	0.012	mg/Kg	☼	04/29/20 16:10	05/01/20 06:02	1
Benzo[k]fluoranthene	0.41		0.038	0.011	mg/Kg	☼	04/29/20 16:10	05/01/20 06:02	1
Bis(2-chloroethoxy)methane	<0.039		0.19	0.039	mg/Kg	☼	04/29/20 16:10	05/01/20 06:02	1
Bis(2-chloroethyl)ether	<0.058		0.19	0.058	mg/Kg	☼	04/29/20 16:10	05/01/20 06:02	1
Bis(2-ethylhexyl) phthalate	0.077	J	0.19	0.070	mg/Kg	☼	04/29/20 16:10	05/01/20 06:02	1
4-Bromophenyl phenyl ether	<0.051		0.19	0.051	mg/Kg	☼	04/29/20 16:10	05/01/20 06:02	1
Butyl benzyl phthalate	<0.073		0.19	0.073	mg/Kg	☼	04/29/20 16:10	05/01/20 06:02	1
Carbazole	<0.096		0.19	0.096	mg/Kg	☼	04/29/20 16:10	05/01/20 06:02	1
4-Chloroaniline	<0.18		0.78	0.18	mg/Kg	☼	04/29/20 16:10	05/01/20 06:02	1
4-Chloro-3-methylphenol	<0.13		0.38	0.13	mg/Kg	☼	04/29/20 16:10	05/01/20 06:02	1
2-Chloronaphthalene	<0.043		0.19	0.043	mg/Kg	☼	04/29/20 16:10	05/01/20 06:02	1
2-Chlorophenol	<0.066		0.19	0.066	mg/Kg	☼	04/29/20 16:10	05/01/20 06:02	1
4-Chlorophenyl phenyl ether	<0.045		0.19	0.045	mg/Kg	☼	04/29/20 16:10	05/01/20 06:02	1
Chrysene	0.70		0.038	0.011	mg/Kg	☼	04/29/20 16:10	05/01/20 06:02	1
Dibenz(a,h)anthracene	0.088		0.038	0.0074	mg/Kg	☼	04/29/20 16:10	05/01/20 06:02	1
Dibenzofuran	<0.045		0.19	0.045	mg/Kg	☼	04/29/20 16:10	05/01/20 06:02	1
1,2-Dichlorobenzene	<0.046		0.19	0.046	mg/Kg	☼	04/29/20 16:10	05/01/20 06:02	1
1,3-Dichlorobenzene	<0.043		0.19	0.043	mg/Kg	☼	04/29/20 16:10	05/01/20 06:02	1
1,4-Dichlorobenzene	<0.049		0.19	0.049	mg/Kg	☼	04/29/20 16:10	05/01/20 06:02	1
3,3'-Dichlorobenzidine	<0.054		0.19	0.054	mg/Kg	☼	04/29/20 16:10	05/01/20 06:02	1
2,4-Dichlorophenol	<0.092		0.38	0.092	mg/Kg	☼	04/29/20 16:10	05/01/20 06:02	1
Diethyl phthalate	<0.065		0.19	0.065	mg/Kg	☼	04/29/20 16:10	05/01/20 06:02	1
2,4-Dimethylphenol	<0.15		0.38	0.15	mg/Kg	☼	04/29/20 16:10	05/01/20 06:02	1
Dimethyl phthalate	<0.050		0.19	0.050	mg/Kg	☼	04/29/20 16:10	05/01/20 06:02	1
Di-n-butyl phthalate	<0.059		0.19	0.059	mg/Kg	☼	04/29/20 16:10	05/01/20 06:02	1
4,6-Dinitro-2-methylphenol	<0.31		0.78	0.31	mg/Kg	☼	04/29/20 16:10	05/01/20 06:02	1
2,4-Dinitrophenol	<0.68		0.78	0.68	mg/Kg	☼	04/29/20 16:10	05/01/20 06:02	1
2,4-Dinitrotoluene	<0.061		0.19	0.061	mg/Kg	☼	04/29/20 16:10	05/01/20 06:02	1
2,6-Dinitrotoluene	<0.076		0.19	0.076	mg/Kg	☼	04/29/20 16:10	05/01/20 06:02	1
Di-n-octyl phthalate	<0.063		0.19	0.063	mg/Kg	☼	04/29/20 16:10	05/01/20 06:02	1
Fluoranthene	1.2		0.038	0.0071	mg/Kg	☼	04/29/20 16:10	05/01/20 06:02	1
Fluorene	0.024	J	0.038	0.0054	mg/Kg	☼	04/29/20 16:10	05/01/20 06:02	1
Hexachlorobenzene	<0.0089		0.078	0.0089	mg/Kg	☼	04/29/20 16:10	05/01/20 06:02	1
Hexachlorobutadiene	<0.061		0.19	0.061	mg/Kg	☼	04/29/20 16:10	05/01/20 06:02	1
Hexachlorocyclopentadiene	<0.22		0.78	0.22	mg/Kg	☼	04/29/20 16:10	05/01/20 06:02	1
Hexachloroethane	<0.059		0.19	0.059	mg/Kg	☼	04/29/20 16:10	05/01/20 06:02	1
Indeno[1,2,3-cd]pyrene	0.30		0.038	0.010	mg/Kg	☼	04/29/20 16:10	05/01/20 06:02	1
Isophorone	<0.043		0.19	0.043	mg/Kg	☼	04/29/20 16:10	05/01/20 06:02	1
2-Methylnaphthalene	0.035	J	0.078	0.0071	mg/Kg	☼	04/29/20 16:10	05/01/20 06:02	1
2-Methylphenol	<0.062		0.19	0.062	mg/Kg	☼	04/29/20 16:10	05/01/20 06:02	1
3 & 4 Methylphenol	<0.064		0.19	0.064	mg/Kg	☼	04/29/20 16:10	05/01/20 06:02	1
Naphthalene	0.022	J	0.038	0.0059	mg/Kg	☼	04/29/20 16:10	05/01/20 06:02	1
2-Nitroaniline	<0.052		0.19	0.052	mg/Kg	☼	04/29/20 16:10	05/01/20 06:02	1
3-Nitroaniline	<0.12		0.38	0.12	mg/Kg	☼	04/29/20 16:10	05/01/20 06:02	1
4-Nitroaniline	<0.16		0.38	0.16	mg/Kg	☼	04/29/20 16:10	05/01/20 06:02	1
Nitrobenzene	<0.0096		0.038	0.0096	mg/Kg	☼	04/29/20 16:10	05/01/20 06:02	1
2-Nitrophenol	<0.091		0.38	0.091	mg/Kg	☼	04/29/20 16:10	05/01/20 06:02	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - DesPlaines & Niles - WO 068A

Job ID: 500-181052-1

Client Sample ID: 3229V-6-B04 (0-2)

Lab Sample ID: 500-181052-1

Date Collected: 04/22/20 13:55

Matrix: Solid

Date Received: 04/22/20 17:00

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.37		0.78	0.37	mg/Kg	☼	04/29/20 16:10	05/01/20 06:02	1
N-Nitrosodi-n-propylamine	<0.047		0.078	0.047	mg/Kg	☼	04/29/20 16:10	05/01/20 06:02	1
N-Nitrosodiphenylamine	<0.045		0.19	0.045	mg/Kg	☼	04/29/20 16:10	05/01/20 06:02	1
2,2'-oxybis[1-chloropropane]	<0.045		0.19	0.045	mg/Kg	☼	04/29/20 16:10	05/01/20 06:02	1
Pentachlorophenol	<0.62		0.78	0.62	mg/Kg	☼	04/29/20 16:10	05/01/20 06:02	1
Phenanthrene	0.54		0.038	0.0054	mg/Kg	☼	04/29/20 16:10	05/01/20 06:02	1
Phenol	<0.086		0.19	0.086	mg/Kg	☼	04/29/20 16:10	05/01/20 06:02	1
Pyrene	1.4		0.038	0.0077	mg/Kg	☼	04/29/20 16:10	05/01/20 06:02	1
1,2,4-Trichlorobenzene	<0.042		0.19	0.042	mg/Kg	☼	04/29/20 16:10	05/01/20 06:02	1
2,4,5-Trichlorophenol	<0.088		0.38	0.088	mg/Kg	☼	04/29/20 16:10	05/01/20 06:02	1
2,4,6-Trichlorophenol	<0.13		0.38	0.13	mg/Kg	☼	04/29/20 16:10	05/01/20 06:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	78		43 - 145	04/29/20 16:10	05/01/20 06:02	1
2-Fluorophenol	118		31 - 166	04/29/20 16:10	05/01/20 06:02	1
Nitrobenzene-d5	80		37 - 147	04/29/20 16:10	05/01/20 06:02	1
Phenol-d5	100		30 - 153	04/29/20 16:10	05/01/20 06:02	1
Terphenyl-d14	134		42 - 157	04/29/20 16:10	05/01/20 06:02	1
2,4,6-Tribromophenol	84		31 - 143	04/29/20 16:10	05/01/20 06:02	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.87	J F1	1.1	0.22	mg/Kg	☼	04/23/20 18:16	04/24/20 08:49	1
Arsenic	5.4		0.57	0.20	mg/Kg	☼	04/23/20 18:16	04/24/20 08:49	1
Barium	64	F1	0.57	0.065	mg/Kg	☼	04/23/20 18:16	04/24/20 08:49	1
Beryllium	0.69		0.23	0.054	mg/Kg	☼	04/23/20 18:16	04/24/20 08:49	1
Cadmium	0.19	B	0.11	0.021	mg/Kg	☼	04/23/20 18:16	04/24/20 08:49	1
Chromium	21		0.57	0.28	mg/Kg	☼	04/23/20 18:16	04/24/20 08:49	1
Cobalt	11		0.29	0.075	mg/Kg	☼	04/23/20 18:16	04/24/20 08:49	1
Copper	29		0.57	0.16	mg/Kg	☼	04/23/20 18:16	04/24/20 08:49	1
Iron	16000		11	6.0	mg/Kg	☼	04/23/20 18:16	04/24/20 08:49	1
Lead	21		0.29	0.13	mg/Kg	☼	04/23/20 18:16	04/24/20 08:49	1
Magnesium	34000	F2	5.7	2.8	mg/Kg	☼	04/23/20 18:16	04/24/20 08:49	1
Calcium	78000	F2	110	19	mg/Kg	☼	04/23/20 18:16	04/24/20 10:17	10
Manganese	400		0.57	0.083	mg/Kg	☼	04/23/20 18:16	04/24/20 08:49	1
Nickel	27		0.57	0.17	mg/Kg	☼	04/23/20 18:16	04/24/20 08:49	1
Selenium	<0.34		0.57	0.34	mg/Kg	☼	04/23/20 18:16	04/24/20 08:49	1
Silver	0.20	J	0.29	0.074	mg/Kg	☼	04/23/20 18:16	04/24/20 08:49	1
Thallium	0.43	J	0.57	0.29	mg/Kg	☼	04/23/20 18:16	04/24/20 08:49	1
Vanadium	20		0.29	0.068	mg/Kg	☼	04/23/20 18:16	04/24/20 08:49	1
Zinc	86		1.1	0.50	mg/Kg	☼	04/23/20 18:16	04/24/20 08:49	1
Potassium	2600		29	10	mg/Kg	☼	04/23/20 18:16	04/24/20 08:49	1
Sodium	1600	F1	57	8.5	mg/Kg	☼	04/23/20 18:16	04/24/20 08:49	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		04/30/20 06:00	04/30/20 17:32	1
Barium	0.57		0.50	0.050	mg/L		04/30/20 06:00	04/30/20 17:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/30/20 06:00	04/30/20 17:32	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		04/30/20 06:00	04/30/20 17:32	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - DesPlaines & Niles - WO 068A

Job ID: 500-181052-1

Client Sample ID: 3229V-6-B04 (0-2)

Lab Sample ID: 500-181052-1

Date Collected: 04/22/20 13:55

Matrix: Solid

Date Received: 04/22/20 17:00

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	540		5.0	0.50	mg/L		04/30/20 06:00	04/30/20 17:32	1
Chromium	<0.010		0.025	0.010	mg/L		04/30/20 06:00	04/30/20 17:32	1
Cobalt	<0.010		0.025	0.010	mg/L		04/30/20 06:00	04/30/20 17:32	1
Copper	<0.010		0.025	0.010	mg/L		04/30/20 06:00	04/30/20 17:32	1
Iron	<0.20		0.40	0.20	mg/L		04/30/20 06:00	04/30/20 17:32	1
Lead	<0.0075		0.0075	0.0075	mg/L		04/30/20 06:00	04/30/20 17:32	1
Magnesium	43		2.5	0.50	mg/L		04/30/20 06:00	04/30/20 17:32	1
Manganese	1.6		0.025	0.010	mg/L		04/30/20 06:00	04/30/20 17:32	1
Nickel	0.011	J	0.025	0.010	mg/L		04/30/20 06:00	04/30/20 17:32	1
Potassium	3.1		2.5	0.50	mg/L		04/30/20 06:00	04/30/20 17:32	1
Selenium	<0.020		0.050	0.020	mg/L		04/30/20 06:00	04/30/20 17:32	1
Silver	<0.010		0.025	0.010	mg/L		04/30/20 06:00	04/30/20 17:32	1
Vanadium	<0.010		0.025	0.010	mg/L		04/30/20 06:00	04/30/20 17:32	1
Zinc	0.039	J	0.50	0.020	mg/L		04/30/20 06:00	04/30/20 17:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.2		0.025	0.010	mg/L		04/30/20 06:00	04/30/20 19:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		04/30/20 06:00	05/01/20 16:56	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/30/20 06:00	05/01/20 16:56	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		04/30/20 10:10	05/01/20 10:29	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	J	0.019	0.0064	mg/Kg	☼	04/24/20 14:15	04/27/20 08:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.29		0.59	0.29	mg/Kg	☼	05/01/20 08:50	05/01/20 14:13	1
pH	9.0		0.2	0.2	SU			04/23/20 17:53	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - DesPlaines & Niles - WO 068A

Job ID: 500-181052-1

Qualifiers

GC/MS Semi VOA

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

Metals

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

Glossary

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

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - DesPlaines & Niles - WO 068A

Job ID: 500-181052-1

GC/MS VOA

Prep Batch: 540395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181052-1	3229V-6-B04 (0-2)	Total/NA	Solid	5035	

Analysis Batch: 540448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181052-1	3229V-6-B04 (0-2)	Total/NA	Solid	8260B	540395
MB 500-540448/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-540448/4	Lab Control Sample	Total/NA	Solid	8260B	
LCS 500-540448/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 540344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181052-1	3229V-6-B04 (0-2)	Total/NA	Solid	3541	
MB 500-540344/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-540344/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 540463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-540344/1-A	Method Blank	Total/NA	Solid	8270D	540344
LCS 500-540344/2-A	Lab Control Sample	Total/NA	Solid	8270D	540344

Analysis Batch: 540607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181052-1	3229V-6-B04 (0-2)	Total/NA	Solid	8270D	540344

Metals

Prep Batch: 539552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181052-1	3229V-6-B04 (0-2)	Total/NA	Solid	3050B	
MB 500-539552/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-539552/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-181052-1 MS	3229V-6-B04 (0-2)	Total/NA	Solid	3050B	
500-181052-1 MSD	3229V-6-B04 (0-2)	Total/NA	Solid	3050B	
500-181052-1 DU	3229V-6-B04 (0-2)	Total/NA	Solid	3050B	

Prep Batch: 539665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181052-1	3229V-6-B04 (0-2)	Total/NA	Solid	7471B	
MB 500-539665/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-539665/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 539677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181052-1	3229V-6-B04 (0-2)	Total/NA	Solid	6010B	539552
500-181052-1	3229V-6-B04 (0-2)	Total/NA	Solid	6010B	539552
MB 500-539552/1-A	Method Blank	Total/NA	Solid	6010B	539552
LCS 500-539552/2-A	Lab Control Sample	Total/NA	Solid	6010B	539552
500-181052-1 MS	3229V-6-B04 (0-2)	Total/NA	Solid	6010B	539552
500-181052-1 MS	3229V-6-B04 (0-2)	Total/NA	Solid	6010B	539552
500-181052-1 MSD	3229V-6-B04 (0-2)	Total/NA	Solid	6010B	539552

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - DesPlaines & Niles - WO 068A

Job ID: 500-181052-1

Metals (Continued)

Analysis Batch: 539677 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181052-1 MSD	3229V-6-B04 (0-2)	Total/NA	Solid	6010B	539552
500-181052-1 DU	3229V-6-B04 (0-2)	Total/NA	Solid	6010B	539552
500-181052-1 DU	3229V-6-B04 (0-2)	Total/NA	Solid	6010B	539552

Analysis Batch: 539887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181052-1	3229V-6-B04 (0-2)	Total/NA	Solid	7471B	539665
MB 500-539665/12-A	Method Blank	Total/NA	Solid	7471B	539665
LCS 500-539665/13-A	Lab Control Sample	Total/NA	Solid	7471B	539665

Leach Batch: 540120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181052-1	3229V-6-B04 (0-2)	SPLP East	Solid	1312	
LB 500-540120/1-B	Method Blank	SPLP East	Solid	1312	

Leach Batch: 540121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181052-1	3229V-6-B04 (0-2)	TCLP	Solid	1311	
LB 500-540121/1-B	Method Blank	TCLP	Solid	1311	
LB 500-540121/1-C	Method Blank	TCLP	Solid	1311	

Prep Batch: 540406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181052-1	3229V-6-B04 (0-2)	SPLP East	Solid	3010A	540120
LB 500-540120/1-B	Method Blank	SPLP East	Solid	3010A	540120
LCS 500-540406/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 540407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181052-1	3229V-6-B04 (0-2)	TCLP	Solid	3010A	540121
LB 500-540121/1-B	Method Blank	TCLP	Solid	3010A	540121
LCS 500-540407/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 540514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181052-1	3229V-6-B04 (0-2)	TCLP	Solid	7470A	540121
LB 500-540121/1-C	Method Blank	TCLP	Solid	7470A	540121
MB 500-540514/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-540514/15-A	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 540617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181052-1	3229V-6-B04 (0-2)	SPLP East	Solid	6010B	540406
500-181052-1	3229V-6-B04 (0-2)	TCLP	Solid	6010B	540407
LB 500-540120/1-B	Method Blank	SPLP East	Solid	6010B	540406
LB 500-540121/1-B	Method Blank	TCLP	Solid	6010B	540407
LCS 500-540406/2-A	Lab Control Sample	Total/NA	Solid	6010B	540406
LCS 500-540407/2-A	Lab Control Sample	Total/NA	Solid	6010B	540407

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - DesPlaines & Niles - WO 068A

Job ID: 500-181052-1

Metals

Analysis Batch: 540721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181052-1	3229V-6-B04 (0-2)	TCLP	Solid	7470A	540514
LB 500-540121/1-C	Method Blank	TCLP	Solid	7470A	540514
MB 500-540514/12-A	Method Blank	Total/NA	Solid	7470A	540514
LCS 500-540514/15-A	Lab Control Sample	Total/NA	Solid	7470A	540514

Analysis Batch: 540867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181052-1	3229V-6-B04 (0-2)	TCLP	Solid	6020A	540407
LB 500-540121/1-B	Method Blank	TCLP	Solid	6020A	540407
LCS 500-540407/2-A	Lab Control Sample	Total/NA	Solid	6020A	540407

General Chemistry

Analysis Batch: 539515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181052-1	3229V-6-B04 (0-2)	Total/NA	Solid	Moisture	

Analysis Batch: 539636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181052-1	3229V-6-B04 (0-2)	Total/NA	Solid	9045D	
LCS 500-539636/2	Lab Control Sample	Total/NA	Solid	9045D	
LCS 500-539636/3	Lab Control Sample Dup	Total/NA	Solid	9045D	
500-181052-1 DU	3229V-6-B04 (0-2)	Total/NA	Solid	9045D	

Prep Batch: 540679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181052-1	3229V-6-B04 (0-2)	Total/NA	Solid	9010B	
MB 500-540679/1-A	Method Blank	Total/NA	Solid	9010B	
LCS 500-540679/2-A	Lab Control Sample	Total/NA	Solid	9010B	
500-181052-1 MS	3229V-6-B04 (0-2)	Total/NA	Solid	9010B	
500-181052-1 MSD	3229V-6-B04 (0-2)	Total/NA	Solid	9010B	

Analysis Batch: 540738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181052-1	3229V-6-B04 (0-2)	Total/NA	Solid	9014	540679
MB 500-540679/1-A	Method Blank	Total/NA	Solid	9014	540679
LCS 500-540679/2-A	Lab Control Sample	Total/NA	Solid	9014	540679
500-181052-1 MS	3229V-6-B04 (0-2)	Total/NA	Solid	9014	540679
500-181052-1 MSD	3229V-6-B04 (0-2)	Total/NA	Solid	9014	540679

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - DesPlaines & Niles - WO 068A

Job ID: 500-181052-1

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB (75-131)	DBFM (75-126)	DCA (70-134)	TOL (75-124)
500-181052-1	3229V-6-B04 (0-2)	101	100	91	94
LCS 500-540448/4	Lab Control Sample	88	100	95	107
LCSD 500-540448/5	Lab Control Sample Dup	99	97	96	107
MB 500-540448/7	Method Blank	97	88	80	92

Surrogate Legend

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

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	FBP (43-145)	2FP (31-166)	NBZ (37-147)	PHL (30-153)	TPHL (42-157)	TBP (31-143)
500-181052-1	3229V-6-B04 (0-2)	78	118	80	100	134	84
LCS 500-540344/2-A	Lab Control Sample	87	129	91	107	102	97
MB 500-540344/1-A	Method Blank	85	125	85	101	106	60

Surrogate Legend

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPHL = Terphenyl-d14
TBP = 2,4,6-Tribromophenol

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - DesPlaines & Niles - WO 068A

Job ID: 500-181052-1

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

Lab Sample ID: MB 500-540448/7
Matrix: Solid
Analysis Batch: 540448

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.0087		0.020	0.0087	mg/Kg			04/30/20 12:07	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg			04/30/20 12:07	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg			04/30/20 12:07	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg			04/30/20 12:07	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg			04/30/20 12:07	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			04/30/20 12:07	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg			04/30/20 12:07	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg			04/30/20 12:07	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg			04/30/20 12:07	1
Chloroethane	<0.0015		0.0050	0.0015	mg/Kg			04/30/20 12:07	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg			04/30/20 12:07	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg			04/30/20 12:07	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg			04/30/20 12:07	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg			04/30/20 12:07	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg			04/30/20 12:07	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg			04/30/20 12:07	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg			04/30/20 12:07	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg			04/30/20 12:07	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			04/30/20 12:07	1
1,3-Dichloropropene, Total	<0.00070		0.0020	0.00070	mg/Kg			04/30/20 12:07	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg			04/30/20 12:07	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg			04/30/20 12:07	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg			04/30/20 12:07	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg			04/30/20 12:07	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg			04/30/20 12:07	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg			04/30/20 12:07	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg			04/30/20 12:07	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg			04/30/20 12:07	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg			04/30/20 12:07	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg			04/30/20 12:07	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg			04/30/20 12:07	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg			04/30/20 12:07	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg			04/30/20 12:07	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg			04/30/20 12:07	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg			04/30/20 12:07	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg			04/30/20 12:07	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg			04/30/20 12:07	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	97		75 - 131		04/30/20 12:07	1
Dibromofluoromethane	88		75 - 126		04/30/20 12:07	1
1,2-Dichloroethane-d4 (Surr)	80		70 - 134		04/30/20 12:07	1
Toluene-d8 (Surr)	92		75 - 124		04/30/20 12:07	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - DesPlaines & Niles - WO 068A

Job ID: 500-181052-1

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

Lab Sample ID: LCS 500-540448/4
Matrix: Solid
Analysis Batch: 540448

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	0.0400		mg/Kg		80	40 - 150
Benzene	0.0500	0.0535		mg/Kg		107	70 - 125
Bromodichloromethane	0.0500	0.0541		mg/Kg		108	67 - 129
Bromoform	0.0500	0.0504		mg/Kg		101	68 - 136
Bromomethane	0.0500	0.0474		mg/Kg		95	70 - 130
2-Butanone (MEK)	0.0500	0.0439		mg/Kg		88	47 - 138
Carbon disulfide	0.0500	0.0596		mg/Kg		119	70 - 129
Carbon tetrachloride	0.0500	0.0513		mg/Kg		103	75 - 125
Chlorobenzene	0.0500	0.0520		mg/Kg		104	50 - 150
Chloroethane	0.0500	0.0608		mg/Kg		122	75 - 125
Chloroform	0.0500	0.0568		mg/Kg		114	57 - 135
Chloromethane	0.0500	0.0534		mg/Kg		107	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0583		mg/Kg		117	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0561		mg/Kg		112	70 - 125
Dibromochloromethane	0.0500	0.0527		mg/Kg		105	69 - 125
1,1-Dichloroethane	0.0500	0.0576		mg/Kg		115	70 - 125
1,2-Dichloroethane	0.0500	0.0544		mg/Kg		109	70 - 130
1,1-Dichloroethene	0.0500	0.0571		mg/Kg		114	70 - 120
1,2-Dichloropropane	0.0500	0.0512		mg/Kg		102	70 - 125
Ethylbenzene	0.0500	0.0532		mg/Kg		106	61 - 136
2-Hexanone	0.0500	0.0490		mg/Kg		98	48 - 146
Methylene Chloride	0.0500	0.0551		mg/Kg		110	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0474		mg/Kg		95	50 - 148
Methyl tert-butyl ether	0.0500	0.0517		mg/Kg		103	50 - 140
Styrene	0.0500	0.0542		mg/Kg		108	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0450		mg/Kg		90	70 - 122
Tetrachloroethene	0.0500	0.0577		mg/Kg		115	70 - 124
Toluene	0.0500	0.0596		mg/Kg		119	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0565		mg/Kg		113	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0568		mg/Kg		114	70 - 125
1,1,1-Trichloroethane	0.0500	0.0548		mg/Kg		110	70 - 128
1,1,2-Trichloroethane	0.0500	0.0585		mg/Kg		117	70 - 125
Trichloroethene	0.0500	0.0528		mg/Kg		106	70 - 125
Vinyl acetate	0.0500	0.0526		mg/Kg		105	40 - 153
Vinyl chloride	0.0500	0.0553		mg/Kg		111	70 - 125
Xylenes, Total	0.100	0.105		mg/Kg		105	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	88		75 - 131
Dibromofluoromethane	100		75 - 126
1,2-Dichloroethane-d4 (Surr)	95		70 - 134
Toluene-d8 (Surr)	107		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - DesPlaines & Niles - WO 068A

Job ID: 500-181052-1

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

Lab Sample ID: LCSD 500-540448/5

Matrix: Solid

Analysis Batch: 540448

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	0.0391		mg/Kg		78	40 - 150	2	30
Benzene	0.0500	0.0536		mg/Kg		107	70 - 125	0	30
Bromodichloromethane	0.0500	0.0550		mg/Kg		110	67 - 129	2	30
Bromoform	0.0500	0.0495		mg/Kg		99	68 - 136	2	30
Bromomethane	0.0500	0.0461		mg/Kg		92	70 - 130	3	30
2-Butanone (MEK)	0.0500	0.0457		mg/Kg		91	47 - 138	4	30
Carbon disulfide	0.0500	0.0583		mg/Kg		117	70 - 129	2	30
Carbon tetrachloride	0.0500	0.0525		mg/Kg		105	75 - 125	2	30
Chlorobenzene	0.0500	0.0526		mg/Kg		105	50 - 150	1	30
Chloroethane	0.0500	0.0577		mg/Kg		115	75 - 125	5	30
Chloroform	0.0500	0.0579		mg/Kg		116	57 - 135	2	30
Chloromethane	0.0500	0.0511		mg/Kg		102	70 - 125	4	30
cis-1,2-Dichloroethene	0.0500	0.0561		mg/Kg		112	70 - 125	4	30
cis-1,3-Dichloropropene	0.0500	0.0577		mg/Kg		115	70 - 125	3	30
Dibromochloromethane	0.0500	0.0555		mg/Kg		111	69 - 125	5	30
1,1-Dichloroethane	0.0500	0.0593		mg/Kg		119	70 - 125	3	30
1,2-Dichloroethane	0.0500	0.0555		mg/Kg		111	70 - 130	2	30
1,1-Dichloroethene	0.0500	0.0518		mg/Kg		104	70 - 120	10	30
1,2-Dichloropropane	0.0500	0.0525		mg/Kg		105	70 - 125	2	30
Ethylbenzene	0.0500	0.0533		mg/Kg		107	61 - 136	0	30
2-Hexanone	0.0500	0.0512		mg/Kg		102	48 - 146	4	30
Methylene Chloride	0.0500	0.0574		mg/Kg		115	70 - 126	4	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0496		mg/Kg		99	50 - 148	4	30
Methyl tert-butyl ether	0.0500	0.0539		mg/Kg		108	50 - 140	4	30
Styrene	0.0500	0.0516		mg/Kg		103	70 - 125	5	30
1,1,2,2-Tetrachloroethane	0.0500	0.0514		mg/Kg		103	70 - 122	13	30
Tetrachloroethene	0.0500	0.0585		mg/Kg		117	70 - 124	2	30
Toluene	0.0500	0.0563		mg/Kg		113	70 - 125	6	30
trans-1,2-Dichloroethene	0.0500	0.0583		mg/Kg		117	70 - 125	3	30
trans-1,3-Dichloropropene	0.0500	0.0566		mg/Kg		113	70 - 125	0	30
1,1,1-Trichloroethane	0.0500	0.0560		mg/Kg		112	70 - 128	2	30
1,1,2-Trichloroethane	0.0500	0.0579		mg/Kg		116	70 - 125	1	30
Trichloroethene	0.0500	0.0536		mg/Kg		107	70 - 125	1	30
Vinyl acetate	0.0500	0.0523		mg/Kg		105	40 - 153	0	30
Vinyl chloride	0.0500	0.0543		mg/Kg		109	70 - 125	2	30
Xylenes, Total	0.100	0.0994		mg/Kg		99	53 - 147	5	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	99		75 - 131
Dibromofluoromethane	97		75 - 126
1,2-Dichloroethane-d4 (Surr)	96		70 - 134
Toluene-d8 (Surr)	107		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - DesPlaines & Niles - WO 068A

Job ID: 500-181052-1

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

Lab Sample ID: MB 500-540344/1-A
Matrix: Solid
Analysis Batch: 540463

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 540344

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0060		0.033	0.0060	mg/Kg		04/29/20 16:10	04/30/20 10:39	1
Acenaphthylene	<0.0044		0.033	0.0044	mg/Kg		04/29/20 16:10	04/30/20 10:39	1
Anthracene	<0.0056		0.033	0.0056	mg/Kg		04/29/20 16:10	04/30/20 10:39	1
Benzo[a]anthracene	<0.0045		0.033	0.0045	mg/Kg		04/29/20 16:10	04/30/20 10:39	1
Benzo[a]pyrene	<0.0064		0.033	0.0064	mg/Kg		04/29/20 16:10	04/30/20 10:39	1
Benzo[b]fluoranthene	<0.0072		0.033	0.0072	mg/Kg		04/29/20 16:10	04/30/20 10:39	1
Benzo[g,h,i]perylene	<0.011		0.033	0.011	mg/Kg		04/29/20 16:10	04/30/20 10:39	1
Benzo[k]fluoranthene	<0.0098		0.033	0.0098	mg/Kg		04/29/20 16:10	04/30/20 10:39	1
Bis(2-chloroethoxy)methane	<0.034		0.17	0.034	mg/Kg		04/29/20 16:10	04/30/20 10:39	1
Bis(2-chloroethyl)ether	<0.050		0.17	0.050	mg/Kg		04/29/20 16:10	04/30/20 10:39	1
Bis(2-ethylhexyl) phthalate	<0.061		0.17	0.061	mg/Kg		04/29/20 16:10	04/30/20 10:39	1
4-Bromophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		04/29/20 16:10	04/30/20 10:39	1
Butyl benzyl phthalate	<0.063		0.17	0.063	mg/Kg		04/29/20 16:10	04/30/20 10:39	1
Carbazole	<0.083		0.17	0.083	mg/Kg		04/29/20 16:10	04/30/20 10:39	1
4-Chloroaniline	<0.16		0.67	0.16	mg/Kg		04/29/20 16:10	04/30/20 10:39	1
4-Chloro-3-methylphenol	<0.11		0.33	0.11	mg/Kg		04/29/20 16:10	04/30/20 10:39	1
2-Chloronaphthalene	<0.037		0.17	0.037	mg/Kg		04/29/20 16:10	04/30/20 10:39	1
2-Chlorophenol	<0.057		0.17	0.057	mg/Kg		04/29/20 16:10	04/30/20 10:39	1
4-Chlorophenyl phenyl ether	<0.039		0.17	0.039	mg/Kg		04/29/20 16:10	04/30/20 10:39	1
Chrysene	<0.0091		0.033	0.0091	mg/Kg		04/29/20 16:10	04/30/20 10:39	1
Dibenz(a,h)anthracene	<0.0064		0.033	0.0064	mg/Kg		04/29/20 16:10	04/30/20 10:39	1
Dibenzofuran	<0.039		0.17	0.039	mg/Kg		04/29/20 16:10	04/30/20 10:39	1
1,2-Dichlorobenzene	<0.040		0.17	0.040	mg/Kg		04/29/20 16:10	04/30/20 10:39	1
1,3-Dichlorobenzene	<0.037		0.17	0.037	mg/Kg		04/29/20 16:10	04/30/20 10:39	1
1,4-Dichlorobenzene	<0.043		0.17	0.043	mg/Kg		04/29/20 16:10	04/30/20 10:39	1
3,3'-Dichlorobenzidine	<0.047		0.17	0.047	mg/Kg		04/29/20 16:10	04/30/20 10:39	1
2,4-Dichlorophenol	<0.079		0.33	0.079	mg/Kg		04/29/20 16:10	04/30/20 10:39	1
Diethyl phthalate	<0.056		0.17	0.056	mg/Kg		04/29/20 16:10	04/30/20 10:39	1
2,4-Dimethylphenol	<0.13		0.33	0.13	mg/Kg		04/29/20 16:10	04/30/20 10:39	1
Dimethyl phthalate	<0.043		0.17	0.043	mg/Kg		04/29/20 16:10	04/30/20 10:39	1
Di-n-butyl phthalate	<0.051		0.17	0.051	mg/Kg		04/29/20 16:10	04/30/20 10:39	1
4,6-Dinitro-2-methylphenol	<0.27		0.67	0.27	mg/Kg		04/29/20 16:10	04/30/20 10:39	1
2,4-Dinitrophenol	<0.59		0.67	0.59	mg/Kg		04/29/20 16:10	04/30/20 10:39	1
2,4-Dinitrotoluene	<0.053		0.17	0.053	mg/Kg		04/29/20 16:10	04/30/20 10:39	1
2,6-Dinitrotoluene	<0.065		0.17	0.065	mg/Kg		04/29/20 16:10	04/30/20 10:39	1
Di-n-octyl phthalate	<0.054		0.17	0.054	mg/Kg		04/29/20 16:10	04/30/20 10:39	1
Fluoranthene	<0.0062		0.033	0.0062	mg/Kg		04/29/20 16:10	04/30/20 10:39	1
Fluorene	<0.0047		0.033	0.0047	mg/Kg		04/29/20 16:10	04/30/20 10:39	1
Hexachlorobenzene	<0.0077		0.067	0.0077	mg/Kg		04/29/20 16:10	04/30/20 10:39	1
Hexachlorobutadiene	<0.052		0.17	0.052	mg/Kg		04/29/20 16:10	04/30/20 10:39	1
Hexachlorocyclopentadiene	<0.19		0.67	0.19	mg/Kg		04/29/20 16:10	04/30/20 10:39	1
Hexachloroethane	<0.051		0.17	0.051	mg/Kg		04/29/20 16:10	04/30/20 10:39	1
Indeno[1,2,3-cd]pyrene	<0.0086		0.033	0.0086	mg/Kg		04/29/20 16:10	04/30/20 10:39	1
Isophorone	<0.037		0.17	0.037	mg/Kg		04/29/20 16:10	04/30/20 10:39	1
2-Methylnaphthalene	<0.0061		0.067	0.0061	mg/Kg		04/29/20 16:10	04/30/20 10:39	1
2-Methylphenol	<0.053		0.17	0.053	mg/Kg		04/29/20 16:10	04/30/20 10:39	1
3 & 4 Methylphenol	<0.055		0.17	0.055	mg/Kg		04/29/20 16:10	04/30/20 10:39	1
Naphthalene	<0.0051		0.033	0.0051	mg/Kg		04/29/20 16:10	04/30/20 10:39	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - DesPlaines & Niles - WO 068A

Job ID: 500-181052-1

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

Lab Sample ID: MB 500-540344/1-A
Matrix: Solid
Analysis Batch: 540463

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 540344

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2-Nitroaniline	<0.045		0.17	0.045	mg/Kg		04/29/20 16:10	04/30/20 10:39	1
3-Nitroaniline	<0.10		0.33	0.10	mg/Kg		04/29/20 16:10	04/30/20 10:39	1
4-Nitroaniline	<0.14		0.33	0.14	mg/Kg		04/29/20 16:10	04/30/20 10:39	1
Nitrobenzene	<0.0083		0.033	0.0083	mg/Kg		04/29/20 16:10	04/30/20 10:39	1
2-Nitrophenol	<0.079		0.33	0.079	mg/Kg		04/29/20 16:10	04/30/20 10:39	1
4-Nitrophenol	<0.32		0.67	0.32	mg/Kg		04/29/20 16:10	04/30/20 10:39	1
N-Nitrosodi-n-propylamine	<0.041		0.067	0.041	mg/Kg		04/29/20 16:10	04/30/20 10:39	1
N-Nitrosodiphenylamine	<0.039		0.17	0.039	mg/Kg		04/29/20 16:10	04/30/20 10:39	1
2,2'-oxybis[1-chloropropane]	<0.039		0.17	0.039	mg/Kg		04/29/20 16:10	04/30/20 10:39	1
Pentachlorophenol	<0.53		0.67	0.53	mg/Kg		04/29/20 16:10	04/30/20 10:39	1
Phenanthrene	<0.0046		0.033	0.0046	mg/Kg		04/29/20 16:10	04/30/20 10:39	1
Phenol	<0.074		0.17	0.074	mg/Kg		04/29/20 16:10	04/30/20 10:39	1
Pyrene	<0.0066		0.033	0.0066	mg/Kg		04/29/20 16:10	04/30/20 10:39	1
1,2,4-Trichlorobenzene	<0.036		0.17	0.036	mg/Kg		04/29/20 16:10	04/30/20 10:39	1
2,4,5-Trichlorophenol	<0.076		0.33	0.076	mg/Kg		04/29/20 16:10	04/30/20 10:39	1
2,4,6-Trichlorophenol	<0.11		0.33	0.11	mg/Kg		04/29/20 16:10	04/30/20 10:39	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorobiphenyl	85		43 - 145	04/29/20 16:10	04/30/20 10:39	1
2-Fluorophenol	125		31 - 166	04/29/20 16:10	04/30/20 10:39	1
Nitrobenzene-d5	85		37 - 147	04/29/20 16:10	04/30/20 10:39	1
Phenol-d5	101		30 - 153	04/29/20 16:10	04/30/20 10:39	1
Terphenyl-d14	106		42 - 157	04/29/20 16:10	04/30/20 10:39	1
2,4,6-Tribromophenol	60		31 - 143	04/29/20 16:10	04/30/20 10:39	1

Lab Sample ID: LCS 500-540344/2-A
Matrix: Solid
Analysis Batch: 540463

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 540344

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthylene	1.33	1.16		mg/Kg		87	68 - 120
Anthracene	1.33	1.19		mg/Kg		89	70 - 114
Benzo[a]anthracene	1.33	1.39		mg/Kg		105	67 - 122
Benzo[a]pyrene	1.33	1.44		mg/Kg		108	65 - 133
Benzo[b]fluoranthene	1.33	1.41		mg/Kg		105	69 - 129
Benzo[g,h,i]perylene	1.33	1.51		mg/Kg		113	72 - 131
Benzo[k]fluoranthene	1.33	1.38		mg/Kg		104	68 - 127
Bis(2-chloroethoxy)methane	1.33	1.28		mg/Kg		96	60 - 112
Bis(2-chloroethyl)ether	1.33	1.10		mg/Kg		83	55 - 111
Bis(2-ethylhexyl) phthalate	1.33	1.42		mg/Kg		106	72 - 131
4-Bromophenyl phenyl ether	1.33	1.43		mg/Kg		107	68 - 118
Butyl benzyl phthalate	1.33	1.41		mg/Kg		106	71 - 129
Carbazole	1.33	1.31		mg/Kg		99	65 - 142
4-Chloroaniline	1.33	1.30		mg/Kg		97	30 - 150
4-Chloro-3-methylphenol	1.33	1.46		mg/Kg		110	65 - 122
2-Chloronaphthalene	1.33	1.27		mg/Kg		95	69 - 114
2-Chlorophenol	1.33	1.26		mg/Kg		95	64 - 110

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - DesPlaines & Niles - WO 068A

Job ID: 500-181052-1

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

Lab Sample ID: LCS 500-540344/2-A
Matrix: Solid
Analysis Batch: 540463

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 540344

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
4-Chlorophenyl phenyl ether	1.33	1.35		mg/Kg		101	62 - 119
Chrysene	1.33	1.32		mg/Kg		99	63 - 120
Dibenz(a,h)anthracene	1.33	1.42		mg/Kg		106	64 - 131
Dibenzofuran	1.33	1.18		mg/Kg		88	66 - 115
1,2-Dichlorobenzene	1.33	1.16		mg/Kg		87	62 - 110
1,3-Dichlorobenzene	1.33	1.15		mg/Kg		86	65 - 124
1,4-Dichlorobenzene	1.33	1.15		mg/Kg		86	61 - 110
3,3'-Dichlorobenzidine	1.33	1.25		mg/Kg		94	35 - 128
2,4-Dichlorophenol	1.33	1.41		mg/Kg		106	58 - 120
Diethyl phthalate	1.33	1.31		mg/Kg		98	58 - 120
2,4-Dimethylphenol	1.33	1.36		mg/Kg		102	60 - 110
Dimethyl phthalate	1.33	1.32		mg/Kg		99	69 - 116
Di-n-butyl phthalate	1.33	1.24		mg/Kg		93	65 - 120
4,6-Dinitro-2-methylphenol	2.67	1.11		mg/Kg		42	10 - 110
2,4-Dinitrophenol	2.67	0.645	J	mg/Kg		24	10 - 100
2,4-Dinitrotoluene	1.33	1.48		mg/Kg		111	69 - 124
2,6-Dinitrotoluene	1.33	1.48		mg/Kg		111	70 - 123
Di-n-octyl phthalate	1.33	1.47		mg/Kg		110	68 - 134
Fluoranthene	1.33	1.38		mg/Kg		103	62 - 120
Fluorene	1.33	1.26		mg/Kg		95	62 - 120
Hexachlorobenzene	1.33	1.57		mg/Kg		118	63 - 124
Hexachlorobutadiene	1.33	1.34		mg/Kg		101	56 - 120
Hexachlorocyclopentadiene	1.33	0.999		mg/Kg		75	10 - 133
Hexachloroethane	1.33	1.13		mg/Kg		85	60 - 114
Indeno[1,2,3-cd]pyrene	1.33	1.40		mg/Kg		105	68 - 130
Isophorone	1.33	1.26		mg/Kg		94	55 - 110
2-Methylnaphthalene	1.33	1.22		mg/Kg		92	69 - 112
2-Methylphenol	1.33	1.31		mg/Kg		98	60 - 120
3 & 4 Methylphenol	1.33	1.26		mg/Kg		95	57 - 120
Naphthalene	1.33	1.09		mg/Kg		82	63 - 110
2-Nitroaniline	1.33	1.52		mg/Kg		114	57 - 124
3-Nitroaniline	1.33	1.31		mg/Kg		98	40 - 122
4-Nitroaniline	1.33	1.39		mg/Kg		104	60 - 160
Nitrobenzene	1.33	1.32		mg/Kg		99	60 - 116
2-Nitrophenol	1.33	1.36		mg/Kg		102	60 - 120
4-Nitrophenol	2.67	2.82		mg/Kg		106	30 - 122
N-Nitrosodi-n-propylamine	1.33	1.10		mg/Kg		82	56 - 118
N-Nitrosodiphenylamine	1.33	1.39		mg/Kg		104	65 - 112
2,2'-oxybis[1-chloropropane]	1.33	1.25		mg/Kg		94	40 - 124
Pentachlorophenol	2.67	2.11		mg/Kg		79	13 - 112
Phenanthrene	1.33	1.19		mg/Kg		90	62 - 120
Phenol	1.33	1.33		mg/Kg		100	56 - 122
Pyrene	1.33	1.28		mg/Kg		96	61 - 128
1,2,4-Trichlorobenzene	1.33	1.33		mg/Kg		99	66 - 117
2,4,5-Trichlorophenol	1.33	1.31		mg/Kg		99	50 - 120
2,4,6-Trichlorophenol	1.33	1.36		mg/Kg		102	57 - 120

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - DesPlaines & Niles - WO 068A

Job ID: 500-181052-1

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

Lab Sample ID: LCS 500-540344/2-A
Matrix: Solid
Analysis Batch: 540463

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 540344

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	87		43 - 145
2-Fluorophenol	129		31 - 166
Nitrobenzene-d5	91		37 - 147
Phenol-d5	107		30 - 153
Terphenyl-d14	102		42 - 157
2,4,6-Tribromophenol	97		31 - 143

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-539552/1-A
Matrix: Solid
Analysis Batch: 539677

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 539552

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.39		2.0	0.39	mg/Kg		04/23/20 18:16	04/24/20 08:13	1
Arsenic	<0.34		1.0	0.34	mg/Kg		04/23/20 18:16	04/24/20 08:13	1
Barium	<0.11		1.0	0.11	mg/Kg		04/23/20 18:16	04/24/20 08:13	1
Beryllium	<0.093		0.40	0.093	mg/Kg		04/23/20 18:16	04/24/20 08:13	1
Cadmium	0.0437	J	0.20	0.036	mg/Kg		04/23/20 18:16	04/24/20 08:13	1
Chromium	<0.50		1.0	0.50	mg/Kg		04/23/20 18:16	04/24/20 08:13	1
Cobalt	<0.13		0.50	0.13	mg/Kg		04/23/20 18:16	04/24/20 08:13	1
Copper	<0.28		1.0	0.28	mg/Kg		04/23/20 18:16	04/24/20 08:13	1
Iron	<10		20	10	mg/Kg		04/23/20 18:16	04/24/20 08:13	1
Lead	<0.23		0.50	0.23	mg/Kg		04/23/20 18:16	04/24/20 08:13	1
Magnesium	<5.0		10	5.0	mg/Kg		04/23/20 18:16	04/24/20 08:13	1
Calcium	<3.4		20	3.4	mg/Kg		04/23/20 18:16	04/24/20 08:13	1
Manganese	<0.15		1.0	0.15	mg/Kg		04/23/20 18:16	04/24/20 08:13	1
Nickel	<0.29		1.0	0.29	mg/Kg		04/23/20 18:16	04/24/20 08:13	1
Selenium	<0.59		1.0	0.59	mg/Kg		04/23/20 18:16	04/24/20 08:13	1
Silver	<0.13		0.50	0.13	mg/Kg		04/23/20 18:16	04/24/20 08:13	1
Thallium	<0.50		1.0	0.50	mg/Kg		04/23/20 18:16	04/24/20 08:13	1
Vanadium	<0.12		0.50	0.12	mg/Kg		04/23/20 18:16	04/24/20 08:13	1
Zinc	<0.88		2.0	0.88	mg/Kg		04/23/20 18:16	04/24/20 08:13	1
Potassium	<18		50	18	mg/Kg		04/23/20 18:16	04/24/20 08:13	1
Sodium	<15		100	15	mg/Kg		04/23/20 18:16	04/24/20 08:13	1

Lab Sample ID: LCS 500-539552/2-A
Matrix: Solid
Analysis Batch: 539677

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 539552

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Antimony	50.0	46.2		mg/Kg		92	80 - 120
Arsenic	10.0	8.90		mg/Kg		89	80 - 120
Barium	200	195		mg/Kg		97	80 - 120
Beryllium	5.00	4.60		mg/Kg		92	80 - 120
Cadmium	5.00	4.59		mg/Kg		92	80 - 120
Chromium	20.0	18.7		mg/Kg		93	80 - 120
Cobalt	50.0	47.0		mg/Kg		94	80 - 120
Copper	25.0	24.6		mg/Kg		98	80 - 120

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - DesPlaines & Niles - WO 068A

Job ID: 500-181052-1

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

Lab Sample ID: LCS 500-539552/2-A
Matrix: Solid
Analysis Batch: 539677

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 539552

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	100	98.8		mg/Kg		99	80 - 120
Lead	10.0	9.06		mg/Kg		91	80 - 120
Magnesium	1000	886		mg/Kg		89	80 - 120
Calcium	1000	907		mg/Kg		91	80 - 120
Manganese	50.0	45.2		mg/Kg		90	80 - 120
Nickel	50.0	45.8		mg/Kg		92	80 - 120
Selenium	10.0	8.48		mg/Kg		85	80 - 120
Silver	5.00	4.35		mg/Kg		87	80 - 120
Thallium	10.0	9.45		mg/Kg		95	80 - 120
Vanadium	50.0	48.1		mg/Kg		96	80 - 120
Zinc	50.0	44.6		mg/Kg		89	80 - 120
Potassium	1000	919		mg/Kg		92	80 - 120
Sodium	1000	949		mg/Kg		95	80 - 120

Lab Sample ID: 500-181052-1 MS
Matrix: Solid
Analysis Batch: 539677

Client Sample ID: 3229V-6-B04 (0-2)
Prep Type: Total/NA
Prep Batch: 539552

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.87	J F1	27.8	6.41	F1	mg/Kg	☼	20	75 - 125
Arsenic	5.4		5.57	11.4		mg/Kg	☼	108	75 - 125
Barium	64	F1	111	145	F1	mg/Kg	☼	73	75 - 125
Beryllium	0.69		2.78	3.14		mg/Kg	☼	88	75 - 125
Cadmium	0.19	B	2.78	2.54		mg/Kg	☼	85	75 - 125
Chromium	21		11.1	31.2		mg/Kg	☼	92	75 - 125
Cobalt	11		27.8	36.6		mg/Kg	☼	93	75 - 125
Copper	29		13.9	40.2		mg/Kg	☼	83	75 - 125
Iron	16000		55.7	17400	4	mg/Kg	☼	2600	75 - 125
Lead	21		5.57	24.8		mg/Kg	☼	75	75 - 125
Magnesium	34000	F2	557	31800	4	mg/Kg	☼	-393	75 - 125
Manganese	400		27.8	343	4	mg/Kg	☼	-186	75 - 125
Nickel	27		27.8	52.8		mg/Kg	☼	92	75 - 125
Selenium	<0.34		5.57	4.36		mg/Kg	☼	78	75 - 125
Silver	0.20	J	2.78	2.59		mg/Kg	☼	86	75 - 125
Thallium	0.43	J	5.57	5.02		mg/Kg	☼	82	75 - 125
Vanadium	20		27.8	46.0		mg/Kg	☼	92	75 - 125
Zinc	86		27.8	110		mg/Kg	☼	85	75 - 125
Potassium	2600		557	4250	4	mg/Kg	☼	305	75 - 125
Sodium	1600	F1	557	2220		mg/Kg	☼	103	75 - 125

Lab Sample ID: 500-181052-1 MS
Matrix: Solid
Analysis Batch: 539677

Client Sample ID: 3229V-6-B04 (0-2)
Prep Type: Total/NA
Prep Batch: 539552

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	78000	F2	557	70000	4	mg/Kg	☼	-1499	75 - 125

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - DesPlaines & Niles - WO 068A

Job ID: 500-181052-1

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

Lab Sample ID: 500-181052-1 MSD

Matrix: Solid

Analysis Batch: 539677

Client Sample ID: 3229V-6-B04 (0-2)

Prep Type: Total/NA

Prep Batch: 539552

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier							
Antimony	0.87	J F1	29.3	7.16	F1	mg/Kg	☼	21	75 - 125	11	20	
Arsenic	5.4		5.85	9.97		mg/Kg	☼	79	75 - 125	13	20	
Barium	64	F1	117	151		mg/Kg	☼	75	75 - 125	4	20	
Beryllium	0.69		2.93	3.18		mg/Kg	☼	85	75 - 125	1	20	
Cadmium	0.19	B	2.93	2.77		mg/Kg	☼	88	75 - 125	8	20	
Chromium	21		11.7	32.6		mg/Kg	☼	100	75 - 125	4	20	
Cobalt	11		29.3	36.7		mg/Kg	☼	88	75 - 125	0	20	
Copper	29		14.6	39.6		mg/Kg	☼	75	75 - 125	2	20	
Iron	16000		58.5	14600	4	mg/Kg	☼	-2256	75 - 125	17	20	
Lead	21		5.85	27.6		mg/Kg	☼	119	75 - 125	11	20	
Magnesium	34000	F2	585	40900	E 4 F2	mg/Kg	☼	1177	75 - 125	25	20	
Manganese	400		29.3	366	4	mg/Kg	☼	-100	75 - 125	6	20	
Nickel	27		29.3	50.2		mg/Kg	☼	78	75 - 125	5	20	
Selenium	<0.34		5.85	4.59		mg/Kg	☼	78	75 - 125	5	20	
Silver	0.20	J	2.93	2.75		mg/Kg	☼	87	75 - 125	6	20	
Thallium	0.43	J	5.85	5.53		mg/Kg	☼	87	75 - 125	10	20	
Vanadium	20		29.3	45.9		mg/Kg	☼	87	75 - 125	0	20	
Zinc	86		29.3	117		mg/Kg	☼	106	75 - 125	7	20	
Potassium	2600		585	3900	4	mg/Kg	☼	229	75 - 125	9	20	
Sodium	1600	F1	585	2070	F1	mg/Kg	☼	72	75 - 125	7	20	

Lab Sample ID: 500-181052-1 MSD

Matrix: Solid

Analysis Batch: 539677

Client Sample ID: 3229V-6-B04 (0-2)

Prep Type: Total/NA

Prep Batch: 539552

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier							
Calcium	78000	F2	585	90300	4 F2	mg/Kg	☼	2045	75 - 125	25	20	

Lab Sample ID: 500-181052-1 DU

Matrix: Solid

Analysis Batch: 539677

Client Sample ID: 3229V-6-B04 (0-2)

Prep Type: Total/NA

Prep Batch: 539552

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier		Result				
Antimony	0.87	J F1	0.859	J	mg/Kg	☼	2	20
Arsenic	5.4		5.11		mg/Kg	☼	5	20
Barium	64	F1	37.5	F3	mg/Kg	☼	52	20
Beryllium	0.69		0.596		mg/Kg	☼	14	20
Cadmium	0.19	B	0.212		mg/Kg	☼	13	20
Chromium	21		18.3		mg/Kg	☼	13	20
Cobalt	11		9.84		mg/Kg	☼	9	20
Copper	29		25.3		mg/Kg	☼	12	20
Iron	16000		14100		mg/Kg	☼	12	20
Lead	21		20.2		mg/Kg	☼	2	20
Magnesium	34000	F2	39700	E	mg/Kg	☼	15	20
Manganese	400		385		mg/Kg	☼	3	20
Nickel	27		25.3		mg/Kg	☼	7	20
Selenium	<0.34		<0.32		mg/Kg	☼	NC	20
Silver	0.20	J	0.178	J	mg/Kg	☼	13	20
Thallium	0.43	J	<0.27		mg/Kg	☼	NC	20

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - DesPlaines & Niles - WO 068A

Job ID: 500-181052-1

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

Lab Sample ID: 500-181052-1 DU
Matrix: Solid
Analysis Batch: 539677

Client Sample ID: 3229V-6-B04 (0-2)
Prep Type: Total/NA
Prep Batch: 539552

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Vanadium	20		17.5		mg/Kg	☼	16	20
Zinc	86		84.4		mg/Kg	☼	2	20
Potassium	2600		2070	F3	mg/Kg	☼	21	20
Sodium	1600	F1	1470		mg/Kg	☼	11	20

Lab Sample ID: 500-181052-1 DU
Matrix: Solid
Analysis Batch: 539677

Client Sample ID: 3229V-6-B04 (0-2)
Prep Type: Total/NA
Prep Batch: 539552

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Calcium	78000	F2	87400		mg/Kg	☼	11	20

Lab Sample ID: LCS 500-540406/2-A
Matrix: Solid
Analysis Batch: 540617

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 540406

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	Limits
		Result	Qualifier				
Manganese	0.500	0.471		mg/L		94	80 - 120

Lab Sample ID: LCS 500-540407/2-A
Matrix: Solid
Analysis Batch: 540617

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 540407

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	Limits
		Result	Qualifier				
Arsenic	0.100	0.113		mg/L		113	80 - 120
Barium	0.500	0.501		mg/L		100	80 - 120
Beryllium	0.0500	0.0498		mg/L		100	80 - 120
Cadmium	0.0500	0.0529		mg/L		106	80 - 120
Chromium	0.200	0.200		mg/L		100	80 - 120
Cobalt	0.500	0.522		mg/L		104	80 - 120
Copper	0.250	0.266		mg/L		106	80 - 120
Iron	1.00	1.14		mg/L		114	80 - 120
Lead	0.100	0.0980		mg/L		98	80 - 120
Magnesium	10.0	9.53		mg/L		95	80 - 120
Calcium	10.0	10.2		mg/L		102	80 - 120
Manganese	0.500	0.490		mg/L		98	80 - 120
Nickel	0.500	0.517		mg/L		103	80 - 120
Selenium	0.100	0.104		mg/L		104	80 - 120
Silver	0.0500	0.0550		mg/L		110	80 - 120
Vanadium	0.500	0.504		mg/L		101	80 - 120
Zinc	0.500	0.558		mg/L		112	80 - 120
Potassium	10.0	11.5		mg/L		115	80 - 120

Lab Sample ID: LB 500-540121/1-B
Matrix: Solid
Analysis Batch: 540617

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 540407

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.010		0.050	0.010	mg/L		04/30/20 06:00	04/30/20 17:23	1
Barium	<0.050		0.50	0.050	mg/L		04/30/20 06:00	04/30/20 17:23	1

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - DesPlaines & Niles - WO 068A

Job ID: 500-181052-1

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

Lab Sample ID: LB 500-540121/1-B
Matrix: Solid
Analysis Batch: 540617

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 540407

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/30/20 06:00	04/30/20 17:23	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		04/30/20 06:00	04/30/20 17:23	1
Chromium	<0.010		0.025	0.010	mg/L		04/30/20 06:00	04/30/20 17:23	1
Cobalt	<0.010		0.025	0.010	mg/L		04/30/20 06:00	04/30/20 17:23	1
Copper	<0.010		0.025	0.010	mg/L		04/30/20 06:00	04/30/20 17:23	1
Iron	<0.20		0.40	0.20	mg/L		04/30/20 06:00	04/30/20 17:23	1
Lead	<0.0075		0.0075	0.0075	mg/L		04/30/20 06:00	04/30/20 17:23	1
Magnesium	<0.50		2.5	0.50	mg/L		04/30/20 06:00	04/30/20 17:23	1
Calcium	<0.50		5.0	0.50	mg/L		04/30/20 06:00	04/30/20 17:23	1
Manganese	<0.010		0.025	0.010	mg/L		04/30/20 06:00	04/30/20 17:23	1
Nickel	<0.010		0.025	0.010	mg/L		04/30/20 06:00	04/30/20 17:23	1
Selenium	<0.020		0.050	0.020	mg/L		04/30/20 06:00	04/30/20 17:23	1
Silver	<0.010		0.025	0.010	mg/L		04/30/20 06:00	04/30/20 17:23	1
Vanadium	<0.010		0.025	0.010	mg/L		04/30/20 06:00	04/30/20 17:23	1
Zinc	<0.020		0.50	0.020	mg/L		04/30/20 06:00	04/30/20 17:23	1
Potassium	<0.50		2.5	0.50	mg/L		04/30/20 06:00	04/30/20 17:23	1

Lab Sample ID: LB 500-540120/1-B
Matrix: Solid
Analysis Batch: 540617

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 540406

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.010		0.025	0.010	mg/L		04/30/20 06:00	04/30/20 18:52	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-540407/2-A
Matrix: Solid
Analysis Batch: 540867

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 540407

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.506		mg/L		101	80 - 120
Thallium	0.100	0.0988		mg/L		99	80 - 120

Lab Sample ID: LB 500-540121/1-B
Matrix: Solid
Analysis Batch: 540867

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 540407

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		04/30/20 06:00	05/01/20 16:51	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/30/20 06:00	05/01/20 16:51	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-540514/12-A
Matrix: Solid
Analysis Batch: 540721

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 540514

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		04/30/20 10:10	05/01/20 09:57	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - DesPlaines & Niles - WO 068A

Job ID: 500-181052-1

Method: 7470A - TCLP Mercury (Continued)

Lab Sample ID: LCS 500-540514/15-A
Matrix: Solid
Analysis Batch: 540721

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 540514
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00197		mg/L		98	80 - 120

Lab Sample ID: LB 500-540121/1-C
Matrix: Solid
Analysis Batch: 540721

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 540514

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		04/30/20 10:10	05/01/20 10:01	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-539665/12-A
Matrix: Solid
Analysis Batch: 539887

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 539665

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		04/24/20 14:15	04/27/20 08:22	1

Lab Sample ID: LCS 500-539665/13-A
Matrix: Solid
Analysis Batch: 539887

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 539665
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.163		mg/Kg		98	80 - 120

Method: 9014 - Cyanide

Lab Sample ID: MB 500-540679/1-A
Matrix: Solid
Analysis Batch: 540738

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 540679

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.25		0.50	0.25	mg/Kg		05/01/20 08:50	05/01/20 14:12	1

Lab Sample ID: LCS 500-540679/2-A
Matrix: Solid
Analysis Batch: 540738

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 540679
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	5.00	5.16		mg/Kg		103	85 - 115

Lab Sample ID: 500-181052-1 MS
Matrix: Solid
Analysis Batch: 540738

Client Sample ID: 3229V-6-B04 (0-2)
Prep Type: Total/NA
Prep Batch: 540679
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	<0.29		2.18	1.74		mg/Kg	☼	80	75 - 125

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - DesPlaines & Niles - WO 068A

Job ID: 500-181052-1

Method: 9014 - Cyanide (Continued)

Lab Sample ID: 500-181052-1 MSD
 Matrix: Solid
 Analysis Batch: 540738

Client Sample ID: 3229V-6-B04 (0-2)
 Prep Type: Total/NA
 Prep Batch: 540679

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	<0.29		2.18	2.00		mg/Kg	☼	91	75 - 125	14	20

Method: 9045D - pH

Lab Sample ID: 500-181052-1 DU
 Matrix: Solid
 Analysis Batch: 539636

Client Sample ID: 3229V-6-B04 (0-2)
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	9.0		9.0		SU		0	



Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - DesPlaines & Niles - WO 068A

Job ID: 500-181052-1

Client Sample ID: 3229V-6-B04 (0-2)

Lab Sample ID: 500-181052-1

Date Collected: 04/22/20 13:55

Matrix: Solid

Date Received: 04/22/20 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			540120	04/28/20 13:48	BEC	TAL CHI
SPLP East	Prep	3010A			540406	04/30/20 06:00	LMN	TAL CHI
SPLP East	Analysis	6010B		1	540617	04/30/20 19:13	EEN	TAL CHI
TCLP	Leach	1311			540121	04/28/20 13:48	BEC	TAL CHI
TCLP	Prep	3010A			540407	04/30/20 06:00	LMN	TAL CHI
TCLP	Analysis	6010B		1	540617	04/30/20 17:32	EEN	TAL CHI
TCLP	Leach	1311			540121	04/28/20 13:48	BEC	TAL CHI
TCLP	Prep	3010A			540407	04/30/20 06:00	LMN	TAL CHI
TCLP	Analysis	6020A		1	540867	05/01/20 16:56	FXG	TAL CHI
TCLP	Leach	1311			540121	04/28/20 13:48	BEC	TAL CHI
TCLP	Prep	7470A			540514	04/30/20 10:10	MJG	TAL CHI
TCLP	Analysis	7470A		1	540721	05/01/20 10:29	MJG	TAL CHI
Total/NA	Analysis	9045D		1	539636	04/23/20 17:53	RES	TAL CHI
Total/NA	Analysis	Moisture		1	539515	04/23/20 14:15	LWN	TAL CHI

Client Sample ID: 3229V-6-B04 (0-2)

Lab Sample ID: 500-181052-1

Date Collected: 04/22/20 13:55

Matrix: Solid

Date Received: 04/22/20 17:00

Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			540395	04/23/20 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	540448	04/30/20 15:59	JDD	TAL CHI
Total/NA	Prep	3541			540344	04/29/20 16:10	JP1	TAL CHI
Total/NA	Analysis	8270D		1	540607	05/01/20 06:02	NRJ	TAL CHI
Total/NA	Prep	3050B			539552	04/23/20 18:16	BDE	TAL CHI
Total/NA	Analysis	6010B		1	539677	04/24/20 08:49	JEF	TAL CHI
Total/NA	Prep	3050B			539552	04/23/20 18:16	BDE	TAL CHI
Total/NA	Analysis	6010B		10	539677	04/24/20 10:17	JEF	TAL CHI
Total/NA	Prep	7471B			539665	04/24/20 14:15	MJG	TAL CHI
Total/NA	Analysis	7471B		1	539887	04/27/20 08:30	MJG	TAL CHI
Total/NA	Prep	9010B			540679	05/01/20 08:50	MS	TAL CHI
Total/NA	Analysis	9014		1	540738	05/01/20 14:13	MS	TAL CHI

Laboratory References:

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

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - DesPlaines & Niles - WO 068A

Job ID: 500-181052-1

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20 *


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

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Address: _____

Regulatory Program: DW NPDES RCRA Other:

TAL-8210

Client Contact Company Name: <u>Terracon Consultants</u> Address: <u>192 Exchange Blvd</u> City/State/Zip: <u>Clevedale Heights, IL</u> Phone: _____ Fax: _____ Project Name: <u>FAV 1319 - WO 068A</u> Site: <u>Dps Plains NW, IL</u> P O #: <u>11207011C</u>		Project Manager: Tel/Email: _____		Site Contact: Lab Contact: _____		Date: Carrier: _____		COC No: _____ of _____ COCs Sampler: _____ For Lab Use Only: Walk-in Client: <input type="checkbox"/> Lab Sampling: <input type="checkbox"/> Job / SDG No.: <u>500-181052</u>						
		Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____ <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Filtered Sample (Y/N) _____ Perform MS / MSD (Y/N) _____ VOCs _____ SVOCs _____ Total 23 Inorganics _____ pH _____ HPLP 23 Inorganics _____ SPLP 23 Inorganics _____		 500-181052 COC		Sample Specific Notes: _____						
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs	SVOCs	Total 23 Inorganics	pH	HPLP 23 Inorganics	SPLP 23 Inorganics	
<u>3229V-6-B04 (0-2)</u>	<u>4/22/20</u>	<u>1355</u>	<u>G</u>	<u>S</u>	<u>6</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>				
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____														
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample. <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown							Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months							
Special Instructions/QC Requirements & Comments: <u>*No Aluminum - standard TAT, HOLD 23 SPLP Inorganics per Terracon Instruction</u>														
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No			Custody Seal No.: _____			Cooler Temp. (°C): Obs'd: <u>23</u> Corr'd: _____			Therm ID No.: _____					
Relinquished by: <u>[Signature]</u>			Company: <u>Terracon</u>			Date/Time: <u>4/22/20/1700</u>			Received by: _____			Company: _____		
Relinquished by: _____			Company: _____			Date/Time: _____			Received by: _____			Company: _____		
Relinquished by: _____			Company: _____			Date/Time: _____			Received by: <u>[Signature]</u>			Company: <u>FA-CHE</u>		
Relinquished by: _____			Company: _____			Date/Time: _____			Received by: _____			Company: _____		

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-181052-1

Login Number: 181052

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAU 1319-Ballard Rd Office Phone Number, if available: _____

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

2355 Ballard Road (Eastbound), IDOT STA 17+00 to 18+00 (ISGS Site 3229V-8)

City: Des Plaines State: IL Zip Code: 60016

County: Cook Township: Maine

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

Latitude: 42.04317 Longitude: - 87.86865

(Decimal Degrees)

(-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

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

Estimated Volume of debris (cu. Yd.): 275

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

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

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

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

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

Soil from boring B01 was sampled adjacent to ISGS Site No 3229V-8.

See Exhibit 4 and Table 10 of the Preliminary Site Investigation Report prepared by Terracon.

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

TestAmerica Lab Report No J177901-1.

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

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

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

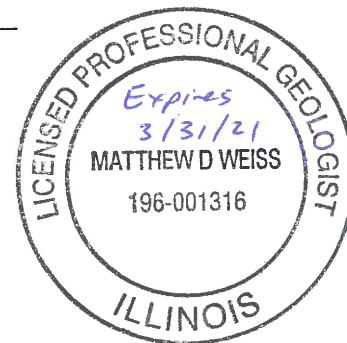
Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

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

Matt Weiss
Printed Name:

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

1/22/21
Date:



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

Comparison of Detected Constituents to MACs-PTB 174-009;Work Order:068A

Preliminary Site Investigation

FAU 1319-Ballard Road (PESA #3229V-8)

Des Plaines and Niles, Cook County, IL

Terracon Project No. 11207011C

Page 1 of 2

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	3229V-8-B01 (0-5)	3229V-8-B01 (5-9)
				CCDD	Sample Depth (feet)	(0-5)	(5-9)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	02/13/2020	02/13/2020
Semivolatile Organic Analytical Parameters							
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.014	0.009
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.022	0.021
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.032	<0.0081
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		<0.013	0.017
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.015	<0.011
Chrysene	mg/kg	1.2	2.7	88		0.021	0.012
Fluoranthene	mg/kg	2.7	4.1	3100		0.028	<0.0069
Phenanthrene	mg/kg	1.3	2.5	210		0.016	0.037
Pyrene	mg/kg	1.9	3.0	2300		0.037	0.015
Inorganic Analytical Parameters							
Arsenic	mg/kg	---	13	11.3		5.3	7
Barium	mg/kg	---	110	1500		96	34
Cadmium	mg/kg	---	0.6	5.2		0.24	0.21
Chromium, total	mg/kg	---	16.2	21		20	15
Lead	mg/kg	---	36	107		35	14
Mercury	mg/kg	---	0.06	0.89		0.024	0.02
Selenium	mg/kg	---	0.48	1.3		<0.33	<0.32
Silver	mg/kg	---	0.55	4.4		0.16	0.18
Antimony	mg/kg	---	4.0	5		<0.22	0.43
Beryllium	mg/kg	---	0.59	22		0.87	0.66
Calcium	mg/kg	---	9,300	---		17000	68000
Cobalt	mg/kg	---	8.9	20		11	11
Copper	mg/kg	---	19.6	2900		22	21
Cyanide	mg/kg	---	0.51	---		<0.26	<0.23
Iron	mg/kg	---	15,900	15000		16000	17000
Magnesium	mg/kg	---	4,820	325000		9800	30000
Manganese	mg/kg	---	636	630		380	350
Nickel	mg/kg	---	18	100		24	29
Potassium	mg/kg	---	1,268	---		1700	2600
Sodium	mg/kg	---	130	---		660	260
Thallium	mg/kg	---	0.32	2.6		<0.28	<0.27
Vanadium	mg/kg	---	25.2	550		25	18
Zinc	mg/kg	---	95	5100		99	55
pH			6.25	9		7.7	7.8

Comparison of Detected Constituents to MACs-PTB 174-009;Work Order:068A

Preliminary Site Investigation

FAU 1319-Ballard Road (PESA #3229V-8)

Des Plaines and Niles, Cook County, IL

Terracon Project No. 11207011C

Page 2 of 2

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	3229V-8-B01 (0-5)	3229V-8-B01 (5-9)
				CCDD	Sample Depth (feet)	(0-5)	(5-9)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	02/13/2020	02/13/2020
Inorganic Analytical Parameters (SPLP)							
Antimony,SPLP	mg/L	---	---	---		--	--
Arsenic,SPLP	mg/L	---	---	---		--	--
Barium,SPLP	mg/L	---	---	---		--	--
Beryllium,SPLP	mg/L	---	---	---		--	--
Cadmium,SPLP	mg/L	---	---	---		--	--
Calcium,SPLP	mg/L	---	---	---		--	--
Chromium,SPLP	mg/L	---	---	---		--	--
Cobalt,SPLP	mg/L	---	---	---		--	--
Copper,SPLP	mg/L	---	---	---		--	--
Iron,SPLP	mg/L	---	---	---		--	--
Lead,SPLP	mg/L	---	---	---		--	--
Magnesium,SPLP	mg/L	---	---	---		--	--
Manganese,SPLP	mg/L	---	---	---		0.59	0.033
Mercury,SPLP	mg/L	---	---	---		--	--
Nickel,SPLP	mg/L	---	---	---		--	--
Potassium,SPLP	mg/L	---	---	---		--	--
Selenium,SPLP	mg/L	---	---	---		--	--
Silver,SPLP	mg/L	---	---	---		--	--
Sodium,SPLP	mg/L	---	---	---		--	--
Thallium,SPLP	mg/L	---	---	---		--	--
Vanadium,SPLP	mg/L	---	---	---		--	--
Zinc,SPLP	mg/L	---	---	---		--	--
Cyanide,SPLP	mg/L	---	---	---		--	--
Inorganic Analytical Parameters (TCLP)							
Arsenic,TCLP	mg/L	---	---	---		<0.010	<0.010
Barium,TCLP	mg/L	---	---	---		0.45	0.48
Cadmium,TCLP	mg/L	---	---	---		0.002	<0.0020
Chromium,TCLP	mg/L	---	---	---		<0.010	<0.010
Lead,TCLP	mg/L	---	---	---		<0.0075	<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020	<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.020	<0.020
Silver,TCLP	mg/L	---	---	---		<0.010	<0.010
Antimony,TCLP	mg/L	---	---	---		<0.0060	<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040	<0.0040
Calcium,TCLP	mg/L	---	---	---		380	580
Cobalt,TCLP	mg/L	---	---	---		<0.010	0.032
Copper,TCLP	mg/L	---	---	---		<0.010	<0.010
Cyanide,TCLP	mg/L	---	---	---		--	--
Iron,TCLP	mg/L	---	---	---		<0.20	<0.20
Magnesium,TCLP	mg/L	---	---	---		120	26
Manganese,TCLP	mg/L	---	---	---		0.32	2.2
Nickel,TCLP	mg/L	---	---	---		<0.010	0.071
Potassium,TCLP	mg/L	---	---	---		1.1	4
Sodium,TCLP	mg/L	---	---	---		--	--
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.010	<0.010
Zinc,TCLP	mg/L	---	---	---		<0.020	<0.020

ANALYTICAL REPORT

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

Laboratory Job ID: 500-177901-1

Client Project/Site: IDOT - PTB 174-009 - WO 068

For:

Environmental Design International, Inc.
33 W. Monroe
Suite 1825
Chicago, Illinois 60603

Attn: Michael Fischer



Authorized for release by:
2/26/2020 4:50:03 PM

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

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

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

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

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Case Narrative

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177901-1

Job ID: 500-177901-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-177901-1

Receipt

The samples were received on 2/14/2020 2:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.9° C.

GC/MS VOA

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

GC/MS Semi VOA

Method 8270D: The laboratory control sample (LCS) for preparation batch 500-529933 and analytical batch 500-530041 recovered outside control limits for the following analytes: Hexachlorobutadiene, Isophorone, Nitrobenzene and N-Nitrosodi-n-propylamine. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8270D: The following samples contained one base surrogate outside acceptance limits: 3229V-8-B02 (0-5) (500-177901-3) and 3229V-8-B02 (5-9) (500-177901-4). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

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

Metals

Method 6010B: The laboratory control sample (LCS) for preparation batch 500-530903 and 500-531036 and analytical batch 500-531227 recovered outside control limits for the following analytes: Zinc. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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

General Chemistry

Method 9045D: Reanalysis of the following pH samples was performed outside of the analytical holding time due to an instrument malfunction : 3229V-8-B01 (0-5) (500-177901-1), 3229V-8-B01 (5-9) (500-177901-2), 3229V-8-B02 (0-5) (500-177901-3) and 3229V-8-B02 (5-9) (500-177901-4).

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

Organic Prep

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

Detection Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177901-1

Client Sample ID: 3229V-8-B01 (0-5)

Lab Sample ID: 500-177901-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.014	J	0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.022	J	0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.032	J	0.039	0.0085	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.015	J	0.039	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.021	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.028	J	0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.016	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.037	J	0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.3		0.56	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	96		0.56	0.064	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.87		0.23	0.053	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.24	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	20		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.28	0.074	mg/Kg	1	☼	6010B	Total/NA
Copper	22	F1	0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	16000		11	5.9	mg/Kg	1	☼	6010B	Total/NA
Lead	35	F2	0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	9800	F2	5.6	2.8	mg/Kg	1	☼	6010B	Total/NA
Calcium	17000	F2	11	1.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	380	F2	0.56	0.082	mg/Kg	1	☼	6010B	Total/NA
Nickel	24		0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Silver	0.16	J	0.28	0.073	mg/Kg	1	☼	6010B	Total/NA
Vanadium	25		0.28	0.067	mg/Kg	1	☼	6010B	Total/NA
Zinc	99	F1 F2	1.1	0.50	mg/Kg	1	☼	6010B	Total/NA
Potassium	1700	F1	28	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	660	F1	56	8.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.45	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0020	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	380		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	120		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.32		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.1	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.59		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.024		0.020	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	7.7		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3229V-8-B01 (5-9)

Lab Sample ID: 500-177901-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0090	J	0.037	0.0050	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.021	J	0.037	0.0072	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.017	J	0.037	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.012	J	0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.037		0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.015	J	0.037	0.0074	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.43	J	1.1	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.0		0.54	0.18	mg/Kg	1	☼	6010B	Total/NA
Barium	34		0.54	0.061	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.66		0.22	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.21	B	0.11	0.019	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.54	0.27	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177901-1

Client Sample ID: 3229V-8-B01 (5-9) (Continued)

Lab Sample ID: 500-177901-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	11		0.27	0.071	mg/Kg	1	☼	6010B	Total/NA
Copper	21		0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	17000		11	5.6	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.27	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	30000		5.4	2.7	mg/Kg	1	☼	6010B	Total/NA
Calcium	68000		110	18	mg/Kg	10	☼	6010B	Total/NA
Manganese	350		0.54	0.078	mg/Kg	1	☼	6010B	Total/NA
Nickel	29		0.54	0.16	mg/Kg	1	☼	6010B	Total/NA
Silver	0.18	J	0.27	0.070	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.27	0.064	mg/Kg	1	☼	6010B	Total/NA
Zinc	55		1.1	0.47	mg/Kg	1	☼	6010B	Total/NA
Potassium	2600		27	9.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	260		54	8.0	mg/Kg	1	☼	6010B	Total/NA
Barium	0.48	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	580		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.032		0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	26		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	2.2		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.071		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	4.0		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.033		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.020		0.018	0.0060	mg/Kg	1	☼	7471B	Total/NA
pH	7.8		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3229V-8-B02 (0-5)

Lab Sample ID: 500-177901-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.028	J	0.040	0.0073	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.80		0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Anthracene	2.8		0.040	0.0068	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	2.6		0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Carbazole	0.31		0.20	0.10	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	1.2		0.040	0.0079	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.10		0.040	0.0057	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	2.7		0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.025	J	0.082	0.0075	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.042		0.040	0.0063	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene - DL	16		0.40	0.055	mg/Kg	10	☼	8270D	Total/NA
Benzo[a]pyrene - DL	13		0.40	0.079	mg/Kg	10	☼	8270D	Total/NA
Benzo[b]fluoranthene - DL	14		0.40	0.088	mg/Kg	10	☼	8270D	Total/NA
Benzo[k]fluoranthene - DL	11		0.40	0.12	mg/Kg	10	☼	8270D	Total/NA
Chrysene - DL	14		0.40	0.11	mg/Kg	10	☼	8270D	Total/NA
Fluoranthene - DL	24		0.40	0.075	mg/Kg	10	☼	8270D	Total/NA
Phenanthrene - DL	6.8		0.40	0.057	mg/Kg	10	☼	8270D	Total/NA
Pyrene - DL	28		0.40	0.081	mg/Kg	10	☼	8270D	Total/NA
Arsenic	4.6		0.61	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	130		0.61	0.069	mg/Kg	1	☼	6010B	Total/NA
Beryllium	1.2		0.24	0.057	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.16	B	0.12	0.022	mg/Kg	1	☼	6010B	Total/NA
Chromium	25		0.61	0.30	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.30	0.080	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177901-1

Client Sample ID: 3229V-8-B02 (0-5) (Continued)

Lab Sample ID: 500-177901-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	20		0.61	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	20000		12	6.3	mg/Kg	1	☼	6010B	Total/NA
Lead	33		0.30	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	7300		6.1	3.0	mg/Kg	1	☼	6010B	Total/NA
Calcium	8800		12	2.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	150		0.61	0.088	mg/Kg	1	☼	6010B	Total/NA
Nickel	34		0.61	0.18	mg/Kg	1	☼	6010B	Total/NA
Silver	0.19	J	0.30	0.079	mg/Kg	1	☼	6010B	Total/NA
Vanadium	32		0.30	0.072	mg/Kg	1	☼	6010B	Total/NA
Zinc	82		1.2	0.53	mg/Kg	1	☼	6010B	Total/NA
Potassium	2900		30	11	mg/Kg	1	☼	6010B	Total/NA
Sodium	140		61	9.0	mg/Kg	1	☼	6010B	Total/NA
Barium	0.59		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0024	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	380		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	110		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.87		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.6		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.027	J*	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.090		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.041		0.020	0.0067	mg/Kg	1	☼	7471B	Total/NA
pH	8.1		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3229V-8-B02 (5-9)

Lab Sample ID: 500-177901-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.025		0.019	0.0085	mg/Kg	1	☼	8260B	Total/NA
Benzo[a]anthracene	0.0098	J	0.040	0.0055	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.011	J	0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.015	J	0.040	0.0075	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.016	J	0.040	0.0057	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.017	J	0.040	0.0081	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.47	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.9		0.57	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	70		0.57	0.065	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.81		0.23	0.053	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.24	B	0.11	0.021	mg/Kg	1	☼	6010B	Total/NA
Chromium	18		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.8		0.28	0.075	mg/Kg	1	☼	6010B	Total/NA
Copper	19		0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	17000		11	5.9	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	14000		5.7	2.8	mg/Kg	1	☼	6010B	Total/NA
Calcium	26000		11	1.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	310		0.57	0.083	mg/Kg	1	☼	6010B	Total/NA
Nickel	28		0.57	0.17	mg/Kg	1	☼	6010B	Total/NA
Silver	0.11	J	0.28	0.074	mg/Kg	1	☼	6010B	Total/NA
Vanadium	26		0.28	0.067	mg/Kg	1	☼	6010B	Total/NA
Zinc	64		1.1	0.50	mg/Kg	1	☼	6010B	Total/NA
Potassium	1800		28	10	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177901-1

Client Sample ID: 3229V-8-B02 (5-9) (Continued)

Lab Sample ID: 500-177901-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	140		57	8.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.44	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0023	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	370		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.019	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	87		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	5.8		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.017	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.6	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.036	J *	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.051		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.022		0.020	0.0067	mg/Kg	1	☼	7471B	Total/NA
pH	8.1		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Method Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177901-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9014	Cyanide	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
1311	TCLP Extraction	SW846	TAL CHI
1312	SPLP Extraction	SW846	TAL CHI
3010A	Preparation, Total Metals	SW846	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL CHI
7471B	Preparation, Mercury	SW846	TAL CHI
9010B	Cyanide, Distillation	SW846	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177901-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-177901-1	3229V-8-B01 (0-5)	Solid	02/13/20 11:10	02/14/20 14:00	
500-177901-2	3229V-8-B01 (5-9)	Solid	02/13/20 11:20	02/14/20 14:00	
500-177901-3	3229V-8-B02 (0-5)	Solid	02/13/20 11:30	02/14/20 14:00	
500-177901-4	3229V-8-B02 (5-9)	Solid	02/13/20 11:40	02/14/20 14:00	

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Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177901-1

Client Sample ID: 3229V-8-B01 (0-5)

Lab Sample ID: 500-177901-1

Date Collected: 02/13/20 11:10

Matrix: Solid

Date Received: 02/14/20 14:00

Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0079		0.018	0.0079	mg/Kg	☼	02/14/20 17:08	02/18/20 12:07	1
Benzene	<0.00046		0.0018	0.00046	mg/Kg	☼	02/14/20 17:08	02/18/20 12:07	1
Bromodichloromethane	<0.00037		0.0018	0.00037	mg/Kg	☼	02/14/20 17:08	02/18/20 12:07	1
Bromoform	<0.00053		0.0018	0.00053	mg/Kg	☼	02/14/20 17:08	02/18/20 12:07	1
Bromomethane	<0.0017		0.0045	0.0017	mg/Kg	☼	02/14/20 17:08	02/18/20 12:07	1
2-Butanone (MEK)	<0.0020		0.0045	0.0020	mg/Kg	☼	02/14/20 17:08	02/18/20 12:07	1
Carbon disulfide	<0.00094		0.0045	0.00094	mg/Kg	☼	02/14/20 17:08	02/18/20 12:07	1
Carbon tetrachloride	<0.00052		0.0018	0.00052	mg/Kg	☼	02/14/20 17:08	02/18/20 12:07	1
Chlorobenzene	<0.00067		0.0018	0.00067	mg/Kg	☼	02/14/20 17:08	02/18/20 12:07	1
Chloroethane	<0.0013		0.0045	0.0013	mg/Kg	☼	02/14/20 17:08	02/18/20 12:07	1
Chloroform	<0.00063		0.0018	0.00063	mg/Kg	☼	02/14/20 17:08	02/18/20 12:07	1
Chloromethane	<0.0018		0.0045	0.0018	mg/Kg	☼	02/14/20 17:08	02/18/20 12:07	1
cis-1,2-Dichloroethene	<0.00050		0.0018	0.00050	mg/Kg	☼	02/14/20 17:08	02/18/20 12:07	1
cis-1,3-Dichloropropene	<0.00054		0.0018	0.00054	mg/Kg	☼	02/14/20 17:08	02/18/20 12:07	1
Dibromochloromethane	<0.00059		0.0018	0.00059	mg/Kg	☼	02/14/20 17:08	02/18/20 12:07	1
1,1-Dichloroethane	<0.00062		0.0018	0.00062	mg/Kg	☼	02/14/20 17:08	02/18/20 12:07	1
1,2-Dichloroethane	<0.0014		0.0045	0.0014	mg/Kg	☼	02/14/20 17:08	02/18/20 12:07	1
1,1-Dichloroethene	<0.00062		0.0018	0.00062	mg/Kg	☼	02/14/20 17:08	02/18/20 12:07	1
1,2-Dichloropropene	<0.00047		0.0018	0.00047	mg/Kg	☼	02/14/20 17:08	02/18/20 12:07	1
1,3-Dichloropropene, Total	<0.00063		0.0018	0.00063	mg/Kg	☼	02/14/20 17:08	02/18/20 12:07	1
Ethylbenzene	<0.00086		0.0018	0.00086	mg/Kg	☼	02/14/20 17:08	02/18/20 12:07	1
2-Hexanone	<0.0014		0.0045	0.0014	mg/Kg	☼	02/14/20 17:08	02/18/20 12:07	1
Methylene Chloride	<0.0018		0.0045	0.0018	mg/Kg	☼	02/14/20 17:08	02/18/20 12:07	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0045	0.0013	mg/Kg	☼	02/14/20 17:08	02/18/20 12:07	1
Methyl tert-butyl ether	<0.00053		0.0018	0.00053	mg/Kg	☼	02/14/20 17:08	02/18/20 12:07	1
Styrene	<0.00055		0.0018	0.00055	mg/Kg	☼	02/14/20 17:08	02/18/20 12:07	1
1,1,2,2-Tetrachloroethane	<0.00058		0.0018	0.00058	mg/Kg	☼	02/14/20 17:08	02/18/20 12:07	1
Tetrachloroethene	<0.00061		0.0018	0.00061	mg/Kg	☼	02/14/20 17:08	02/18/20 12:07	1
Toluene	<0.00046		0.0018	0.00046	mg/Kg	☼	02/14/20 17:08	02/18/20 12:07	1
trans-1,2-Dichloroethene	<0.00080		0.0018	0.00080	mg/Kg	☼	02/14/20 17:08	02/18/20 12:07	1
trans-1,3-Dichloropropene	<0.00063		0.0018	0.00063	mg/Kg	☼	02/14/20 17:08	02/18/20 12:07	1
1,1,1-Trichloroethane	<0.00061		0.0018	0.00061	mg/Kg	☼	02/14/20 17:08	02/18/20 12:07	1
1,1,2-Trichloroethane	<0.00077		0.0018	0.00077	mg/Kg	☼	02/14/20 17:08	02/18/20 12:07	1
Trichloroethene	<0.00061		0.0018	0.00061	mg/Kg	☼	02/14/20 17:08	02/18/20 12:07	1
Vinyl acetate	<0.0016		0.0045	0.0016	mg/Kg	☼	02/14/20 17:08	02/18/20 12:07	1
Vinyl chloride	<0.00080		0.0018	0.00080	mg/Kg	☼	02/14/20 17:08	02/18/20 12:07	1
Xylenes, Total	<0.00058		0.0036	0.00058	mg/Kg	☼	02/14/20 17:08	02/18/20 12:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		75 - 131	02/14/20 17:08	02/18/20 12:07	1
Dibromofluoromethane	111		75 - 126	02/14/20 17:08	02/18/20 12:07	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	02/14/20 17:08	02/18/20 12:07	1
Toluene-d8 (Surr)	93		75 - 124	02/14/20 17:08	02/18/20 12:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0071		0.039	0.0071	mg/Kg	☼	02/17/20 07:36	02/20/20 02:21	1
Acenaphthylene	<0.0052		0.039	0.0052	mg/Kg	☼	02/17/20 07:36	02/20/20 02:21	1
Anthracene	<0.0066		0.039	0.0066	mg/Kg	☼	02/17/20 07:36	02/20/20 02:21	1
Benzo[a]anthracene	0.014	J	0.039	0.0053	mg/Kg	☼	02/17/20 07:36	02/20/20 02:21	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177901-1

Client Sample ID: 3229V-8-B01 (0-5)

Lab Sample ID: 500-177901-1

Date Collected: 02/13/20 11:10

Matrix: Solid

Date Received: 02/14/20 14:00

Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.022	J	0.039	0.0076	mg/Kg	☼	02/17/20 07:36	02/20/20 02:21	1
Benzo[b]fluoranthene	0.032	J	0.039	0.0085	mg/Kg	☼	02/17/20 07:36	02/20/20 02:21	1
Benzo[g,h,i]perylene	<0.013		0.039	0.013	mg/Kg	☼	02/17/20 07:36	02/20/20 02:21	1
Benzo[k]fluoranthene	0.015	J	0.039	0.012	mg/Kg	☼	02/17/20 07:36	02/20/20 02:21	1
Bis(2-chloroethoxy)methane	<0.040		0.20	0.040	mg/Kg	☼	02/17/20 07:36	02/20/20 02:21	1
Bis(2-chloroethyl)ether	<0.059		0.20	0.059	mg/Kg	☼	02/17/20 07:36	02/20/20 02:21	1
Bis(2-ethylhexyl) phthalate	<0.072		0.20	0.072	mg/Kg	☼	02/17/20 07:36	02/20/20 02:21	1
4-Bromophenyl phenyl ether	<0.052		0.20	0.052	mg/Kg	☼	02/17/20 07:36	02/20/20 02:21	1
Butyl benzyl phthalate	<0.075		0.20	0.075	mg/Kg	☼	02/17/20 07:36	02/20/20 02:21	1
Carbazole	<0.098		0.20	0.098	mg/Kg	☼	02/17/20 07:36	02/20/20 02:21	1
4-Chloroaniline	<0.19		0.79	0.19	mg/Kg	☼	02/17/20 07:36	02/20/20 02:21	1
4-Chloro-3-methylphenol	<0.13		0.39	0.13	mg/Kg	☼	02/17/20 07:36	02/20/20 02:21	1
2-Chloronaphthalene	<0.044		0.20	0.044	mg/Kg	☼	02/17/20 07:36	02/20/20 02:21	1
2-Chlorophenol	<0.067		0.20	0.067	mg/Kg	☼	02/17/20 07:36	02/20/20 02:21	1
4-Chlorophenyl phenyl ether	<0.046		0.20	0.046	mg/Kg	☼	02/17/20 07:36	02/20/20 02:21	1
Chrysene	0.021	J	0.039	0.011	mg/Kg	☼	02/17/20 07:36	02/20/20 02:21	1
Dibenz(a,h)anthracene	<0.0076		0.039	0.0076	mg/Kg	☼	02/17/20 07:36	02/20/20 02:21	1
Dibenzofuran	<0.046		0.20	0.046	mg/Kg	☼	02/17/20 07:36	02/20/20 02:21	1
1,2-Dichlorobenzene	<0.047		0.20	0.047	mg/Kg	☼	02/17/20 07:36	02/20/20 02:21	1
1,3-Dichlorobenzene	<0.044		0.20	0.044	mg/Kg	☼	02/17/20 07:36	02/20/20 02:21	1
1,4-Dichlorobenzene	<0.051		0.20	0.051	mg/Kg	☼	02/17/20 07:36	02/20/20 02:21	1
3,3'-Dichlorobenzidine	<0.055		0.20	0.055	mg/Kg	☼	02/17/20 07:36	02/20/20 02:21	1
2,4-Dichlorophenol	<0.094		0.39	0.094	mg/Kg	☼	02/17/20 07:36	02/20/20 02:21	1
Diethyl phthalate	<0.067		0.20	0.067	mg/Kg	☼	02/17/20 07:36	02/20/20 02:21	1
2,4-Dimethylphenol	<0.15		0.39	0.15	mg/Kg	☼	02/17/20 07:36	02/20/20 02:21	1
Dimethyl phthalate	<0.051		0.20	0.051	mg/Kg	☼	02/17/20 07:36	02/20/20 02:21	1
Di-n-butyl phthalate	<0.060		0.20	0.060	mg/Kg	☼	02/17/20 07:36	02/20/20 02:21	1
4,6-Dinitro-2-methylphenol	<0.32		0.79	0.32	mg/Kg	☼	02/17/20 07:36	02/20/20 02:21	1
2,4-Dinitrophenol	<0.69		0.79	0.69	mg/Kg	☼	02/17/20 07:36	02/20/20 02:21	1
2,4-Dinitrotoluene	<0.063		0.20	0.063	mg/Kg	☼	02/17/20 07:36	02/20/20 02:21	1
2,6-Dinitrotoluene	<0.077		0.20	0.077	mg/Kg	☼	02/17/20 07:36	02/20/20 02:21	1
Di-n-octyl phthalate	<0.064		0.20	0.064	mg/Kg	☼	02/17/20 07:36	02/20/20 02:21	1
Fluoranthene	0.028	J	0.039	0.0073	mg/Kg	☼	02/17/20 07:36	02/20/20 02:21	1
Fluorene	<0.0055		0.039	0.0055	mg/Kg	☼	02/17/20 07:36	02/20/20 02:21	1
Hexachlorobenzene	<0.0091		0.079	0.0091	mg/Kg	☼	02/17/20 07:36	02/20/20 02:21	1
Hexachlorobutadiene	<0.062	*	0.20	0.062	mg/Kg	☼	02/17/20 07:36	02/20/20 02:21	1
Hexachlorocyclopentadiene	<0.23		0.79	0.23	mg/Kg	☼	02/17/20 07:36	02/20/20 02:21	1
Hexachloroethane	<0.060		0.20	0.060	mg/Kg	☼	02/17/20 07:36	02/20/20 02:21	1
Indeno[1,2,3-cd]pyrene	<0.010		0.039	0.010	mg/Kg	☼	02/17/20 07:36	02/20/20 02:21	1
Isophorone	<0.044	*	0.20	0.044	mg/Kg	☼	02/17/20 07:36	02/20/20 02:21	1
2-Methylnaphthalene	<0.0072		0.079	0.0072	mg/Kg	☼	02/17/20 07:36	02/20/20 02:21	1
2-Methylphenol	<0.063		0.20	0.063	mg/Kg	☼	02/17/20 07:36	02/20/20 02:21	1
3 & 4 Methylphenol	<0.066		0.20	0.066	mg/Kg	☼	02/17/20 07:36	02/20/20 02:21	1
Naphthalene	<0.0061		0.039	0.0061	mg/Kg	☼	02/17/20 07:36	02/20/20 02:21	1
2-Nitroaniline	<0.053		0.20	0.053	mg/Kg	☼	02/17/20 07:36	02/20/20 02:21	1
3-Nitroaniline	<0.12		0.39	0.12	mg/Kg	☼	02/17/20 07:36	02/20/20 02:21	1
4-Nitroaniline	<0.16		0.39	0.16	mg/Kg	☼	02/17/20 07:36	02/20/20 02:21	1
Nitrobenzene	<0.0098	*	0.039	0.0098	mg/Kg	☼	02/17/20 07:36	02/20/20 02:21	1
2-Nitrophenol	<0.093		0.39	0.093	mg/Kg	☼	02/17/20 07:36	02/20/20 02:21	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177901-1

Client Sample ID: 3229V-8-B01 (0-5)

Lab Sample ID: 500-177901-1

Date Collected: 02/13/20 11:10

Matrix: Solid

Date Received: 02/14/20 14:00

Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.37		0.79	0.37	mg/Kg	☼	02/17/20 07:36	02/20/20 02:21	1
N-Nitrosodi-n-propylamine	<0.048	*	0.079	0.048	mg/Kg	☼	02/17/20 07:36	02/20/20 02:21	1
N-Nitrosodiphenylamine	<0.047		0.20	0.047	mg/Kg	☼	02/17/20 07:36	02/20/20 02:21	1
2,2'-oxybis[1-chloropropane]	<0.046		0.20	0.046	mg/Kg	☼	02/17/20 07:36	02/20/20 02:21	1
Pentachlorophenol	<0.63		0.79	0.63	mg/Kg	☼	02/17/20 07:36	02/20/20 02:21	1
Phenanthrene	0.016	J	0.039	0.0055	mg/Kg	☼	02/17/20 07:36	02/20/20 02:21	1
Phenol	<0.088		0.20	0.088	mg/Kg	☼	02/17/20 07:36	02/20/20 02:21	1
Pyrene	0.037	J	0.039	0.0078	mg/Kg	☼	02/17/20 07:36	02/20/20 02:21	1
1,2,4-Trichlorobenzene	<0.042		0.20	0.042	mg/Kg	☼	02/17/20 07:36	02/20/20 02:21	1
2,4,5-Trichlorophenol	<0.090		0.39	0.090	mg/Kg	☼	02/17/20 07:36	02/20/20 02:21	1
2,4,6-Trichlorophenol	<0.14		0.39	0.14	mg/Kg	☼	02/17/20 07:36	02/20/20 02:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	77		43 - 145				02/17/20 07:36	02/20/20 02:21	1
2-Fluorophenol	67		31 - 166				02/17/20 07:36	02/20/20 02:21	1
Nitrobenzene-d5	64		37 - 147				02/17/20 07:36	02/20/20 02:21	1
Phenol-d5	71		30 - 153				02/17/20 07:36	02/20/20 02:21	1
Terphenyl-d14	153		42 - 157				02/17/20 07:36	02/20/20 02:21	1
2,4,6-Tribromophenol	94		31 - 143				02/17/20 07:36	02/20/20 02:21	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.22	F1	1.1	0.22	mg/Kg	☼	02/18/20 16:42	02/19/20 14:06	1
Arsenic	5.3		0.56	0.19	mg/Kg	☼	02/18/20 16:42	02/19/20 14:06	1
Barium	96		0.56	0.064	mg/Kg	☼	02/18/20 16:42	02/19/20 14:06	1
Beryllium	0.87		0.23	0.053	mg/Kg	☼	02/18/20 16:42	02/19/20 14:06	1
Cadmium	0.24	B	0.11	0.020	mg/Kg	☼	02/18/20 16:42	02/19/20 14:06	1
Chromium	20		0.56	0.28	mg/Kg	☼	02/18/20 16:42	02/19/20 14:06	1
Cobalt	11		0.28	0.074	mg/Kg	☼	02/18/20 16:42	02/19/20 14:06	1
Copper	22	F1	0.56	0.16	mg/Kg	☼	02/18/20 16:42	02/19/20 14:06	1
Iron	16000		11	5.9	mg/Kg	☼	02/18/20 16:42	02/19/20 14:06	1
Lead	35	F2	0.28	0.13	mg/Kg	☼	02/18/20 16:42	02/19/20 14:06	1
Magnesium	9800	F2	5.6	2.8	mg/Kg	☼	02/18/20 16:42	02/19/20 14:06	1
Calcium	17000	F2	11	1.9	mg/Kg	☼	02/18/20 16:42	02/19/20 14:06	1
Manganese	380	F2	0.56	0.082	mg/Kg	☼	02/18/20 16:42	02/19/20 14:06	1
Nickel	24		0.56	0.16	mg/Kg	☼	02/18/20 16:42	02/19/20 14:06	1
Selenium	<0.33	F1	0.56	0.33	mg/Kg	☼	02/18/20 16:42	02/19/20 14:06	1
Silver	0.16	J	0.28	0.073	mg/Kg	☼	02/18/20 16:42	02/19/20 14:06	1
Thallium	<0.28	F1	0.56	0.28	mg/Kg	☼	02/18/20 16:42	02/19/20 14:06	1
Vanadium	25		0.28	0.067	mg/Kg	☼	02/18/20 16:42	02/19/20 14:06	1
Zinc	99	F1 F2	1.1	0.50	mg/Kg	☼	02/18/20 16:42	02/19/20 14:06	1
Potassium	1700	F1	28	10	mg/Kg	☼	02/18/20 16:42	02/19/20 14:06	1
Sodium	660	F1	56	8.4	mg/Kg	☼	02/18/20 16:42	02/19/20 14:06	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		02/24/20 06:22	02/24/20 18:34	1
Barium	0.45	J	0.50	0.050	mg/L		02/24/20 06:22	02/24/20 18:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/24/20 06:22	02/24/20 18:34	1
Cadmium	0.0020	J	0.0050	0.0020	mg/L		02/24/20 06:22	02/24/20 18:34	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177901-1

Client Sample ID: 3229V-8-B01 (0-5)

Lab Sample ID: 500-177901-1

Date Collected: 02/13/20 11:10

Matrix: Solid

Date Received: 02/14/20 14:00

Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	380		5.0	0.50	mg/L		02/24/20 06:22	02/24/20 18:34	1
Chromium	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:34	1
Cobalt	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:34	1
Copper	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:34	1
Iron	<0.20		0.40	0.20	mg/L		02/24/20 06:22	02/24/20 18:34	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/24/20 06:22	02/24/20 18:34	1
Magnesium	120		2.5	0.50	mg/L		02/24/20 06:22	02/24/20 18:34	1
Manganese	0.32		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:34	1
Nickel	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:34	1
Potassium	1.1 J		2.5	0.50	mg/L		02/24/20 06:22	02/24/20 18:34	1
Selenium	<0.020		0.050	0.020	mg/L		02/24/20 06:22	02/24/20 18:34	1
Silver	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:34	1
Vanadium	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:34	1
Zinc	<0.020 *		0.50	0.020	mg/L		02/24/20 06:22	02/24/20 18:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.59		0.025	0.010	mg/L		02/24/20 06:19	02/24/20 19:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/24/20 06:22	02/24/20 19:52	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/24/20 06:22	02/24/20 19:52	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/24/20 10:20	02/25/20 09:30	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.020	0.0065	mg/Kg	☼	02/21/20 15:40	02/24/20 09:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.26		0.51	0.26	mg/Kg	☼	02/26/20 09:30	02/26/20 13:06	1
pH	7.7		0.2	0.2	SU			02/22/20 19:11	1

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177901-1

Client Sample ID: 3229V-8-B01 (5-9)

Lab Sample ID: 500-177901-2

Date Collected: 02/13/20 11:20

Matrix: Solid

Date Received: 02/14/20 14:00

Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0067		0.015	0.0067	mg/Kg	☼	02/14/20 17:08	02/18/20 12:33	1
Benzene	<0.00039		0.0015	0.00039	mg/Kg	☼	02/14/20 17:08	02/18/20 12:33	1
Bromodichloromethane	<0.00031		0.0015	0.00031	mg/Kg	☼	02/14/20 17:08	02/18/20 12:33	1
Bromoform	<0.00045		0.0015	0.00045	mg/Kg	☼	02/14/20 17:08	02/18/20 12:33	1
Bromomethane	<0.0014		0.0038	0.0014	mg/Kg	☼	02/14/20 17:08	02/18/20 12:33	1
2-Butanone (MEK)	<0.0017		0.0038	0.0017	mg/Kg	☼	02/14/20 17:08	02/18/20 12:33	1
Carbon disulfide	<0.00080		0.0038	0.00080	mg/Kg	☼	02/14/20 17:08	02/18/20 12:33	1
Carbon tetrachloride	<0.00044		0.0015	0.00044	mg/Kg	☼	02/14/20 17:08	02/18/20 12:33	1
Chlorobenzene	<0.00057		0.0015	0.00057	mg/Kg	☼	02/14/20 17:08	02/18/20 12:33	1
Chloroethane	<0.0011		0.0038	0.0011	mg/Kg	☼	02/14/20 17:08	02/18/20 12:33	1
Chloroform	<0.00053		0.0015	0.00053	mg/Kg	☼	02/14/20 17:08	02/18/20 12:33	1
Chloromethane	<0.0015		0.0038	0.0015	mg/Kg	☼	02/14/20 17:08	02/18/20 12:33	1
cis-1,2-Dichloroethene	<0.00043		0.0015	0.00043	mg/Kg	☼	02/14/20 17:08	02/18/20 12:33	1
cis-1,3-Dichloropropene	<0.00046		0.0015	0.00046	mg/Kg	☼	02/14/20 17:08	02/18/20 12:33	1
Dibromochloromethane	<0.00050		0.0015	0.00050	mg/Kg	☼	02/14/20 17:08	02/18/20 12:33	1
1,1-Dichloroethane	<0.00053		0.0015	0.00053	mg/Kg	☼	02/14/20 17:08	02/18/20 12:33	1
1,2-Dichloroethane	<0.0012		0.0038	0.0012	mg/Kg	☼	02/14/20 17:08	02/18/20 12:33	1
1,1-Dichloroethene	<0.00053		0.0015	0.00053	mg/Kg	☼	02/14/20 17:08	02/18/20 12:33	1
1,2-Dichloropropane	<0.00040		0.0015	0.00040	mg/Kg	☼	02/14/20 17:08	02/18/20 12:33	1
1,3-Dichloropropane, Total	<0.00054		0.0015	0.00054	mg/Kg	☼	02/14/20 17:08	02/18/20 12:33	1
Ethylbenzene	<0.00073		0.0015	0.00073	mg/Kg	☼	02/14/20 17:08	02/18/20 12:33	1
2-Hexanone	<0.0012		0.0038	0.0012	mg/Kg	☼	02/14/20 17:08	02/18/20 12:33	1
Methylene Chloride	<0.0015		0.0038	0.0015	mg/Kg	☼	02/14/20 17:08	02/18/20 12:33	1
4-Methyl-2-pentanone (MIBK)	<0.0011		0.0038	0.0011	mg/Kg	☼	02/14/20 17:08	02/18/20 12:33	1
Methyl tert-butyl ether	<0.00045		0.0015	0.00045	mg/Kg	☼	02/14/20 17:08	02/18/20 12:33	1
Styrene	<0.00046		0.0015	0.00046	mg/Kg	☼	02/14/20 17:08	02/18/20 12:33	1
1,1,2,2-Tetrachloroethane	<0.00049		0.0015	0.00049	mg/Kg	☼	02/14/20 17:08	02/18/20 12:33	1
Tetrachloroethene	<0.00052		0.0015	0.00052	mg/Kg	☼	02/14/20 17:08	02/18/20 12:33	1
Toluene	<0.00039		0.0015	0.00039	mg/Kg	☼	02/14/20 17:08	02/18/20 12:33	1
trans-1,2-Dichloroethene	<0.00068		0.0015	0.00068	mg/Kg	☼	02/14/20 17:08	02/18/20 12:33	1
trans-1,3-Dichloropropene	<0.00054		0.0015	0.00054	mg/Kg	☼	02/14/20 17:08	02/18/20 12:33	1
1,1,1-Trichloroethane	<0.00051		0.0015	0.00051	mg/Kg	☼	02/14/20 17:08	02/18/20 12:33	1
1,1,2-Trichloroethane	<0.00066		0.0015	0.00066	mg/Kg	☼	02/14/20 17:08	02/18/20 12:33	1
Trichloroethene	<0.00052		0.0015	0.00052	mg/Kg	☼	02/14/20 17:08	02/18/20 12:33	1
Vinyl acetate	<0.0013		0.0038	0.0013	mg/Kg	☼	02/14/20 17:08	02/18/20 12:33	1
Vinyl chloride	<0.00068		0.0015	0.00068	mg/Kg	☼	02/14/20 17:08	02/18/20 12:33	1
Xylenes, Total	<0.00049		0.0031	0.00049	mg/Kg	☼	02/14/20 17:08	02/18/20 12:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		75 - 131	02/14/20 17:08	02/18/20 12:33	1
Dibromofluoromethane	107		75 - 126	02/14/20 17:08	02/18/20 12:33	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134	02/14/20 17:08	02/18/20 12:33	1
Toluene-d8 (Surr)	90		75 - 124	02/14/20 17:08	02/18/20 12:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0067		0.037	0.0067	mg/Kg	☼	02/17/20 07:36	02/17/20 23:07	1
Acenaphthylene	<0.0049		0.037	0.0049	mg/Kg	☼	02/17/20 07:36	02/17/20 23:07	1
Anthracene	<0.0062		0.037	0.0062	mg/Kg	☼	02/17/20 07:36	02/17/20 23:07	1
Benzo[a]anthracene	0.0090	J	0.037	0.0050	mg/Kg	☼	02/17/20 07:36	02/17/20 23:07	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177901-1

Client Sample ID: 3229V-8-B01 (5-9)

Lab Sample ID: 500-177901-2

Date Collected: 02/13/20 11:20

Matrix: Solid

Date Received: 02/14/20 14:00

Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.021	J	0.037	0.0072	mg/Kg	☼	02/17/20 07:36	02/17/20 23:07	1
Benzo[b]fluoranthene	<0.0081		0.037	0.0081	mg/Kg	☼	02/17/20 07:36	02/17/20 23:07	1
Benzo[g,h,i]perylene	0.017	J	0.037	0.012	mg/Kg	☼	02/17/20 07:36	02/17/20 23:07	1
Benzo[k]fluoranthene	<0.011		0.037	0.011	mg/Kg	☼	02/17/20 07:36	02/17/20 23:07	1
Bis(2-chloroethoxy)methane	<0.038		0.19	0.038	mg/Kg	☼	02/17/20 07:36	02/17/20 23:07	1
Bis(2-chloroethyl)ether	<0.056		0.19	0.056	mg/Kg	☼	02/17/20 07:36	02/17/20 23:07	1
Bis(2-ethylhexyl) phthalate	<0.068		0.19	0.068	mg/Kg	☼	02/17/20 07:36	02/17/20 23:07	1
4-Bromophenyl phenyl ether	<0.049		0.19	0.049	mg/Kg	☼	02/17/20 07:36	02/17/20 23:07	1
Butyl benzyl phthalate	<0.071		0.19	0.071	mg/Kg	☼	02/17/20 07:36	02/17/20 23:07	1
Carbazole	<0.093		0.19	0.093	mg/Kg	☼	02/17/20 07:36	02/17/20 23:07	1
4-Chloroaniline	<0.18		0.75	0.18	mg/Kg	☼	02/17/20 07:36	02/17/20 23:07	1
4-Chloro-3-methylphenol	<0.13		0.37	0.13	mg/Kg	☼	02/17/20 07:36	02/17/20 23:07	1
2-Chloronaphthalene	<0.041		0.19	0.041	mg/Kg	☼	02/17/20 07:36	02/17/20 23:07	1
2-Chlorophenol	<0.064		0.19	0.064	mg/Kg	☼	02/17/20 07:36	02/17/20 23:07	1
4-Chlorophenyl phenyl ether	<0.044		0.19	0.044	mg/Kg	☼	02/17/20 07:36	02/17/20 23:07	1
Chrysene	0.012	J	0.037	0.010	mg/Kg	☼	02/17/20 07:36	02/17/20 23:07	1
Dibenz(a,h)anthracene	<0.0072		0.037	0.0072	mg/Kg	☼	02/17/20 07:36	02/17/20 23:07	1
Dibenzofuran	<0.044		0.19	0.044	mg/Kg	☼	02/17/20 07:36	02/17/20 23:07	1
1,2-Dichlorobenzene	<0.045		0.19	0.045	mg/Kg	☼	02/17/20 07:36	02/17/20 23:07	1
1,3-Dichlorobenzene	<0.042		0.19	0.042	mg/Kg	☼	02/17/20 07:36	02/17/20 23:07	1
1,4-Dichlorobenzene	<0.048		0.19	0.048	mg/Kg	☼	02/17/20 07:36	02/17/20 23:07	1
3,3'-Dichlorobenzidine	<0.052		0.19	0.052	mg/Kg	☼	02/17/20 07:36	02/17/20 23:07	1
2,4-Dichlorophenol	<0.089		0.37	0.089	mg/Kg	☼	02/17/20 07:36	02/17/20 23:07	1
Diethyl phthalate	<0.063		0.19	0.063	mg/Kg	☼	02/17/20 07:36	02/17/20 23:07	1
2,4-Dimethylphenol	<0.14		0.37	0.14	mg/Kg	☼	02/17/20 07:36	02/17/20 23:07	1
Dimethyl phthalate	<0.049		0.19	0.049	mg/Kg	☼	02/17/20 07:36	02/17/20 23:07	1
Di-n-butyl phthalate	<0.057		0.19	0.057	mg/Kg	☼	02/17/20 07:36	02/17/20 23:07	1
4,6-Dinitro-2-methylphenol	<0.30		0.75	0.30	mg/Kg	☼	02/17/20 07:36	02/17/20 23:07	1
2,4-Dinitrophenol	<0.66		0.75	0.66	mg/Kg	☼	02/17/20 07:36	02/17/20 23:07	1
2,4-Dinitrotoluene	<0.059		0.19	0.059	mg/Kg	☼	02/17/20 07:36	02/17/20 23:07	1
2,6-Dinitrotoluene	<0.074		0.19	0.074	mg/Kg	☼	02/17/20 07:36	02/17/20 23:07	1
Di-n-octyl phthalate	<0.061		0.19	0.061	mg/Kg	☼	02/17/20 07:36	02/17/20 23:07	1
Fluoranthene	<0.0069		0.037	0.0069	mg/Kg	☼	02/17/20 07:36	02/17/20 23:07	1
Fluorene	<0.0053		0.037	0.0053	mg/Kg	☼	02/17/20 07:36	02/17/20 23:07	1
Hexachlorobenzene	<0.0087		0.075	0.0087	mg/Kg	☼	02/17/20 07:36	02/17/20 23:07	1
Hexachlorobutadiene	<0.059	*	0.19	0.059	mg/Kg	☼	02/17/20 07:36	02/17/20 23:07	1
Hexachlorocyclopentadiene	<0.22		0.75	0.22	mg/Kg	☼	02/17/20 07:36	02/17/20 23:07	1
Hexachloroethane	<0.057		0.19	0.057	mg/Kg	☼	02/17/20 07:36	02/17/20 23:07	1
Indeno[1,2,3-cd]pyrene	<0.0097		0.037	0.0097	mg/Kg	☼	02/17/20 07:36	02/17/20 23:07	1
Isophorone	<0.042	*	0.19	0.042	mg/Kg	☼	02/17/20 07:36	02/17/20 23:07	1
2-Methylnaphthalene	<0.0069		0.075	0.0069	mg/Kg	☼	02/17/20 07:36	02/17/20 23:07	1
2-Methylphenol	<0.060		0.19	0.060	mg/Kg	☼	02/17/20 07:36	02/17/20 23:07	1
3 & 4 Methylphenol	<0.062		0.19	0.062	mg/Kg	☼	02/17/20 07:36	02/17/20 23:07	1
Naphthalene	<0.0058		0.037	0.0058	mg/Kg	☼	02/17/20 07:36	02/17/20 23:07	1
2-Nitroaniline	<0.050		0.19	0.050	mg/Kg	☼	02/17/20 07:36	02/17/20 23:07	1
3-Nitroaniline	<0.12		0.37	0.12	mg/Kg	☼	02/17/20 07:36	02/17/20 23:07	1
4-Nitroaniline	<0.16		0.37	0.16	mg/Kg	☼	02/17/20 07:36	02/17/20 23:07	1
Nitrobenzene	<0.0093	*	0.037	0.0093	mg/Kg	☼	02/17/20 07:36	02/17/20 23:07	1
2-Nitrophenol	<0.088		0.37	0.088	mg/Kg	☼	02/17/20 07:36	02/17/20 23:07	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177901-1

Client Sample ID: 3229V-8-B01 (5-9)

Lab Sample ID: 500-177901-2

Date Collected: 02/13/20 11:20

Matrix: Solid

Date Received: 02/14/20 14:00

Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.36		0.75	0.36	mg/Kg	☼	02/17/20 07:36	02/17/20 23:07	1
N-Nitrosodi-n-propylamine	<0.046	*	0.075	0.046	mg/Kg	☼	02/17/20 07:36	02/17/20 23:07	1
N-Nitrosodiphenylamine	<0.044		0.19	0.044	mg/Kg	☼	02/17/20 07:36	02/17/20 23:07	1
2,2'-oxybis[1-chloropropane]	<0.043		0.19	0.043	mg/Kg	☼	02/17/20 07:36	02/17/20 23:07	1
Pentachlorophenol	<0.60		0.75	0.60	mg/Kg	☼	02/17/20 07:36	02/17/20 23:07	1
Phenanthrene	0.037		0.037	0.0052	mg/Kg	☼	02/17/20 07:36	02/17/20 23:07	1
Phenol	<0.083		0.19	0.083	mg/Kg	☼	02/17/20 07:36	02/17/20 23:07	1
Pyrene	0.015	J	0.037	0.0074	mg/Kg	☼	02/17/20 07:36	02/17/20 23:07	1
1,2,4-Trichlorobenzene	<0.040		0.19	0.040	mg/Kg	☼	02/17/20 07:36	02/17/20 23:07	1
2,4,5-Trichlorophenol	<0.085		0.37	0.085	mg/Kg	☼	02/17/20 07:36	02/17/20 23:07	1
2,4,6-Trichlorophenol	<0.13		0.37	0.13	mg/Kg	☼	02/17/20 07:36	02/17/20 23:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	109		43 - 145	02/17/20 07:36	02/17/20 23:07	1
2-Fluorophenol	146		31 - 166	02/17/20 07:36	02/17/20 23:07	1
Nitrobenzene-d5	101		37 - 147	02/17/20 07:36	02/17/20 23:07	1
Phenol-d5	119		30 - 153	02/17/20 07:36	02/17/20 23:07	1
Terphenyl-d14	141		42 - 157	02/17/20 07:36	02/17/20 23:07	1
2,4,6-Tribromophenol	47		31 - 143	02/17/20 07:36	02/17/20 23:07	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.43	J	1.1	0.21	mg/Kg	☼	02/18/20 16:42	02/19/20 14:26	1
Arsenic	7.0		0.54	0.18	mg/Kg	☼	02/18/20 16:42	02/19/20 14:26	1
Barium	34		0.54	0.061	mg/Kg	☼	02/18/20 16:42	02/19/20 14:26	1
Beryllium	0.66		0.22	0.050	mg/Kg	☼	02/18/20 16:42	02/19/20 14:26	1
Cadmium	0.21	B	0.11	0.019	mg/Kg	☼	02/18/20 16:42	02/19/20 14:26	1
Chromium	15		0.54	0.27	mg/Kg	☼	02/18/20 16:42	02/19/20 14:26	1
Cobalt	11		0.27	0.071	mg/Kg	☼	02/18/20 16:42	02/19/20 14:26	1
Copper	21		0.54	0.15	mg/Kg	☼	02/18/20 16:42	02/19/20 14:26	1
Iron	17000		11	5.6	mg/Kg	☼	02/18/20 16:42	02/19/20 14:26	1
Lead	14		0.27	0.12	mg/Kg	☼	02/18/20 16:42	02/19/20 14:26	1
Magnesium	30000		5.4	2.7	mg/Kg	☼	02/18/20 16:42	02/19/20 14:26	1
Calcium	68000		110	18	mg/Kg	☼	02/18/20 16:42	02/20/20 15:14	10
Manganese	350		0.54	0.078	mg/Kg	☼	02/18/20 16:42	02/19/20 14:26	1
Nickel	29		0.54	0.16	mg/Kg	☼	02/18/20 16:42	02/19/20 14:26	1
Selenium	<0.32		0.54	0.32	mg/Kg	☼	02/18/20 16:42	02/19/20 14:26	1
Silver	0.18	J	0.27	0.070	mg/Kg	☼	02/18/20 16:42	02/19/20 14:26	1
Thallium	<0.27		0.54	0.27	mg/Kg	☼	02/18/20 16:42	02/19/20 14:26	1
Vanadium	18		0.27	0.064	mg/Kg	☼	02/18/20 16:42	02/19/20 14:26	1
Zinc	55		1.1	0.47	mg/Kg	☼	02/18/20 16:42	02/19/20 14:26	1
Potassium	2600		27	9.5	mg/Kg	☼	02/18/20 16:42	02/19/20 14:26	1
Sodium	260		54	8.0	mg/Kg	☼	02/18/20 16:42	02/19/20 14:26	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		02/24/20 06:22	02/24/20 18:39	1
Barium	0.48	J	0.50	0.050	mg/L		02/24/20 06:22	02/24/20 18:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/24/20 06:22	02/24/20 18:39	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		02/24/20 06:22	02/24/20 18:39	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177901-1

Client Sample ID: 3229V-8-B01 (5-9)

Lab Sample ID: 500-177901-2

Date Collected: 02/13/20 11:20

Matrix: Solid

Date Received: 02/14/20 14:00

Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	580		5.0	0.50	mg/L		02/24/20 06:22	02/24/20 18:39	1
Chromium	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:39	1
Cobalt	0.032		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:39	1
Copper	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:39	1
Iron	<0.20		0.40	0.20	mg/L		02/24/20 06:22	02/24/20 18:39	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/24/20 06:22	02/24/20 18:39	1
Magnesium	26		2.5	0.50	mg/L		02/24/20 06:22	02/24/20 18:39	1
Manganese	2.2		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:39	1
Nickel	0.071		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:39	1
Potassium	4.0		2.5	0.50	mg/L		02/24/20 06:22	02/24/20 18:39	1
Selenium	<0.020		0.050	0.020	mg/L		02/24/20 06:22	02/24/20 18:39	1
Silver	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:39	1
Vanadium	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:39	1
Zinc	<0.020 *		0.50	0.020	mg/L		02/24/20 06:22	02/24/20 18:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.033		0.025	0.010	mg/L		02/24/20 06:19	02/24/20 19:22	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		02/24/20 06:22	02/24/20 19:54	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/24/20 06:22	02/24/20 19:54	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/24/20 10:20	02/25/20 09:32	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.018	0.0060	mg/Kg	☼	02/21/20 15:40	02/24/20 09:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.23		0.46	0.23	mg/Kg	☼	02/26/20 09:30	02/26/20 13:06	1
pH	7.8		0.2	0.2	SU			02/22/20 19:13	1

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177901-1

Client Sample ID: 3229V-8-B02 (0-5)

Lab Sample ID: 500-177901-3

Date Collected: 02/13/20 11:30

Matrix: Solid

Date Received: 02/14/20 14:00

Percent Solids: 81.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0080		0.018	0.0080	mg/Kg	☼	02/14/20 17:08	02/18/20 12:59	1
Benzene	<0.00047		0.0018	0.00047	mg/Kg	☼	02/14/20 17:08	02/18/20 12:59	1
Bromodichloromethane	<0.00037		0.0018	0.00037	mg/Kg	☼	02/14/20 17:08	02/18/20 12:59	1
Bromoform	<0.00054		0.0018	0.00054	mg/Kg	☼	02/14/20 17:08	02/18/20 12:59	1
Bromomethane	<0.0017		0.0046	0.0017	mg/Kg	☼	02/14/20 17:08	02/18/20 12:59	1
2-Butanone (MEK)	<0.0020		0.0046	0.0020	mg/Kg	☼	02/14/20 17:08	02/18/20 12:59	1
Carbon disulfide	<0.00096		0.0046	0.00096	mg/Kg	☼	02/14/20 17:08	02/18/20 12:59	1
Carbon tetrachloride	<0.00053		0.0018	0.00053	mg/Kg	☼	02/14/20 17:08	02/18/20 12:59	1
Chlorobenzene	<0.00068		0.0018	0.00068	mg/Kg	☼	02/14/20 17:08	02/18/20 12:59	1
Chloroethane	<0.0014		0.0046	0.0014	mg/Kg	☼	02/14/20 17:08	02/18/20 12:59	1
Chloroform	<0.00064		0.0018	0.00064	mg/Kg	☼	02/14/20 17:08	02/18/20 12:59	1
Chloromethane	<0.0018		0.0046	0.0018	mg/Kg	☼	02/14/20 17:08	02/18/20 12:59	1
cis-1,2-Dichloroethene	<0.00051		0.0018	0.00051	mg/Kg	☼	02/14/20 17:08	02/18/20 12:59	1
cis-1,3-Dichloropropene	<0.00055		0.0018	0.00055	mg/Kg	☼	02/14/20 17:08	02/18/20 12:59	1
Dibromochloromethane	<0.00060		0.0018	0.00060	mg/Kg	☼	02/14/20 17:08	02/18/20 12:59	1
1,1-Dichloroethane	<0.00063		0.0018	0.00063	mg/Kg	☼	02/14/20 17:08	02/18/20 12:59	1
1,2-Dichloroethane	<0.0014		0.0046	0.0014	mg/Kg	☼	02/14/20 17:08	02/18/20 12:59	1
1,1-Dichloroethene	<0.00063		0.0018	0.00063	mg/Kg	☼	02/14/20 17:08	02/18/20 12:59	1
1,2-Dichloropropene	<0.00048		0.0018	0.00048	mg/Kg	☼	02/14/20 17:08	02/18/20 12:59	1
1,3-Dichloropropene, Total	<0.00065		0.0018	0.00065	mg/Kg	☼	02/14/20 17:08	02/18/20 12:59	1
Ethylbenzene	<0.00088		0.0018	0.00088	mg/Kg	☼	02/14/20 17:08	02/18/20 12:59	1
2-Hexanone	<0.0014		0.0046	0.0014	mg/Kg	☼	02/14/20 17:08	02/18/20 12:59	1
Methylene Chloride	<0.0018		0.0046	0.0018	mg/Kg	☼	02/14/20 17:08	02/18/20 12:59	1
4-Methyl-2-pentanone (MIBK)	<0.0014		0.0046	0.0014	mg/Kg	☼	02/14/20 17:08	02/18/20 12:59	1
Methyl tert-butyl ether	<0.00054		0.0018	0.00054	mg/Kg	☼	02/14/20 17:08	02/18/20 12:59	1
Styrene	<0.00056		0.0018	0.00056	mg/Kg	☼	02/14/20 17:08	02/18/20 12:59	1
1,1,2,2-Tetrachloroethane	<0.00059		0.0018	0.00059	mg/Kg	☼	02/14/20 17:08	02/18/20 12:59	1
Tetrachloroethene	<0.00063		0.0018	0.00063	mg/Kg	☼	02/14/20 17:08	02/18/20 12:59	1
Toluene	<0.00046		0.0018	0.00046	mg/Kg	☼	02/14/20 17:08	02/18/20 12:59	1
trans-1,2-Dichloroethene	<0.00081		0.0018	0.00081	mg/Kg	☼	02/14/20 17:08	02/18/20 12:59	1
trans-1,3-Dichloropropene	<0.00065		0.0018	0.00065	mg/Kg	☼	02/14/20 17:08	02/18/20 12:59	1
1,1,1-Trichloroethane	<0.00062		0.0018	0.00062	mg/Kg	☼	02/14/20 17:08	02/18/20 12:59	1
1,1,2-Trichloroethane	<0.00079		0.0018	0.00079	mg/Kg	☼	02/14/20 17:08	02/18/20 12:59	1
Trichloroethene	<0.00062		0.0018	0.00062	mg/Kg	☼	02/14/20 17:08	02/18/20 12:59	1
Vinyl acetate	<0.0016		0.0046	0.0016	mg/Kg	☼	02/14/20 17:08	02/18/20 12:59	1
Vinyl chloride	<0.00081		0.0018	0.00081	mg/Kg	☼	02/14/20 17:08	02/18/20 12:59	1
Xylenes, Total	<0.00059		0.0037	0.00059	mg/Kg	☼	02/14/20 17:08	02/18/20 12:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		75 - 131	02/14/20 17:08	02/18/20 12:59	1
Dibromofluoromethane	107		75 - 126	02/14/20 17:08	02/18/20 12:59	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134	02/14/20 17:08	02/18/20 12:59	1
Toluene-d8 (Surr)	89		75 - 124	02/14/20 17:08	02/18/20 12:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.028	J	0.040	0.0073	mg/Kg	☼	02/17/20 07:36	02/18/20 19:23	1
Acenaphthylene	0.80		0.040	0.0054	mg/Kg	☼	02/17/20 07:36	02/18/20 19:23	1
Anthracene	2.8		0.040	0.0068	mg/Kg	☼	02/17/20 07:36	02/18/20 19:23	1
Benzo[g,h,i]perylene	2.6		0.040	0.013	mg/Kg	☼	02/17/20 07:36	02/18/20 19:23	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177901-1

Client Sample ID: 3229V-8-B02 (0-5)

Lab Sample ID: 500-177901-3

Date Collected: 02/13/20 11:30

Matrix: Solid

Date Received: 02/14/20 14:00

Percent Solids: 81.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	<0.042		0.20	0.042	mg/Kg	☼	02/17/20 07:36	02/18/20 19:23	1
Bis(2-chloroethyl)ether	<0.061		0.20	0.061	mg/Kg	☼	02/17/20 07:36	02/18/20 19:23	1
Bis(2-ethylhexyl) phthalate	<0.074		0.20	0.074	mg/Kg	☼	02/17/20 07:36	02/18/20 19:23	1
4-Bromophenyl phenyl ether	<0.054		0.20	0.054	mg/Kg	☼	02/17/20 07:36	02/18/20 19:23	1
Butyl benzyl phthalate	<0.077		0.20	0.077	mg/Kg	☼	02/17/20 07:36	02/18/20 19:23	1
Carbazole	0.31		0.20	0.10	mg/Kg	☼	02/17/20 07:36	02/18/20 19:23	1
4-Chloroaniline	<0.19		0.82	0.19	mg/Kg	☼	02/17/20 07:36	02/18/20 19:23	1
4-Chloro-3-methylphenol	<0.14		0.40	0.14	mg/Kg	☼	02/17/20 07:36	02/18/20 19:23	1
2-Chloronaphthalene	<0.045		0.20	0.045	mg/Kg	☼	02/17/20 07:36	02/18/20 19:23	1
2-Chlorophenol	<0.069		0.20	0.069	mg/Kg	☼	02/17/20 07:36	02/18/20 19:23	1
4-Chlorophenyl phenyl ether	<0.048		0.20	0.048	mg/Kg	☼	02/17/20 07:36	02/18/20 19:23	1
Dibenz(a,h)anthracene	1.2		0.040	0.0079	mg/Kg	☼	02/17/20 07:36	02/18/20 19:23	1
Dibenzofuran	<0.048		0.20	0.048	mg/Kg	☼	02/17/20 07:36	02/18/20 19:23	1
1,2-Dichlorobenzene	<0.049		0.20	0.049	mg/Kg	☼	02/17/20 07:36	02/18/20 19:23	1
1,3-Dichlorobenzene	<0.046		0.20	0.046	mg/Kg	☼	02/17/20 07:36	02/18/20 19:23	1
1,4-Dichlorobenzene	<0.052		0.20	0.052	mg/Kg	☼	02/17/20 07:36	02/18/20 19:23	1
3,3'-Dichlorobenzidine	<0.057		0.20	0.057	mg/Kg	☼	02/17/20 07:36	02/18/20 19:23	1
2,4-Dichlorophenol	<0.097		0.40	0.097	mg/Kg	☼	02/17/20 07:36	02/18/20 19:23	1
Diethyl phthalate	<0.069		0.20	0.069	mg/Kg	☼	02/17/20 07:36	02/18/20 19:23	1
2,4-Dimethylphenol	<0.15		0.40	0.15	mg/Kg	☼	02/17/20 07:36	02/18/20 19:23	1
Dimethyl phthalate	<0.053		0.20	0.053	mg/Kg	☼	02/17/20 07:36	02/18/20 19:23	1
Di-n-butyl phthalate	<0.062		0.20	0.062	mg/Kg	☼	02/17/20 07:36	02/18/20 19:23	1
4,6-Dinitro-2-methylphenol	<0.33		0.82	0.33	mg/Kg	☼	02/17/20 07:36	02/18/20 19:23	1
2,4-Dinitrophenol	<0.72		0.82	0.72	mg/Kg	☼	02/17/20 07:36	02/18/20 19:23	1
2,4-Dinitrotoluene	<0.065		0.20	0.065	mg/Kg	☼	02/17/20 07:36	02/18/20 19:23	1
2,6-Dinitrotoluene	<0.080		0.20	0.080	mg/Kg	☼	02/17/20 07:36	02/18/20 19:23	1
Di-n-octyl phthalate	<0.066		0.20	0.066	mg/Kg	☼	02/17/20 07:36	02/18/20 19:23	1
Fluorene	0.10		0.040	0.0057	mg/Kg	☼	02/17/20 07:36	02/18/20 19:23	1
Hexachlorobenzene	<0.0094		0.082	0.0094	mg/Kg	☼	02/17/20 07:36	02/18/20 19:23	1
Hexachlorobutadiene	<0.064	*	0.20	0.064	mg/Kg	☼	02/17/20 07:36	02/18/20 19:23	1
Hexachlorocyclopentadiene	<0.23		0.82	0.23	mg/Kg	☼	02/17/20 07:36	02/18/20 19:23	1
Hexachloroethane	<0.062		0.20	0.062	mg/Kg	☼	02/17/20 07:36	02/18/20 19:23	1
Indeno[1,2,3-cd]pyrene	2.7		0.040	0.011	mg/Kg	☼	02/17/20 07:36	02/18/20 19:23	1
Isophorone	<0.046	*	0.20	0.046	mg/Kg	☼	02/17/20 07:36	02/18/20 19:23	1
2-Methylnaphthalene	0.025	J	0.082	0.0075	mg/Kg	☼	02/17/20 07:36	02/18/20 19:23	1
2-Methylphenol	<0.065		0.20	0.065	mg/Kg	☼	02/17/20 07:36	02/18/20 19:23	1
3 & 4 Methylphenol	<0.068		0.20	0.068	mg/Kg	☼	02/17/20 07:36	02/18/20 19:23	1
Naphthalene	0.042		0.040	0.0063	mg/Kg	☼	02/17/20 07:36	02/18/20 19:23	1
2-Nitroaniline	<0.055		0.20	0.055	mg/Kg	☼	02/17/20 07:36	02/18/20 19:23	1
3-Nitroaniline	<0.13		0.40	0.13	mg/Kg	☼	02/17/20 07:36	02/18/20 19:23	1
4-Nitroaniline	<0.17		0.40	0.17	mg/Kg	☼	02/17/20 07:36	02/18/20 19:23	1
Nitrobenzene	<0.010	*	0.040	0.010	mg/Kg	☼	02/17/20 07:36	02/18/20 19:23	1
2-Nitrophenol	<0.096		0.40	0.096	mg/Kg	☼	02/17/20 07:36	02/18/20 19:23	1
4-Nitrophenol	<0.39		0.82	0.39	mg/Kg	☼	02/17/20 07:36	02/18/20 19:23	1
N-Nitrosodi-n-propylamine	<0.050	*	0.082	0.050	mg/Kg	☼	02/17/20 07:36	02/18/20 19:23	1
N-Nitrosodiphenylamine	<0.048		0.20	0.048	mg/Kg	☼	02/17/20 07:36	02/18/20 19:23	1
2,2'-oxybis[1-chloropropane]	<0.047		0.20	0.047	mg/Kg	☼	02/17/20 07:36	02/18/20 19:23	1
Pentachlorophenol	<0.65		0.82	0.65	mg/Kg	☼	02/17/20 07:36	02/18/20 19:23	1
Phenol	<0.090		0.20	0.090	mg/Kg	☼	02/17/20 07:36	02/18/20 19:23	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177901-1

Client Sample ID: 3229V-8-B02 (0-5)

Lab Sample ID: 500-177901-3

Date Collected: 02/13/20 11:30

Matrix: Solid

Date Received: 02/14/20 14:00

Percent Solids: 81.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.044		0.20	0.044	mg/Kg	☼	02/17/20 07:36	02/18/20 19:23	1
2,4,5-Trichlorophenol	<0.093		0.40	0.093	mg/Kg	☼	02/17/20 07:36	02/18/20 19:23	1
2,4,6-Trichlorophenol	<0.14		0.40	0.14	mg/Kg	☼	02/17/20 07:36	02/18/20 19:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	88		43 - 145				02/17/20 07:36	02/18/20 19:23	1
2-Fluorophenol	94		31 - 166				02/17/20 07:36	02/18/20 19:23	1
Nitrobenzene-d5	101		37 - 147				02/17/20 07:36	02/18/20 19:23	1
Phenol-d5	104		30 - 153				02/17/20 07:36	02/18/20 19:23	1
Terphenyl-d14	146		42 - 157				02/17/20 07:36	02/18/20 19:23	1
2,4,6-Tribromophenol	71		31 - 143				02/17/20 07:36	02/18/20 19:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	16		0.40	0.055	mg/Kg	☼	02/17/20 07:36	02/18/20 19:47	10
Benzo[a]pyrene	13		0.40	0.079	mg/Kg	☼	02/17/20 07:36	02/18/20 19:47	10
Benzo[b]fluoranthene	14		0.40	0.088	mg/Kg	☼	02/17/20 07:36	02/18/20 19:47	10
Benzo[k]fluoranthene	11		0.40	0.12	mg/Kg	☼	02/17/20 07:36	02/18/20 19:47	10
Chrysene	14		0.40	0.11	mg/Kg	☼	02/17/20 07:36	02/18/20 19:47	10
Fluoranthene	24		0.40	0.075	mg/Kg	☼	02/17/20 07:36	02/18/20 19:47	10
Phenanthrene	6.8		0.40	0.057	mg/Kg	☼	02/17/20 07:36	02/18/20 19:47	10
Pyrene	28		0.40	0.081	mg/Kg	☼	02/17/20 07:36	02/18/20 19:47	10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.24		1.2	0.24	mg/Kg	☼	02/18/20 16:42	02/19/20 14:30	1
Arsenic	4.6		0.61	0.21	mg/Kg	☼	02/18/20 16:42	02/19/20 14:30	1
Barium	130		0.61	0.069	mg/Kg	☼	02/18/20 16:42	02/19/20 14:30	1
Beryllium	1.2		0.24	0.057	mg/Kg	☼	02/18/20 16:42	02/19/20 14:30	1
Cadmium	0.16	B	0.12	0.022	mg/Kg	☼	02/18/20 16:42	02/19/20 14:30	1
Chromium	25		0.61	0.30	mg/Kg	☼	02/18/20 16:42	02/19/20 14:30	1
Cobalt	11		0.30	0.080	mg/Kg	☼	02/18/20 16:42	02/19/20 14:30	1
Copper	20		0.61	0.17	mg/Kg	☼	02/18/20 16:42	02/19/20 14:30	1
Iron	20000		12	6.3	mg/Kg	☼	02/18/20 16:42	02/19/20 14:30	1
Lead	33		0.30	0.14	mg/Kg	☼	02/18/20 16:42	02/19/20 14:30	1
Magnesium	7300		6.1	3.0	mg/Kg	☼	02/18/20 16:42	02/19/20 14:30	1
Calcium	8800		12	2.1	mg/Kg	☼	02/18/20 16:42	02/19/20 14:30	1
Manganese	150		0.61	0.088	mg/Kg	☼	02/18/20 16:42	02/19/20 14:30	1
Nickel	34		0.61	0.18	mg/Kg	☼	02/18/20 16:42	02/19/20 14:30	1
Selenium	<0.36		0.61	0.36	mg/Kg	☼	02/18/20 16:42	02/19/20 14:30	1
Silver	0.19	J	0.30	0.079	mg/Kg	☼	02/18/20 16:42	02/19/20 14:30	1
Thallium	<0.30		0.61	0.30	mg/Kg	☼	02/18/20 16:42	02/19/20 14:30	1
Vanadium	32		0.30	0.072	mg/Kg	☼	02/18/20 16:42	02/19/20 14:30	1
Zinc	82		1.2	0.53	mg/Kg	☼	02/18/20 16:42	02/19/20 14:30	1
Potassium	2900		30	11	mg/Kg	☼	02/18/20 16:42	02/19/20 14:30	1
Sodium	140		61	9.0	mg/Kg	☼	02/18/20 16:42	02/19/20 14:30	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		02/24/20 06:22	02/24/20 18:43	1

Eurolins TestAmerica, Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177901-1

Client Sample ID: 3229V-8-B02 (0-5)

Lab Sample ID: 500-177901-3

Date Collected: 02/13/20 11:30

Matrix: Solid

Date Received: 02/14/20 14:00

Percent Solids: 81.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.59		0.50	0.050	mg/L		02/24/20 06:22	02/24/20 18:43	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/24/20 06:22	02/24/20 18:43	1
Cadmium	0.0024	J	0.0050	0.0020	mg/L		02/24/20 06:22	02/24/20 18:43	1
Calcium	380		5.0	0.50	mg/L		02/24/20 06:22	02/24/20 18:43	1
Chromium	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:43	1
Cobalt	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:43	1
Copper	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:43	1
Iron	<0.20		0.40	0.20	mg/L		02/24/20 06:22	02/24/20 18:43	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/24/20 06:22	02/24/20 18:43	1
Magnesium	110		2.5	0.50	mg/L		02/24/20 06:22	02/24/20 18:43	1
Manganese	0.87		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:43	1
Nickel	0.013	J	0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:43	1
Potassium	2.6		2.5	0.50	mg/L		02/24/20 06:22	02/24/20 18:43	1
Selenium	<0.020		0.050	0.020	mg/L		02/24/20 06:22	02/24/20 18:43	1
Silver	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:43	1
Vanadium	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:43	1
Zinc	0.027	J *	0.50	0.020	mg/L		02/24/20 06:22	02/24/20 18:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.090		0.025	0.010	mg/L		02/24/20 06:19	02/24/20 19:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/24/20 06:22	02/24/20 19:57	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/24/20 06:22	02/24/20 19:57	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/24/20 10:20	02/25/20 09:33	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.041		0.020	0.0067	mg/Kg	☼	02/21/20 15:40	02/24/20 10:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.23		0.46	0.23	mg/Kg	☼	02/26/20 09:30	02/26/20 13:07	1
pH	8.1		0.2	0.2	SU			02/22/20 19:16	1

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177901-1

Client Sample ID: 3229V-8-B02 (5-9)

Lab Sample ID: 500-177901-4

Date Collected: 02/13/20 11:40

Matrix: Solid

Date Received: 02/14/20 14:00

Percent Solids: 80.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.025		0.019	0.0085	mg/Kg	☼	02/14/20 17:08	02/18/20 13:24	1
Benzene	<0.00050		0.0019	0.00050	mg/Kg	☼	02/14/20 17:08	02/18/20 13:24	1
Bromodichloromethane	<0.00040		0.0019	0.00040	mg/Kg	☼	02/14/20 17:08	02/18/20 13:24	1
Bromoform	<0.00057		0.0019	0.00057	mg/Kg	☼	02/14/20 17:08	02/18/20 13:24	1
Bromomethane	<0.0018		0.0049	0.0018	mg/Kg	☼	02/14/20 17:08	02/18/20 13:24	1
2-Butanone (MEK)	<0.0022		0.0049	0.0022	mg/Kg	☼	02/14/20 17:08	02/18/20 13:24	1
Carbon disulfide	<0.0010		0.0049	0.0010	mg/Kg	☼	02/14/20 17:08	02/18/20 13:24	1
Carbon tetrachloride	<0.00057		0.0019	0.00057	mg/Kg	☼	02/14/20 17:08	02/18/20 13:24	1
Chlorobenzene	<0.00072		0.0019	0.00072	mg/Kg	☼	02/14/20 17:08	02/18/20 13:24	1
Chloroethane	<0.0014		0.0049	0.0014	mg/Kg	☼	02/14/20 17:08	02/18/20 13:24	1
Chloroform	<0.00068		0.0019	0.00068	mg/Kg	☼	02/14/20 17:08	02/18/20 13:24	1
Chloromethane	<0.0020		0.0049	0.0020	mg/Kg	☼	02/14/20 17:08	02/18/20 13:24	1
cis-1,2-Dichloroethene	<0.00054		0.0019	0.00054	mg/Kg	☼	02/14/20 17:08	02/18/20 13:24	1
cis-1,3-Dichloropropene	<0.00059		0.0019	0.00059	mg/Kg	☼	02/14/20 17:08	02/18/20 13:24	1
Dibromochloromethane	<0.00064		0.0019	0.00064	mg/Kg	☼	02/14/20 17:08	02/18/20 13:24	1
1,1-Dichloroethane	<0.00067		0.0019	0.00067	mg/Kg	☼	02/14/20 17:08	02/18/20 13:24	1
1,2-Dichloroethane	<0.0015		0.0049	0.0015	mg/Kg	☼	02/14/20 17:08	02/18/20 13:24	1
1,1-Dichloroethene	<0.00067		0.0019	0.00067	mg/Kg	☼	02/14/20 17:08	02/18/20 13:24	1
1,2-Dichloropropene	<0.00050		0.0019	0.00050	mg/Kg	☼	02/14/20 17:08	02/18/20 13:24	1
1,3-Dichloropropene, Total	<0.00068		0.0019	0.00068	mg/Kg	☼	02/14/20 17:08	02/18/20 13:24	1
Ethylbenzene	<0.00093		0.0019	0.00093	mg/Kg	☼	02/14/20 17:08	02/18/20 13:24	1
2-Hexanone	<0.0015		0.0049	0.0015	mg/Kg	☼	02/14/20 17:08	02/18/20 13:24	1
Methylene Chloride	<0.0019		0.0049	0.0019	mg/Kg	☼	02/14/20 17:08	02/18/20 13:24	1
4-Methyl-2-pentanone (MIBK)	<0.0014		0.0049	0.0014	mg/Kg	☼	02/14/20 17:08	02/18/20 13:24	1
Methyl tert-butyl ether	<0.00057		0.0019	0.00057	mg/Kg	☼	02/14/20 17:08	02/18/20 13:24	1
Styrene	<0.00059		0.0019	0.00059	mg/Kg	☼	02/14/20 17:08	02/18/20 13:24	1
1,1,2,2-Tetrachloroethane	<0.00062		0.0019	0.00062	mg/Kg	☼	02/14/20 17:08	02/18/20 13:24	1
Tetrachloroethene	<0.00066		0.0019	0.00066	mg/Kg	☼	02/14/20 17:08	02/18/20 13:24	1
Toluene	<0.00049		0.0019	0.00049	mg/Kg	☼	02/14/20 17:08	02/18/20 13:24	1
trans-1,2-Dichloroethene	<0.00086		0.0019	0.00086	mg/Kg	☼	02/14/20 17:08	02/18/20 13:24	1
trans-1,3-Dichloropropene	<0.00068		0.0019	0.00068	mg/Kg	☼	02/14/20 17:08	02/18/20 13:24	1
1,1,1-Trichloroethane	<0.00065		0.0019	0.00065	mg/Kg	☼	02/14/20 17:08	02/18/20 13:24	1
1,1,2-Trichloroethane	<0.00084		0.0019	0.00084	mg/Kg	☼	02/14/20 17:08	02/18/20 13:24	1
Trichloroethene	<0.00066		0.0019	0.00066	mg/Kg	☼	02/14/20 17:08	02/18/20 13:24	1
Vinyl acetate	<0.0017		0.0049	0.0017	mg/Kg	☼	02/14/20 17:08	02/18/20 13:24	1
Vinyl chloride	<0.00086		0.0019	0.00086	mg/Kg	☼	02/14/20 17:08	02/18/20 13:24	1
Xylenes, Total	<0.00062		0.0039	0.00062	mg/Kg	☼	02/14/20 17:08	02/18/20 13:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		75 - 131	02/14/20 17:08	02/18/20 13:24	1
Dibromofluoromethane	106		75 - 126	02/14/20 17:08	02/18/20 13:24	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134	02/14/20 17:08	02/18/20 13:24	1
Toluene-d8 (Surr)	89		75 - 124	02/14/20 17:08	02/18/20 13:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0073		0.040	0.0073	mg/Kg	☼	02/17/20 07:36	02/17/20 23:37	1
Acenaphthylene	<0.0054		0.040	0.0054	mg/Kg	☼	02/17/20 07:36	02/17/20 23:37	1
Anthracene	<0.0068		0.040	0.0068	mg/Kg	☼	02/17/20 07:36	02/17/20 23:37	1
Benzo[a]anthracene	0.0098	J	0.040	0.0055	mg/Kg	☼	02/17/20 07:36	02/17/20 23:37	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177901-1

Client Sample ID: 3229V-8-B02 (5-9)

Lab Sample ID: 500-177901-4

Date Collected: 02/13/20 11:40

Matrix: Solid

Date Received: 02/14/20 14:00

Percent Solids: 80.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.0079		0.040	0.0079	mg/Kg	☼	02/17/20 07:36	02/17/20 23:37	1
Benzo[b]fluoranthene	<0.0088		0.040	0.0088	mg/Kg	☼	02/17/20 07:36	02/17/20 23:37	1
Benzo[g,h,i]perylene	<0.013		0.040	0.013	mg/Kg	☼	02/17/20 07:36	02/17/20 23:37	1
Benzo[k]fluoranthene	<0.012		0.040	0.012	mg/Kg	☼	02/17/20 07:36	02/17/20 23:37	1
Bis(2-chloroethoxy)methane	<0.042		0.20	0.042	mg/Kg	☼	02/17/20 07:36	02/17/20 23:37	1
Bis(2-chloroethyl)ether	<0.061		0.20	0.061	mg/Kg	☼	02/17/20 07:36	02/17/20 23:37	1
Bis(2-ethylhexyl) phthalate	<0.074		0.20	0.074	mg/Kg	☼	02/17/20 07:36	02/17/20 23:37	1
4-Bromophenyl phenyl ether	<0.054		0.20	0.054	mg/Kg	☼	02/17/20 07:36	02/17/20 23:37	1
Butyl benzyl phthalate	<0.077		0.20	0.077	mg/Kg	☼	02/17/20 07:36	02/17/20 23:37	1
Carbazole	<0.10		0.20	0.10	mg/Kg	☼	02/17/20 07:36	02/17/20 23:37	1
4-Chloroaniline	<0.19		0.82	0.19	mg/Kg	☼	02/17/20 07:36	02/17/20 23:37	1
4-Chloro-3-methylphenol	<0.14		0.40	0.14	mg/Kg	☼	02/17/20 07:36	02/17/20 23:37	1
2-Chloronaphthalene	<0.045		0.20	0.045	mg/Kg	☼	02/17/20 07:36	02/17/20 23:37	1
2-Chlorophenol	<0.069		0.20	0.069	mg/Kg	☼	02/17/20 07:36	02/17/20 23:37	1
4-Chlorophenyl phenyl ether	<0.048		0.20	0.048	mg/Kg	☼	02/17/20 07:36	02/17/20 23:37	1
Chrysene	0.011	J	0.040	0.011	mg/Kg	☼	02/17/20 07:36	02/17/20 23:37	1
Dibenz(a,h)anthracene	<0.0079		0.040	0.0079	mg/Kg	☼	02/17/20 07:36	02/17/20 23:37	1
Dibenzofuran	<0.048		0.20	0.048	mg/Kg	☼	02/17/20 07:36	02/17/20 23:37	1
1,2-Dichlorobenzene	<0.049		0.20	0.049	mg/Kg	☼	02/17/20 07:36	02/17/20 23:37	1
1,3-Dichlorobenzene	<0.046		0.20	0.046	mg/Kg	☼	02/17/20 07:36	02/17/20 23:37	1
1,4-Dichlorobenzene	<0.052		0.20	0.052	mg/Kg	☼	02/17/20 07:36	02/17/20 23:37	1
3,3'-Dichlorobenzidine	<0.057		0.20	0.057	mg/Kg	☼	02/17/20 07:36	02/17/20 23:37	1
2,4-Dichlorophenol	<0.097		0.40	0.097	mg/Kg	☼	02/17/20 07:36	02/17/20 23:37	1
Diethyl phthalate	<0.069		0.20	0.069	mg/Kg	☼	02/17/20 07:36	02/17/20 23:37	1
2,4-Dimethylphenol	<0.15		0.40	0.15	mg/Kg	☼	02/17/20 07:36	02/17/20 23:37	1
Dimethyl phthalate	<0.053		0.20	0.053	mg/Kg	☼	02/17/20 07:36	02/17/20 23:37	1
Di-n-butyl phthalate	<0.062		0.20	0.062	mg/Kg	☼	02/17/20 07:36	02/17/20 23:37	1
4,6-Dinitro-2-methylphenol	<0.33		0.82	0.33	mg/Kg	☼	02/17/20 07:36	02/17/20 23:37	1
2,4-Dinitrophenol	<0.72		0.82	0.72	mg/Kg	☼	02/17/20 07:36	02/17/20 23:37	1
2,4-Dinitrotoluene	<0.065		0.20	0.065	mg/Kg	☼	02/17/20 07:36	02/17/20 23:37	1
2,6-Dinitrotoluene	<0.080		0.20	0.080	mg/Kg	☼	02/17/20 07:36	02/17/20 23:37	1
Di-n-octyl phthalate	<0.066		0.20	0.066	mg/Kg	☼	02/17/20 07:36	02/17/20 23:37	1
Fluoranthene	0.015	J	0.040	0.0075	mg/Kg	☼	02/17/20 07:36	02/17/20 23:37	1
Fluorene	<0.0057		0.040	0.0057	mg/Kg	☼	02/17/20 07:36	02/17/20 23:37	1
Hexachlorobenzene	<0.0094		0.082	0.0094	mg/Kg	☼	02/17/20 07:36	02/17/20 23:37	1
Hexachlorobutadiene	<0.064	*	0.20	0.064	mg/Kg	☼	02/17/20 07:36	02/17/20 23:37	1
Hexachlorocyclopentadiene	<0.23		0.82	0.23	mg/Kg	☼	02/17/20 07:36	02/17/20 23:37	1
Hexachloroethane	<0.062		0.20	0.062	mg/Kg	☼	02/17/20 07:36	02/17/20 23:37	1
Indeno[1,2,3-cd]pyrene	<0.011		0.040	0.011	mg/Kg	☼	02/17/20 07:36	02/17/20 23:37	1
Isophorone	<0.046	*	0.20	0.046	mg/Kg	☼	02/17/20 07:36	02/17/20 23:37	1
2-Methylnaphthalene	<0.0075		0.082	0.0075	mg/Kg	☼	02/17/20 07:36	02/17/20 23:37	1
2-Methylphenol	<0.065		0.20	0.065	mg/Kg	☼	02/17/20 07:36	02/17/20 23:37	1
3 & 4 Methylphenol	<0.068		0.20	0.068	mg/Kg	☼	02/17/20 07:36	02/17/20 23:37	1
Naphthalene	<0.0063		0.040	0.0063	mg/Kg	☼	02/17/20 07:36	02/17/20 23:37	1
2-Nitroaniline	<0.055		0.20	0.055	mg/Kg	☼	02/17/20 07:36	02/17/20 23:37	1
3-Nitroaniline	<0.13		0.40	0.13	mg/Kg	☼	02/17/20 07:36	02/17/20 23:37	1
4-Nitroaniline	<0.17		0.40	0.17	mg/Kg	☼	02/17/20 07:36	02/17/20 23:37	1
Nitrobenzene	<0.010	*	0.040	0.010	mg/Kg	☼	02/17/20 07:36	02/17/20 23:37	1
2-Nitrophenol	<0.096		0.40	0.096	mg/Kg	☼	02/17/20 07:36	02/17/20 23:37	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177901-1

Client Sample ID: 3229V-8-B02 (5-9)

Lab Sample ID: 500-177901-4

Date Collected: 02/13/20 11:40

Matrix: Solid

Date Received: 02/14/20 14:00

Percent Solids: 80.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.39		0.82	0.39	mg/Kg	☼	02/17/20 07:36	02/17/20 23:37	1
N-Nitrosodi-n-propylamine	<0.050	*	0.082	0.050	mg/Kg	☼	02/17/20 07:36	02/17/20 23:37	1
N-Nitrosodiphenylamine	<0.048		0.20	0.048	mg/Kg	☼	02/17/20 07:36	02/17/20 23:37	1
2,2'-oxybis[1-chloropropane]	<0.047		0.20	0.047	mg/Kg	☼	02/17/20 07:36	02/17/20 23:37	1
Pentachlorophenol	<0.65		0.82	0.65	mg/Kg	☼	02/17/20 07:36	02/17/20 23:37	1
Phenanthrene	0.016	J	0.040	0.0057	mg/Kg	☼	02/17/20 07:36	02/17/20 23:37	1
Phenol	<0.090		0.20	0.090	mg/Kg	☼	02/17/20 07:36	02/17/20 23:37	1
Pyrene	0.017	J	0.040	0.0081	mg/Kg	☼	02/17/20 07:36	02/17/20 23:37	1
1,2,4-Trichlorobenzene	<0.044		0.20	0.044	mg/Kg	☼	02/17/20 07:36	02/17/20 23:37	1
2,4,5-Trichlorophenol	<0.093		0.40	0.093	mg/Kg	☼	02/17/20 07:36	02/17/20 23:37	1
2,4,6-Trichlorophenol	<0.14		0.40	0.14	mg/Kg	☼	02/17/20 07:36	02/17/20 23:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	106		43 - 145				02/17/20 07:36	02/17/20 23:37	1
2-Fluorophenol	151		31 - 166				02/17/20 07:36	02/17/20 23:37	1
Nitrobenzene-d5	103		37 - 147				02/17/20 07:36	02/17/20 23:37	1
Phenol-d5	127		30 - 153				02/17/20 07:36	02/17/20 23:37	1
Terphenyl-d14	180	X	42 - 157				02/17/20 07:36	02/17/20 23:37	1
2,4,6-Tribromophenol	61		31 - 143				02/17/20 07:36	02/17/20 23:37	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.47	J	1.1	0.22	mg/Kg	☼	02/18/20 16:42	02/19/20 14:34	1
Arsenic	4.9		0.57	0.19	mg/Kg	☼	02/18/20 16:42	02/19/20 14:34	1
Barium	70		0.57	0.065	mg/Kg	☼	02/18/20 16:42	02/19/20 14:34	1
Beryllium	0.81		0.23	0.053	mg/Kg	☼	02/18/20 16:42	02/19/20 14:34	1
Cadmium	0.24	B	0.11	0.021	mg/Kg	☼	02/18/20 16:42	02/19/20 14:34	1
Chromium	18		0.57	0.28	mg/Kg	☼	02/18/20 16:42	02/19/20 14:34	1
Cobalt	9.8		0.28	0.075	mg/Kg	☼	02/18/20 16:42	02/19/20 14:34	1
Copper	19		0.57	0.16	mg/Kg	☼	02/18/20 16:42	02/19/20 14:34	1
Iron	17000		11	5.9	mg/Kg	☼	02/18/20 16:42	02/19/20 14:34	1
Lead	14		0.28	0.13	mg/Kg	☼	02/18/20 16:42	02/19/20 14:34	1
Magnesium	14000		5.7	2.8	mg/Kg	☼	02/18/20 16:42	02/19/20 14:34	1
Calcium	26000		11	1.9	mg/Kg	☼	02/18/20 16:42	02/19/20 14:34	1
Manganese	310		0.57	0.083	mg/Kg	☼	02/18/20 16:42	02/19/20 14:34	1
Nickel	28		0.57	0.17	mg/Kg	☼	02/18/20 16:42	02/19/20 14:34	1
Selenium	<0.34		0.57	0.34	mg/Kg	☼	02/18/20 16:42	02/19/20 14:34	1
Silver	0.11	J	0.28	0.074	mg/Kg	☼	02/18/20 16:42	02/19/20 14:34	1
Thallium	<0.28		0.57	0.28	mg/Kg	☼	02/18/20 16:42	02/19/20 14:34	1
Vanadium	26		0.28	0.067	mg/Kg	☼	02/18/20 16:42	02/19/20 14:34	1
Zinc	64		1.1	0.50	mg/Kg	☼	02/18/20 16:42	02/19/20 14:34	1
Potassium	1800		28	10	mg/Kg	☼	02/18/20 16:42	02/19/20 14:34	1
Sodium	140		57	8.4	mg/Kg	☼	02/18/20 16:42	02/19/20 14:34	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		02/24/20 06:22	02/24/20 18:47	1
Barium	0.44	J	0.50	0.050	mg/L		02/24/20 06:22	02/24/20 18:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/24/20 06:22	02/24/20 18:47	1
Cadmium	0.0023	J	0.0050	0.0020	mg/L		02/24/20 06:22	02/24/20 18:47	1

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Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177901-1

Client Sample ID: 3229V-8-B02 (5-9)

Lab Sample ID: 500-177901-4

Date Collected: 02/13/20 11:40

Matrix: Solid

Date Received: 02/14/20 14:00

Percent Solids: 80.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	370		5.0	0.50	mg/L		02/24/20 06:22	02/24/20 18:47	1
Chromium	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:47	1
Cobalt	0.019	J	0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:47	1
Copper	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:47	1
Iron	<0.20		0.40	0.20	mg/L		02/24/20 06:22	02/24/20 18:47	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/24/20 06:22	02/24/20 18:47	1
Magnesium	87		2.5	0.50	mg/L		02/24/20 06:22	02/24/20 18:47	1
Manganese	5.8		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:47	1
Nickel	0.017	J	0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:47	1
Potassium	1.6	J	2.5	0.50	mg/L		02/24/20 06:22	02/24/20 18:47	1
Selenium	<0.020		0.050	0.020	mg/L		02/24/20 06:22	02/24/20 18:47	1
Silver	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:47	1
Vanadium	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 18:47	1
Zinc	0.036	J *	0.50	0.020	mg/L		02/24/20 06:22	02/24/20 18:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.051		0.025	0.010	mg/L		02/24/20 06:19	02/24/20 19:32	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		02/24/20 06:22	02/24/20 19:59	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/24/20 06:22	02/24/20 19:59	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/24/20 10:20	02/25/20 09:35	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.020	0.0067	mg/Kg	☼	02/21/20 15:40	02/24/20 10:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.30		0.60	0.30	mg/Kg	☼	02/26/20 09:30	02/26/20 13:07	1
pH	8.1		0.2	0.2	SU			02/22/20 19:18	1

Definitions/Glossary

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177901-1

Qualifiers

GC/MS Semi VOA

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

Metals

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

Glossary

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

QC Association Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177901-1

GC/MS VOA

Prep Batch: 529871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177901-1	3229V-8-B01 (0-5)	Total/NA	Solid	5035	
500-177901-2	3229V-8-B01 (5-9)	Total/NA	Solid	5035	
500-177901-3	3229V-8-B02 (0-5)	Total/NA	Solid	5035	
500-177901-4	3229V-8-B02 (5-9)	Total/NA	Solid	5035	

Analysis Batch: 530116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177901-1	3229V-8-B01 (0-5)	Total/NA	Solid	8260B	529871
500-177901-2	3229V-8-B01 (5-9)	Total/NA	Solid	8260B	529871
500-177901-3	3229V-8-B02 (0-5)	Total/NA	Solid	8260B	529871
500-177901-4	3229V-8-B02 (5-9)	Total/NA	Solid	8260B	529871
MB 500-530116/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-530116/7	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-530116/8	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 529933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177901-1	3229V-8-B01 (0-5)	Total/NA	Solid	3541	
500-177901-2	3229V-8-B01 (5-9)	Total/NA	Solid	3541	
500-177901-3 - DL	3229V-8-B02 (0-5)	Total/NA	Solid	3541	
500-177901-3	3229V-8-B02 (0-5)	Total/NA	Solid	3541	
500-177901-4	3229V-8-B02 (5-9)	Total/NA	Solid	3541	
MB 500-529933/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-529933/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 530041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-529933/1-A	Method Blank	Total/NA	Solid	8270D	529933
LCS 500-529933/2-A	Lab Control Sample	Total/NA	Solid	8270D	529933

Analysis Batch: 530074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177901-2	3229V-8-B01 (5-9)	Total/NA	Solid	8270D	529933
500-177901-4	3229V-8-B02 (5-9)	Total/NA	Solid	8270D	529933

Analysis Batch: 530144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177901-3	3229V-8-B02 (0-5)	Total/NA	Solid	8270D	529933
500-177901-3 - DL	3229V-8-B02 (0-5)	Total/NA	Solid	8270D	529933

Analysis Batch: 530474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177901-1	3229V-8-B01 (0-5)	Total/NA	Solid	8270D	529933

Metals

Prep Batch: 530259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177901-1	3229V-8-B01 (0-5)	Total/NA	Solid	3050B	
500-177901-2	3229V-8-B01 (5-9)	Total/NA	Solid	3050B	

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QC Association Summary

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177901-1

Metals (Continued)

Prep Batch: 530259 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177901-3	3229V-8-B02 (0-5)	Total/NA	Solid	3050B	
500-177901-4	3229V-8-B02 (5-9)	Total/NA	Solid	3050B	
MB 500-530259/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-530259/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-177901-1 MS	3229V-8-B01 (0-5)	Total/NA	Solid	3050B	
500-177901-1 MSD	3229V-8-B01 (0-5)	Total/NA	Solid	3050B	
500-177901-1 DU	3229V-8-B01 (0-5)	Total/NA	Solid	3050B	

Analysis Batch: 530529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177901-1	3229V-8-B01 (0-5)	Total/NA	Solid	6010B	530259
500-177901-2	3229V-8-B01 (5-9)	Total/NA	Solid	6010B	530259
500-177901-3	3229V-8-B02 (0-5)	Total/NA	Solid	6010B	530259
500-177901-4	3229V-8-B02 (5-9)	Total/NA	Solid	6010B	530259
MB 500-530259/1-A	Method Blank	Total/NA	Solid	6010B	530259
LCS 500-530259/2-A	Lab Control Sample	Total/NA	Solid	6010B	530259
500-177901-1 MS	3229V-8-B01 (0-5)	Total/NA	Solid	6010B	530259
500-177901-1 MSD	3229V-8-B01 (0-5)	Total/NA	Solid	6010B	530259
500-177901-1 DU	3229V-8-B01 (0-5)	Total/NA	Solid	6010B	530259

Analysis Batch: 530786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177901-2	3229V-8-B01 (5-9)	Total/NA	Solid	6010B	530259

Prep Batch: 530893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177901-1	3229V-8-B01 (0-5)	Total/NA	Solid	7471B	
500-177901-2	3229V-8-B01 (5-9)	Total/NA	Solid	7471B	
500-177901-3	3229V-8-B02 (0-5)	Total/NA	Solid	7471B	
500-177901-4	3229V-8-B02 (5-9)	Total/NA	Solid	7471B	
MB 500-530893/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-530893/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Leach Batch: 530902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177901-1	3229V-8-B01 (0-5)	SPLP East	Solid	1312	
500-177901-2	3229V-8-B01 (5-9)	SPLP East	Solid	1312	
500-177901-3	3229V-8-B02 (0-5)	SPLP East	Solid	1312	
500-177901-4	3229V-8-B02 (5-9)	SPLP East	Solid	1312	
LB 500-530902/1-B	Method Blank	SPLP East	Solid	1312	

Leach Batch: 530903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177901-1	3229V-8-B01 (0-5)	TCLP	Solid	1311	
500-177901-2	3229V-8-B01 (5-9)	TCLP	Solid	1311	
500-177901-3	3229V-8-B02 (0-5)	TCLP	Solid	1311	
500-177901-4	3229V-8-B02 (5-9)	TCLP	Solid	1311	
LB 500-530903/1-B	Method Blank	TCLP	Solid	1311	
LB 500-530903/2-B	Method Blank	TCLP	Solid	1311	

QC Association Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177901-1

Metals

Prep Batch: 531035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177901-1	3229V-8-B01 (0-5)	SPLP East	Solid	3010A	530902
500-177901-2	3229V-8-B01 (5-9)	SPLP East	Solid	3010A	530902
500-177901-3	3229V-8-B02 (0-5)	SPLP East	Solid	3010A	530902
500-177901-4	3229V-8-B02 (5-9)	SPLP East	Solid	3010A	530902
LB 500-530902/1-B	Method Blank	SPLP East	Solid	3010A	530902
LCS 500-531035/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 531036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177901-1	3229V-8-B01 (0-5)	TCLP	Solid	3010A	530903
500-177901-2	3229V-8-B01 (5-9)	TCLP	Solid	3010A	530903
500-177901-3	3229V-8-B02 (0-5)	TCLP	Solid	3010A	530903
500-177901-4	3229V-8-B02 (5-9)	TCLP	Solid	3010A	530903
LB 500-530903/1-B	Method Blank	TCLP	Solid	3010A	530903
LCS 500-531036/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 531122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177901-1	3229V-8-B01 (0-5)	TCLP	Solid	7470A	530903
500-177901-2	3229V-8-B01 (5-9)	TCLP	Solid	7470A	530903
500-177901-3	3229V-8-B02 (0-5)	TCLP	Solid	7470A	530903
500-177901-4	3229V-8-B02 (5-9)	TCLP	Solid	7470A	530903
LB 500-530903/2-B	Method Blank	TCLP	Solid	7470A	530903
MB 500-531122/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-531122/14-A	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 531150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177901-1	3229V-8-B01 (0-5)	Total/NA	Solid	7471B	530893
500-177901-2	3229V-8-B01 (5-9)	Total/NA	Solid	7471B	530893
500-177901-3	3229V-8-B02 (0-5)	Total/NA	Solid	7471B	530893
500-177901-4	3229V-8-B02 (5-9)	Total/NA	Solid	7471B	530893
MB 500-530893/12-A	Method Blank	Total/NA	Solid	7471B	530893
LCS 500-530893/13-A	Lab Control Sample	Total/NA	Solid	7471B	530893

Analysis Batch: 531227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177901-1	3229V-8-B01 (0-5)	TCLP	Solid	6010B	531036
500-177901-2	3229V-8-B01 (5-9)	TCLP	Solid	6010B	531036
500-177901-3	3229V-8-B02 (0-5)	TCLP	Solid	6010B	531036
500-177901-4	3229V-8-B02 (5-9)	TCLP	Solid	6010B	531036
LB 500-530903/1-B	Method Blank	TCLP	Solid	6010B	531036
LCS 500-531036/2-A	Lab Control Sample	Total/NA	Solid	6010B	531036

Analysis Batch: 531230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177901-1	3229V-8-B01 (0-5)	SPLP East	Solid	6010B	531035
500-177901-2	3229V-8-B01 (5-9)	SPLP East	Solid	6010B	531035
500-177901-3	3229V-8-B02 (0-5)	SPLP East	Solid	6010B	531035
500-177901-4	3229V-8-B02 (5-9)	SPLP East	Solid	6010B	531035
LB 500-530902/1-B	Method Blank	SPLP East	Solid	6010B	531035

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QC Association Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177901-1

Metals (Continued)

Analysis Batch: 531230 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-531035/2-A	Lab Control Sample	Total/NA	Solid	6010B	531035

Analysis Batch: 531307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177901-1	3229V-8-B01 (0-5)	TCLP	Solid	6020A	531036
500-177901-2	3229V-8-B01 (5-9)	TCLP	Solid	6020A	531036
500-177901-3	3229V-8-B02 (0-5)	TCLP	Solid	6020A	531036
500-177901-4	3229V-8-B02 (5-9)	TCLP	Solid	6020A	531036
LB 500-530903/1-B	Method Blank	TCLP	Solid	6020A	531036
LCS 500-531036/2-A	Lab Control Sample	Total/NA	Solid	6020A	531036

Analysis Batch: 531315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177901-1	3229V-8-B01 (0-5)	TCLP	Solid	7470A	531122
500-177901-2	3229V-8-B01 (5-9)	TCLP	Solid	7470A	531122
500-177901-3	3229V-8-B02 (0-5)	TCLP	Solid	7470A	531122
500-177901-4	3229V-8-B02 (5-9)	TCLP	Solid	7470A	531122
LB 500-530903/2-B	Method Blank	TCLP	Solid	7470A	531122
MB 500-531122/12-A	Method Blank	Total/NA	Solid	7470A	531122
LCS 500-531122/14-A	Lab Control Sample	Total/NA	Solid	7470A	531122

General Chemistry

Analysis Batch: 530346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177901-1	3229V-8-B01 (0-5)	Total/NA	Solid	Moisture	
500-177901-2	3229V-8-B01 (5-9)	Total/NA	Solid	Moisture	
500-177901-3	3229V-8-B02 (0-5)	Total/NA	Solid	Moisture	
500-177901-4	3229V-8-B02 (5-9)	Total/NA	Solid	Moisture	

Analysis Batch: 531081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177901-1	3229V-8-B01 (0-5)	Total/NA	Solid	9045D	
500-177901-2	3229V-8-B01 (5-9)	Total/NA	Solid	9045D	
500-177901-3	3229V-8-B02 (0-5)	Total/NA	Solid	9045D	
500-177901-4	3229V-8-B02 (5-9)	Total/NA	Solid	9045D	
LCS 500-531081/6	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-531081/7	Lab Control Sample Dup	Total/NA	Solid	9045D	

Prep Batch: 531452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177901-1	3229V-8-B01 (0-5)	Total/NA	Solid	9010B	
500-177901-2	3229V-8-B01 (5-9)	Total/NA	Solid	9010B	
500-177901-3	3229V-8-B02 (0-5)	Total/NA	Solid	9010B	
500-177901-4	3229V-8-B02 (5-9)	Total/NA	Solid	9010B	
MB 500-531452/1-A	Method Blank	Total/NA	Solid	9010B	
LCS 500-531452/2-A	Lab Control Sample	Total/NA	Solid	9010B	

Analysis Batch: 531560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177901-1	3229V-8-B01 (0-5)	Total/NA	Solid	9014	531452

Eurofins TestAmerica, Chicago

QC Association Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177901-1

General Chemistry (Continued)

Analysis Batch: 531560 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177901-2	3229V-8-B01 (5-9)	Total/NA	Solid	9014	531452
500-177901-3	3229V-8-B02 (0-5)	Total/NA	Solid	9014	531452
500-177901-4	3229V-8-B02 (5-9)	Total/NA	Solid	9014	531452
MB 500-531452/1-A	Method Blank	Total/NA	Solid	9014	531452
LCS 500-531452/2-A	Lab Control Sample	Total/NA	Solid	9014	531452

Surrogate Summary

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177901-1

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(75-131)	(75-126)	(70-134)	(75-124)
500-177901-1	3229V-8-B01 (0-5)	95	111	102	93
500-177901-2	3229V-8-B01 (5-9)	103	107	106	90
500-177901-3	3229V-8-B02 (0-5)	103	107	107	89
500-177901-4	3229V-8-B02 (5-9)	100	106	107	89
LCS 500-530116/7	Lab Control Sample	96	99	95	91
LCSD 500-530116/8	Lab Control Sample Dup	96	99	96	92
MB 500-530116/6	Method Blank	101	102	102	88

Surrogate Legend

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

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	FBP	2FP	NBZ	PHL	TPHL	TBP
		(43-145)	(31-166)	(37-147)	(30-153)	(42-157)	(31-143)
500-177901-1	3229V-8-B01 (0-5)	77	67	64	71	153	94
500-177901-2	3229V-8-B01 (5-9)	109	146	101	119	141	47
500-177901-3	3229V-8-B02 (0-5)	88	94	101	104	146	71
500-177901-3 - DL	3229V-8-B02 (0-5)	88	93	96	111	168 X	85
500-177901-4	3229V-8-B02 (5-9)	106	151	103	127	180 X	61
LCS 500-529933/2-A	Lab Control Sample	94	127	117	116	129	124
MB 500-529933/1-A	Method Blank	93	140	103	125	136	114

Surrogate Legend

FBP = 2-Fluorobiphenyl
 2FP = 2-Fluorophenol
 NBZ = Nitrobenzene-d5
 PHL = Phenol-d5
 TPHL = Terphenyl-d14
 TBP = 2,4,6-Tribromophenol

QC Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177901-1

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

Lab Sample ID: MB 500-530116/6
Matrix: Solid
Analysis Batch: 530116

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.0087		0.020	0.0087	mg/Kg			02/18/20 10:46	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg			02/18/20 10:46	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg			02/18/20 10:46	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg			02/18/20 10:46	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg			02/18/20 10:46	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			02/18/20 10:46	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg			02/18/20 10:46	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg			02/18/20 10:46	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg			02/18/20 10:46	1
Chloroethane	<0.0015		0.0050	0.0015	mg/Kg			02/18/20 10:46	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg			02/18/20 10:46	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg			02/18/20 10:46	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg			02/18/20 10:46	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg			02/18/20 10:46	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg			02/18/20 10:46	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg			02/18/20 10:46	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg			02/18/20 10:46	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg			02/18/20 10:46	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			02/18/20 10:46	1
1,3-Dichloropropene, Total	<0.00070		0.0020	0.00070	mg/Kg			02/18/20 10:46	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg			02/18/20 10:46	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg			02/18/20 10:46	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg			02/18/20 10:46	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg			02/18/20 10:46	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg			02/18/20 10:46	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg			02/18/20 10:46	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg			02/18/20 10:46	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg			02/18/20 10:46	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg			02/18/20 10:46	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg			02/18/20 10:46	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg			02/18/20 10:46	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg			02/18/20 10:46	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg			02/18/20 10:46	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg			02/18/20 10:46	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg			02/18/20 10:46	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg			02/18/20 10:46	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg			02/18/20 10:46	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	101		75 - 131		02/18/20 10:46	1
Dibromofluoromethane	102		75 - 126		02/18/20 10:46	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134		02/18/20 10:46	1
Toluene-d8 (Surr)	88		75 - 124		02/18/20 10:46	1

QC Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177901-1

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

Lab Sample ID: LCS 500-530116/7

Matrix: Solid

Analysis Batch: 530116

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	0.0604		mg/Kg		121	40 - 150
Benzene	0.0500	0.0544		mg/Kg		109	70 - 125
Bromodichloromethane	0.0500	0.0551		mg/Kg		110	67 - 129
Bromoform	0.0500	0.0546		mg/Kg		109	68 - 136
Bromomethane	0.0500	0.0432		mg/Kg		86	70 - 130
2-Butanone (MEK)	0.0500	0.0519		mg/Kg		104	47 - 138
Carbon disulfide	0.0500	0.0559		mg/Kg		112	70 - 129
Carbon tetrachloride	0.0500	0.0613		mg/Kg		123	75 - 125
Chlorobenzene	0.0500	0.0546		mg/Kg		109	50 - 150
Chloroethane	0.0500	0.0520		mg/Kg		104	75 - 125
Chloroform	0.0500	0.0585		mg/Kg		117	57 - 135
Chloromethane	0.0500	0.0473		mg/Kg		95	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0581		mg/Kg		116	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0508		mg/Kg		102	70 - 125
Dibromochloromethane	0.0500	0.0555		mg/Kg		111	69 - 125
1,1-Dichloroethane	0.0500	0.0581		mg/Kg		116	70 - 125
1,2-Dichloroethane	0.0500	0.0584		mg/Kg		117	70 - 130
1,1-Dichloroethene	0.0500	0.0566		mg/Kg		113	70 - 120
1,2-Dichloropropane	0.0500	0.0521		mg/Kg		104	70 - 125
Ethylbenzene	0.0500	0.0544		mg/Kg		109	61 - 136
2-Hexanone	0.0500	0.0525		mg/Kg		105	48 - 146
Methylene Chloride	0.0500	0.0551		mg/Kg		110	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0510		mg/Kg		102	50 - 148
Methyl tert-butyl ether	0.0500	0.0589		mg/Kg		118	50 - 140
Styrene	0.0500	0.0554		mg/Kg		111	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0513		mg/Kg		103	70 - 122
Tetrachloroethene	0.0500	0.0513		mg/Kg		103	70 - 124
Toluene	0.0500	0.0516		mg/Kg		103	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0578		mg/Kg		116	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0517		mg/Kg		103	70 - 125
1,1,1-Trichloroethane	0.0500	0.0607		mg/Kg		121	70 - 128
1,1,2-Trichloroethane	0.0500	0.0523		mg/Kg		105	70 - 125
Trichloroethene	0.0500	0.0576		mg/Kg		115	70 - 125
Vinyl acetate	0.0500	0.0585		mg/Kg		117	40 - 153
Vinyl chloride	0.0500	0.0484		mg/Kg		97	70 - 125
Xylenes, Total	0.100	0.111		mg/Kg		111	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	96		75 - 131
Dibromofluoromethane	99		75 - 126
1,2-Dichloroethane-d4 (Surr)	95		70 - 134
Toluene-d8 (Surr)	91		75 - 124

QC Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177901-1

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

Lab Sample ID: LCSD 500-530116/8

Matrix: Solid

Analysis Batch: 530116

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	0.0541		mg/Kg		108	40 - 150	11	30
Benzene	0.0500	0.0514		mg/Kg		103	70 - 125	6	30
Bromodichloromethane	0.0500	0.0514		mg/Kg		103	67 - 129	7	30
Bromoform	0.0500	0.0524		mg/Kg		105	68 - 136	4	30
Bromomethane	0.0500	0.0425		mg/Kg		85	70 - 130	2	30
2-Butanone (MEK)	0.0500	0.0522		mg/Kg		104	47 - 138	1	30
Carbon disulfide	0.0500	0.0532		mg/Kg		106	70 - 129	5	30
Carbon tetrachloride	0.0500	0.0583		mg/Kg		117	75 - 125	5	30
Chlorobenzene	0.0500	0.0519		mg/Kg		104	50 - 150	5	30
Chloroethane	0.0500	0.0509		mg/Kg		102	75 - 125	2	30
Chloroform	0.0500	0.0551		mg/Kg		110	57 - 135	6	30
Chloromethane	0.0500	0.0474		mg/Kg		95	70 - 125	0	30
cis-1,2-Dichloroethene	0.0500	0.0547		mg/Kg		109	70 - 125	6	30
cis-1,3-Dichloropropene	0.0500	0.0483		mg/Kg		97	70 - 125	5	30
Dibromochloromethane	0.0500	0.0531		mg/Kg		106	69 - 125	5	30
1,1-Dichloroethane	0.0500	0.0551		mg/Kg		110	70 - 125	5	30
1,2-Dichloroethane	0.0500	0.0549		mg/Kg		110	70 - 130	6	30
1,1-Dichloroethene	0.0500	0.0538		mg/Kg		108	70 - 120	5	30
1,2-Dichloropropane	0.0500	0.0504		mg/Kg		101	70 - 125	3	30
Ethylbenzene	0.0500	0.0528		mg/Kg		106	61 - 136	3	30
2-Hexanone	0.0500	0.0526		mg/Kg		105	48 - 146	0	30
Methylene Chloride	0.0500	0.0523		mg/Kg		105	70 - 126	5	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0505		mg/Kg		101	50 - 148	1	30
Methyl tert-butyl ether	0.0500	0.0551		mg/Kg		110	50 - 140	7	30
Styrene	0.0500	0.0531		mg/Kg		106	70 - 125	4	30
1,1,2,2-Tetrachloroethane	0.0500	0.0494		mg/Kg		99	70 - 122	4	30
Tetrachloroethene	0.0500	0.0494		mg/Kg		99	70 - 124	4	30
Toluene	0.0500	0.0493		mg/Kg		99	70 - 125	5	30
trans-1,2-Dichloroethene	0.0500	0.0548		mg/Kg		110	70 - 125	5	30
trans-1,3-Dichloropropene	0.0500	0.0494		mg/Kg		99	70 - 125	5	30
1,1,1-Trichloroethane	0.0500	0.0567		mg/Kg		113	70 - 128	7	30
1,1,2-Trichloroethane	0.0500	0.0499		mg/Kg		100	70 - 125	5	30
Trichloroethene	0.0500	0.0554		mg/Kg		111	70 - 125	4	30
Vinyl acetate	0.0500	0.0560		mg/Kg		112	40 - 153	4	30
Vinyl chloride	0.0500	0.0486		mg/Kg		97	70 - 125	0	30
Xylenes, Total	0.100	0.107		mg/Kg		107	53 - 147	4	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	96		75 - 131
Dibromofluoromethane	99		75 - 126
1,2-Dichloroethane-d4 (Surr)	96		70 - 134
Toluene-d8 (Surr)	92		75 - 124

QC Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177901-1

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

Lab Sample ID: MB 500-529933/1-A

Matrix: Solid

Analysis Batch: 530041

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 529933

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0060		0.033	0.0060	mg/Kg		02/17/20 07:36	02/17/20 20:39	1
Acenaphthylene	<0.0044		0.033	0.0044	mg/Kg		02/17/20 07:36	02/17/20 20:39	1
Anthracene	<0.0056		0.033	0.0056	mg/Kg		02/17/20 07:36	02/17/20 20:39	1
Benzo[a]anthracene	<0.0045		0.033	0.0045	mg/Kg		02/17/20 07:36	02/17/20 20:39	1
Benzo[a]pyrene	<0.0064		0.033	0.0064	mg/Kg		02/17/20 07:36	02/17/20 20:39	1
Benzo[b]fluoranthene	<0.0072		0.033	0.0072	mg/Kg		02/17/20 07:36	02/17/20 20:39	1
Benzo[g,h,i]perylene	<0.011		0.033	0.011	mg/Kg		02/17/20 07:36	02/17/20 20:39	1
Benzo[k]fluoranthene	<0.0098		0.033	0.0098	mg/Kg		02/17/20 07:36	02/17/20 20:39	1
Bis(2-chloroethoxy)methane	<0.034		0.17	0.034	mg/Kg		02/17/20 07:36	02/17/20 20:39	1
Bis(2-chloroethyl)ether	<0.050		0.17	0.050	mg/Kg		02/17/20 07:36	02/17/20 20:39	1
Bis(2-ethylhexyl) phthalate	<0.061		0.17	0.061	mg/Kg		02/17/20 07:36	02/17/20 20:39	1
4-Bromophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		02/17/20 07:36	02/17/20 20:39	1
Butyl benzyl phthalate	<0.063		0.17	0.063	mg/Kg		02/17/20 07:36	02/17/20 20:39	1
Carbazole	<0.083		0.17	0.083	mg/Kg		02/17/20 07:36	02/17/20 20:39	1
4-Chloroaniline	<0.16		0.67	0.16	mg/Kg		02/17/20 07:36	02/17/20 20:39	1
4-Chloro-3-methylphenol	<0.11		0.33	0.11	mg/Kg		02/17/20 07:36	02/17/20 20:39	1
2-Chloronaphthalene	<0.037		0.17	0.037	mg/Kg		02/17/20 07:36	02/17/20 20:39	1
2-Chlorophenol	<0.057		0.17	0.057	mg/Kg		02/17/20 07:36	02/17/20 20:39	1
4-Chlorophenyl phenyl ether	<0.039		0.17	0.039	mg/Kg		02/17/20 07:36	02/17/20 20:39	1
Chrysene	<0.0091		0.033	0.0091	mg/Kg		02/17/20 07:36	02/17/20 20:39	1
Dibenz(a,h)anthracene	<0.0064		0.033	0.0064	mg/Kg		02/17/20 07:36	02/17/20 20:39	1
Dibenzofuran	<0.039		0.17	0.039	mg/Kg		02/17/20 07:36	02/17/20 20:39	1
1,2-Dichlorobenzene	<0.040		0.17	0.040	mg/Kg		02/17/20 07:36	02/17/20 20:39	1
1,3-Dichlorobenzene	<0.037		0.17	0.037	mg/Kg		02/17/20 07:36	02/17/20 20:39	1
1,4-Dichlorobenzene	<0.043		0.17	0.043	mg/Kg		02/17/20 07:36	02/17/20 20:39	1
3,3'-Dichlorobenzidine	<0.047		0.17	0.047	mg/Kg		02/17/20 07:36	02/17/20 20:39	1
2,4-Dichlorophenol	<0.079		0.33	0.079	mg/Kg		02/17/20 07:36	02/17/20 20:39	1
Diethyl phthalate	<0.056		0.17	0.056	mg/Kg		02/17/20 07:36	02/17/20 20:39	1
2,4-Dimethylphenol	<0.13		0.33	0.13	mg/Kg		02/17/20 07:36	02/17/20 20:39	1
Dimethyl phthalate	<0.043		0.17	0.043	mg/Kg		02/17/20 07:36	02/17/20 20:39	1
Di-n-butyl phthalate	<0.051		0.17	0.051	mg/Kg		02/17/20 07:36	02/17/20 20:39	1
4,6-Dinitro-2-methylphenol	<0.27		0.67	0.27	mg/Kg		02/17/20 07:36	02/17/20 20:39	1
2,4-Dinitrophenol	<0.59		0.67	0.59	mg/Kg		02/17/20 07:36	02/17/20 20:39	1
2,4-Dinitrotoluene	<0.053		0.17	0.053	mg/Kg		02/17/20 07:36	02/17/20 20:39	1
2,6-Dinitrotoluene	<0.065		0.17	0.065	mg/Kg		02/17/20 07:36	02/17/20 20:39	1
Di-n-octyl phthalate	<0.054		0.17	0.054	mg/Kg		02/17/20 07:36	02/17/20 20:39	1
Fluoranthene	<0.0062		0.033	0.0062	mg/Kg		02/17/20 07:36	02/17/20 20:39	1
Fluorene	<0.0047		0.033	0.0047	mg/Kg		02/17/20 07:36	02/17/20 20:39	1
Hexachlorobenzene	<0.0077		0.067	0.0077	mg/Kg		02/17/20 07:36	02/17/20 20:39	1
Hexachlorobutadiene	<0.052		0.17	0.052	mg/Kg		02/17/20 07:36	02/17/20 20:39	1
Hexachlorocyclopentadiene	<0.19		0.67	0.19	mg/Kg		02/17/20 07:36	02/17/20 20:39	1
Hexachloroethane	<0.051		0.17	0.051	mg/Kg		02/17/20 07:36	02/17/20 20:39	1
Indeno[1,2,3-cd]pyrene	<0.0086		0.033	0.0086	mg/Kg		02/17/20 07:36	02/17/20 20:39	1
Isophorone	<0.037		0.17	0.037	mg/Kg		02/17/20 07:36	02/17/20 20:39	1
2-Methylnaphthalene	<0.0061		0.067	0.0061	mg/Kg		02/17/20 07:36	02/17/20 20:39	1
2-Methylphenol	<0.053		0.17	0.053	mg/Kg		02/17/20 07:36	02/17/20 20:39	1
3 & 4 Methylphenol	<0.055		0.17	0.055	mg/Kg		02/17/20 07:36	02/17/20 20:39	1
Naphthalene	<0.0051		0.033	0.0051	mg/Kg		02/17/20 07:36	02/17/20 20:39	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177901-1

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

Lab Sample ID: MB 500-529933/1-A
Matrix: Solid
Analysis Batch: 530041

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 529933

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	<0.045		0.17	0.045	mg/Kg		02/17/20 07:36	02/17/20 20:39	1
3-Nitroaniline	<0.10		0.33	0.10	mg/Kg		02/17/20 07:36	02/17/20 20:39	1
4-Nitroaniline	<0.14		0.33	0.14	mg/Kg		02/17/20 07:36	02/17/20 20:39	1
Nitrobenzene	<0.0083		0.033	0.0083	mg/Kg		02/17/20 07:36	02/17/20 20:39	1
2-Nitrophenol	<0.079		0.33	0.079	mg/Kg		02/17/20 07:36	02/17/20 20:39	1
4-Nitrophenol	<0.32		0.67	0.32	mg/Kg		02/17/20 07:36	02/17/20 20:39	1
N-Nitrosodi-n-propylamine	<0.041		0.067	0.041	mg/Kg		02/17/20 07:36	02/17/20 20:39	1
N-Nitrosodiphenylamine	<0.039		0.17	0.039	mg/Kg		02/17/20 07:36	02/17/20 20:39	1
2,2'-oxybis[1-chloropropane]	<0.039		0.17	0.039	mg/Kg		02/17/20 07:36	02/17/20 20:39	1
Pentachlorophenol	<0.53		0.67	0.53	mg/Kg		02/17/20 07:36	02/17/20 20:39	1
Phenanthrene	<0.0046		0.033	0.0046	mg/Kg		02/17/20 07:36	02/17/20 20:39	1
Phenol	<0.074		0.17	0.074	mg/Kg		02/17/20 07:36	02/17/20 20:39	1
Pyrene	<0.0066		0.033	0.0066	mg/Kg		02/17/20 07:36	02/17/20 20:39	1
1,2,4-Trichlorobenzene	<0.036		0.17	0.036	mg/Kg		02/17/20 07:36	02/17/20 20:39	1
2,4,5-Trichlorophenol	<0.076		0.33	0.076	mg/Kg		02/17/20 07:36	02/17/20 20:39	1
2,4,6-Trichlorophenol	<0.11		0.33	0.11	mg/Kg		02/17/20 07:36	02/17/20 20:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	93		43 - 145	02/17/20 07:36	02/17/20 20:39	1
2-Fluorophenol	140		31 - 166	02/17/20 07:36	02/17/20 20:39	1
Nitrobenzene-d5	103		37 - 147	02/17/20 07:36	02/17/20 20:39	1
Phenol-d5	125		30 - 153	02/17/20 07:36	02/17/20 20:39	1
Terphenyl-d14	136		42 - 157	02/17/20 07:36	02/17/20 20:39	1
2,4,6-Tribromophenol	114		31 - 143	02/17/20 07:36	02/17/20 20:39	1

Lab Sample ID: LCS 500-529933/2-A
Matrix: Solid
Analysis Batch: 530041

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 529933

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1.33	1.31		mg/Kg		98	65 - 124
Acenaphthylene	1.33	1.32		mg/Kg		99	68 - 120
Anthracene	1.33	1.33		mg/Kg		100	70 - 114
Benzo[a]anthracene	1.33	1.46		mg/Kg		110	67 - 122
Benzo[a]pyrene	1.33	1.36		mg/Kg		102	65 - 133
Benzo[b]fluoranthene	1.33	1.49		mg/Kg		111	69 - 129
Benzo[g,h,i]perylene	1.33	1.47		mg/Kg		110	72 - 131
Benzo[k]fluoranthene	1.33	1.44		mg/Kg		108	68 - 127
Bis(2-chloroethoxy)methane	1.33	1.41		mg/Kg		106	60 - 112
Bis(2-chloroethyl)ether	1.33	1.27		mg/Kg		95	55 - 111
Bis(2-ethylhexyl) phthalate	1.33	1.44		mg/Kg		108	72 - 131
4-Bromophenyl phenyl ether	1.33	1.42		mg/Kg		106	68 - 118
Butyl benzyl phthalate	1.33	1.43		mg/Kg		107	71 - 129
Carbazole	1.33	1.45		mg/Kg		108	65 - 142
4-Chloroaniline	1.33	1.23		mg/Kg		92	30 - 150
4-Chloro-3-methylphenol	1.33	1.62		mg/Kg		121	65 - 122
2-Chloronaphthalene	1.33	1.28		mg/Kg		96	69 - 114
2-Chlorophenol	1.33	1.33		mg/Kg		100	64 - 110

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177901-1

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

Lab Sample ID: LCS 500-529933/2-A

Matrix: Solid

Analysis Batch: 530041

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 529933

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorophenyl phenyl ether	1.33	1.44		mg/Kg		108	62 - 119
Chrysene	1.33	1.46		mg/Kg		110	63 - 120
Dibenz(a,h)anthracene	1.33	1.63		mg/Kg		122	64 - 131
Dibenzofuran	1.33	1.34		mg/Kg		101	66 - 115
1,2-Dichlorobenzene	1.33	1.29		mg/Kg		97	62 - 110
1,3-Dichlorobenzene	1.33	1.20		mg/Kg		90	65 - 124
1,4-Dichlorobenzene	1.33	1.25		mg/Kg		93	61 - 110
3,3'-Dichlorobenzidine	1.33	1.20		mg/Kg		90	35 - 128
2,4-Dichlorophenol	1.33	1.46		mg/Kg		109	58 - 120
Diethyl phthalate	1.33	1.40		mg/Kg		105	58 - 120
2,4-Dimethylphenol	1.33	1.39		mg/Kg		104	60 - 110
Dimethyl phthalate	1.33	1.32		mg/Kg		99	69 - 116
Di-n-butyl phthalate	1.33	1.37		mg/Kg		103	65 - 120
4,6-Dinitro-2-methylphenol	2.67	1.18		mg/Kg		44	10 - 110
2,4-Dinitrophenol	2.67	0.718		mg/Kg		27	10 - 100
2,4-Dinitrotoluene	1.33	1.50		mg/Kg		112	69 - 124
2,6-Dinitrotoluene	1.33	1.48		mg/Kg		111	70 - 123
Di-n-octyl phthalate	1.33	1.43		mg/Kg		107	68 - 134
Fluoranthene	1.33	1.40		mg/Kg		105	62 - 120
Fluorene	1.33	1.37		mg/Kg		103	62 - 120
Hexachlorobenzene	1.33	1.38		mg/Kg		103	63 - 124
Hexachlorobutadiene	1.33	1.80	*	mg/Kg		135	56 - 120
Hexachlorocyclopentadiene	1.33	1.47		mg/Kg		110	10 - 133
Hexachloroethane	1.33	1.34		mg/Kg		100	60 - 114
Indeno[1,2,3-cd]pyrene	1.33	1.62		mg/Kg		121	68 - 130
Isophorone	1.33	1.55	*	mg/Kg		116	55 - 110
2-Methylnaphthalene	1.33	1.37		mg/Kg		103	69 - 112
2-Methylphenol	1.33	1.42		mg/Kg		107	60 - 120
3 & 4 Methylphenol	1.33	1.39		mg/Kg		104	57 - 120
Naphthalene	1.33	1.32		mg/Kg		99	63 - 110
2-Nitroaniline	1.33	1.45		mg/Kg		109	57 - 124
3-Nitroaniline	1.33	1.15		mg/Kg		86	40 - 122
4-Nitroaniline	1.33	1.13		mg/Kg		85	60 - 160
Nitrobenzene	1.33	1.68	*	mg/Kg		126	60 - 116
2-Nitrophenol	1.33	1.34		mg/Kg		101	60 - 120
4-Nitrophenol	2.67	3.07		mg/Kg		115	30 - 122
N-Nitrosodi-n-propylamine	1.33	1.60	*	mg/Kg		120	56 - 118
N-Nitrosodiphenylamine	1.33	1.30		mg/Kg		98	65 - 112
2,2'-oxybis[1-chloropropane]	1.33	1.24		mg/Kg		93	40 - 124
Pentachlorophenol	2.67	2.22		mg/Kg		83	13 - 112
Phenanthrene	1.33	1.29		mg/Kg		97	62 - 120
Phenol	1.33	1.47		mg/Kg		110	56 - 122
Pyrene	1.33	1.40		mg/Kg		105	61 - 128
1,2,4-Trichlorobenzene	1.33	1.51		mg/Kg		113	66 - 117
2,4,5-Trichlorophenol	1.33	1.47		mg/Kg		111	50 - 120
2,4,6-Trichlorophenol	1.33	1.45		mg/Kg		109	57 - 120

QC Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177901-1

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

Lab Sample ID: LCS 500-529933/2-A
Matrix: Solid
Analysis Batch: 530041

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 529933

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	94		43 - 145
2-Fluorophenol	127		31 - 166
Nitrobenzene-d5	117		37 - 147
Phenol-d5	116		30 - 153
Terphenyl-d14	129		42 - 157
2,4,6-Tribromophenol	124		31 - 143

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-530259/1-A
Matrix: Solid
Analysis Batch: 530529

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 530259

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.39		2.0	0.39	mg/Kg		02/18/20 16:42	02/19/20 13:58	1
Arsenic	<0.34		1.0	0.34	mg/Kg		02/18/20 16:42	02/19/20 13:58	1
Barium	<0.11		1.0	0.11	mg/Kg		02/18/20 16:42	02/19/20 13:58	1
Beryllium	<0.093		0.40	0.093	mg/Kg		02/18/20 16:42	02/19/20 13:58	1
Cadmium	0.0525	J	0.20	0.036	mg/Kg		02/18/20 16:42	02/19/20 13:58	1
Chromium	<0.50		1.0	0.50	mg/Kg		02/18/20 16:42	02/19/20 13:58	1
Cobalt	<0.13		0.50	0.13	mg/Kg		02/18/20 16:42	02/19/20 13:58	1
Copper	<0.28		1.0	0.28	mg/Kg		02/18/20 16:42	02/19/20 13:58	1
Iron	<10		20	10	mg/Kg		02/18/20 16:42	02/19/20 13:58	1
Lead	<0.23		0.50	0.23	mg/Kg		02/18/20 16:42	02/19/20 13:58	1
Magnesium	<5.0		10	5.0	mg/Kg		02/18/20 16:42	02/19/20 13:58	1
Calcium	<3.4		20	3.4	mg/Kg		02/18/20 16:42	02/19/20 13:58	1
Manganese	<0.15		1.0	0.15	mg/Kg		02/18/20 16:42	02/19/20 13:58	1
Nickel	<0.29		1.0	0.29	mg/Kg		02/18/20 16:42	02/19/20 13:58	1
Selenium	<0.59		1.0	0.59	mg/Kg		02/18/20 16:42	02/19/20 13:58	1
Silver	<0.13		0.50	0.13	mg/Kg		02/18/20 16:42	02/19/20 13:58	1
Thallium	<0.50		1.0	0.50	mg/Kg		02/18/20 16:42	02/19/20 13:58	1
Vanadium	<0.12		0.50	0.12	mg/Kg		02/18/20 16:42	02/19/20 13:58	1
Zinc	<0.88		2.0	0.88	mg/Kg		02/18/20 16:42	02/19/20 13:58	1
Potassium	<18		50	18	mg/Kg		02/18/20 16:42	02/19/20 13:58	1
Sodium	<15		100	15	mg/Kg		02/18/20 16:42	02/19/20 13:58	1

Lab Sample ID: LCS 500-530259/2-A
Matrix: Solid
Analysis Batch: 530529

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 530259

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Antimony	50.0	49.6		mg/Kg		99	80 - 120
Arsenic	10.0	9.23		mg/Kg		92	80 - 120
Barium	200	199		mg/Kg		100	80 - 120
Beryllium	5.00	4.61		mg/Kg		92	80 - 120
Cadmium	5.00	4.72		mg/Kg		94	80 - 120
Chromium	20.0	19.3		mg/Kg		96	80 - 120
Cobalt	50.0	48.6		mg/Kg		97	80 - 120
Copper	25.0	24.9		mg/Kg		99	80 - 120

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177901-1

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

Lab Sample ID: LCS 500-530259/2-A
Matrix: Solid
Analysis Batch: 530529

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 530259

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Iron	100	108		mg/Kg		108	80 - 120
Lead	10.0	9.09		mg/Kg		91	80 - 120
Magnesium	1000	891		mg/Kg		89	80 - 120
Calcium	1000	942		mg/Kg		94	80 - 120
Manganese	50.0	46.7		mg/Kg		93	80 - 120
Nickel	50.0	48.2		mg/Kg		96	80 - 120
Selenium	10.0	9.06		mg/Kg		91	80 - 120
Silver	5.00	4.48		mg/Kg		90	80 - 120
Thallium	10.0	9.49		mg/Kg		95	80 - 120
Vanadium	50.0	48.7		mg/Kg		97	80 - 120
Zinc	50.0	46.8		mg/Kg		94	80 - 120
Potassium	1000	985		mg/Kg		99	80 - 120
Sodium	1000	998		mg/Kg		100	80 - 120

Lab Sample ID: 500-177901-1 MS
Matrix: Solid
Analysis Batch: 530529

Client Sample ID: 3229V-8-B01 (0-5)
Prep Type: Total/NA
Prep Batch: 530259

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	<0.22	F1	29.2	6.94	F1	mg/Kg	☼	24	75 - 125
Arsenic	5.3		5.84	10.3		mg/Kg	☼	86	75 - 125
Barium	96		117	199		mg/Kg	☼	88	75 - 125
Beryllium	0.87		2.92	3.28		mg/Kg	☼	82	75 - 125
Cadmium	0.24	B	2.92	2.62		mg/Kg	☼	82	75 - 125
Chromium	20		11.7	33.3		mg/Kg	☼	116	75 - 125
Copper	22	F1	14.6	34.0		mg/Kg	☼	81	75 - 125
Iron	16000		58.4	16600	4	mg/Kg	☼	193	75 - 125
Lead	35	F2	5.84	47.0	4	mg/Kg	☼	203	75 - 125
Magnesium	9800	F2	584	32600	4	mg/Kg	☼	3888	75 - 125
Manganese	380	F2	29.2	456	4	mg/Kg	☼	269	75 - 125
Nickel	24		29.2	54.3		mg/Kg	☼	105	75 - 125
Selenium	<0.33	F1	5.84	4.32	F1	mg/Kg	☼	74	75 - 125
Silver	0.16	J	2.92	2.62		mg/Kg	☼	84	75 - 125
Thallium	<0.28	F1	5.84	4.41		mg/Kg	☼	75	75 - 125
Vanadium	25		29.2	52.1		mg/Kg	☼	94	75 - 125
Zinc	99	F1 F2	29.2	135		mg/Kg	☼	124	75 - 125
Potassium	1700	F1	584	3790	F1	mg/Kg	☼	360	75 - 125
Sodium	660	F1	584	1160		mg/Kg	☼	86	75 - 125

Lab Sample ID: 500-177901-1 MSD
Matrix: Solid
Analysis Batch: 530529

Client Sample ID: 3229V-8-B01 (0-5)
Prep Type: Total/NA
Prep Batch: 530259

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Antimony	<0.22	F1	27.7	6.86	F1	mg/Kg	☼	25	75 - 125	1	20
Arsenic	5.3		5.54	9.92		mg/Kg	☼	83	75 - 125	4	20
Barium	96		111	188		mg/Kg	☼	84	75 - 125	5	20
Beryllium	0.87		2.77	3.07		mg/Kg	☼	79	75 - 125	7	20
Cadmium	0.24	B	2.77	2.35		mg/Kg	☼	76	75 - 125	11	20

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177901-1

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

Lab Sample ID: 500-177901-1 MSD

Matrix: Solid

Analysis Batch: 530529

Client Sample ID: 3229V-8-B01 (0-5)

Prep Type: Total/NA

Prep Batch: 530259

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
				Result	Qualifier						
Chromium	20		11.1	29.1		mg/Kg	☼	84	75 - 125	13	20
Copper	22	F1	13.9	31.5	F1	mg/Kg	☼	68	75 - 125	8	20
Iron	16000		55.4	17500	4	mg/Kg	☼	1914	75 - 125	6	20
Lead	35	F2	5.54	22.5	4 F2	mg/Kg	☼	-228	75 - 125	70	20
Magnesium	9800	F2	554	21100	4 F2	mg/Kg	☼	2031	75 - 125	43	20
Manganese	380	F2	27.7	360	4 F2	mg/Kg	☼	-62	75 - 125	23	20
Nickel	24		27.7	49.2		mg/Kg	☼	92	75 - 125	10	20
Selenium	<0.33	F1	5.54	4.11	F1	mg/Kg	☼	74	75 - 125	5	20
Silver	0.16	J	2.77	2.37		mg/Kg	☼	80	75 - 125	10	20
Thallium	<0.28	F1	5.54	3.95	F1	mg/Kg	☼	71	75 - 125	11	20
Vanadium	25		27.7	52.0		mg/Kg	☼	98	75 - 125	0	20
Zinc	99	F1 F2	27.7	96.0	F1 F2	mg/Kg	☼	-10	75 - 125	34	20
Potassium	1700	F1	554	3600	F1	mg/Kg	☼	344	75 - 125	5	20
Sodium	660	F1	554	1050	F1	mg/Kg	☼	71	75 - 125	10	20

Lab Sample ID: 500-177901-1 DU

Matrix: Solid

Analysis Batch: 530529

Client Sample ID: 3229V-8-B01 (0-5)

Prep Type: Total/NA

Prep Batch: 530259

Analyte	Sample Result	Sample Qualifier	DU		Unit	D	RPD	RPD Limit
			Result	Qualifier				
Antimony	<0.22	F1	0.394	J	mg/Kg	☼	NC	20
Arsenic	5.3		6.56	F3	mg/Kg	☼	21	20
Barium	96		117		mg/Kg	☼	20	20
Beryllium	0.87		0.966		mg/Kg	☼	10	20
Cadmium	0.24	B	0.243		mg/Kg	☼	3	20
Chromium	20		25.9	F3	mg/Kg	☼	27	20
Cobalt	11		13.9	F3	mg/Kg	☼	23	20
Copper	22	F1	26.8		mg/Kg	☼	19	20
Iron	16000		17800		mg/Kg	☼	8	20
Lead	35	F2	50.5	F3	mg/Kg	☼	36	20
Magnesium	9800	F2	10800		mg/Kg	☼	10	20
Calcium	17000	F2	18500		mg/Kg	☼	11	20
Manganese	380	F2	422		mg/Kg	☼	11	20
Nickel	24		24.5		mg/Kg	☼	3	20
Selenium	<0.33	F1	0.381	J	mg/Kg	☼	NC	20
Silver	0.16	J	0.163	J	mg/Kg	☼	5	20
Thallium	<0.28	F1	<0.29		mg/Kg	☼	NC	20
Vanadium	25		25.1		mg/Kg	☼	1	20
Zinc	99	F1 F2	150	F3	mg/Kg	☼	41	20
Potassium	1700	F1	1980		mg/Kg	☼	15	20
Sodium	660	F1	667		mg/Kg	☼	2	20

Lab Sample ID: LCS 500-531035/2-A

Matrix: Solid

Analysis Batch: 531230

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 531035

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177901-1

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

Lab Sample ID: LCS 500-531036/2-A
Matrix: Solid
Analysis Batch: 531227

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 531036
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.100	0.115		mg/L		115	80 - 120
Barium	0.500	0.505		mg/L		101	80 - 120
Beryllium	0.0500	0.0493		mg/L		99	80 - 120
Cadmium	0.0500	0.0542		mg/L		108	80 - 120
Chromium	0.200	0.200		mg/L		100	80 - 120
Cobalt	0.500	0.529		mg/L		106	80 - 120
Copper	0.250	0.277		mg/L		111	80 - 120
Iron	1.00	1.06		mg/L		106	80 - 120
Lead	0.100	0.0963		mg/L		96	80 - 120
Magnesium	10.0	9.17		mg/L		92	80 - 120
Calcium	10.0	9.75		mg/L		97	80 - 120
Manganese	0.500	0.480		mg/L		96	80 - 120
Nickel	0.500	0.548		mg/L		110	80 - 120
Selenium	0.100	0.108		mg/L		108	80 - 120
Silver	0.0500	0.0542		mg/L		108	80 - 120
Vanadium	0.500	0.511		mg/L		102	80 - 120
Zinc	0.500	0.634	*	mg/L		127	80 - 120
Potassium	10.0	10.4		mg/L		104	80 - 120

Lab Sample ID: LB 500-530903/1-B
Matrix: Solid
Analysis Batch: 531227

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 531036

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		02/24/20 06:22	02/24/20 17:40	1
Barium	<0.050		0.50	0.050	mg/L		02/24/20 06:22	02/24/20 17:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/24/20 06:22	02/24/20 17:40	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		02/24/20 06:22	02/24/20 17:40	1
Chromium	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 17:40	1
Cobalt	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 17:40	1
Copper	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 17:40	1
Iron	<0.20		0.40	0.20	mg/L		02/24/20 06:22	02/24/20 17:40	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/24/20 06:22	02/24/20 17:40	1
Magnesium	<0.50		2.5	0.50	mg/L		02/24/20 06:22	02/24/20 17:40	1
Calcium	<0.50		5.0	0.50	mg/L		02/24/20 06:22	02/24/20 17:40	1
Manganese	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 17:40	1
Nickel	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 17:40	1
Selenium	<0.020		0.050	0.020	mg/L		02/24/20 06:22	02/24/20 17:40	1
Silver	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 17:40	1
Vanadium	<0.010		0.025	0.010	mg/L		02/24/20 06:22	02/24/20 17:40	1
Zinc	<0.020		0.50	0.020	mg/L		02/24/20 06:22	02/24/20 17:40	1
Potassium	<0.50		2.5	0.50	mg/L		02/24/20 06:22	02/24/20 17:40	1

Lab Sample ID: LB 500-530902/1-B
Matrix: Solid
Analysis Batch: 531230

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 531035

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.010		0.025	0.010	mg/L		02/24/20 06:19	02/24/20 18:18	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177901-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-531036/2-A
Matrix: Solid
Analysis Batch: 531307

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 531036

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.520		mg/L		104	80 - 120
Thallium	0.100	0.0917		mg/L		92	80 - 120

Lab Sample ID: LB 500-530903/1-B
Matrix: Solid
Analysis Batch: 531307

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 531036

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/24/20 06:22	02/24/20 19:19	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/24/20 06:22	02/24/20 19:19	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-531122/12-A
Matrix: Solid
Analysis Batch: 531315

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 531122

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/24/20 10:20	02/25/20 08:52	1

Lab Sample ID: LCS 500-531122/14-A
Matrix: Solid
Analysis Batch: 531315

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 531122

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00195		mg/L		97	80 - 120

Lab Sample ID: LB 500-530903/2-B
Matrix: Solid
Analysis Batch: 531315

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 531122

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/24/20 10:20	02/25/20 08:54	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-530893/12-A
Matrix: Solid
Analysis Batch: 531150

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 530893

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		02/21/20 15:40	02/24/20 09:15	1

Lab Sample ID: LCS 500-530893/13-A
Matrix: Solid
Analysis Batch: 531150

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 530893

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.154		mg/Kg		92	80 - 120

Euromins TestAmerica, Chicago

QC Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177901-1

Method: 9014 - Cyanide

Lab Sample ID: MB 500-531452/1-A
Matrix: Solid
Analysis Batch: 531560

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 531452

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.25		0.50	0.25	mg/Kg		02/26/20 09:30	02/26/20 13:03	1

Lab Sample ID: LCS 500-531452/2-A
Matrix: Solid
Analysis Batch: 531560

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 531452
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	5.00	5.33		mg/Kg		107	85 - 115

Lab Chronicle

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177901-1

Client Sample ID: 3229V-8-B01 (0-5)

Lab Sample ID: 500-177901-1

Date Collected: 02/13/20 11:10

Matrix: Solid

Date Received: 02/14/20 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			530902	02/21/20 12:35	BEC	TAL CHI
SPLP East	Prep	3010A			531035	02/24/20 06:19	LMN	TAL CHI
SPLP East	Analysis	6010B		1	531230	02/24/20 19:18	EEN	TAL CHI
TCLP	Leach	1311			530903	02/21/20 12:35	BEC	TAL CHI
TCLP	Prep	3010A			531036	02/24/20 06:22	LMN	TAL CHI
TCLP	Analysis	6010B		1	531227	02/24/20 18:34	EEN	TAL CHI
TCLP	Leach	1311			530903	02/21/20 12:35	BEC	TAL CHI
TCLP	Prep	3010A			531036	02/24/20 06:22	LMN	TAL CHI
TCLP	Analysis	6020A		1	531307	02/24/20 19:52	FXG	TAL CHI
TCLP	Leach	1311			530903	02/21/20 12:35	BEC	TAL CHI
TCLP	Prep	7470A			531122	02/24/20 10:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	531315	02/25/20 09:30	MJG	TAL CHI
Total/NA	Analysis	9045D		1	531081	02/22/20 19:11	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	530346	02/19/20 08:59	LWN	TAL CHI

Client Sample ID: 3229V-8-B01 (0-5)

Lab Sample ID: 500-177901-1

Date Collected: 02/13/20 11:10

Matrix: Solid

Date Received: 02/14/20 14:00

Percent Solids: 82.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			529871	02/14/20 17:08	WRE	TAL CHI
Total/NA	Analysis	8260B		1	530116	02/18/20 12:07	PMF	TAL CHI
Total/NA	Prep	3541			529933	02/17/20 07:36	BSO	TAL CHI
Total/NA	Analysis	8270D		1	530474	02/20/20 02:21	NRJ	TAL CHI
Total/NA	Prep	3050B			530259	02/18/20 16:42	BDE	TAL CHI
Total/NA	Analysis	6010B		1	530529	02/19/20 14:06	EEN	TAL CHI
Total/NA	Prep	7471B			530893	02/21/20 15:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	531150	02/24/20 09:56	MJG	TAL CHI
Total/NA	Prep	9010B			531452	02/26/20 09:30	MS	TAL CHI
Total/NA	Analysis	9014		1	531560	02/26/20 13:06	MS	TAL CHI

Client Sample ID: 3229V-8-B01 (5-9)

Lab Sample ID: 500-177901-2

Date Collected: 02/13/20 11:20

Matrix: Solid

Date Received: 02/14/20 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			530902	02/21/20 12:35	BEC	TAL CHI
SPLP East	Prep	3010A			531035	02/24/20 06:19	LMN	TAL CHI
SPLP East	Analysis	6010B		1	531230	02/24/20 19:22	EEN	TAL CHI
TCLP	Leach	1311			530903	02/21/20 12:35	BEC	TAL CHI
TCLP	Prep	3010A			531036	02/24/20 06:22	LMN	TAL CHI
TCLP	Analysis	6010B		1	531227	02/24/20 18:39	EEN	TAL CHI
TCLP	Leach	1311			530903	02/21/20 12:35	BEC	TAL CHI
TCLP	Prep	3010A			531036	02/24/20 06:22	LMN	TAL CHI
TCLP	Analysis	6020A		1	531307	02/24/20 19:54	FXG	TAL CHI

Lab Chronicle

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177901-1

Client Sample ID: 3229V-8-B01 (5-9)

Lab Sample ID: 500-177901-2

Date Collected: 02/13/20 11:20

Matrix: Solid

Date Received: 02/14/20 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			530903	02/21/20 12:35	BEC	TAL CHI
TCLP	Prep	7470A			531122	02/24/20 10:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	531315	02/25/20 09:32	MJG	TAL CHI
Total/NA	Analysis	9045D		1	531081	02/22/20 19:13	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	530346	02/19/20 08:59	LWN	TAL CHI

Client Sample ID: 3229V-8-B01 (5-9)

Lab Sample ID: 500-177901-2

Date Collected: 02/13/20 11:20

Matrix: Solid

Date Received: 02/14/20 14:00

Percent Solids: 86.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			529871	02/14/20 17:08	WRE	TAL CHI
Total/NA	Analysis	8260B		1	530116	02/18/20 12:33	PMF	TAL CHI
Total/NA	Prep	3541			529933	02/17/20 07:36	BSO	TAL CHI
Total/NA	Analysis	8270D		1	530074	02/17/20 23:07	NRJ	TAL CHI
Total/NA	Prep	3050B			530259	02/18/20 16:42	BDE	TAL CHI
Total/NA	Analysis	6010B		1	530529	02/19/20 14:26	EEN	TAL CHI
Total/NA	Prep	3050B			530259	02/18/20 16:42	BDE	TAL CHI
Total/NA	Analysis	6010B		10	530786	02/20/20 15:14	EEN	TAL CHI
Total/NA	Prep	7471B			530893	02/21/20 15:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	531150	02/24/20 09:58	MJG	TAL CHI
Total/NA	Prep	9010B			531452	02/26/20 09:30	MS	TAL CHI
Total/NA	Analysis	9014		1	531560	02/26/20 13:06	MS	TAL CHI

Client Sample ID: 3229V-8-B02 (0-5)

Lab Sample ID: 500-177901-3

Date Collected: 02/13/20 11:30

Matrix: Solid

Date Received: 02/14/20 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			530902	02/21/20 12:35	BEC	TAL CHI
SPLP East	Prep	3010A			531035	02/24/20 06:19	LMN	TAL CHI
SPLP East	Analysis	6010B		1	531230	02/24/20 19:27	EEN	TAL CHI
TCLP	Leach	1311			530903	02/21/20 12:35	BEC	TAL CHI
TCLP	Prep	3010A			531036	02/24/20 06:22	LMN	TAL CHI
TCLP	Analysis	6010B		1	531227	02/24/20 18:43	EEN	TAL CHI
TCLP	Leach	1311			530903	02/21/20 12:35	BEC	TAL CHI
TCLP	Prep	3010A			531036	02/24/20 06:22	LMN	TAL CHI
TCLP	Analysis	6020A		1	531307	02/24/20 19:57	FXG	TAL CHI
TCLP	Leach	1311			530903	02/21/20 12:35	BEC	TAL CHI
TCLP	Prep	7470A			531122	02/24/20 10:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	531315	02/25/20 09:33	MJG	TAL CHI
Total/NA	Analysis	9045D		1	531081	02/22/20 19:16	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	530346	02/19/20 08:59	LWN	TAL CHI

Lab Chronicle

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177901-1

Client Sample ID: 3229V-8-B02 (0-5)

Lab Sample ID: 500-177901-3

Date Collected: 02/13/20 11:30

Matrix: Solid

Date Received: 02/14/20 14:00

Percent Solids: 81.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			529871	02/14/20 17:08	WRE	TAL CHI
Total/NA	Analysis	8260B		1	530116	02/18/20 12:59	PMF	TAL CHI
Total/NA	Prep	3541			529933	02/17/20 07:36	BSO	TAL CHI
Total/NA	Analysis	8270D		1	530144	02/18/20 19:23	AJD	TAL CHI
Total/NA	Prep	3541	DL		529933	02/17/20 07:36	BSO	TAL CHI
Total/NA	Analysis	8270D	DL	10	530144	02/18/20 19:47	AJD	TAL CHI
Total/NA	Prep	3050B			530259	02/18/20 16:42	BDE	TAL CHI
Total/NA	Analysis	6010B		1	530529	02/19/20 14:30	EEN	TAL CHI
Total/NA	Prep	7471B			530893	02/21/20 15:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	531150	02/24/20 10:04	MJG	TAL CHI
Total/NA	Prep	9010B			531452	02/26/20 09:30	MS	TAL CHI
Total/NA	Analysis	9014		1	531560	02/26/20 13:07	MS	TAL CHI

Client Sample ID: 3229V-8-B02 (5-9)

Lab Sample ID: 500-177901-4

Date Collected: 02/13/20 11:40

Matrix: Solid

Date Received: 02/14/20 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			530902	02/21/20 12:35	BEC	TAL CHI
SPLP East	Prep	3010A			531035	02/24/20 06:19	LMN	TAL CHI
SPLP East	Analysis	6010B		1	531230	02/24/20 19:32	EEN	TAL CHI
TCLP	Leach	1311			530903	02/21/20 12:35	BEC	TAL CHI
TCLP	Prep	3010A			531036	02/24/20 06:22	LMN	TAL CHI
TCLP	Analysis	6010B		1	531227	02/24/20 18:47	EEN	TAL CHI
TCLP	Leach	1311			530903	02/21/20 12:35	BEC	TAL CHI
TCLP	Prep	3010A			531036	02/24/20 06:22	LMN	TAL CHI
TCLP	Analysis	6020A		1	531307	02/24/20 19:59	FXG	TAL CHI
TCLP	Leach	1311			530903	02/21/20 12:35	BEC	TAL CHI
TCLP	Prep	7470A			531122	02/24/20 10:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	531315	02/25/20 09:35	MJG	TAL CHI
Total/NA	Analysis	9045D		1	531081	02/22/20 19:18	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	530346	02/19/20 08:59	LWN	TAL CHI

Client Sample ID: 3229V-8-B02 (5-9)

Lab Sample ID: 500-177901-4

Date Collected: 02/13/20 11:40

Matrix: Solid

Date Received: 02/14/20 14:00

Percent Solids: 80.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			529871	02/14/20 17:08	WRE	TAL CHI
Total/NA	Analysis	8260B		1	530116	02/18/20 13:24	PMF	TAL CHI
Total/NA	Prep	3541			529933	02/17/20 07:36	BSO	TAL CHI
Total/NA	Analysis	8270D		1	530074	02/17/20 23:37	NRJ	TAL CHI
Total/NA	Prep	3050B			530259	02/18/20 16:42	BDE	TAL CHI
Total/NA	Analysis	6010B		1	530529	02/19/20 14:34	EEN	TAL CHI

Lab Chronicle

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177901-1

Client Sample ID: 3229V-8-B02 (5-9)

Lab Sample ID: 500-177901-4

Date Collected: 02/13/20 11:40

Matrix: Solid

Date Received: 02/14/20 14:00

Percent Solids: 80.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			530893	02/21/20 15:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	531150	02/24/20 10:06	MJG	TAL CHI
Total/NA	Prep	9010B			531452	02/26/20 09:30	MS	TAL CHI
Total/NA	Analysis	9014		1	531560	02/26/20 13:07	MS	TAL CHI

Laboratory References:

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



Accreditation/Certification Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177901-1

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20

1

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Address: _____

Regulatory Program: DW NPDES RCRA Other:

TAL-8211

Client Contact		Project Manager: Mike Fischer		Site Contact:		Date: 2-13-20		COC No:																																																
Company Name: EOI		Tel/Email:		Lab Contact: R. Wright		Carrier:		1 of 1 COCs																																																
Address: 33 W. Monroe, Ste. 1825		Analysis Turnaround Time																																																						
City/State/Zip: Chicago, IL 60603		<input checked="" type="checkbox"/> CALENDAR DAYS		<input type="checkbox"/> WORKING DAYS		Filtered Sample (Y/N) Perform MS / MSD (Y/N) VOC SVOC Total 23 Inorg. TCLP 23 Inorg. Total Cyanide PH		Sampler: M. Fischer																																																
Phone: 312-345-1400		TAT if different from Below _____						For Lab Use Only:																																																
Fax:		<input checked="" type="checkbox"/> 2 weeks		<input type="checkbox"/> 1 week				Walk-in Client:																																																
Project Name: PTB 174-009-W068A		<input type="checkbox"/> 2 days		<input type="checkbox"/> 1 day				Lab Sampling:																																																
Site: 3229V-8		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Sample Identification</th> <th style="width:10%;">Sample Date</th> <th style="width:10%;">Sample Time</th> <th style="width:10%;">Sample Type (C=Comp, G=Grab)</th> <th style="width:10%;">Matrix</th> <th style="width:10%;"># of Cont.</th> <th style="width:10%;">Filtered Sample (Y/N)</th> <th style="width:10%;">Perform MS / MSD (Y/N)</th> <th style="width:10%;">Sample Specific Notes:</th> </tr> </thead> <tbody> <tr> <td>3229V-8-B01(0-5)</td> <td>2/13/20</td> <td>1110</td> <td>G</td> <td>S</td> <td>5</td> <td></td> <td></td> <td></td> </tr> <tr> <td> -B01(5-9)</td> <td> </td> <td>1120</td> <td> </td> <td> </td> <td> </td> <td></td> <td></td> <td></td> </tr> <tr> <td> -B02(0-5)</td> <td> </td> <td>1130</td> <td> </td> <td> </td> <td> </td> <td></td> <td></td> <td></td> </tr> <tr> <td> -B02(5-9)</td> <td> </td> <td>1140</td> <td> </td> <td> </td> <td> </td> <td></td> <td></td> <td></td> </tr> </tbody> </table>								Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Sample Specific Notes:	3229V-8-B01(0-5)	2/13/20	1110	G	S	5				-B01(5-9)		1120							-B02(0-5)		1130							-B02(5-9)		1140							Job / SDG No.:	
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-B02(5-9)		1140																																																						
P O # 2031.001.68A																																																								
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____																																																								
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)																																																			
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown					<input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months																																																			
Special Instructions/QC Requirements & Comments:																																																								
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____		Corr'd: _____		Therm ID No.: _____																																																
Relinquished by:		Company: EOI		Date/Time: 15/10 2/13/20		Received by:		Company: _____																																																
Relinquished by:		Company:		Date/Time:		Received by:		Company: _____																																																
Relinquished by:		Company:		Date/Time:		Received in Laboratory by:		Company: _____																																																

Login Sample Receipt Checklist

Client: Environmental Design International, Inc.

Job Number: 500-177901-1

Login Number: 177901

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.9
COC is present.	False	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAU 1319-Ballard Rd Office Phone Number, if available: _____

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

2300 Block of Ballard Road (Eastbound), IDOT STA 20+30 to 21+20 (ISGS Site 3229V-11)

City: Des Plaines State: IL Zip Code: 60016

County: Cook Township: Maine

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

Latitude: 42.04317 Longitude: - 87.86865

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

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

Estimated Volume of debris (cu. Yd.): 189

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

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

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

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

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

Soil from borings B01 and B01A was sampled adjacent to ISGS Site No 3229V-11.
See Exhibit 4 and Table 16 of the Preliminary Site Investigation Report prepared by Terracon.

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

TestAmerica Lab Report Nos J177905-1 and J181053-1.

Also see Preliminary Site Investigation Report prepared by Terracon. CCDD/USFO facility within the City of Chicago or outside the City of Chicago in a MSA County.

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

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

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

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

Matt Weiss
Printed Name:

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

1/22/21
Date:



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

Comparison of Detected Consituents to MACs-PTB 174-009;Work Order:068A

Preliminary Site Investigation

FAU 1319-Ballard Road (PESA #3229V-11)

Des Plaines and Niles, Cook County, IL

Terracon Project No. 11207011C

Page 1 of 2

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	3229V-11-B01 (0-2)	3229V-11-B01A (2-6)	3229V-11-B01A (6-11)
				CCDD	Sample Depth (feet)	(0-2)	(2-6)	(6-11)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	02/13/2020	4/22/2020	4/22/2020
Volatile Organic Analytical Parameters								
Benzene	mg/kg	---	---	0.03		0.0071	<0.00046	<0.00044
Acetone	mg/kg	---	---	25		0.02	0.023	0.0078
Semivolatile Organic Analytical Parameters								
Acenaphthene	mg/kg	0.09	0.13	570		0.0085	<0.0072	<0.0069
Acenaphthylene	mg/kg	0.03	0.07	85		0.0074	<0.0052	<0.0050
Anthracene	mg/kg	0.25	0.4	12000		0.028	<0.0066	<0.0064
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.11	0.009	0.006
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.12	0.013	0.0096
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.19	0.017	0.0096
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.051	<0.013	<0.012
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.067	<0.012	<0.011
Chrysene	mg/kg	1.2	2.7	88		0.13	0.015	0.014
Fluoranthene	mg/kg	2.7	4.1	3100		0.2	0.018	0.012
Fluorene	mg/kg	0.1	0.18	560		0.0096	<0.0056	<0.0054
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.043	<0.010	<0.0099
Phenanthrene	mg/kg	1.3	2.5	210		0.12	0.0096	0.031
Pyrene	mg/kg	1.9	3.0	2300		0.22	0.019	0.016
2-Methylnaphthalene	mg/kg	---	0.14	---		0.0083	<0.0073	<0.0070
2,4,5-Trichlorophenol	mg/kg	---	---	26		<0.089	<0.091	<0.087
2,4,6-Trichlorophenol	mg/kg	---	---	0.66		<0.13	<0.14	<0.13
Inorganic Analytical Parameters								
Arsenic	mg/kg	---	13	11.3		4.1	8.4	5.1
Barium	mg/kg	---	110	1500		49	45	24
Cadmium	mg/kg	---	0.6	5.2		0.39	0.21	0.12
Chromium, total	mg/kg	---	16.2	21		13	18	12
Lead	mg/kg	---	36	107		78	27	12
Mercury	mg/kg	---	0.06	0.89		0.08	0.034	0.0094
Selenium	mg/kg	---	0.48	1.3		<0.31	<0.34	<0.33
Silver	mg/kg	---	0.55	4.4		0.18	0.26	0.2
Antimony	mg/kg	---	4.0	5		<0.21	0.74	0.49
Beryllium	mg/kg	---	0.59	22		0.63	0.76	0.51
Calcium	mg/kg	---	9,300	---		45000	21000	52000
Cobalt	mg/kg	---	8.9	20		7	10	7.5
Copper	mg/kg	---	19.6	2900		18	21	16
Cyanide	mg/kg	---	0.51	---		<0.25	<0.29	<0.23
Iron	mg/kg	---	15,900	15000		11000	20000	12000
Magnesium	mg/kg	---	4,820	325000		23000	14000	23000
Manganese	mg/kg	---	636	630		250	350	280
Nickel	mg/kg	---	18	100		17	27	20
Potassium	mg/kg	---	1,268	---		1800	2100	2000
Sodium	mg/kg	---	130	---		2500	2500	760
Thallium	mg/kg	---	0.32	2.6		<0.27	0.32	0.32
Vanadium	mg/kg	---	25.2	550		20	25	17
Zinc	mg/kg	---	95	5100		110	71	37
pH			6.25	9		8.8	8.8	8.1

Preliminary Site Investigation

FAU 1319-Ballard Road (PESA #3229V-11)

Des Plaines and Niles, Cook County, IL

Terracon Project No. 11207011C

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	3229V-11-B01 (0-2)	3229V-11-B01A (2-6)	3229V-11-B01A (6-11)
				CCDD	Sample Depth (feet)	(0-2)	(2-6)	(6-11)
		mg/kg	Date Collected	02/13/2020	4/22/2020	4/22/2020		
		pH 6.25-9.0						
Chicago	MSAs							
Inorganic Analytical Parameters (SPLP)								
Antimony,SPLP	mg/L	---	---	---		--	--	--
Arsenic,SPLP	mg/L	---	---	---		--	--	--
Barium,SPLP	mg/L	---	---	---		--	--	--
Beryllium,SPLP	mg/L	---	---	---		--	--	--
Cadmium,SPLP	mg/L	---	---	---		--	--	--
Calcium,SPLP	mg/L	---	---	---		--	--	--
Chromium,SPLP	mg/L	---	---	---		--	--	--
Cobalt,SPLP	mg/L	---	---	---		--	--	--
Copper,SPLP	mg/L	---	---	---		--	--	--
Iron,SPLP	mg/L	---	---	---		--	--	--
Lead,SPLP	mg/L	---	---	---		0.36	--	0.024
Magnesium,SPLP	mg/L	---	---	---		--	--	--
Manganese,SPLP	mg/L	---	---	---		1	--	0.21
Mercury,SPLP	mg/L	---	---	---		--	--	--
Nickel,SPLP	mg/L	---	---	---		--	--	--
Potassium,SPLP	mg/L	---	---	---		--	--	--
Selenium,SPLP	mg/L	---	---	---		--	--	--
Silver,SPLP	mg/L	---	---	---		--	--	--
Sodium,SPLP	mg/L	---	---	---		--	--	--
Thallium,SPLP	mg/L	---	---	---		--	--	--
Vanadium,SPLP	mg/L	---	---	---		--	--	--
Zinc,SPLP	mg/L	---	---	---		--	--	--
Cyanide,SPLP	mg/L	---	---	---		--	--	--
Inorganic Analytical Parameters (TCLP)								
Arsenic,TCLP	mg/L	---	---	---		<0.010	<0.010	<0.010
Barium,TCLP	mg/L	---	---	---		0.39	0.28	0.4
Cadmium,TCLP	mg/L	---	---	---		0.0034	<0.0020	0.002
Chromium,TCLP	mg/L	---	---	---		<0.010	<0.010	<0.010
Lead,TCLP	mg/L	---	---	---		0.07	<0.0075	0.01
Mercury,TCLP	mg/L	---	---	---		<0.00020	<0.00020	<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.020	<0.020	<0.020
Silver,TCLP	mg/L	---	---	---		<0.010	<0.010	<0.010
Antimony,TCLP	mg/L	---	---	---		<0.0060	<0.0060	<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040	<0.0040	<0.0040
Calcium,TCLP	mg/L	---	---	---		230	420	460
Cobalt,TCLP	mg/L	---	---	---		0.022	<0.010	0.035
Copper,TCLP	mg/L	---	---	---		<0.010	<0.010	<0.010
Cyanide,TCLP	mg/L	---	---	---		--	--	--
Iron,TCLP	mg/L	---	---	---		0.29	<0.20	0.22
Magnesium,TCLP	mg/L	---	---	---		45	110	71
Manganese,TCLP	mg/L	---	---	---		4.6	<0.010	2.2
Nickel,TCLP	mg/L	---	---	---		0.023	<0.010	0.048
Potassium,TCLP	mg/L	---	---	---		2.7	2.6	3.8
Sodium,TCLP	mg/L	---	---	---		--	--	--
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.010	<0.010	<0.010
Zinc,TCLP	mg/L	---	---	---		0.32	<0.020	0.047

ANALYTICAL REPORT

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

Laboratory Job ID: 500-177905-1

Client Project/Site: IDOT - PTB 174-009 - WO 068

For:

Environmental Design International, Inc.
33 W. Monroe
Suite 1825
Chicago, Illinois 60603

Attn: Michael Fischer



Authorized for release by:
2/26/2020 4:56:05 PM

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

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

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

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

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



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Case Narrative

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177905-1

Job ID: 500-177905-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-177905-1

Receipt

The sample was received on 2/14/2020 2:00 PM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.0° C.

GC/MS VOA

Method 8260B: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for 530118 recovered outside control limits for the following analytes: Chloroethane and Chloromethane. These analytes were biased high in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported. 3229V-11-B01 (0-2) (500-177905-1)

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

GC/MS Semi VOA

Method 8270D: Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 3 analytes to recover outside criteria for this method when utilizing this list of analytes. The LCS associated with preparation batch 500-530357 and analytical batch 500-530474 had 1 analyte outside control limits: 2,4-Dinitrophenol. These results have been reported and qualified.

Method 8270D: The method blank for preparation batch 500-530357 and analytical batch 500-530474 contained Benzo[a]pyrene, Fluoranthene, Phenanthrene and Pyrene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

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

Metals

Method 6010B: The continuing calibration verification (CCV) at line 113 was outside the control limits for calcium, iron and zinc bracketing the method blank (MB) and laboratory control sample (LCS). The MB and LCS was within the method control limits. The associated sample 3229V-11-B01 (0-2) (500-177905-1) was bracketed with continuing calibration verifications that were within control limits, therefore the data has been reported.

Method 6020A:

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

General Chemistry

Method 9045D: Reanalysis of the following pH samples was performed outside of the analytical holding time due to an instrument malfunction : 3229V-11-B01 (0-2) (500-177905-1).

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

Organic Prep

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

Detection Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177905-1

Client Sample ID: 3229V-11-B01 (0-2)

Lab Sample ID: 500-177905-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.020	J	0.021	0.0090	mg/Kg	1	☼	8260B	Total/NA
Benzene	0.0071		0.0021	0.00052	mg/Kg	1	☼	8260B	Total/NA
Acenaphthene	0.0085	J	0.039	0.0070	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.0074	J	0.039	0.0051	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.028	J	0.039	0.0065	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.11	B	0.039	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.12		0.039	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.19		0.039	0.0084	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.051		0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.067		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.13		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.20	B	0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0096	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.043		0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.0083	J	0.078	0.0071	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.12	B	0.039	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.22	B	0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Arsenic	4.1		0.54	0.18	mg/Kg	1	☼	6010B	Total/NA
Barium	49		0.54	0.061	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.63		0.21	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.39	B	0.11	0.019	mg/Kg	1	☼	6010B	Total/NA
Chromium	13		0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.0		0.27	0.070	mg/Kg	1	☼	6010B	Total/NA
Copper	18		0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	11000		11	5.6	mg/Kg	1	☼	6010B	Total/NA
Lead	78		0.27	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	23000		5.4	2.7	mg/Kg	1	☼	6010B	Total/NA
Calcium	45000		110	18	mg/Kg	10	☼	6010B	Total/NA
Manganese	250		0.54	0.078	mg/Kg	1	☼	6010B	Total/NA
Nickel	17		0.54	0.16	mg/Kg	1	☼	6010B	Total/NA
Silver	0.18	J	0.27	0.069	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.27	0.063	mg/Kg	1	☼	6010B	Total/NA
Zinc	110		1.1	0.47	mg/Kg	1	☼	6010B	Total/NA
Potassium	1800		27	9.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	2500		54	7.9	mg/Kg	1	☼	6010B	Total/NA
Barium	0.39	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0034	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	230		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.022	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.29	J	0.40	0.20	mg/L	1		6010B	TCLP
Lead	0.070		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	45		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	4.6		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.023	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.7		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.32	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.36		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	1.0		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.080		0.018	0.0061	mg/Kg	1	☼	7471B	Total/NA
pH	8.8		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Method Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177905-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6010B	SPLP Metals	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9014	Cyanide	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
1311	TCLP Extraction	SW846	TAL CHI
1312	SPLP Extraction	SW846	TAL CHI
3010A	Preparation, Total Metals	SW846	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL CHI
7471B	Preparation, Mercury	SW846	TAL CHI
9010B	Cyanide, Distillation	SW846	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177905-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-177905-1	3229V-11-B01 (0-2)	Solid	02/13/20 13:05	02/14/20 14:00	

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Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177905-1

Client Sample ID: 3229V-11-B01 (0-2)

Lab Sample ID: 500-177905-1

Date Collected: 02/13/20 13:05

Matrix: Solid

Date Received: 02/14/20 14:00

Percent Solids: 85.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.020	J	0.021	0.0090	mg/Kg	☼	02/14/20 17:08	02/18/20 17:10	1
Benzene	0.0071		0.0021	0.00052	mg/Kg	☼	02/14/20 17:08	02/18/20 17:10	1
Bromodichloromethane	<0.00042		0.0021	0.00042	mg/Kg	☼	02/14/20 17:08	02/18/20 17:10	1
Bromoform	<0.00060		0.0021	0.00060	mg/Kg	☼	02/14/20 17:08	02/18/20 17:10	1
Bromomethane	<0.0019		0.0051	0.0019	mg/Kg	☼	02/14/20 17:08	02/18/20 17:10	1
2-Butanone (MEK)	<0.0023		0.0051	0.0023	mg/Kg	☼	02/14/20 17:08	02/18/20 17:10	1
Carbon disulfide	<0.0011		0.0051	0.0011	mg/Kg	☼	02/14/20 17:08	02/18/20 17:10	1
Carbon tetrachloride	<0.00060		0.0021	0.00060	mg/Kg	☼	02/14/20 17:08	02/18/20 17:10	1
Chlorobenzene	<0.00076		0.0021	0.00076	mg/Kg	☼	02/14/20 17:08	02/18/20 17:10	1
Chloroethane	<0.0015	*	0.0051	0.0015	mg/Kg	☼	02/14/20 17:08	02/18/20 17:10	1
Chloroform	<0.00071		0.0021	0.00071	mg/Kg	☼	02/14/20 17:08	02/18/20 17:10	1
Chloromethane	<0.0021	*	0.0051	0.0021	mg/Kg	☼	02/14/20 17:08	02/18/20 17:10	1
cis-1,2-Dichloroethene	<0.00057		0.0021	0.00057	mg/Kg	☼	02/14/20 17:08	02/18/20 17:10	1
cis-1,3-Dichloropropene	<0.00062		0.0021	0.00062	mg/Kg	☼	02/14/20 17:08	02/18/20 17:10	1
Dibromochloromethane	<0.00067		0.0021	0.00067	mg/Kg	☼	02/14/20 17:08	02/18/20 17:10	1
1,1-Dichloroethane	<0.00070		0.0021	0.00070	mg/Kg	☼	02/14/20 17:08	02/18/20 17:10	1
1,2-Dichloroethane	<0.0016		0.0051	0.0016	mg/Kg	☼	02/14/20 17:08	02/18/20 17:10	1
1,1-Dichloroethene	<0.00071		0.0021	0.00071	mg/Kg	☼	02/14/20 17:08	02/18/20 17:10	1
1,2-Dichloropropane	<0.00053		0.0021	0.00053	mg/Kg	☼	02/14/20 17:08	02/18/20 17:10	1
1,3-Dichloropropane, Total	<0.00072		0.0021	0.00072	mg/Kg	☼	02/14/20 17:08	02/18/20 17:10	1
Ethylbenzene	<0.00098		0.0021	0.00098	mg/Kg	☼	02/14/20 17:08	02/18/20 17:10	1
2-Hexanone	<0.0016		0.0051	0.0016	mg/Kg	☼	02/14/20 17:08	02/18/20 17:10	1
Methylene Chloride	<0.0020		0.0051	0.0020	mg/Kg	☼	02/14/20 17:08	02/18/20 17:10	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0051	0.0015	mg/Kg	☼	02/14/20 17:08	02/18/20 17:10	1
Methyl tert-butyl ether	<0.00060		0.0021	0.00060	mg/Kg	☼	02/14/20 17:08	02/18/20 17:10	1
Styrene	<0.00062		0.0021	0.00062	mg/Kg	☼	02/14/20 17:08	02/18/20 17:10	1
1,1,2,2-Tetrachloroethane	<0.00066		0.0021	0.00066	mg/Kg	☼	02/14/20 17:08	02/18/20 17:10	1
Tetrachloroethene	<0.00070		0.0021	0.00070	mg/Kg	☼	02/14/20 17:08	02/18/20 17:10	1
Toluene	<0.00052		0.0021	0.00052	mg/Kg	☼	02/14/20 17:08	02/18/20 17:10	1
trans-1,2-Dichloroethene	<0.00091		0.0021	0.00091	mg/Kg	☼	02/14/20 17:08	02/18/20 17:10	1
trans-1,3-Dichloropropene	<0.00072		0.0021	0.00072	mg/Kg	☼	02/14/20 17:08	02/18/20 17:10	1
1,1,1-Trichloroethane	<0.00069		0.0021	0.00069	mg/Kg	☼	02/14/20 17:08	02/18/20 17:10	1
1,1,2-Trichloroethane	<0.00088		0.0021	0.00088	mg/Kg	☼	02/14/20 17:08	02/18/20 17:10	1
Trichloroethene	<0.00069		0.0021	0.00069	mg/Kg	☼	02/14/20 17:08	02/18/20 17:10	1
Vinyl acetate	<0.0018		0.0051	0.0018	mg/Kg	☼	02/14/20 17:08	02/18/20 17:10	1
Vinyl chloride	<0.00091		0.0021	0.00091	mg/Kg	☼	02/14/20 17:08	02/18/20 17:10	1
Xylenes, Total	<0.00066		0.0041	0.00066	mg/Kg	☼	02/14/20 17:08	02/18/20 17:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		75 - 131	02/14/20 17:08	02/18/20 17:10	1
Dibromofluoromethane	89		75 - 126	02/14/20 17:08	02/18/20 17:10	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	02/14/20 17:08	02/18/20 17:10	1
Toluene-d8 (Surr)	97		75 - 124	02/14/20 17:08	02/18/20 17:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.0085	J	0.039	0.0070	mg/Kg	☼	02/19/20 08:46	02/20/20 01:57	1
Acenaphthylene	0.0074	J	0.039	0.0051	mg/Kg	☼	02/19/20 08:46	02/20/20 01:57	1
Anthracene	0.028	J	0.039	0.0065	mg/Kg	☼	02/19/20 08:46	02/20/20 01:57	1
Benzo[a]anthracene	0.11	B	0.039	0.0052	mg/Kg	☼	02/19/20 08:46	02/20/20 01:57	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177905-1

Client Sample ID: 3229V-11-B01 (0-2)

Lab Sample ID: 500-177905-1

Date Collected: 02/13/20 13:05

Matrix: Solid

Date Received: 02/14/20 14:00

Percent Solids: 85.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.12		0.039	0.0075	mg/Kg	☼	02/19/20 08:46	02/20/20 01:57	1
Benzo[b]fluoranthene	0.19		0.039	0.0084	mg/Kg	☼	02/19/20 08:46	02/20/20 01:57	1
Benzo[g,h,i]perylene	0.051		0.039	0.013	mg/Kg	☼	02/19/20 08:46	02/20/20 01:57	1
Benzo[k]fluoranthene	0.067		0.039	0.011	mg/Kg	☼	02/19/20 08:46	02/20/20 01:57	1
Bis(2-chloroethoxy)methane	<0.040		0.20	0.040	mg/Kg	☼	02/19/20 08:46	02/20/20 01:57	1
Bis(2-chloroethyl)ether	<0.058		0.20	0.058	mg/Kg	☼	02/19/20 08:46	02/20/20 01:57	1
Bis(2-ethylhexyl) phthalate	<0.071		0.20	0.071	mg/Kg	☼	02/19/20 08:46	02/20/20 01:57	1
4-Bromophenyl phenyl ether	<0.051		0.20	0.051	mg/Kg	☼	02/19/20 08:46	02/20/20 01:57	1
Butyl benzyl phthalate	<0.074		0.20	0.074	mg/Kg	☼	02/19/20 08:46	02/20/20 01:57	1
Carbazole	<0.097		0.20	0.097	mg/Kg	☼	02/19/20 08:46	02/20/20 01:57	1
4-Chloroaniline	<0.18		0.78	0.18	mg/Kg	☼	02/19/20 08:46	02/20/20 01:57	1
4-Chloro-3-methylphenol	<0.13		0.39	0.13	mg/Kg	☼	02/19/20 08:46	02/20/20 01:57	1
2-Chloronaphthalene	<0.043		0.20	0.043	mg/Kg	☼	02/19/20 08:46	02/20/20 01:57	1
2-Chlorophenol	<0.066		0.20	0.066	mg/Kg	☼	02/19/20 08:46	02/20/20 01:57	1
4-Chlorophenyl phenyl ether	<0.045		0.20	0.045	mg/Kg	☼	02/19/20 08:46	02/20/20 01:57	1
Chrysene	0.13		0.039	0.011	mg/Kg	☼	02/19/20 08:46	02/20/20 01:57	1
Dibenz(a,h)anthracene	<0.0075		0.039	0.0075	mg/Kg	☼	02/19/20 08:46	02/20/20 01:57	1
Dibenzofuran	<0.046		0.20	0.046	mg/Kg	☼	02/19/20 08:46	02/20/20 01:57	1
1,2-Dichlorobenzene	<0.046		0.20	0.046	mg/Kg	☼	02/19/20 08:46	02/20/20 01:57	1
1,3-Dichlorobenzene	<0.044		0.20	0.044	mg/Kg	☼	02/19/20 08:46	02/20/20 01:57	1
1,4-Dichlorobenzene	<0.050		0.20	0.050	mg/Kg	☼	02/19/20 08:46	02/20/20 01:57	1
3,3'-Dichlorobenzidine	<0.054		0.20	0.054	mg/Kg	☼	02/19/20 08:46	02/20/20 01:57	1
2,4-Dichlorophenol	<0.092		0.39	0.092	mg/Kg	☼	02/19/20 08:46	02/20/20 01:57	1
Diethyl phthalate	<0.066		0.20	0.066	mg/Kg	☼	02/19/20 08:46	02/20/20 01:57	1
2,4-Dimethylphenol	<0.15		0.39	0.15	mg/Kg	☼	02/19/20 08:46	02/20/20 01:57	1
Dimethyl phthalate	<0.051		0.20	0.051	mg/Kg	☼	02/19/20 08:46	02/20/20 01:57	1
Di-n-butyl phthalate	<0.059		0.20	0.059	mg/Kg	☼	02/19/20 08:46	02/20/20 01:57	1
4,6-Dinitro-2-methylphenol	<0.31		0.78	0.31	mg/Kg	☼	02/19/20 08:46	02/20/20 01:57	1
2,4-Dinitrophenol	<0.68 *		0.78	0.68	mg/Kg	☼	02/19/20 08:46	02/20/20 01:57	1
2,4-Dinitrotoluene	<0.062		0.20	0.062	mg/Kg	☼	02/19/20 08:46	02/20/20 01:57	1
2,6-Dinitrotoluene	<0.076		0.20	0.076	mg/Kg	☼	02/19/20 08:46	02/20/20 01:57	1
Di-n-octyl phthalate	<0.063		0.20	0.063	mg/Kg	☼	02/19/20 08:46	02/20/20 01:57	1
Fluoranthene	0.20 B		0.039	0.0072	mg/Kg	☼	02/19/20 08:46	02/20/20 01:57	1
Fluorene	0.0096 J		0.039	0.0055	mg/Kg	☼	02/19/20 08:46	02/20/20 01:57	1
Hexachlorobenzene	<0.0090		0.078	0.0090	mg/Kg	☼	02/19/20 08:46	02/20/20 01:57	1
Hexachlorobutadiene	<0.061		0.20	0.061	mg/Kg	☼	02/19/20 08:46	02/20/20 01:57	1
Hexachlorocyclopentadiene	<0.22		0.78	0.22	mg/Kg	☼	02/19/20 08:46	02/20/20 01:57	1
Hexachloroethane	<0.059		0.20	0.059	mg/Kg	☼	02/19/20 08:46	02/20/20 01:57	1
Indeno[1,2,3-cd]pyrene	0.043		0.039	0.010	mg/Kg	☼	02/19/20 08:46	02/20/20 01:57	1
Isophorone	<0.044		0.20	0.044	mg/Kg	☼	02/19/20 08:46	02/20/20 01:57	1
2-Methylnaphthalene	0.0083 J		0.078	0.0071	mg/Kg	☼	02/19/20 08:46	02/20/20 01:57	1
2-Methylphenol	<0.062		0.20	0.062	mg/Kg	☼	02/19/20 08:46	02/20/20 01:57	1
3 & 4 Methylphenol	<0.065		0.20	0.065	mg/Kg	☼	02/19/20 08:46	02/20/20 01:57	1
Naphthalene	<0.0060		0.039	0.0060	mg/Kg	☼	02/19/20 08:46	02/20/20 01:57	1
2-Nitroaniline	<0.052		0.20	0.052	mg/Kg	☼	02/19/20 08:46	02/20/20 01:57	1
3-Nitroaniline	<0.12		0.39	0.12	mg/Kg	☼	02/19/20 08:46	02/20/20 01:57	1
4-Nitroaniline	<0.16		0.39	0.16	mg/Kg	☼	02/19/20 08:46	02/20/20 01:57	1
Nitrobenzene	<0.0097		0.039	0.0097	mg/Kg	☼	02/19/20 08:46	02/20/20 01:57	1
2-Nitrophenol	<0.092		0.39	0.092	mg/Kg	☼	02/19/20 08:46	02/20/20 01:57	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177905-1

Client Sample ID: 3229V-11-B01 (0-2)

Lab Sample ID: 500-177905-1

Date Collected: 02/13/20 13:05

Matrix: Solid

Date Received: 02/14/20 14:00

Percent Solids: 85.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.37		0.78	0.37	mg/Kg	☼	02/19/20 08:46	02/20/20 01:57	1
N-Nitrosodi-n-propylamine	<0.047		0.078	0.047	mg/Kg	☼	02/19/20 08:46	02/20/20 01:57	1
N-Nitrosodiphenylamine	<0.046		0.20	0.046	mg/Kg	☼	02/19/20 08:46	02/20/20 01:57	1
2,2'-oxybis[1-chloropropane]	<0.045		0.20	0.045	mg/Kg	☼	02/19/20 08:46	02/20/20 01:57	1
Pentachlorophenol	<0.62		0.78	0.62	mg/Kg	☼	02/19/20 08:46	02/20/20 01:57	1
Phenanthrene	0.12	B	0.039	0.0054	mg/Kg	☼	02/19/20 08:46	02/20/20 01:57	1
Phenol	<0.086		0.20	0.086	mg/Kg	☼	02/19/20 08:46	02/20/20 01:57	1
Pyrene	0.22	B	0.039	0.0077	mg/Kg	☼	02/19/20 08:46	02/20/20 01:57	1
1,2,4-Trichlorobenzene	<0.042		0.20	0.042	mg/Kg	☼	02/19/20 08:46	02/20/20 01:57	1
2,4,5-Trichlorophenol	<0.089		0.39	0.089	mg/Kg	☼	02/19/20 08:46	02/20/20 01:57	1
2,4,6-Trichlorophenol	<0.13		0.39	0.13	mg/Kg	☼	02/19/20 08:46	02/20/20 01:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	69		43 - 145				02/19/20 08:46	02/20/20 01:57	1
2-Fluorophenol	77		31 - 166				02/19/20 08:46	02/20/20 01:57	1
Nitrobenzene-d5	63		37 - 147				02/19/20 08:46	02/20/20 01:57	1
Phenol-d5	71		30 - 153				02/19/20 08:46	02/20/20 01:57	1
Terphenyl-d14	126		42 - 157				02/19/20 08:46	02/20/20 01:57	1
2,4,6-Tribromophenol	101		31 - 143				02/19/20 08:46	02/20/20 01:57	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.21		1.1	0.21	mg/Kg	☼	02/18/20 07:08	02/19/20 14:31	1
Arsenic	4.1		0.54	0.18	mg/Kg	☼	02/18/20 07:08	02/18/20 19:01	1
Barium	49		0.54	0.061	mg/Kg	☼	02/18/20 07:08	02/18/20 19:01	1
Beryllium	0.63		0.21	0.050	mg/Kg	☼	02/18/20 07:08	02/19/20 14:31	1
Cadmium	0.39	B	0.11	0.019	mg/Kg	☼	02/18/20 07:08	02/18/20 19:01	1
Chromium	13		0.54	0.27	mg/Kg	☼	02/18/20 07:08	02/18/20 19:01	1
Cobalt	7.0		0.27	0.070	mg/Kg	☼	02/18/20 07:08	02/18/20 19:01	1
Copper	18		0.54	0.15	mg/Kg	☼	02/18/20 07:08	02/18/20 19:01	1
Iron	11000		11	5.6	mg/Kg	☼	02/18/20 07:08	02/18/20 19:01	1
Lead	78		0.27	0.12	mg/Kg	☼	02/18/20 07:08	02/18/20 19:01	1
Magnesium	23000		5.4	2.7	mg/Kg	☼	02/18/20 07:08	02/19/20 14:31	1
Calcium	45000		110	18	mg/Kg	☼	02/18/20 07:08	02/19/20 14:35	10
Manganese	250		0.54	0.078	mg/Kg	☼	02/18/20 07:08	02/19/20 14:31	1
Nickel	17		0.54	0.16	mg/Kg	☼	02/18/20 07:08	02/19/20 14:31	1
Selenium	<0.31		0.54	0.31	mg/Kg	☼	02/18/20 07:08	02/18/20 19:01	1
Silver	0.18	J	0.27	0.069	mg/Kg	☼	02/18/20 07:08	02/18/20 19:01	1
Thallium	<0.27		0.54	0.27	mg/Kg	☼	02/18/20 07:08	02/19/20 14:31	1
Vanadium	20		0.27	0.063	mg/Kg	☼	02/18/20 07:08	02/18/20 19:01	1
Zinc	110		1.1	0.47	mg/Kg	☼	02/18/20 07:08	02/18/20 19:01	1
Potassium	1800		27	9.5	mg/Kg	☼	02/18/20 07:08	02/18/20 19:01	1
Sodium	2500		54	7.9	mg/Kg	☼	02/18/20 07:08	02/19/20 14:31	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		02/20/20 14:45	02/21/20 11:03	1
Barium	0.39	J	0.50	0.050	mg/L		02/20/20 14:45	02/21/20 11:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/20/20 14:45	02/21/20 11:03	1
Cadmium	0.0034	J	0.0050	0.0020	mg/L		02/20/20 14:45	02/21/20 11:03	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177905-1

Client Sample ID: 3229V-11-B01 (0-2)

Lab Sample ID: 500-177905-1

Date Collected: 02/13/20 13:05

Matrix: Solid

Date Received: 02/14/20 14:00

Percent Solids: 85.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	230		5.0	0.50	mg/L		02/20/20 14:45	02/21/20 11:03	1
Chromium	<0.010		0.025	0.010	mg/L		02/20/20 14:45	02/21/20 11:03	1
Cobalt	0.022	J	0.025	0.010	mg/L		02/20/20 14:45	02/21/20 11:03	1
Copper	<0.010		0.025	0.010	mg/L		02/20/20 14:45	02/21/20 11:03	1
Iron	0.29	J	0.40	0.20	mg/L		02/20/20 14:45	02/21/20 11:03	1
Lead	0.070		0.0075	0.0075	mg/L		02/20/20 14:45	02/21/20 11:03	1
Magnesium	45		2.5	0.50	mg/L		02/20/20 14:45	02/21/20 11:03	1
Manganese	4.6		0.025	0.010	mg/L		02/20/20 14:45	02/21/20 11:03	1
Nickel	0.023	J	0.025	0.010	mg/L		02/20/20 14:45	02/21/20 11:03	1
Potassium	2.7		2.5	0.50	mg/L		02/20/20 14:45	02/21/20 11:03	1
Selenium	<0.020		0.050	0.020	mg/L		02/20/20 14:45	02/21/20 11:03	1
Silver	<0.010		0.025	0.010	mg/L		02/20/20 14:45	02/21/20 11:03	1
Vanadium	<0.010		0.025	0.010	mg/L		02/20/20 14:45	02/21/20 11:03	1
Zinc	0.32	J	0.50	0.020	mg/L		02/20/20 14:45	02/21/20 11:03	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.36		0.0075	0.0075	mg/L		02/20/20 14:43	02/21/20 10:18	1
Manganese	1.0		0.025	0.010	mg/L		02/20/20 14:43	02/21/20 10:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/20/20 14:45	02/21/20 22:53	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/20/20 14:45	02/21/20 22:53	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/21/20 10:55	02/24/20 08:18	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.080		0.018	0.0061	mg/Kg	☼	02/21/20 15:40	02/24/20 09:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.25		0.50	0.25	mg/Kg	☼	02/26/20 09:30	02/26/20 13:05	1
pH	8.8		0.2	0.2	SU			02/22/20 19:23	1

Definitions/Glossary

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177905-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

QC Association Summary

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177905-1

GC/MS VOA

Prep Batch: 529874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177905-1	3229V-11-B01 (0-2)	Total/NA	Solid	5035	

Analysis Batch: 530118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177905-1	3229V-11-B01 (0-2)	Total/NA	Solid	8260B	529874
MB 500-530118/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-530118/4	Lab Control Sample	Total/NA	Solid	8260B	
LCS 500-530118/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 530357

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177905-1	3229V-11-B01 (0-2)	Total/NA	Solid	3541	
MB 500-530357/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-530357/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 530474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177905-1	3229V-11-B01 (0-2)	Total/NA	Solid	8270D	530357
MB 500-530357/1-A	Method Blank	Total/NA	Solid	8270D	530357
LCS 500-530357/2-A	Lab Control Sample	Total/NA	Solid	8270D	530357

Metals

Prep Batch: 530108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177905-1	3229V-11-B01 (0-2)	Total/NA	Solid	3050B	
MB 500-530108/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-530108/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 530302

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177905-1	3229V-11-B01 (0-2)	Total/NA	Solid	6010B	530108
MB 500-530108/1-A	Method Blank	Total/NA	Solid	6010B	530108
LCS 500-530108/2-A	Lab Control Sample	Total/NA	Solid	6010B	530108

Leach Batch: 530437

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177905-1	3229V-11-B01 (0-2)	SPLP East	Solid	1312	
LB 500-530437/1-B	Method Blank	SPLP East	Solid	1312	

Leach Batch: 530439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177905-1	3229V-11-B01 (0-2)	TCLP	Solid	1311	
LB 500-530439/1-B	Method Blank	TCLP	Solid	1311	
LB 500-530439/1-C	Method Blank	TCLP	Solid	1311	

Analysis Batch: 530532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177905-1	3229V-11-B01 (0-2)	Total/NA	Solid	6010B	530108
500-177905-1	3229V-11-B01 (0-2)	Total/NA	Solid	6010B	530108

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QC Association Summary

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177905-1

Metals (Continued)

Analysis Batch: 530532 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-530108/1-A	Method Blank	Total/NA	Solid	6010B	530108
LCS 500-530108/2-A	Lab Control Sample	Total/NA	Solid	6010B	530108

Prep Batch: 530714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177905-1	3229V-11-B01 (0-2)	SPLP East	Solid	3010A	530437
LB 500-530437/1-B	Method Blank	SPLP East	Solid	3010A	530437
LCS 500-530714/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 530716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177905-1	3229V-11-B01 (0-2)	TCLP	Solid	3010A	530439
LB 500-530439/1-B	Method Blank	TCLP	Solid	3010A	530439
LCS 500-530716/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 530882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177905-1	3229V-11-B01 (0-2)	TCLP	Solid	7470A	530439
LB 500-530439/1-C	Method Blank	TCLP	Solid	7470A	530439
MB 500-530882/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-530882/14-A	Lab Control Sample	Total/NA	Solid	7470A	

Prep Batch: 530893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177905-1	3229V-11-B01 (0-2)	Total/NA	Solid	7471B	
MB 500-530893/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-530893/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 530900

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177905-1	3229V-11-B01 (0-2)	SPLP East	Solid	6010B	530714
LB 500-530437/1-B	Method Blank	SPLP East	Solid	6010B	530714
LCS 500-530714/2-A	Lab Control Sample	Total/NA	Solid	6010B	530714

Analysis Batch: 531048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177905-1	3229V-11-B01 (0-2)	TCLP	Solid	6010B	530716
LB 500-530439/1-B	Method Blank	TCLP	Solid	6010B	530716
LCS 500-530716/2-A	Lab Control Sample	Total/NA	Solid	6010B	530716

Analysis Batch: 531117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177905-1	3229V-11-B01 (0-2)	TCLP	Solid	6020A	530716
LB 500-530439/1-B	Method Blank	TCLP	Solid	6020A	530716
LCS 500-530716/2-A	Lab Control Sample	Total/NA	Solid	6020A	530716

Analysis Batch: 531118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177905-1	3229V-11-B01 (0-2)	TCLP	Solid	7470A	530882
LB 500-530439/1-C	Method Blank	TCLP	Solid	7470A	530882
MB 500-530882/12-A	Method Blank	Total/NA	Solid	7470A	530882

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QC Association Summary

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177905-1

Metals (Continued)

Analysis Batch: 531118 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-530882/14-A	Lab Control Sample	Total/NA	Solid	7470A	530882

Analysis Batch: 531150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177905-1	3229V-11-B01 (0-2)	Total/NA	Solid	7471B	530893
MB 500-530893/12-A	Method Blank	Total/NA	Solid	7471B	530893
LCS 500-530893/13-A	Lab Control Sample	Total/NA	Solid	7471B	530893

General Chemistry

Analysis Batch: 530170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177905-1	3229V-11-B01 (0-2)	Total/NA	Solid	Moisture	

Analysis Batch: 531081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177905-1	3229V-11-B01 (0-2)	Total/NA	Solid	9045D	
LCS 500-531081/6	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-531081/7	Lab Control Sample Dup	Total/NA	Solid	9045D	

Prep Batch: 531452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177905-1	3229V-11-B01 (0-2)	Total/NA	Solid	9010B	
MB 500-531452/1-A	Method Blank	Total/NA	Solid	9010B	
LCS 500-531452/2-A	Lab Control Sample	Total/NA	Solid	9010B	

Analysis Batch: 531560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177905-1	3229V-11-B01 (0-2)	Total/NA	Solid	9014	531452
MB 500-531452/1-A	Method Blank	Total/NA	Solid	9014	531452
LCS 500-531452/2-A	Lab Control Sample	Total/NA	Solid	9014	531452

Surrogate Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177905-1

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB (75-131)	DBFM (75-126)	DCA (70-134)	TOL (75-124)
500-177905-1	3229V-11-B01 (0-2)	107	89	91	97
LCS 500-530118/4	Lab Control Sample	100	94	89	90
LCSD 500-530118/5	Lab Control Sample Dup	103	98	87	93
MB 500-530118/7	Method Blank	100	88	91	94

Surrogate Legend

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

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	FBP (43-145)	2FP (31-166)	NBZ (37-147)	PHL (30-153)	TPHL (42-157)	TBP (31-143)
500-177905-1	3229V-11-B01 (0-2)	69	77	63	71	126	101
LCS 500-530357/2-A	Lab Control Sample	95	99	92	97	115	84
MB 500-530357/1-A	Method Blank	93	97	82	91	133	90

Surrogate Legend

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPHL = Terphenyl-d14
TBP = 2,4,6-Tribromophenol

QC Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177905-1

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

Lab Sample ID: MB 500-530118/7
Matrix: Solid
Analysis Batch: 530118

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.0087		0.020	0.0087	mg/Kg			02/18/20 11:13	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg			02/18/20 11:13	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg			02/18/20 11:13	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg			02/18/20 11:13	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg			02/18/20 11:13	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			02/18/20 11:13	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg			02/18/20 11:13	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg			02/18/20 11:13	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg			02/18/20 11:13	1
Chloroethane	<0.0015		0.0050	0.0015	mg/Kg			02/18/20 11:13	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg			02/18/20 11:13	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg			02/18/20 11:13	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg			02/18/20 11:13	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg			02/18/20 11:13	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg			02/18/20 11:13	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg			02/18/20 11:13	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg			02/18/20 11:13	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg			02/18/20 11:13	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			02/18/20 11:13	1
1,3-Dichloropropene, Total	<0.00070		0.0020	0.00070	mg/Kg			02/18/20 11:13	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg			02/18/20 11:13	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg			02/18/20 11:13	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg			02/18/20 11:13	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg			02/18/20 11:13	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg			02/18/20 11:13	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg			02/18/20 11:13	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg			02/18/20 11:13	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg			02/18/20 11:13	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg			02/18/20 11:13	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg			02/18/20 11:13	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg			02/18/20 11:13	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg			02/18/20 11:13	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg			02/18/20 11:13	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg			02/18/20 11:13	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg			02/18/20 11:13	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg			02/18/20 11:13	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg			02/18/20 11:13	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	100		75 - 131		02/18/20 11:13	1
Dibromofluoromethane	88		75 - 126		02/18/20 11:13	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134		02/18/20 11:13	1
Toluene-d8 (Surr)	94		75 - 124		02/18/20 11:13	1

QC Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177905-1

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

Lab Sample ID: LCS 500-530118/4

Matrix: Solid

Analysis Batch: 530118

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	0.0519		mg/Kg		104	40 - 150
Benzene	0.0500	0.0456		mg/Kg		91	70 - 125
Bromodichloromethane	0.0500	0.0426		mg/Kg		85	67 - 129
Bromoform	0.0500	0.0414		mg/Kg		83	68 - 136
Bromomethane	0.0500	0.0574		mg/Kg		115	70 - 130
2-Butanone (MEK)	0.0500	0.0503		mg/Kg		101	47 - 138
Carbon disulfide	0.0500	0.0438		mg/Kg		88	70 - 129
Carbon tetrachloride	0.0500	0.0447		mg/Kg		89	75 - 125
Chlorobenzene	0.0500	0.0445		mg/Kg		89	50 - 150
Chloroethane	0.0500	0.0754	*	mg/Kg		151	75 - 125
Chloroform	0.0500	0.0454		mg/Kg		91	57 - 135
Chloromethane	0.0500	0.0665	*	mg/Kg		133	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0471		mg/Kg		94	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0390		mg/Kg		78	70 - 125
Dibromochloromethane	0.0500	0.0399		mg/Kg		80	69 - 125
1,1-Dichloroethane	0.0500	0.0476		mg/Kg		95	70 - 125
1,2-Dichloroethane	0.0500	0.0448		mg/Kg		90	70 - 130
1,1-Dichloroethene	0.0500	0.0472		mg/Kg		94	70 - 120
1,2-Dichloropropane	0.0500	0.0452		mg/Kg		90	70 - 125
Ethylbenzene	0.0500	0.0432		mg/Kg		86	61 - 136
2-Hexanone	0.0500	0.0505		mg/Kg		101	48 - 146
Methylene Chloride	0.0500	0.0482		mg/Kg		96	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0478		mg/Kg		96	50 - 148
Methyl tert-butyl ether	0.0500	0.0467		mg/Kg		93	50 - 140
Styrene	0.0500	0.0435		mg/Kg		87	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0462		mg/Kg		92	70 - 122
Tetrachloroethene	0.0500	0.0471		mg/Kg		94	70 - 124
Toluene	0.0500	0.0423		mg/Kg		85	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0490		mg/Kg		98	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0383		mg/Kg		77	70 - 125
1,1,1-Trichloroethane	0.0500	0.0459		mg/Kg		92	70 - 128
1,1,2-Trichloroethane	0.0500	0.0425		mg/Kg		85	70 - 125
Trichloroethene	0.0500	0.0464		mg/Kg		93	70 - 125
Vinyl acetate	0.0500	0.0509		mg/Kg		102	40 - 153
Vinyl chloride	0.0500	0.0568		mg/Kg		114	70 - 125
Xylenes, Total	0.100	0.0863		mg/Kg		86	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	100		75 - 131
Dibromofluoromethane	94		75 - 126
1,2-Dichloroethane-d4 (Surr)	89		70 - 134
Toluene-d8 (Surr)	90		75 - 124

QC Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177905-1

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

Lab Sample ID: LCSD 500-530118/5

Matrix: Solid

Analysis Batch: 530118

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	0.0481		mg/Kg		96	40 - 150	8	30
Benzene	0.0500	0.0448		mg/Kg		90	70 - 125	2	30
Bromodichloromethane	0.0500	0.0417		mg/Kg		83	67 - 129	2	30
Bromoform	0.0500	0.0405		mg/Kg		81	68 - 136	2	30
Bromomethane	0.0500	0.0512		mg/Kg		102	70 - 130	11	30
2-Butanone (MEK)	0.0500	0.0424		mg/Kg		85	47 - 138	17	30
Carbon disulfide	0.0500	0.0438		mg/Kg		88	70 - 129	0	30
Carbon tetrachloride	0.0500	0.0435		mg/Kg		87	75 - 125	3	30
Chlorobenzene	0.0500	0.0437		mg/Kg		87	50 - 150	2	30
Chloroethane	0.0500	0.0688	*	mg/Kg		138	75 - 125	9	30
Chloroform	0.0500	0.0452		mg/Kg		90	57 - 135	0	30
Chloromethane	0.0500	0.0643	*	mg/Kg		129	70 - 125	3	30
cis-1,2-Dichloroethene	0.0500	0.0476		mg/Kg		95	70 - 125	1	30
cis-1,3-Dichloropropene	0.0500	0.0383		mg/Kg		77	70 - 125	2	30
Dibromochloromethane	0.0500	0.0397		mg/Kg		79	69 - 125	0	30
1,1-Dichloroethane	0.0500	0.0470		mg/Kg		94	70 - 125	1	30
1,2-Dichloroethane	0.0500	0.0433		mg/Kg		87	70 - 130	3	30
1,1-Dichloroethene	0.0500	0.0471		mg/Kg		94	70 - 120	0	30
1,2-Dichloropropane	0.0500	0.0445		mg/Kg		89	70 - 125	2	30
Ethylbenzene	0.0500	0.0425		mg/Kg		85	61 - 136	2	30
2-Hexanone	0.0500	0.0421		mg/Kg		84	48 - 146	18	30
Methylene Chloride	0.0500	0.0483		mg/Kg		97	70 - 126	0	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0396		mg/Kg		79	50 - 148	19	30
Methyl tert-butyl ether	0.0500	0.0451		mg/Kg		90	50 - 140	4	30
Styrene	0.0500	0.0420		mg/Kg		84	70 - 125	4	30
1,1,2,2-Tetrachloroethane	0.0500	0.0439		mg/Kg		88	70 - 122	5	30
Tetrachloroethene	0.0500	0.0468		mg/Kg		94	70 - 124	1	30
Toluene	0.0500	0.0412		mg/Kg		82	70 - 125	3	30
trans-1,2-Dichloroethene	0.0500	0.0485		mg/Kg		97	70 - 125	1	30
trans-1,3-Dichloropropene	0.0500	0.0384		mg/Kg		77	70 - 125	0	30
1,1,1-Trichloroethane	0.0500	0.0453		mg/Kg		91	70 - 128	1	30
1,1,2-Trichloroethane	0.0500	0.0418		mg/Kg		84	70 - 125	2	30
Trichloroethene	0.0500	0.0461		mg/Kg		92	70 - 125	1	30
Vinyl acetate	0.0500	0.0447		mg/Kg		89	40 - 153	13	30
Vinyl chloride	0.0500	0.0534		mg/Kg		107	70 - 125	6	30
Xylenes, Total	0.100	0.0847		mg/Kg		85	53 - 147	2	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	103		75 - 131
Dibromofluoromethane	98		75 - 126
1,2-Dichloroethane-d4 (Surr)	87		70 - 134
Toluene-d8 (Surr)	93		75 - 124

QC Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177905-1

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

Lab Sample ID: MB 500-530357/1-A

Matrix: Solid

Analysis Batch: 530474

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 530357

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0060		0.033	0.0060	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
Acenaphthylene	<0.0044		0.033	0.0044	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
Anthracene	<0.0056		0.033	0.0056	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
Benzo[a]anthracene	0.00456	J	0.033	0.0045	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
Benzo[a]pyrene	<0.0064		0.033	0.0064	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
Benzo[b]fluoranthene	<0.0072		0.033	0.0072	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
Benzo[g,h,i]perylene	<0.011		0.033	0.011	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
Benzo[k]fluoranthene	<0.0098		0.033	0.0098	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
Bis(2-chloroethoxy)methane	<0.034		0.17	0.034	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
Bis(2-chloroethyl)ether	<0.050		0.17	0.050	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
Bis(2-ethylhexyl) phthalate	<0.061		0.17	0.061	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
4-Bromophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
Butyl benzyl phthalate	<0.063		0.17	0.063	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
Carbazole	<0.083		0.17	0.083	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
4-Chloroaniline	<0.16		0.67	0.16	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
4-Chloro-3-methylphenol	<0.11		0.33	0.11	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
2-Chloronaphthalene	<0.037		0.17	0.037	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
2-Chlorophenol	<0.057		0.17	0.057	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
4-Chlorophenyl phenyl ether	<0.039		0.17	0.039	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
Chrysene	<0.0091		0.033	0.0091	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
Dibenz(a,h)anthracene	<0.0064		0.033	0.0064	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
Dibenzofuran	<0.039		0.17	0.039	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
1,2-Dichlorobenzene	<0.040		0.17	0.040	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
1,3-Dichlorobenzene	<0.037		0.17	0.037	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
1,4-Dichlorobenzene	<0.043		0.17	0.043	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
3,3'-Dichlorobenzidine	<0.047		0.17	0.047	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
2,4-Dichlorophenol	<0.079		0.33	0.079	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
Diethyl phthalate	<0.056		0.17	0.056	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
2,4-Dimethylphenol	<0.13		0.33	0.13	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
Dimethyl phthalate	<0.043		0.17	0.043	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
Di-n-butyl phthalate	<0.051		0.17	0.051	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
4,6-Dinitro-2-methylphenol	<0.27		0.67	0.27	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
2,4-Dinitrophenol	<0.59		0.67	0.59	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
2,4-Dinitrotoluene	<0.053		0.17	0.053	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
2,6-Dinitrotoluene	<0.065		0.17	0.065	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
Di-n-octyl phthalate	<0.054		0.17	0.054	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
Fluoranthene	0.0130	J	0.033	0.0062	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
Fluorene	<0.0047		0.033	0.0047	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
Hexachlorobenzene	<0.0077		0.067	0.0077	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
Hexachlorobutadiene	<0.052		0.17	0.052	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
Hexachlorocyclopentadiene	<0.19		0.67	0.19	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
Hexachloroethane	<0.051		0.17	0.051	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
Indeno[1,2,3-cd]pyrene	<0.0086		0.033	0.0086	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
Isophorone	<0.037		0.17	0.037	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
2-Methylnaphthalene	<0.0061		0.067	0.0061	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
2-Methylphenol	<0.053		0.17	0.053	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
3 & 4 Methylphenol	<0.055		0.17	0.055	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
Naphthalene	<0.0051		0.033	0.0051	mg/Kg		02/19/20 08:46	02/19/20 20:32	1

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QC Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177905-1

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

Lab Sample ID: MB 500-530357/1-A

Matrix: Solid

Analysis Batch: 530474

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 530357

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2-Nitroaniline	<0.045		0.17	0.045	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
3-Nitroaniline	<0.10		0.33	0.10	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
4-Nitroaniline	<0.14		0.33	0.14	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
Nitrobenzene	<0.0083		0.033	0.0083	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
2-Nitrophenol	<0.079		0.33	0.079	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
4-Nitrophenol	<0.32		0.67	0.32	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
N-Nitrosodi-n-propylamine	<0.041		0.067	0.041	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
N-Nitrosodiphenylamine	<0.039		0.17	0.039	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
2,2'-oxybis[1-chloropropane]	<0.039		0.17	0.039	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
Pentachlorophenol	<0.53		0.67	0.53	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
Phenanthrene	0.00884	J	0.033	0.0046	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
Phenol	<0.074		0.17	0.074	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
Pyrene	0.0107	J	0.033	0.0066	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
1,2,4-Trichlorobenzene	<0.036		0.17	0.036	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
2,4,5-Trichlorophenol	<0.076		0.33	0.076	mg/Kg		02/19/20 08:46	02/19/20 20:32	1
2,4,6-Trichlorophenol	<0.11		0.33	0.11	mg/Kg		02/19/20 08:46	02/19/20 20:32	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorobiphenyl	93		43 - 145	02/19/20 08:46	02/19/20 20:32	1
2-Fluorophenol	97		31 - 166	02/19/20 08:46	02/19/20 20:32	1
Nitrobenzene-d5	82		37 - 147	02/19/20 08:46	02/19/20 20:32	1
Phenol-d5	91		30 - 153	02/19/20 08:46	02/19/20 20:32	1
Terphenyl-d14	133		42 - 157	02/19/20 08:46	02/19/20 20:32	1
2,4,6-Tribromophenol	90		31 - 143	02/19/20 08:46	02/19/20 20:32	1

Lab Sample ID: LCS 500-530357/2-A

Matrix: Solid

Analysis Batch: 530474

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 530357

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1.33	0.982		mg/Kg		74	65 - 124
Acenaphthylene	1.33	1.04		mg/Kg		78	68 - 120
Anthracene	1.33	1.34		mg/Kg		101	70 - 114
Benzo[a]anthracene	1.33	1.25		mg/Kg		94	67 - 122
Benzo[a]pyrene	1.33	1.36		mg/Kg		102	65 - 133
Benzo[b]fluoranthene	1.33	1.39		mg/Kg		104	69 - 129
Benzo[g,h,i]perylene	1.33	1.47		mg/Kg		110	72 - 131
Benzo[k]fluoranthene	1.33	1.34		mg/Kg		101	68 - 127
Bis(2-chloroethoxy)methane	1.33	1.19		mg/Kg		89	60 - 112
Bis(2-chloroethyl)ether	1.33	1.23		mg/Kg		93	55 - 111
Bis(2-ethylhexyl) phthalate	1.33	1.33		mg/Kg		100	72 - 131
4-Bromophenyl phenyl ether	1.33	1.27		mg/Kg		96	68 - 118
Butyl benzyl phthalate	1.33	1.30		mg/Kg		98	71 - 129
Carbazole	1.33	1.43		mg/Kg		107	65 - 142
4-Chloroaniline	1.33	1.23		mg/Kg		92	30 - 150
4-Chloro-3-methylphenol	1.33	1.23		mg/Kg		92	65 - 122
2-Chloronaphthalene	1.33	1.19		mg/Kg		89	69 - 114
2-Chlorophenol	1.33	1.23		mg/Kg		92	64 - 110

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177905-1

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

Lab Sample ID: LCS 500-530357/2-A

Matrix: Solid

Analysis Batch: 530474

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 530357

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
4-Chlorophenyl phenyl ether	1.33	1.04		mg/Kg		78	62 - 119
Chrysene	1.33	1.29		mg/Kg		97	63 - 120
Dibenz(a,h)anthracene	1.33	1.42		mg/Kg		106	64 - 131
Dibenzofuran	1.33	1.08		mg/Kg		81	66 - 115
1,2-Dichlorobenzene	1.33	1.26		mg/Kg		94	62 - 110
1,3-Dichlorobenzene	1.33	1.22		mg/Kg		92	65 - 124
1,4-Dichlorobenzene	1.33	1.20		mg/Kg		90	61 - 110
3,3'-Dichlorobenzidine	1.33	1.09		mg/Kg		82	35 - 128
2,4-Dichlorophenol	1.33	1.27		mg/Kg		95	58 - 120
Diethyl phthalate	1.33	1.09		mg/Kg		82	58 - 120
2,4-Dimethylphenol	1.33	1.29		mg/Kg		96	60 - 110
Dimethyl phthalate	1.33	1.26		mg/Kg		95	69 - 116
Di-n-butyl phthalate	1.33	1.44		mg/Kg		108	65 - 120
4,6-Dinitro-2-methylphenol	2.67	0.822		mg/Kg		31	10 - 110
2,4-Dinitrophenol	2.67	<0.59	*	mg/Kg		9	10 - 100
2,4-Dinitrotoluene	1.33	1.14		mg/Kg		86	69 - 124
2,6-Dinitrotoluene	1.33	1.14		mg/Kg		85	70 - 123
Di-n-octyl phthalate	1.33	1.45		mg/Kg		109	68 - 134
Fluoranthene	1.33	1.40		mg/Kg		105	62 - 120
Fluorene	1.33	1.05		mg/Kg		79	62 - 120
Hexachlorobenzene	1.33	1.41		mg/Kg		106	63 - 124
Hexachlorobutadiene	1.33	1.42		mg/Kg		106	56 - 120
Hexachlorocyclopentadiene	1.33	0.513	J	mg/Kg		38	10 - 133
Hexachloroethane	1.33	1.19		mg/Kg		89	60 - 114
Indeno[1,2,3-cd]pyrene	1.33	1.42		mg/Kg		107	68 - 130
Isophorone	1.33	1.18		mg/Kg		89	55 - 110
2-Methylnaphthalene	1.33	1.21		mg/Kg		91	69 - 112
2-Methylphenol	1.33	1.01		mg/Kg		76	60 - 120
3 & 4 Methylphenol	1.33	1.15		mg/Kg		87	57 - 120
Naphthalene	1.33	1.30		mg/Kg		98	63 - 110
2-Nitroaniline	1.33	1.13		mg/Kg		85	57 - 124
3-Nitroaniline	1.33	1.03		mg/Kg		77	40 - 122
4-Nitroaniline	1.33	0.957		mg/Kg		72	60 - 160
Nitrobenzene	1.33	1.20		mg/Kg		90	60 - 116
2-Nitrophenol	1.33	1.23		mg/Kg		93	60 - 120
4-Nitrophenol	2.67	1.57		mg/Kg		59	30 - 122
N-Nitrosodi-n-propylamine	1.33	1.12		mg/Kg		84	56 - 118
N-Nitrosodiphenylamine	1.33	1.38		mg/Kg		103	65 - 112
2,2'-oxybis[1-chloropropane]	1.33	1.09		mg/Kg		82	40 - 124
Pentachlorophenol	2.67	1.30		mg/Kg		49	13 - 112
Phenanthrene	1.33	1.36		mg/Kg		102	62 - 120
Phenol	1.33	1.12		mg/Kg		84	56 - 122
Pyrene	1.33	1.28		mg/Kg		96	61 - 128
1,2,4-Trichlorobenzene	1.33	1.35		mg/Kg		101	66 - 117
2,4,5-Trichlorophenol	1.33	1.12		mg/Kg		84	50 - 120
2,4,6-Trichlorophenol	1.33	1.10		mg/Kg		83	57 - 120

QC Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177905-1

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

Lab Sample ID: LCS 500-530357/2-A
Matrix: Solid
Analysis Batch: 530474

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 530357

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	95		43 - 145
2-Fluorophenol	99		31 - 166
Nitrobenzene-d5	92		37 - 147
Phenol-d5	97		30 - 153
Terphenyl-d14	115		42 - 157
2,4,6-Tribromophenol	84		31 - 143

Method: 6010B - SPLP Metals

Lab Sample ID: LCS 500-530714/2-A
Matrix: Solid
Analysis Batch: 530900

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 530714

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Lead	0.100	0.0897		mg/L		90	80 - 120
Manganese	0.500	0.464		mg/L		93	80 - 120

Lab Sample ID: LB 500-530437/1-B
Matrix: Solid
Analysis Batch: 530900

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 530714

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	<0.0075		0.0075	0.0075	mg/L		02/20/20 14:43	02/21/20 10:04	1
Manganese	<0.010		0.025	0.010	mg/L		02/20/20 14:43	02/21/20 10:04	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-530108/1-A
Matrix: Solid
Analysis Batch: 530302

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 530108

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.34		1.0	0.34	mg/Kg		02/18/20 07:08	02/18/20 17:05	1
Barium	<0.11		1.0	0.11	mg/Kg		02/18/20 07:08	02/18/20 17:05	1
Beryllium	<0.093		0.40	0.093	mg/Kg		02/18/20 07:08	02/18/20 17:05	1
Cadmium	0.0513	J	0.20	0.036	mg/Kg		02/18/20 07:08	02/18/20 17:05	1
Chromium	<0.50		1.0	0.50	mg/Kg		02/18/20 07:08	02/18/20 17:05	1
Cobalt	<0.13		0.50	0.13	mg/Kg		02/18/20 07:08	02/18/20 17:05	1
Copper	<0.28		1.0	0.28	mg/Kg		02/18/20 07:08	02/18/20 17:05	1
Iron	<10	^	20	10	mg/Kg		02/18/20 07:08	02/18/20 17:05	1
Lead	<0.23		0.50	0.23	mg/Kg		02/18/20 07:08	02/18/20 17:05	1
Calcium	<3.4	^	20	3.4	mg/Kg		02/18/20 07:08	02/18/20 17:05	1
Manganese	<0.15		1.0	0.15	mg/Kg		02/18/20 07:08	02/18/20 17:05	1
Selenium	<0.59		1.0	0.59	mg/Kg		02/18/20 07:08	02/18/20 17:05	1
Silver	<0.13		0.50	0.13	mg/Kg		02/18/20 07:08	02/18/20 17:05	1
Thallium	<0.50		1.0	0.50	mg/Kg		02/18/20 07:08	02/18/20 17:05	1
Vanadium	<0.12		0.50	0.12	mg/Kg		02/18/20 07:08	02/18/20 17:05	1
Zinc	<0.88	^	2.0	0.88	mg/Kg		02/18/20 07:08	02/18/20 17:05	1
Potassium	<18		50	18	mg/Kg		02/18/20 07:08	02/18/20 17:05	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177905-1

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

Lab Sample ID: MB 500-530108/1-A
Matrix: Solid
Analysis Batch: 530532

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 530108

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.39		2.0	0.39	mg/Kg		02/18/20 07:08	02/19/20 14:17	1
Magnesium	<5.0		10	5.0	mg/Kg		02/18/20 07:08	02/19/20 14:17	1
Nickel	<0.29		1.0	0.29	mg/Kg		02/18/20 07:08	02/19/20 14:17	1
Sodium	<15		100	15	mg/Kg		02/18/20 07:08	02/19/20 14:17	1

Lab Sample ID: LCS 500-530108/2-A
Matrix: Solid
Analysis Batch: 530302

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 530108

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	10.0	9.25		mg/Kg		92	80 - 120
Barium	200	200		mg/Kg		100	80 - 120
Beryllium	5.00	4.30		mg/Kg		86	80 - 120
Cadmium	5.00	4.79		mg/Kg		96	80 - 120
Chromium	20.0	19.8		mg/Kg		99	80 - 120
Cobalt	50.0	50.3		mg/Kg		101	80 - 120
Copper	25.0	23.5		mg/Kg		94	80 - 120
Iron	100	97.5	^	mg/Kg		97	80 - 120
Lead	10.0	9.65		mg/Kg		96	80 - 120
Calcium	1000	984	^	mg/Kg		98	80 - 120
Manganese	50.0	45.6		mg/Kg		91	80 - 120
Selenium	10.0	8.54		mg/Kg		85	80 - 120
Silver	5.00	4.52		mg/Kg		90	80 - 120
Thallium	10.0	9.77		mg/Kg		98	80 - 120
Vanadium	50.0	51.4		mg/Kg		103	80 - 120
Zinc	50.0	49.3	^	mg/Kg		99	80 - 120
Potassium	1000	993		mg/Kg		99	80 - 120

Lab Sample ID: LCS 500-530108/2-A
Matrix: Solid
Analysis Batch: 530532

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 530108

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	50.0	51.3		mg/Kg		103	80 - 120
Magnesium	1000	917		mg/Kg		92	80 - 120
Nickel	50.0	50.1		mg/Kg		100	80 - 120
Sodium	1000	1000		mg/Kg		100	80 - 120

Lab Sample ID: LCS 500-530716/2-A
Matrix: Solid
Analysis Batch: 531048

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 530716

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.100	0.112		mg/L		112	80 - 120
Barium	0.500	0.502		mg/L		100	80 - 120
Beryllium	0.0500	0.0491		mg/L		98	80 - 120
Cadmium	0.0500	0.0525		mg/L		105	80 - 120
Chromium	0.200	0.181		mg/L		91	80 - 120
Cobalt	0.500	0.491		mg/L		98	80 - 120

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177905-1

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

Lab Sample ID: LCS 500-530716/2-A
Matrix: Solid
Analysis Batch: 531048

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 530716

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	0.250	0.269		mg/L		108	80 - 120
Iron	1.00	0.948		mg/L		95	80 - 120
Lead	0.100	0.0896		mg/L		90	80 - 120
Magnesium	10.0	8.78		mg/L		88	80 - 120
Calcium	10.0	9.06		mg/L		91	80 - 120
Manganese	0.500	0.467		mg/L		93	80 - 120
Nickel	0.500	0.487		mg/L		97	80 - 120
Selenium	0.100	0.103		mg/L		103	80 - 120
Silver	0.0500	0.0492		mg/L		98	80 - 120
Vanadium	0.500	0.477		mg/L		95	80 - 120
Zinc	0.500	0.510		mg/L		102	80 - 120
Potassium	10.0	10.8		mg/L		108	80 - 120

Lab Sample ID: LB 500-530439/1-B
Matrix: Solid
Analysis Batch: 531048

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 530716

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		02/20/20 14:45	02/21/20 10:51	1
Barium	<0.050		0.50	0.050	mg/L		02/20/20 14:45	02/21/20 10:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/20/20 14:45	02/21/20 10:51	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		02/20/20 14:45	02/21/20 10:51	1
Chromium	<0.010		0.025	0.010	mg/L		02/20/20 14:45	02/21/20 10:51	1
Cobalt	<0.010		0.025	0.010	mg/L		02/20/20 14:45	02/21/20 10:51	1
Copper	0.0241	J	0.025	0.010	mg/L		02/20/20 14:45	02/21/20 10:51	1
Iron	<0.20		0.40	0.20	mg/L		02/20/20 14:45	02/21/20 10:51	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/20/20 14:45	02/21/20 10:51	1
Magnesium	<0.50		2.5	0.50	mg/L		02/20/20 14:45	02/21/20 10:51	1
Calcium	<0.50		5.0	0.50	mg/L		02/20/20 14:45	02/21/20 10:51	1
Manganese	<0.010		0.025	0.010	mg/L		02/20/20 14:45	02/21/20 10:51	1
Nickel	<0.010		0.025	0.010	mg/L		02/20/20 14:45	02/21/20 10:51	1
Selenium	<0.020		0.050	0.020	mg/L		02/20/20 14:45	02/21/20 10:51	1
Silver	<0.010		0.025	0.010	mg/L		02/20/20 14:45	02/21/20 10:51	1
Vanadium	<0.010		0.025	0.010	mg/L		02/20/20 14:45	02/21/20 10:51	1
Zinc	<0.020		0.50	0.020	mg/L		02/20/20 14:45	02/21/20 10:51	1
Potassium	<0.50		2.5	0.50	mg/L		02/20/20 14:45	02/21/20 10:51	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-530716/2-A
Matrix: Solid
Analysis Batch: 531117

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 530716

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.501		mg/L		100	80 - 120
Thallium	0.100	0.0958		mg/L		96	80 - 120

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177905-1

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

Lab Sample ID: LB 500-530439/1-B
 Matrix: Solid
 Analysis Batch: 531117

Client Sample ID: Method Blank
 Prep Type: TCLP
 Prep Batch: 530716

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/20/20 14:45	02/21/20 22:47	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/20/20 14:45	02/21/20 22:47	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-530882/12-A
 Matrix: Solid
 Analysis Batch: 531118

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 530882

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/21/20 10:55	02/24/20 07:56	1

Lab Sample ID: LCS 500-530882/14-A
 Matrix: Solid
 Analysis Batch: 531118

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 530882

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00195		mg/L		97	80 - 120

Lab Sample ID: LB 500-530439/1-C
 Matrix: Solid
 Analysis Batch: 531118

Client Sample ID: Method Blank
 Prep Type: TCLP
 Prep Batch: 530882

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/21/20 10:55	02/24/20 08:15	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-530893/12-A
 Matrix: Solid
 Analysis Batch: 531150

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 530893

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		02/21/20 15:40	02/24/20 09:15	1

Lab Sample ID: LCS 500-530893/13-A
 Matrix: Solid
 Analysis Batch: 531150

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 530893

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.154		mg/Kg		92	80 - 120

Method: 9014 - Cyanide

Lab Sample ID: MB 500-531452/1-A
 Matrix: Solid
 Analysis Batch: 531560

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 531452

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.25		0.50	0.25	mg/Kg		02/26/20 09:30	02/26/20 13:03	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177905-1

Method: 9014 - Cyanide (Continued)

Lab Sample ID: LCS 500-531452/2-A
Matrix: Solid
Analysis Batch: 531560

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 531452
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	5.00	5.33		mg/Kg		107	85 - 115

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

Lab Chronicle

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177905-1

Client Sample ID: 3229V-11-B01 (0-2)

Lab Sample ID: 500-177905-1

Date Collected: 02/13/20 13:05

Matrix: Solid

Date Received: 02/14/20 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			530437	02/19/20 12:00	BEC	TAL CHI
SPLP East	Prep	3010A			530714	02/20/20 14:43	BDE	TAL CHI
SPLP East	Analysis	6010B		1	530900	02/21/20 10:18	EEN	TAL CHI
TCLP	Leach	1311			530439	02/19/20 12:00	BEC	TAL CHI
TCLP	Prep	3010A			530716	02/20/20 14:45	BDE	TAL CHI
TCLP	Analysis	6010B		1	531048	02/21/20 11:03	EEN	TAL CHI
TCLP	Leach	1311			530439	02/19/20 12:00	BEC	TAL CHI
TCLP	Prep	3010A			530716	02/20/20 14:45	BDE	TAL CHI
TCLP	Analysis	6020A		1	531117	02/21/20 22:53	FXG	TAL CHI
TCLP	Leach	1311			530439	02/19/20 12:00	BEC	TAL CHI
TCLP	Prep	7470A			530882	02/21/20 10:55	MJG	TAL CHI
TCLP	Analysis	7470A		1	531118	02/24/20 08:18	MJG	TAL CHI
Total/NA	Analysis	9045D		1	531081	02/22/20 19:23	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	530170	02/18/20 10:18	LWN	TAL CHI

Client Sample ID: 3229V-11-B01 (0-2)

Lab Sample ID: 500-177905-1

Date Collected: 02/13/20 13:05

Matrix: Solid

Date Received: 02/14/20 14:00

Percent Solids: 85.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			529874	02/14/20 17:08	WRE	TAL CHI
Total/NA	Analysis	8260B		1	530118	02/18/20 17:10	PMF	TAL CHI
Total/NA	Prep	3541			530357	02/19/20 08:46	BSO	TAL CHI
Total/NA	Analysis	8270D		1	530474	02/20/20 01:57	NRJ	TAL CHI
Total/NA	Prep	3050B			530108	02/18/20 07:08	LMN	TAL CHI
Total/NA	Analysis	6010B		1	530302	02/18/20 19:01	JEF	TAL CHI
Total/NA	Prep	3050B			530108	02/18/20 07:08	LMN	TAL CHI
Total/NA	Analysis	6010B		1	530532	02/19/20 14:31	EEN	TAL CHI
Total/NA	Prep	3050B			530108	02/18/20 07:08	LMN	TAL CHI
Total/NA	Analysis	6010B		10	530532	02/19/20 14:35	EEN	TAL CHI
Total/NA	Prep	7471B			530893	02/21/20 15:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	531150	02/24/20 09:22	MJG	TAL CHI
Total/NA	Prep	9010B			531452	02/26/20 09:30	MS	TAL CHI
Total/NA	Analysis	9014		1	531560	02/26/20 13:05	MS	TAL CHI

Laboratory References:

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

Accreditation/Certification Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177905-1

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20

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Chain of Custody Record

417631 eurofins

Environment Test
TestAmerica

Address: _____

Regulatory Program: DW NPDES RCRA Other:

TAL-8

Client Contact		Project Manager: <u>Mike Fischer</u>		Site Contact:		Date: <u>2-13-20</u>		COC No:	
Company Name: <u>EDI</u>		Tel/Email:		Lab Contact: <u>R. Wright</u>		Carrier:		1 of 1 COCs	
Address: <u>33 W. Monroe, St. 1825</u>		Analysis Turnaround Time <input checked="" type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____		Filtered Sample (Y/N) Perform MS / MSD (Y/N)		500-177905 COC		Sampler: <u>M-Fischer</u>	
City/State/Zip: <u>CHICAGO, IL 60603</u>									
Phone: <u>312-345-1400</u>		<input checked="" type="checkbox"/> 2 weeks		VOC		Total 23 Nov.		For Lab Use Only:	
Fax:		<input type="checkbox"/> 1 week		SVOC		Total 23 Nov.		Walk-in Client: _____	
Project Name: <u>PTIS 174-009-W068A</u>		<input type="checkbox"/> 2 days		Total Cyanide		Total 23 Nov.		Lab Sampling: _____	
Site: <u>3229V-11</u>		<input type="checkbox"/> 1 day		PH		Total 23 Nov.		Job / SDG No.:	
PO# <u>2031.001.068A</u>								<u>500-177905</u>	
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes:		
1 3229V-11-B01 (0-2)		2/13/20	1305	G	S	5	XXXXXX		
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other		Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown		<input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months							
Special Instructions/QC Requirements & Comments:									
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temp. (°C): Obs'd: <u>4.0</u> Corr'd:		Therm ID No.:			
Relinquished by: <u>[Signature]</u>		Company: <u>EDI</u>		Date/Time: <u>2/13/20 15:10</u>		Received by: <u>[Signature]</u>		Company: <u>TA</u>	
Relinquished by: <u>[Signature]</u>		Company: <u>TA</u>		Date/Time: <u>2/13/20</u>		Received by: <u>[Signature]</u>		Company: <u>TA</u>	
Relinquished by: <u>[Signature]</u>		Company: <u>TA</u>		Date/Time: <u>2/14/20 1400</u>		Received by: <u>[Signature]</u>		Company: <u>TA-CP</u>	



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Login Sample Receipt Checklist

Client: Environmental Design International, Inc.

Job Number: 500-177905-1

Login Number: 177905

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

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

Laboratory Job ID: 500-181053-1

Client Project/Site: IDOT - DesPlaines & Niles - WO 068A

For:

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

Attn: Mr. Matthew Weiss



Authorized for release by:
5/4/2020 3:24:11 PM

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

LINKS

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results through
TotalAccess

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www.eurofinsus.com/Env

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 - DesPlaines & Niles - WO 068A

Job ID: 500-181053-1

Job ID: 500-181053-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-181053-1

Receipt

The samples were received on 4/22/2020 5:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.3° C.

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

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

General Chemistry

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

Organic Prep

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

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Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - DesPlaines & Niles - WO 068A

Job ID: 500-181053-1

Client Sample ID: 3229V-11-B01A (2-6)

Lab Sample ID: 500-181053-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.023		0.018	0.0078	mg/Kg	1	☼	8260B	Total/NA
Benzo[a]anthracene	0.0090	J	0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.013	J	0.040	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.017	J	0.040	0.0086	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.015	J	0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.018	J	0.040	0.0074	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0096	J	0.040	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.019	J	0.040	0.0079	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.74	J	1.2	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.4		0.58	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	45		0.58	0.066	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.76		0.23	0.054	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.21	B	0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Chromium	18		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	10		0.29	0.076	mg/Kg	1	☼	6010B	Total/NA
Copper	21		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	20000	B	12	6.0	mg/Kg	1	☼	6010B	Total/NA
Lead	27		0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	14000		5.8	2.9	mg/Kg	1	☼	6010B	Total/NA
Calcium	21000		12	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	350		0.58	0.084	mg/Kg	1	☼	6010B	Total/NA
Nickel	27		0.58	0.17	mg/Kg	1	☼	6010B	Total/NA
Silver	0.26	J	0.29	0.075	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.32	J	0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	25		0.29	0.068	mg/Kg	1	☼	6010B	Total/NA
Zinc	71		1.2	0.51	mg/Kg	1	☼	6010B	Total/NA
Potassium	2100		29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	2500	B	58	8.6	mg/Kg	1	☼	6010B	Total/NA
Barium	0.28	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	420		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	110		2.5	0.50	mg/L	1		6010B	TCLP
Potassium	2.6		2.5	0.50	mg/L	1		6010B	TCLP
Mercury	0.034		0.020	0.0066	mg/Kg	1	☼	7471B	Total/NA
pH	8.8		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3229V-11-B01A (6-11)

Lab Sample ID: 500-181053-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0078	J	0.017	0.0075	mg/Kg	1	☼	8260B	Total/NA
Benzo[a]anthracene	0.0060	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.0096	J	0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.0096	J	0.038	0.0082	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.014	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.012	J	0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.031	J	0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.016	J	0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.49	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.1		0.57	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	24		0.57	0.065	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.51		0.23	0.053	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.12	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - DesPlaines & Niles - WO 068A

Job ID: 500-181053-1

Client Sample ID: 3229V-11-B01A (6-11) (Continued)

Lab Sample ID: 500-181053-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	12		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.5		0.28	0.074	mg/Kg	1	☼	6010B	Total/NA
Copper	16		0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	12000	B	11	5.9	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	23000		5.7	2.8	mg/Kg	1	☼	6010B	Total/NA
Calcium	52000		110	19	mg/Kg	10	☼	6010B	Total/NA
Manganese	280		0.57	0.082	mg/Kg	1	☼	6010B	Total/NA
Nickel	20		0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Silver	0.20	J	0.28	0.073	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.32	J	0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	17		0.28	0.067	mg/Kg	1	☼	6010B	Total/NA
Zinc	37		1.1	0.50	mg/Kg	1	☼	6010B	Total/NA
Potassium	2000		28	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	760	B	57	8.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.40	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0020	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	460		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.035		0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.22	J	0.40	0.20	mg/L	1		6010B	TCLP
Lead	0.010		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	71		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	2.2		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.048		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.8		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.047	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.024		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.21		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.0094	J	0.018	0.0061	mg/Kg	1	☼	7471B	Total/NA
pH	8.1		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - DesPlaines & Niles - WO 068A

Job ID: 500-181053-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-181053-1	3229V-11-B01A (2-6)	Solid	04/22/20 14:20	04/22/20 17:00	
500-181053-2	3229V-11-B01A (6-11)	Solid	04/22/20 14:30	04/22/20 17:00	

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - DesPlaines & Niles - WO 068A

Job ID: 500-181053-1

Client Sample ID: 3229V-11-B01A (2-6)

Lab Sample ID: 500-181053-1

Date Collected: 04/22/20 14:20

Matrix: Solid

Date Received: 04/22/20 17:00

Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.023		0.018	0.0078	mg/Kg	☼	04/23/20 17:25	04/30/20 16:29	1
Benzene	<0.00046		0.0018	0.00046	mg/Kg	☼	04/23/20 17:25	04/30/20 16:29	1
Bromodichloromethane	<0.00037		0.0018	0.00037	mg/Kg	☼	04/23/20 17:25	04/30/20 16:29	1
Bromoform	<0.00053		0.0018	0.00053	mg/Kg	☼	04/23/20 17:25	04/30/20 16:29	1
Bromomethane	<0.0017		0.0045	0.0017	mg/Kg	☼	04/23/20 17:25	04/30/20 16:29	1
2-Butanone (MEK)	<0.0020		0.0045	0.0020	mg/Kg	☼	04/23/20 17:25	04/30/20 16:29	1
Carbon disulfide	<0.00094		0.0045	0.00094	mg/Kg	☼	04/23/20 17:25	04/30/20 16:29	1
Carbon tetrachloride	<0.00052		0.0018	0.00052	mg/Kg	☼	04/23/20 17:25	04/30/20 16:29	1
Chlorobenzene	<0.00066		0.0018	0.00066	mg/Kg	☼	04/23/20 17:25	04/30/20 16:29	1
Chloroethane	<0.0013		0.0045	0.0013	mg/Kg	☼	04/23/20 17:25	04/30/20 16:29	1
Chloroform	<0.00063		0.0018	0.00063	mg/Kg	☼	04/23/20 17:25	04/30/20 16:29	1
Chloromethane	<0.0018		0.0045	0.0018	mg/Kg	☼	04/23/20 17:25	04/30/20 16:29	1
cis-1,2-Dichloroethene	<0.00050		0.0018	0.00050	mg/Kg	☼	04/23/20 17:25	04/30/20 16:29	1
cis-1,3-Dichloropropene	<0.00054		0.0018	0.00054	mg/Kg	☼	04/23/20 17:25	04/30/20 16:29	1
Dibromochloromethane	<0.00059		0.0018	0.00059	mg/Kg	☼	04/23/20 17:25	04/30/20 16:29	1
1,1-Dichloroethane	<0.00062		0.0018	0.00062	mg/Kg	☼	04/23/20 17:25	04/30/20 16:29	1
1,2-Dichloroethane	<0.0014		0.0045	0.0014	mg/Kg	☼	04/23/20 17:25	04/30/20 16:29	1
1,1-Dichloroethene	<0.00062		0.0018	0.00062	mg/Kg	☼	04/23/20 17:25	04/30/20 16:29	1
1,2-Dichloropropane	<0.00047		0.0018	0.00047	mg/Kg	☼	04/23/20 17:25	04/30/20 16:29	1
1,3-Dichloropropane, Total	<0.00063		0.0018	0.00063	mg/Kg	☼	04/23/20 17:25	04/30/20 16:29	1
Ethylbenzene	<0.00086		0.0018	0.00086	mg/Kg	☼	04/23/20 17:25	04/30/20 16:29	1
2-Hexanone	<0.0014		0.0045	0.0014	mg/Kg	☼	04/23/20 17:25	04/30/20 16:29	1
Methylene Chloride	<0.0018		0.0045	0.0018	mg/Kg	☼	04/23/20 17:25	04/30/20 16:29	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0045	0.0013	mg/Kg	☼	04/23/20 17:25	04/30/20 16:29	1
Methyl tert-butyl ether	<0.00053		0.0018	0.00053	mg/Kg	☼	04/23/20 17:25	04/30/20 16:29	1
Styrene	<0.00054		0.0018	0.00054	mg/Kg	☼	04/23/20 17:25	04/30/20 16:29	1
1,1,2,2-Tetrachloroethane	<0.00058		0.0018	0.00058	mg/Kg	☼	04/23/20 17:25	04/30/20 16:29	1
Tetrachloroethene	<0.00061		0.0018	0.00061	mg/Kg	☼	04/23/20 17:25	04/30/20 16:29	1
Toluene	<0.00045		0.0018	0.00045	mg/Kg	☼	04/23/20 17:25	04/30/20 16:29	1
trans-1,2-Dichloroethene	<0.00080		0.0018	0.00080	mg/Kg	☼	04/23/20 17:25	04/30/20 16:29	1
trans-1,3-Dichloropropene	<0.00063		0.0018	0.00063	mg/Kg	☼	04/23/20 17:25	04/30/20 16:29	1
1,1,1-Trichloroethane	<0.00060		0.0018	0.00060	mg/Kg	☼	04/23/20 17:25	04/30/20 16:29	1
1,1,2-Trichloroethane	<0.00077		0.0018	0.00077	mg/Kg	☼	04/23/20 17:25	04/30/20 16:29	1
Trichloroethene	<0.00061		0.0018	0.00061	mg/Kg	☼	04/23/20 17:25	04/30/20 16:29	1
Vinyl acetate	<0.0016		0.0045	0.0016	mg/Kg	☼	04/23/20 17:25	04/30/20 16:29	1
Vinyl chloride	<0.00080		0.0018	0.00080	mg/Kg	☼	04/23/20 17:25	04/30/20 16:29	1
Xylenes, Total	<0.00058		0.0036	0.00058	mg/Kg	☼	04/23/20 17:25	04/30/20 16:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		75 - 131	04/23/20 17:25	04/30/20 16:29	1
Dibromofluoromethane	94		75 - 126	04/23/20 17:25	04/30/20 16:29	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134	04/23/20 17:25	04/30/20 16:29	1
Toluene-d8 (Surr)	99		75 - 124	04/23/20 17:25	04/30/20 16:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0072		0.040	0.0072	mg/Kg	☼	04/29/20 18:22	04/30/20 18:33	1
Acenaphthylene	<0.0052		0.040	0.0052	mg/Kg	☼	04/29/20 18:22	04/30/20 18:33	1
Anthracene	<0.0066		0.040	0.0066	mg/Kg	☼	04/29/20 18:22	04/30/20 18:33	1
Benzo[a]anthracene	0.0090	J	0.040	0.0054	mg/Kg	☼	04/29/20 18:22	04/30/20 18:33	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - DesPlaines & Niles - WO 068A

Job ID: 500-181053-1

Client Sample ID: 3229V-11-B01A (2-6)

Lab Sample ID: 500-181053-1

Date Collected: 04/22/20 14:20

Matrix: Solid

Date Received: 04/22/20 17:00

Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.013	J	0.040	0.0077	mg/Kg	☼	04/29/20 18:22	04/30/20 18:33	1
Benzo[b]fluoranthene	0.017	J	0.040	0.0086	mg/Kg	☼	04/29/20 18:22	04/30/20 18:33	1
Benzo[g,h,i]perylene	<0.013		0.040	0.013	mg/Kg	☼	04/29/20 18:22	04/30/20 18:33	1
Benzo[k]fluoranthene	<0.012		0.040	0.012	mg/Kg	☼	04/29/20 18:22	04/30/20 18:33	1
Bis(2-chloroethoxy)methane	<0.041		0.20	0.041	mg/Kg	☼	04/29/20 18:22	04/30/20 18:33	1
Bis(2-chloroethyl)ether	<0.060		0.20	0.060	mg/Kg	☼	04/29/20 18:22	04/30/20 18:33	1
Bis(2-ethylhexyl) phthalate	<0.073		0.20	0.073	mg/Kg	☼	04/29/20 18:22	04/30/20 18:33	1
4-Bromophenyl phenyl ether	<0.052		0.20	0.052	mg/Kg	☼	04/29/20 18:22	04/30/20 18:33	1
Butyl benzyl phthalate	<0.076		0.20	0.076	mg/Kg	☼	04/29/20 18:22	04/30/20 18:33	1
Carbazole	<0.099		0.20	0.099	mg/Kg	☼	04/29/20 18:22	04/30/20 18:33	1
4-Chloroaniline	<0.19		0.80	0.19	mg/Kg	☼	04/29/20 18:22	04/30/20 18:33	1
4-Chloro-3-methylphenol	<0.14		0.40	0.14	mg/Kg	☼	04/29/20 18:22	04/30/20 18:33	1
2-Chloronaphthalene	<0.044		0.20	0.044	mg/Kg	☼	04/29/20 18:22	04/30/20 18:33	1
2-Chlorophenol	<0.068		0.20	0.068	mg/Kg	☼	04/29/20 18:22	04/30/20 18:33	1
4-Chlorophenyl phenyl ether	<0.046		0.20	0.046	mg/Kg	☼	04/29/20 18:22	04/30/20 18:33	1
Chrysene	0.015	J	0.040	0.011	mg/Kg	☼	04/29/20 18:22	04/30/20 18:33	1
Dibenz(a,h)anthracene	<0.0077		0.040	0.0077	mg/Kg	☼	04/29/20 18:22	04/30/20 18:33	1
Dibenzofuran	<0.047		0.20	0.047	mg/Kg	☼	04/29/20 18:22	04/30/20 18:33	1
1,2-Dichlorobenzene	<0.048		0.20	0.048	mg/Kg	☼	04/29/20 18:22	04/30/20 18:33	1
1,3-Dichlorobenzene	<0.045		0.20	0.045	mg/Kg	☼	04/29/20 18:22	04/30/20 18:33	1
1,4-Dichlorobenzene	<0.051		0.20	0.051	mg/Kg	☼	04/29/20 18:22	04/30/20 18:33	1
3,3'-Dichlorobenzidine	<0.056		0.20	0.056	mg/Kg	☼	04/29/20 18:22	04/30/20 18:33	1
2,4-Dichlorophenol	<0.094		0.40	0.094	mg/Kg	☼	04/29/20 18:22	04/30/20 18:33	1
Diethyl phthalate	<0.067		0.20	0.067	mg/Kg	☼	04/29/20 18:22	04/30/20 18:33	1
2,4-Dimethylphenol	<0.15		0.40	0.15	mg/Kg	☼	04/29/20 18:22	04/30/20 18:33	1
Dimethyl phthalate	<0.052		0.20	0.052	mg/Kg	☼	04/29/20 18:22	04/30/20 18:33	1
Di-n-butyl phthalate	<0.061		0.20	0.061	mg/Kg	☼	04/29/20 18:22	04/30/20 18:33	1
4,6-Dinitro-2-methylphenol	<0.32		0.80	0.32	mg/Kg	☼	04/29/20 18:22	04/30/20 18:33	1
2,4-Dinitrophenol	<0.70		0.80	0.70	mg/Kg	☼	04/29/20 18:22	04/30/20 18:33	1
2,4-Dinitrotoluene	<0.063		0.20	0.063	mg/Kg	☼	04/29/20 18:22	04/30/20 18:33	1
2,6-Dinitrotoluene	<0.078		0.20	0.078	mg/Kg	☼	04/29/20 18:22	04/30/20 18:33	1
Di-n-octyl phthalate	<0.065		0.20	0.065	mg/Kg	☼	04/29/20 18:22	04/30/20 18:33	1
Fluoranthene	0.018	J	0.040	0.0074	mg/Kg	☼	04/29/20 18:22	04/30/20 18:33	1
Fluorene	<0.0056		0.040	0.0056	mg/Kg	☼	04/29/20 18:22	04/30/20 18:33	1
Hexachlorobenzene	<0.0092		0.080	0.0092	mg/Kg	☼	04/29/20 18:22	04/30/20 18:33	1
Hexachlorobutadiene	<0.063		0.20	0.063	mg/Kg	☼	04/29/20 18:22	04/30/20 18:33	1
Hexachlorocyclopentadiene	<0.23		0.80	0.23	mg/Kg	☼	04/29/20 18:22	04/30/20 18:33	1
Hexachloroethane	<0.060		0.20	0.060	mg/Kg	☼	04/29/20 18:22	04/30/20 18:33	1
Indeno[1,2,3-cd]pyrene	<0.010		0.040	0.010	mg/Kg	☼	04/29/20 18:22	04/30/20 18:33	1
Isophorone	<0.045		0.20	0.045	mg/Kg	☼	04/29/20 18:22	04/30/20 18:33	1
2-Methylnaphthalene	<0.0073		0.080	0.0073	mg/Kg	☼	04/29/20 18:22	04/30/20 18:33	1
2-Methylphenol	<0.064		0.20	0.064	mg/Kg	☼	04/29/20 18:22	04/30/20 18:33	1
3 & 4 Methylphenol	<0.066		0.20	0.066	mg/Kg	☼	04/29/20 18:22	04/30/20 18:33	1
Naphthalene	<0.0061		0.040	0.0061	mg/Kg	☼	04/29/20 18:22	04/30/20 18:33	1
2-Nitroaniline	<0.054		0.20	0.054	mg/Kg	☼	04/29/20 18:22	04/30/20 18:33	1
3-Nitroaniline	<0.12		0.40	0.12	mg/Kg	☼	04/29/20 18:22	04/30/20 18:33	1
4-Nitroaniline	<0.17		0.40	0.17	mg/Kg	☼	04/29/20 18:22	04/30/20 18:33	1
Nitrobenzene	<0.0099		0.040	0.0099	mg/Kg	☼	04/29/20 18:22	04/30/20 18:33	1
2-Nitrophenol	<0.094		0.40	0.094	mg/Kg	☼	04/29/20 18:22	04/30/20 18:33	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - DesPlaines & Niles - WO 068A

Job ID: 500-181053-1

Client Sample ID: 3229V-11-B01A (2-6)

Lab Sample ID: 500-181053-1

Date Collected: 04/22/20 14:20

Matrix: Solid

Date Received: 04/22/20 17:00

Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.38		0.80	0.38	mg/Kg	☼	04/29/20 18:22	04/30/20 18:33	1
N-Nitrosodi-n-propylamine	<0.049		0.080	0.049	mg/Kg	☼	04/29/20 18:22	04/30/20 18:33	1
N-Nitrosodiphenylamine	<0.047		0.20	0.047	mg/Kg	☼	04/29/20 18:22	04/30/20 18:33	1
2,2'-oxybis[1-chloropropane]	<0.046		0.20	0.046	mg/Kg	☼	04/29/20 18:22	04/30/20 18:33	1
Pentachlorophenol	<0.64		0.80	0.64	mg/Kg	☼	04/29/20 18:22	04/30/20 18:33	1
Phenanthrene	0.0096	J	0.040	0.0055	mg/Kg	☼	04/29/20 18:22	04/30/20 18:33	1
Phenol	<0.088		0.20	0.088	mg/Kg	☼	04/29/20 18:22	04/30/20 18:33	1
Pyrene	0.019	J	0.040	0.0079	mg/Kg	☼	04/29/20 18:22	04/30/20 18:33	1
1,2,4-Trichlorobenzene	<0.043		0.20	0.043	mg/Kg	☼	04/29/20 18:22	04/30/20 18:33	1
2,4,5-Trichlorophenol	<0.091		0.40	0.091	mg/Kg	☼	04/29/20 18:22	04/30/20 18:33	1
2,4,6-Trichlorophenol	<0.14		0.40	0.14	mg/Kg	☼	04/29/20 18:22	04/30/20 18:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	80		43 - 145	04/29/20 18:22	04/30/20 18:33	1
2-Fluorophenol	73		31 - 166	04/29/20 18:22	04/30/20 18:33	1
Nitrobenzene-d5	58		37 - 147	04/29/20 18:22	04/30/20 18:33	1
Phenol-d5	79		30 - 153	04/29/20 18:22	04/30/20 18:33	1
Terphenyl-d14	101		42 - 157	04/29/20 18:22	04/30/20 18:33	1
2,4,6-Tribromophenol	82		31 - 143	04/29/20 18:22	04/30/20 18:33	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.74	J	1.2	0.23	mg/Kg	☼	04/24/20 18:22	04/27/20 10:40	1
Arsenic	8.4		0.58	0.20	mg/Kg	☼	04/24/20 18:22	04/27/20 10:40	1
Barium	45		0.58	0.066	mg/Kg	☼	04/24/20 18:22	04/27/20 10:40	1
Beryllium	0.76		0.23	0.054	mg/Kg	☼	04/24/20 18:22	04/27/20 10:40	1
Cadmium	0.21	B	0.12	0.021	mg/Kg	☼	04/24/20 18:22	04/27/20 10:40	1
Chromium	18		0.58	0.29	mg/Kg	☼	04/24/20 18:22	04/27/20 10:40	1
Cobalt	10		0.29	0.076	mg/Kg	☼	04/24/20 18:22	04/27/20 10:40	1
Copper	21		0.58	0.16	mg/Kg	☼	04/24/20 18:22	04/27/20 10:40	1
Iron	20000	B	12	6.0	mg/Kg	☼	04/24/20 18:22	04/27/20 10:40	1
Lead	27		0.29	0.13	mg/Kg	☼	04/24/20 18:22	04/27/20 10:40	1
Magnesium	14000		5.8	2.9	mg/Kg	☼	04/24/20 18:22	04/27/20 17:38	1
Calcium	21000		12	2.0	mg/Kg	☼	04/24/20 18:22	04/27/20 10:40	1
Manganese	350		0.58	0.084	mg/Kg	☼	04/24/20 18:22	04/27/20 17:38	1
Nickel	27		0.58	0.17	mg/Kg	☼	04/24/20 18:22	04/27/20 10:40	1
Selenium	<0.34		0.58	0.34	mg/Kg	☼	04/24/20 18:22	04/27/20 10:40	1
Silver	0.26	J	0.29	0.075	mg/Kg	☼	04/24/20 18:22	04/27/20 10:40	1
Thallium	0.32	J	0.58	0.29	mg/Kg	☼	04/24/20 18:22	04/27/20 10:40	1
Vanadium	25		0.29	0.068	mg/Kg	☼	04/24/20 18:22	04/27/20 10:40	1
Zinc	71		1.2	0.51	mg/Kg	☼	04/24/20 18:22	04/27/20 10:40	1
Potassium	2100		29	10	mg/Kg	☼	04/24/20 18:22	04/27/20 10:40	1
Sodium	2500	B	58	8.6	mg/Kg	☼	04/24/20 18:22	04/27/20 10:40	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		04/30/20 06:00	04/30/20 17:36	1
Barium	0.28	J	0.50	0.050	mg/L		04/30/20 06:00	04/30/20 17:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/30/20 06:00	04/30/20 17:36	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		04/30/20 06:00	04/30/20 17:36	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - DesPlaines & Niles - WO 068A

Job ID: 500-181053-1

Client Sample ID: 3229V-11-B01A (2-6)

Lab Sample ID: 500-181053-1

Date Collected: 04/22/20 14:20

Matrix: Solid

Date Received: 04/22/20 17:00

Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	420		5.0	0.50	mg/L		04/30/20 06:00	04/30/20 17:36	1
Chromium	<0.010		0.025	0.010	mg/L		04/30/20 06:00	04/30/20 17:36	1
Cobalt	<0.010		0.025	0.010	mg/L		04/30/20 06:00	04/30/20 17:36	1
Copper	<0.010		0.025	0.010	mg/L		04/30/20 06:00	04/30/20 17:36	1
Iron	<0.20		0.40	0.20	mg/L		04/30/20 06:00	04/30/20 17:36	1
Lead	<0.0075		0.0075	0.0075	mg/L		04/30/20 06:00	04/30/20 17:36	1
Magnesium	110		2.5	0.50	mg/L		04/30/20 06:00	04/30/20 17:36	1
Manganese	<0.010		0.025	0.010	mg/L		04/30/20 06:00	04/30/20 17:36	1
Nickel	<0.010		0.025	0.010	mg/L		04/30/20 06:00	04/30/20 17:36	1
Potassium	2.6		2.5	0.50	mg/L		04/30/20 06:00	04/30/20 17:36	1
Selenium	<0.020		0.050	0.020	mg/L		04/30/20 06:00	04/30/20 17:36	1
Silver	<0.010		0.025	0.010	mg/L		04/30/20 06:00	04/30/20 17:36	1
Vanadium	<0.010		0.025	0.010	mg/L		04/30/20 06:00	04/30/20 17:36	1
Zinc	<0.020		0.50	0.020	mg/L		04/30/20 06:00	04/30/20 17:36	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		04/30/20 06:00	05/01/20 16:58	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/30/20 06:00	05/01/20 16:58	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		04/30/20 10:10	05/01/20 10:31	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034		0.020	0.0066	mg/Kg	⊛	04/27/20 13:10	04/28/20 08:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.29		0.59	0.29	mg/Kg	⊛	05/01/20 08:50	05/01/20 14:14	1
pH	8.8		0.2	0.2	SU			04/24/20 16:05	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - DesPlaines & Niles - WO 068A

Job ID: 500-181053-1

Client Sample ID: 3229V-11-B01A (6-11)

Lab Sample ID: 500-181053-2

Date Collected: 04/22/20 14:30

Matrix: Solid

Date Received: 04/22/20 17:00

Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0078	J	0.017	0.0075	mg/Kg	☼	04/23/20 17:25	04/30/20 16:54	1
Benzene	<0.00044		0.0017	0.00044	mg/Kg	☼	04/23/20 17:25	04/30/20 16:54	1
Bromodichloromethane	<0.00035		0.0017	0.00035	mg/Kg	☼	04/23/20 17:25	04/30/20 16:54	1
Bromoform	<0.00050		0.0017	0.00050	mg/Kg	☼	04/23/20 17:25	04/30/20 16:54	1
Bromomethane	<0.0016		0.0043	0.0016	mg/Kg	☼	04/23/20 17:25	04/30/20 16:54	1
2-Butanone (MEK)	<0.0019		0.0043	0.0019	mg/Kg	☼	04/23/20 17:25	04/30/20 16:54	1
Carbon disulfide	<0.00090		0.0043	0.00090	mg/Kg	☼	04/23/20 17:25	04/30/20 16:54	1
Carbon tetrachloride	<0.00050		0.0017	0.00050	mg/Kg	☼	04/23/20 17:25	04/30/20 16:54	1
Chlorobenzene	<0.00064		0.0017	0.00064	mg/Kg	☼	04/23/20 17:25	04/30/20 16:54	1
Chloroethane	<0.0013		0.0043	0.0013	mg/Kg	☼	04/23/20 17:25	04/30/20 16:54	1
Chloroform	<0.00060		0.0017	0.00060	mg/Kg	☼	04/23/20 17:25	04/30/20 16:54	1
Chloromethane	<0.0017		0.0043	0.0017	mg/Kg	☼	04/23/20 17:25	04/30/20 16:54	1
cis-1,2-Dichloroethene	<0.00048		0.0017	0.00048	mg/Kg	☼	04/23/20 17:25	04/30/20 16:54	1
cis-1,3-Dichloropropene	<0.00052		0.0017	0.00052	mg/Kg	☼	04/23/20 17:25	04/30/20 16:54	1
Dibromochloromethane	<0.00056		0.0017	0.00056	mg/Kg	☼	04/23/20 17:25	04/30/20 16:54	1
1,1-Dichloroethane	<0.00059		0.0017	0.00059	mg/Kg	☼	04/23/20 17:25	04/30/20 16:54	1
1,2-Dichloroethane	<0.0013		0.0043	0.0013	mg/Kg	☼	04/23/20 17:25	04/30/20 16:54	1
1,1-Dichloroethene	<0.00059		0.0017	0.00059	mg/Kg	☼	04/23/20 17:25	04/30/20 16:54	1
1,2-Dichloropropane	<0.00045		0.0017	0.00045	mg/Kg	☼	04/23/20 17:25	04/30/20 16:54	1
1,3-Dichloropropane, Total	<0.00061		0.0017	0.00061	mg/Kg	☼	04/23/20 17:25	04/30/20 16:54	1
Ethylbenzene	<0.00082		0.0017	0.00082	mg/Kg	☼	04/23/20 17:25	04/30/20 16:54	1
2-Hexanone	<0.0013		0.0043	0.0013	mg/Kg	☼	04/23/20 17:25	04/30/20 16:54	1
Methylene Chloride	<0.0017		0.0043	0.0017	mg/Kg	☼	04/23/20 17:25	04/30/20 16:54	1
4-Methyl-2-pentanone (MIBK)	<0.0013		0.0043	0.0013	mg/Kg	☼	04/23/20 17:25	04/30/20 16:54	1
Methyl tert-butyl ether	<0.00051		0.0017	0.00051	mg/Kg	☼	04/23/20 17:25	04/30/20 16:54	1
Styrene	<0.00052		0.0017	0.00052	mg/Kg	☼	04/23/20 17:25	04/30/20 16:54	1
1,1,2,2-Tetrachloroethane	<0.00055		0.0017	0.00055	mg/Kg	☼	04/23/20 17:25	04/30/20 16:54	1
Tetrachloroethene	<0.00059		0.0017	0.00059	mg/Kg	☼	04/23/20 17:25	04/30/20 16:54	1
Toluene	<0.00044		0.0017	0.00044	mg/Kg	☼	04/23/20 17:25	04/30/20 16:54	1
trans-1,2-Dichloroethene	<0.00076		0.0017	0.00076	mg/Kg	☼	04/23/20 17:25	04/30/20 16:54	1
trans-1,3-Dichloropropene	<0.00061		0.0017	0.00061	mg/Kg	☼	04/23/20 17:25	04/30/20 16:54	1
1,1,1-Trichloroethane	<0.00058		0.0017	0.00058	mg/Kg	☼	04/23/20 17:25	04/30/20 16:54	1
1,1,2-Trichloroethane	<0.00074		0.0017	0.00074	mg/Kg	☼	04/23/20 17:25	04/30/20 16:54	1
Trichloroethene	<0.00058		0.0017	0.00058	mg/Kg	☼	04/23/20 17:25	04/30/20 16:54	1
Vinyl acetate	<0.0015		0.0043	0.0015	mg/Kg	☼	04/23/20 17:25	04/30/20 16:54	1
Vinyl chloride	<0.00076		0.0017	0.00076	mg/Kg	☼	04/23/20 17:25	04/30/20 16:54	1
Xylenes, Total	<0.00055		0.0034	0.00055	mg/Kg	☼	04/23/20 17:25	04/30/20 16:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		75 - 131	04/23/20 17:25	04/30/20 16:54	1
Dibromofluoromethane	93		75 - 126	04/23/20 17:25	04/30/20 16:54	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	04/23/20 17:25	04/30/20 16:54	1
Toluene-d8 (Surr)	102		75 - 124	04/23/20 17:25	04/30/20 16:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0069		0.038	0.0069	mg/Kg	☼	04/29/20 18:22	04/30/20 14:16	1
Acenaphthylene	<0.0050		0.038	0.0050	mg/Kg	☼	04/29/20 18:22	04/30/20 14:16	1
Anthracene	<0.0064		0.038	0.0064	mg/Kg	☼	04/29/20 18:22	04/30/20 14:16	1
Benzo[a]anthracene	0.0060	J	0.038	0.0051	mg/Kg	☼	04/29/20 18:22	04/30/20 14:16	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - DesPlaines & Niles - WO 068A

Job ID: 500-181053-1

Client Sample ID: 3229V-11-B01A (6-11)

Lab Sample ID: 500-181053-2

Date Collected: 04/22/20 14:30

Matrix: Solid

Date Received: 04/22/20 17:00

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	0.0096	J	0.038	0.0074	mg/Kg	☼	04/29/20 18:22	04/30/20 14:16	1
Benzo[b]fluoranthene	0.0096	J	0.038	0.0082	mg/Kg	☼	04/29/20 18:22	04/30/20 14:16	1
Benzo[g,h,i]perylene	<0.012		0.038	0.012	mg/Kg	☼	04/29/20 18:22	04/30/20 14:16	1
Benzo[k]fluoranthene	<0.011		0.038	0.011	mg/Kg	☼	04/29/20 18:22	04/30/20 14:16	1
Bis(2-chloroethoxy)methane	<0.039		0.19	0.039	mg/Kg	☼	04/29/20 18:22	04/30/20 14:16	1
Bis(2-chloroethyl)ether	<0.057		0.19	0.057	mg/Kg	☼	04/29/20 18:22	04/30/20 14:16	1
Bis(2-ethylhexyl) phthalate	<0.070		0.19	0.070	mg/Kg	☼	04/29/20 18:22	04/30/20 14:16	1
4-Bromophenyl phenyl ether	<0.050		0.19	0.050	mg/Kg	☼	04/29/20 18:22	04/30/20 14:16	1
Butyl benzyl phthalate	<0.073		0.19	0.073	mg/Kg	☼	04/29/20 18:22	04/30/20 14:16	1
Carbazole	<0.095		0.19	0.095	mg/Kg	☼	04/29/20 18:22	04/30/20 14:16	1
4-Chloroaniline	<0.18		0.77	0.18	mg/Kg	☼	04/29/20 18:22	04/30/20 14:16	1
4-Chloro-3-methylphenol	<0.13		0.38	0.13	mg/Kg	☼	04/29/20 18:22	04/30/20 14:16	1
2-Chloronaphthalene	<0.042		0.19	0.042	mg/Kg	☼	04/29/20 18:22	04/30/20 14:16	1
2-Chlorophenol	<0.065		0.19	0.065	mg/Kg	☼	04/29/20 18:22	04/30/20 14:16	1
4-Chlorophenyl phenyl ether	<0.045		0.19	0.045	mg/Kg	☼	04/29/20 18:22	04/30/20 14:16	1
Chrysene	0.014	J	0.038	0.010	mg/Kg	☼	04/29/20 18:22	04/30/20 14:16	1
Dibenz(a,h)anthracene	<0.0074		0.038	0.0074	mg/Kg	☼	04/29/20 18:22	04/30/20 14:16	1
Dibenzofuran	<0.045		0.19	0.045	mg/Kg	☼	04/29/20 18:22	04/30/20 14:16	1
1,2-Dichlorobenzene	<0.046		0.19	0.046	mg/Kg	☼	04/29/20 18:22	04/30/20 14:16	1
1,3-Dichlorobenzene	<0.043		0.19	0.043	mg/Kg	☼	04/29/20 18:22	04/30/20 14:16	1
1,4-Dichlorobenzene	<0.049		0.19	0.049	mg/Kg	☼	04/29/20 18:22	04/30/20 14:16	1
3,3'-Dichlorobenzidine	<0.053		0.19	0.053	mg/Kg	☼	04/29/20 18:22	04/30/20 14:16	1
2,4-Dichlorophenol	<0.091		0.38	0.091	mg/Kg	☼	04/29/20 18:22	04/30/20 14:16	1
Diethyl phthalate	<0.065		0.19	0.065	mg/Kg	☼	04/29/20 18:22	04/30/20 14:16	1
2,4-Dimethylphenol	<0.14		0.38	0.14	mg/Kg	☼	04/29/20 18:22	04/30/20 14:16	1
Dimethyl phthalate	<0.050		0.19	0.050	mg/Kg	☼	04/29/20 18:22	04/30/20 14:16	1
Di-n-butyl phthalate	<0.058		0.19	0.058	mg/Kg	☼	04/29/20 18:22	04/30/20 14:16	1
4,6-Dinitro-2-methylphenol	<0.31		0.77	0.31	mg/Kg	☼	04/29/20 18:22	04/30/20 14:16	1
2,4-Dinitrophenol	<0.67		0.77	0.67	mg/Kg	☼	04/29/20 18:22	04/30/20 14:16	1
2,4-Dinitrotoluene	<0.061		0.19	0.061	mg/Kg	☼	04/29/20 18:22	04/30/20 14:16	1
2,6-Dinitrotoluene	<0.075		0.19	0.075	mg/Kg	☼	04/29/20 18:22	04/30/20 14:16	1
Di-n-octyl phthalate	<0.062		0.19	0.062	mg/Kg	☼	04/29/20 18:22	04/30/20 14:16	1
Fluoranthene	0.012	J	0.038	0.0071	mg/Kg	☼	04/29/20 18:22	04/30/20 14:16	1
Fluorene	<0.0054		0.038	0.0054	mg/Kg	☼	04/29/20 18:22	04/30/20 14:16	1
Hexachlorobenzene	<0.0088		0.077	0.0088	mg/Kg	☼	04/29/20 18:22	04/30/20 14:16	1
Hexachlorobutadiene	<0.060		0.19	0.060	mg/Kg	☼	04/29/20 18:22	04/30/20 14:16	1
Hexachlorocyclopentadiene	<0.22		0.77	0.22	mg/Kg	☼	04/29/20 18:22	04/30/20 14:16	1
Hexachloroethane	<0.058		0.19	0.058	mg/Kg	☼	04/29/20 18:22	04/30/20 14:16	1
Indeno[1,2,3-cd]pyrene	<0.0099		0.038	0.0099	mg/Kg	☼	04/29/20 18:22	04/30/20 14:16	1
Isophorone	<0.043		0.19	0.043	mg/Kg	☼	04/29/20 18:22	04/30/20 14:16	1
2-Methylnaphthalene	<0.0070		0.077	0.0070	mg/Kg	☼	04/29/20 18:22	04/30/20 14:16	1
2-Methylphenol	<0.061		0.19	0.061	mg/Kg	☼	04/29/20 18:22	04/30/20 14:16	1
3 & 4 Methylphenol	<0.064		0.19	0.064	mg/Kg	☼	04/29/20 18:22	04/30/20 14:16	1
Naphthalene	<0.0059		0.038	0.0059	mg/Kg	☼	04/29/20 18:22	04/30/20 14:16	1
2-Nitroaniline	<0.051		0.19	0.051	mg/Kg	☼	04/29/20 18:22	04/30/20 14:16	1
3-Nitroaniline	<0.12		0.38	0.12	mg/Kg	☼	04/29/20 18:22	04/30/20 14:16	1
4-Nitroaniline	<0.16		0.38	0.16	mg/Kg	☼	04/29/20 18:22	04/30/20 14:16	1
Nitrobenzene	<0.0095		0.038	0.0095	mg/Kg	☼	04/29/20 18:22	04/30/20 14:16	1
2-Nitrophenol	<0.090		0.38	0.090	mg/Kg	☼	04/29/20 18:22	04/30/20 14:16	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - DesPlaines & Niles - WO 068A

Job ID: 500-181053-1

Client Sample ID: 3229V-11-B01A (6-11)

Lab Sample ID: 500-181053-2

Date Collected: 04/22/20 14:30

Matrix: Solid

Date Received: 04/22/20 17:00

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	<0.36		0.77	0.36	mg/Kg	☼	04/29/20 18:22	04/30/20 14:16	1
N-Nitrosodi-n-propylamine	<0.047		0.077	0.047	mg/Kg	☼	04/29/20 18:22	04/30/20 14:16	1
N-Nitrosodiphenylamine	<0.045		0.19	0.045	mg/Kg	☼	04/29/20 18:22	04/30/20 14:16	1
2,2'-oxybis[1-chloropropane]	<0.044		0.19	0.044	mg/Kg	☼	04/29/20 18:22	04/30/20 14:16	1
Pentachlorophenol	<0.61		0.77	0.61	mg/Kg	☼	04/29/20 18:22	04/30/20 14:16	1
Phenanthrene	0.031	J	0.038	0.0053	mg/Kg	☼	04/29/20 18:22	04/30/20 14:16	1
Phenol	<0.085		0.19	0.085	mg/Kg	☼	04/29/20 18:22	04/30/20 14:16	1
Pyrene	0.016	J	0.038	0.0076	mg/Kg	☼	04/29/20 18:22	04/30/20 14:16	1
1,2,4-Trichlorobenzene	<0.041		0.19	0.041	mg/Kg	☼	04/29/20 18:22	04/30/20 14:16	1
2,4,5-Trichlorophenol	<0.087		0.38	0.087	mg/Kg	☼	04/29/20 18:22	04/30/20 14:16	1
2,4,6-Trichlorophenol	<0.13		0.38	0.13	mg/Kg	☼	04/29/20 18:22	04/30/20 14:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	61		43 - 145	04/29/20 18:22	04/30/20 14:16	1
2-Fluorophenol	59		31 - 166	04/29/20 18:22	04/30/20 14:16	1
Nitrobenzene-d5	47		37 - 147	04/29/20 18:22	04/30/20 14:16	1
Phenol-d5	61		30 - 153	04/29/20 18:22	04/30/20 14:16	1
Terphenyl-d14	71		42 - 157	04/29/20 18:22	04/30/20 14:16	1
2,4,6-Tribromophenol	46		31 - 143	04/29/20 18:22	04/30/20 14:16	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.49	J	1.1	0.22	mg/Kg	☼	04/24/20 18:22	04/27/20 10:44	1
Arsenic	5.1		0.57	0.19	mg/Kg	☼	04/24/20 18:22	04/27/20 10:44	1
Barium	24		0.57	0.065	mg/Kg	☼	04/24/20 18:22	04/27/20 10:44	1
Beryllium	0.51		0.23	0.053	mg/Kg	☼	04/24/20 18:22	04/27/20 10:44	1
Cadmium	0.12	B	0.11	0.020	mg/Kg	☼	04/24/20 18:22	04/27/20 10:44	1
Chromium	12		0.57	0.28	mg/Kg	☼	04/24/20 18:22	04/27/20 10:44	1
Cobalt	7.5		0.28	0.074	mg/Kg	☼	04/24/20 18:22	04/27/20 10:44	1
Copper	16		0.57	0.16	mg/Kg	☼	04/24/20 18:22	04/27/20 10:44	1
Iron	12000	B	11	5.9	mg/Kg	☼	04/24/20 18:22	04/27/20 10:44	1
Lead	12		0.28	0.13	mg/Kg	☼	04/24/20 18:22	04/27/20 10:44	1
Magnesium	23000		5.7	2.8	mg/Kg	☼	04/24/20 18:22	04/27/20 17:42	1
Calcium	52000		110	19	mg/Kg	☼	04/24/20 18:22	04/27/20 17:46	10
Manganese	280		0.57	0.082	mg/Kg	☼	04/24/20 18:22	04/27/20 17:42	1
Nickel	20		0.57	0.16	mg/Kg	☼	04/24/20 18:22	04/27/20 10:44	1
Selenium	<0.33		0.57	0.33	mg/Kg	☼	04/24/20 18:22	04/27/20 10:44	1
Silver	0.20	J	0.28	0.073	mg/Kg	☼	04/24/20 18:22	04/27/20 10:44	1
Thallium	0.32	J	0.57	0.28	mg/Kg	☼	04/24/20 18:22	04/27/20 10:44	1
Vanadium	17		0.28	0.067	mg/Kg	☼	04/24/20 18:22	04/27/20 10:44	1
Zinc	37		1.1	0.50	mg/Kg	☼	04/24/20 18:22	04/27/20 10:44	1
Potassium	2000		28	10	mg/Kg	☼	04/24/20 18:22	04/27/20 10:44	1
Sodium	760	B	57	8.4	mg/Kg	☼	04/24/20 18:22	04/27/20 10:44	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		04/30/20 06:00	04/30/20 17:40	1
Barium	0.40	J	0.50	0.050	mg/L		04/30/20 06:00	04/30/20 17:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/30/20 06:00	04/30/20 17:40	1
Cadmium	0.0020	J	0.0050	0.0020	mg/L		04/30/20 06:00	04/30/20 17:40	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - DesPlaines & Niles - WO 068A

Job ID: 500-181053-1

Client Sample ID: 3229V-11-B01A (6-11)

Lab Sample ID: 500-181053-2

Date Collected: 04/22/20 14:30

Matrix: Solid

Date Received: 04/22/20 17:00

Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	460		5.0	0.50	mg/L		04/30/20 06:00	04/30/20 17:40	1
Chromium	<0.010		0.025	0.010	mg/L		04/30/20 06:00	04/30/20 17:40	1
Cobalt	0.035		0.025	0.010	mg/L		04/30/20 06:00	04/30/20 17:40	1
Copper	<0.010		0.025	0.010	mg/L		04/30/20 06:00	04/30/20 17:40	1
Iron	0.22	J	0.40	0.20	mg/L		04/30/20 06:00	04/30/20 17:40	1
Lead	0.010		0.0075	0.0075	mg/L		04/30/20 06:00	04/30/20 17:40	1
Magnesium	71		2.5	0.50	mg/L		04/30/20 06:00	04/30/20 17:40	1
Manganese	2.2		0.025	0.010	mg/L		04/30/20 06:00	04/30/20 17:40	1
Nickel	0.048		0.025	0.010	mg/L		04/30/20 06:00	04/30/20 17:40	1
Potassium	3.8		2.5	0.50	mg/L		04/30/20 06:00	04/30/20 17:40	1
Selenium	<0.020		0.050	0.020	mg/L		04/30/20 06:00	04/30/20 17:40	1
Silver	<0.010		0.025	0.010	mg/L		04/30/20 06:00	04/30/20 17:40	1
Vanadium	<0.010		0.025	0.010	mg/L		04/30/20 06:00	04/30/20 17:40	1
Zinc	0.047	J	0.50	0.020	mg/L		04/30/20 06:00	04/30/20 17:40	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.024		0.0075	0.0075	mg/L		04/30/20 06:00	04/30/20 19:21	1
Manganese	0.21		0.025	0.010	mg/L		04/30/20 06:00	04/30/20 19:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		04/30/20 06:00	05/01/20 17:00	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/30/20 06:00	05/01/20 17:00	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		04/30/20 10:10	05/01/20 10:33	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0094	J	0.018	0.0061	mg/Kg	☼	04/27/20 13:10	04/28/20 08:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.23		0.46	0.23	mg/Kg	☼	05/01/20 08:50	05/01/20 14:14	1
pH	8.1		0.2	0.2	SU			04/24/20 16:08	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - DesPlaines & Niles - WO 068A

Job ID: 500-181053-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

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

Glossary

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

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - DesPlaines & Niles - WO 068A

Job ID: 500-181053-1

GC/MS VOA

Prep Batch: 540395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181053-1	3229V-11-B01A (2-6)	Total/NA	Solid	5035	
500-181053-2	3229V-11-B01A (6-11)	Total/NA	Solid	5035	

Analysis Batch: 540449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181053-1	3229V-11-B01A (2-6)	Total/NA	Solid	8260B	540395
500-181053-2	3229V-11-B01A (6-11)	Total/NA	Solid	8260B	540395
MB 500-540449/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-540449/4	Lab Control Sample	Total/NA	Solid	8260B	
LCS 500-540449/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 540374

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181053-1	3229V-11-B01A (2-6)	Total/NA	Solid	3541	
500-181053-2	3229V-11-B01A (6-11)	Total/NA	Solid	3541	
MB 500-540374/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-540374/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 540414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181053-1	3229V-11-B01A (2-6)	Total/NA	Solid	8270D	540374
500-181053-2	3229V-11-B01A (6-11)	Total/NA	Solid	8270D	540374
MB 500-540374/1-A	Method Blank	Total/NA	Solid	8270D	540374
LCS 500-540374/2-A	Lab Control Sample	Total/NA	Solid	8270D	540374

Metals

Prep Batch: 539722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181053-1	3229V-11-B01A (2-6)	Total/NA	Solid	3050B	
500-181053-2	3229V-11-B01A (6-11)	Total/NA	Solid	3050B	
MB 500-539722/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-539722/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 539881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181053-1	3229V-11-B01A (2-6)	Total/NA	Solid	7471B	
500-181053-2	3229V-11-B01A (6-11)	Total/NA	Solid	7471B	
MB 500-539881/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-539881/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 539903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181053-1	3229V-11-B01A (2-6)	Total/NA	Solid	6010B	539722
500-181053-2	3229V-11-B01A (6-11)	Total/NA	Solid	6010B	539722
MB 500-539722/1-A	Method Blank	Total/NA	Solid	6010B	539722
LCS 500-539722/2-A	Lab Control Sample	Total/NA	Solid	6010B	539722

Eurofins TestAmerica, Chicago

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - DesPlaines & Niles - WO 068A

Job ID: 500-181053-1

Metals

Analysis Batch: 539954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181053-1	3229V-11-B01A (2-6)	Total/NA	Solid	6010B	539722
500-181053-2	3229V-11-B01A (6-11)	Total/NA	Solid	6010B	539722
500-181053-2	3229V-11-B01A (6-11)	Total/NA	Solid	6010B	539722

Analysis Batch: 540065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181053-1	3229V-11-B01A (2-6)	Total/NA	Solid	7471B	539881
500-181053-2	3229V-11-B01A (6-11)	Total/NA	Solid	7471B	539881
MB 500-539881/12-A	Method Blank	Total/NA	Solid	7471B	539881
LCS 500-539881/13-A	Lab Control Sample	Total/NA	Solid	7471B	539881

Leach Batch: 540120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181053-2	3229V-11-B01A (6-11)	SPLP East	Solid	1312	
LB 500-540120/1-B	Method Blank	SPLP East	Solid	1312	

Leach Batch: 540121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181053-1	3229V-11-B01A (2-6)	TCLP	Solid	1311	
500-181053-2	3229V-11-B01A (6-11)	TCLP	Solid	1311	
LB 500-540121/1-B	Method Blank	TCLP	Solid	1311	
LB 500-540121/1-C	Method Blank	TCLP	Solid	1311	

Prep Batch: 540406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181053-2	3229V-11-B01A (6-11)	SPLP East	Solid	3010A	540120
LB 500-540120/1-B	Method Blank	SPLP East	Solid	3010A	540120
LCS 500-540406/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 540407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181053-1	3229V-11-B01A (2-6)	TCLP	Solid	3010A	540121
500-181053-2	3229V-11-B01A (6-11)	TCLP	Solid	3010A	540121
LB 500-540121/1-B	Method Blank	TCLP	Solid	3010A	540121
LCS 500-540407/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 540514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181053-1	3229V-11-B01A (2-6)	TCLP	Solid	7470A	540121
500-181053-2	3229V-11-B01A (6-11)	TCLP	Solid	7470A	540121
LB 500-540121/1-C	Method Blank	TCLP	Solid	7470A	540121
MB 500-540514/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-540514/15-A	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 540617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181053-1	3229V-11-B01A (2-6)	TCLP	Solid	6010B	540407
500-181053-2	3229V-11-B01A (6-11)	SPLP East	Solid	6010B	540406
500-181053-2	3229V-11-B01A (6-11)	TCLP	Solid	6010B	540407
LB 500-540120/1-B	Method Blank	SPLP East	Solid	6010B	540406
LB 500-540121/1-B	Method Blank	TCLP	Solid	6010B	540407

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - DesPlaines & Niles - WO 068A

Job ID: 500-181053-1

Metals (Continued)

Analysis Batch: 540617 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-540406/2-A	Lab Control Sample	Total/NA	Solid	6010B	540406
LCS 500-540407/2-A	Lab Control Sample	Total/NA	Solid	6010B	540407

Analysis Batch: 540721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181053-1	3229V-11-B01A (2-6)	TCLP	Solid	7470A	540514
500-181053-2	3229V-11-B01A (6-11)	TCLP	Solid	7470A	540514
LB 500-540121/1-C	Method Blank	TCLP	Solid	7470A	540514
MB 500-540514/12-A	Method Blank	Total/NA	Solid	7470A	540514
LCS 500-540514/15-A	Lab Control Sample	Total/NA	Solid	7470A	540514

Analysis Batch: 540867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181053-1	3229V-11-B01A (2-6)	TCLP	Solid	6020A	540407
500-181053-2	3229V-11-B01A (6-11)	TCLP	Solid	6020A	540407
LB 500-540121/1-B	Method Blank	TCLP	Solid	6020A	540407
LCS 500-540407/2-A	Lab Control Sample	Total/NA	Solid	6020A	540407

General Chemistry

Analysis Batch: 539669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181053-1	3229V-11-B01A (2-6)	Total/NA	Solid	Moisture	
500-181053-2	3229V-11-B01A (6-11)	Total/NA	Solid	Moisture	

Analysis Batch: 539862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181053-1	3229V-11-B01A (2-6)	Total/NA	Solid	9045D	
500-181053-2	3229V-11-B01A (6-11)	Total/NA	Solid	9045D	
LCS 500-539862/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-539862/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Prep Batch: 540679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181053-1	3229V-11-B01A (2-6)	Total/NA	Solid	9010B	
500-181053-2	3229V-11-B01A (6-11)	Total/NA	Solid	9010B	
MB 500-540679/1-A	Method Blank	Total/NA	Solid	9010B	
LCS 500-540679/2-A	Lab Control Sample	Total/NA	Solid	9010B	

Analysis Batch: 540738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181053-1	3229V-11-B01A (2-6)	Total/NA	Solid	9014	540679
500-181053-2	3229V-11-B01A (6-11)	Total/NA	Solid	9014	540679
MB 500-540679/1-A	Method Blank	Total/NA	Solid	9014	540679
LCS 500-540679/2-A	Lab Control Sample	Total/NA	Solid	9014	540679

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - DesPlaines & Niles - WO 068A

Job ID: 500-181053-1

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(75-131)	(75-126)	(70-134)	(75-124)
500-181053-1	3229V-11-B01A (2-6)	112	94	104	99
500-181053-2	3229V-11-B01A (6-11)	111	93	98	102
LCS 500-540449/4	Lab Control Sample	98	91	87	96
LCS 500-540449/5	Lab Control Sample Dup	96	93	90	98
MB 500-540449/7	Method Blank	105	90	91	102

Surrogate Legend

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

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	FBP	2FP	NBZ	PHL	TPHL	TBP
		(43-145)	(31-166)	(37-147)	(30-153)	(42-157)	(31-143)
500-181053-1	3229V-11-B01A (2-6)	80	73	58	79	101	82
500-181053-2	3229V-11-B01A (6-11)	61	59	47	61	71	46
LCS 500-540374/2-A	Lab Control Sample	100	104	83	105	109	111
MB 500-540374/1-A	Method Blank	96	92	75	96	97	90

Surrogate Legend

FBP = 2-Fluorobiphenyl
 2FP = 2-Fluorophenol
 NBZ = Nitrobenzene-d5
 PHL = Phenol-d5
 TPHL = Terphenyl-d14
 TBP = 2,4,6-Tribromophenol

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - DesPlaines & Niles - WO 068A

Job ID: 500-181053-1

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

Lab Sample ID: MB 500-540449/7
Matrix: Solid
Analysis Batch: 540449

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.0087		0.020	0.0087	mg/Kg			04/30/20 12:14	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg			04/30/20 12:14	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg			04/30/20 12:14	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg			04/30/20 12:14	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg			04/30/20 12:14	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			04/30/20 12:14	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg			04/30/20 12:14	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg			04/30/20 12:14	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg			04/30/20 12:14	1
Chloroethane	<0.0015		0.0050	0.0015	mg/Kg			04/30/20 12:14	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg			04/30/20 12:14	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg			04/30/20 12:14	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg			04/30/20 12:14	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg			04/30/20 12:14	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg			04/30/20 12:14	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg			04/30/20 12:14	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg			04/30/20 12:14	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg			04/30/20 12:14	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			04/30/20 12:14	1
1,3-Dichloropropene, Total	<0.00070		0.0020	0.00070	mg/Kg			04/30/20 12:14	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg			04/30/20 12:14	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg			04/30/20 12:14	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg			04/30/20 12:14	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg			04/30/20 12:14	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg			04/30/20 12:14	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg			04/30/20 12:14	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg			04/30/20 12:14	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg			04/30/20 12:14	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg			04/30/20 12:14	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg			04/30/20 12:14	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg			04/30/20 12:14	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg			04/30/20 12:14	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg			04/30/20 12:14	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg			04/30/20 12:14	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg			04/30/20 12:14	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg			04/30/20 12:14	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg			04/30/20 12:14	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	105		75 - 131		04/30/20 12:14	1
Dibromofluoromethane	90		75 - 126		04/30/20 12:14	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134		04/30/20 12:14	1
Toluene-d8 (Surr)	102		75 - 124		04/30/20 12:14	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - DesPlaines & Niles - WO 068A

Job ID: 500-181053-1

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

Lab Sample ID: LCS 500-540449/4

Matrix: Solid

Analysis Batch: 540449

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	0.0452		mg/Kg		90	40 - 150
Benzene	0.0500	0.0446		mg/Kg		89	70 - 125
Bromodichloromethane	0.0500	0.0470		mg/Kg		94	67 - 129
Bromoform	0.0500	0.0488		mg/Kg		98	68 - 136
Bromomethane	0.0500	0.0531		mg/Kg		106	70 - 130
2-Butanone (MEK)	0.0500	0.0392		mg/Kg		78	47 - 138
Carbon disulfide	0.0500	0.0476		mg/Kg		95	70 - 129
Carbon tetrachloride	0.0500	0.0495		mg/Kg		99	75 - 125
Chlorobenzene	0.0500	0.0489		mg/Kg		98	50 - 150
Chloroethane	0.0500	0.0535		mg/Kg		107	75 - 125
Chloroform	0.0500	0.0457		mg/Kg		91	57 - 135
Chloromethane	0.0500	0.0464		mg/Kg		93	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0471		mg/Kg		94	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0465		mg/Kg		93	70 - 125
Dibromochloromethane	0.0500	0.0493		mg/Kg		99	69 - 125
1,1-Dichloroethane	0.0500	0.0478		mg/Kg		96	70 - 125
1,2-Dichloroethane	0.0500	0.0455		mg/Kg		91	70 - 130
1,1-Dichloroethene	0.0500	0.0489		mg/Kg		98	70 - 120
1,2-Dichloropropane	0.0500	0.0463		mg/Kg		93	70 - 125
Ethylbenzene	0.0500	0.0494		mg/Kg		99	61 - 136
2-Hexanone	0.0500	0.0477		mg/Kg		95	48 - 146
Methylene Chloride	0.0500	0.0471		mg/Kg		94	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0449		mg/Kg		90	50 - 148
Methyl tert-butyl ether	0.0500	0.0489		mg/Kg		98	50 - 140
Styrene	0.0500	0.0499		mg/Kg		100	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0482		mg/Kg		96	70 - 122
Tetrachloroethene	0.0500	0.0470		mg/Kg		94	70 - 124
Toluene	0.0500	0.0478		mg/Kg		96	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0497		mg/Kg		99	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0477		mg/Kg		95	70 - 125
1,1,1-Trichloroethane	0.0500	0.0482		mg/Kg		96	70 - 128
1,1,2-Trichloroethane	0.0500	0.0478		mg/Kg		96	70 - 125
Trichloroethene	0.0500	0.0453		mg/Kg		91	70 - 125
Vinyl acetate	0.0500	0.0424		mg/Kg		85	40 - 153
Vinyl chloride	0.0500	0.0466		mg/Kg		93	70 - 125
Xylenes, Total	0.100	0.0984		mg/Kg		98	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	98		75 - 131
Dibromofluoromethane	91		75 - 126
1,2-Dichloroethane-d4 (Surr)	87		70 - 134
Toluene-d8 (Surr)	96		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - DesPlaines & Niles - WO 068A

Job ID: 500-181053-1

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

Lab Sample ID: LCSD 500-540449/5
Matrix: Solid
Analysis Batch: 540449

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	0.0495		mg/Kg		99	40 - 150	9	30
Benzene	0.0500	0.0446		mg/Kg		89	70 - 125	0	30
Bromodichloromethane	0.0500	0.0465		mg/Kg		93	67 - 129	1	30
Bromoform	0.0500	0.0515		mg/Kg		103	68 - 136	6	30
Bromomethane	0.0500	0.0524		mg/Kg		105	70 - 130	1	30
2-Butanone (MEK)	0.0500	0.0426		mg/Kg		85	47 - 138	8	30
Carbon disulfide	0.0500	0.0480		mg/Kg		96	70 - 129	1	30
Carbon tetrachloride	0.0500	0.0490		mg/Kg		98	75 - 125	1	30
Chlorobenzene	0.0500	0.0484		mg/Kg		97	50 - 150	1	30
Chloroethane	0.0500	0.0526		mg/Kg		105	75 - 125	2	30
Chloroform	0.0500	0.0462		mg/Kg		92	57 - 135	1	30
Chloromethane	0.0500	0.0469		mg/Kg		94	70 - 125	1	30
cis-1,2-Dichloroethene	0.0500	0.0475		mg/Kg		95	70 - 125	1	30
cis-1,3-Dichloropropene	0.0500	0.0480		mg/Kg		96	70 - 125	3	30
Dibromochloromethane	0.0500	0.0507		mg/Kg		101	69 - 125	3	30
1,1-Dichloroethane	0.0500	0.0481		mg/Kg		96	70 - 125	1	30
1,2-Dichloroethane	0.0500	0.0461		mg/Kg		92	70 - 130	1	30
1,1-Dichloroethene	0.0500	0.0488		mg/Kg		98	70 - 120	0	30
1,2-Dichloropropane	0.0500	0.0456		mg/Kg		91	70 - 125	2	30
Ethylbenzene	0.0500	0.0484		mg/Kg		97	61 - 136	2	30
2-Hexanone	0.0500	0.0532		mg/Kg		106	48 - 146	11	30
Methylene Chloride	0.0500	0.0480		mg/Kg		96	70 - 126	2	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0490		mg/Kg		98	50 - 148	9	30
Methyl tert-butyl ether	0.0500	0.0504		mg/Kg		101	50 - 140	3	30
Styrene	0.0500	0.0497		mg/Kg		99	70 - 125	0	30
1,1,2,2-Tetrachloroethane	0.0500	0.0495		mg/Kg		99	70 - 122	3	30
Tetrachloroethene	0.0500	0.0472		mg/Kg		94	70 - 124	1	30
Toluene	0.0500	0.0474		mg/Kg		95	70 - 125	1	30
trans-1,2-Dichloroethene	0.0500	0.0502		mg/Kg		100	70 - 125	1	30
trans-1,3-Dichloropropene	0.0500	0.0483		mg/Kg		97	70 - 125	1	30
1,1,1-Trichloroethane	0.0500	0.0481		mg/Kg		96	70 - 128	0	30
1,1,2-Trichloroethane	0.0500	0.0493		mg/Kg		99	70 - 125	3	30
Trichloroethene	0.0500	0.0455		mg/Kg		91	70 - 125	0	30
Vinyl acetate	0.0500	0.0425		mg/Kg		85	40 - 153	0	30
Vinyl chloride	0.0500	0.0475		mg/Kg		95	70 - 125	2	30
Xylenes, Total	0.100	0.0973		mg/Kg		97	53 - 147	1	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	96		75 - 131
Dibromofluoromethane	93		75 - 126
1,2-Dichloroethane-d4 (Surr)	90		70 - 134
Toluene-d8 (Surr)	98		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - DesPlaines & Niles - WO 068A

Job ID: 500-181053-1

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

Lab Sample ID: MB 500-540374/1-A
Matrix: Solid
Analysis Batch: 540414

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 540374

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0060		0.033	0.0060	mg/Kg		04/29/20 18:22	04/30/20 09:59	1
Acenaphthylene	<0.0044		0.033	0.0044	mg/Kg		04/29/20 18:22	04/30/20 09:59	1
Anthracene	<0.0056		0.033	0.0056	mg/Kg		04/29/20 18:22	04/30/20 09:59	1
Benzo[a]anthracene	<0.0045		0.033	0.0045	mg/Kg		04/29/20 18:22	04/30/20 09:59	1
Benzo[a]pyrene	<0.0064		0.033	0.0064	mg/Kg		04/29/20 18:22	04/30/20 09:59	1
Benzo[b]fluoranthene	<0.0072		0.033	0.0072	mg/Kg		04/29/20 18:22	04/30/20 09:59	1
Benzo[g,h,i]perylene	<0.011		0.033	0.011	mg/Kg		04/29/20 18:22	04/30/20 09:59	1
Benzo[k]fluoranthene	<0.0098		0.033	0.0098	mg/Kg		04/29/20 18:22	04/30/20 09:59	1
Bis(2-chloroethoxy)methane	<0.034		0.17	0.034	mg/Kg		04/29/20 18:22	04/30/20 09:59	1
Bis(2-chloroethyl)ether	<0.050		0.17	0.050	mg/Kg		04/29/20 18:22	04/30/20 09:59	1
Bis(2-ethylhexyl) phthalate	<0.061		0.17	0.061	mg/Kg		04/29/20 18:22	04/30/20 09:59	1
4-Bromophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		04/29/20 18:22	04/30/20 09:59	1
Butyl benzyl phthalate	<0.063		0.17	0.063	mg/Kg		04/29/20 18:22	04/30/20 09:59	1
Carbazole	<0.083		0.17	0.083	mg/Kg		04/29/20 18:22	04/30/20 09:59	1
4-Chloroaniline	<0.16		0.67	0.16	mg/Kg		04/29/20 18:22	04/30/20 09:59	1
4-Chloro-3-methylphenol	<0.11		0.33	0.11	mg/Kg		04/29/20 18:22	04/30/20 09:59	1
2-Chloronaphthalene	<0.037		0.17	0.037	mg/Kg		04/29/20 18:22	04/30/20 09:59	1
2-Chlorophenol	<0.057		0.17	0.057	mg/Kg		04/29/20 18:22	04/30/20 09:59	1
4-Chlorophenyl phenyl ether	<0.039		0.17	0.039	mg/Kg		04/29/20 18:22	04/30/20 09:59	1
Chrysene	<0.0091		0.033	0.0091	mg/Kg		04/29/20 18:22	04/30/20 09:59	1
Dibenz(a,h)anthracene	<0.0064		0.033	0.0064	mg/Kg		04/29/20 18:22	04/30/20 09:59	1
Dibenzofuran	<0.039		0.17	0.039	mg/Kg		04/29/20 18:22	04/30/20 09:59	1
1,2-Dichlorobenzene	<0.040		0.17	0.040	mg/Kg		04/29/20 18:22	04/30/20 09:59	1
1,3-Dichlorobenzene	<0.037		0.17	0.037	mg/Kg		04/29/20 18:22	04/30/20 09:59	1
1,4-Dichlorobenzene	<0.043		0.17	0.043	mg/Kg		04/29/20 18:22	04/30/20 09:59	1
3,3'-Dichlorobenzidine	<0.047		0.17	0.047	mg/Kg		04/29/20 18:22	04/30/20 09:59	1
2,4-Dichlorophenol	<0.079		0.33	0.079	mg/Kg		04/29/20 18:22	04/30/20 09:59	1
Diethyl phthalate	<0.056		0.17	0.056	mg/Kg		04/29/20 18:22	04/30/20 09:59	1
2,4-Dimethylphenol	<0.13		0.33	0.13	mg/Kg		04/29/20 18:22	04/30/20 09:59	1
Dimethyl phthalate	<0.043		0.17	0.043	mg/Kg		04/29/20 18:22	04/30/20 09:59	1
Di-n-butyl phthalate	<0.051		0.17	0.051	mg/Kg		04/29/20 18:22	04/30/20 09:59	1
4,6-Dinitro-2-methylphenol	<0.27		0.67	0.27	mg/Kg		04/29/20 18:22	04/30/20 09:59	1
2,4-Dinitrophenol	<0.59		0.67	0.59	mg/Kg		04/29/20 18:22	04/30/20 09:59	1
2,4-Dinitrotoluene	<0.053		0.17	0.053	mg/Kg		04/29/20 18:22	04/30/20 09:59	1
2,6-Dinitrotoluene	<0.065		0.17	0.065	mg/Kg		04/29/20 18:22	04/30/20 09:59	1
Di-n-octyl phthalate	<0.054		0.17	0.054	mg/Kg		04/29/20 18:22	04/30/20 09:59	1
Fluoranthene	<0.0062		0.033	0.0062	mg/Kg		04/29/20 18:22	04/30/20 09:59	1
Fluorene	<0.0047		0.033	0.0047	mg/Kg		04/29/20 18:22	04/30/20 09:59	1
Hexachlorobenzene	<0.0077		0.067	0.0077	mg/Kg		04/29/20 18:22	04/30/20 09:59	1
Hexachlorobutadiene	<0.052		0.17	0.052	mg/Kg		04/29/20 18:22	04/30/20 09:59	1
Hexachlorocyclopentadiene	<0.19		0.67	0.19	mg/Kg		04/29/20 18:22	04/30/20 09:59	1
Hexachloroethane	<0.051		0.17	0.051	mg/Kg		04/29/20 18:22	04/30/20 09:59	1
Indeno[1,2,3-cd]pyrene	<0.0086		0.033	0.0086	mg/Kg		04/29/20 18:22	04/30/20 09:59	1
Isophorone	<0.037		0.17	0.037	mg/Kg		04/29/20 18:22	04/30/20 09:59	1
2-Methylnaphthalene	<0.0061		0.067	0.0061	mg/Kg		04/29/20 18:22	04/30/20 09:59	1
2-Methylphenol	<0.053		0.17	0.053	mg/Kg		04/29/20 18:22	04/30/20 09:59	1
3 & 4 Methylphenol	<0.055		0.17	0.055	mg/Kg		04/29/20 18:22	04/30/20 09:59	1
Naphthalene	<0.0051		0.033	0.0051	mg/Kg		04/29/20 18:22	04/30/20 09:59	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - DesPlaines & Niles - WO 068A

Job ID: 500-181053-1

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

Lab Sample ID: MB 500-540374/1-A

Matrix: Solid

Analysis Batch: 540414

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 540374

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	<0.045		0.17	0.045	mg/Kg		04/29/20 18:22	04/30/20 09:59	1
3-Nitroaniline	<0.10		0.33	0.10	mg/Kg		04/29/20 18:22	04/30/20 09:59	1
4-Nitroaniline	<0.14		0.33	0.14	mg/Kg		04/29/20 18:22	04/30/20 09:59	1
Nitrobenzene	<0.0083		0.033	0.0083	mg/Kg		04/29/20 18:22	04/30/20 09:59	1
2-Nitrophenol	<0.079		0.33	0.079	mg/Kg		04/29/20 18:22	04/30/20 09:59	1
4-Nitrophenol	<0.32		0.67	0.32	mg/Kg		04/29/20 18:22	04/30/20 09:59	1
N-Nitrosodi-n-propylamine	<0.041		0.067	0.041	mg/Kg		04/29/20 18:22	04/30/20 09:59	1
N-Nitrosodiphenylamine	<0.039		0.17	0.039	mg/Kg		04/29/20 18:22	04/30/20 09:59	1
2,2'-oxybis[1-chloropropane]	<0.039		0.17	0.039	mg/Kg		04/29/20 18:22	04/30/20 09:59	1
Pentachlorophenol	<0.53		0.67	0.53	mg/Kg		04/29/20 18:22	04/30/20 09:59	1
Phenanthrene	<0.0046		0.033	0.0046	mg/Kg		04/29/20 18:22	04/30/20 09:59	1
Phenol	<0.074		0.17	0.074	mg/Kg		04/29/20 18:22	04/30/20 09:59	1
Pyrene	<0.0066		0.033	0.0066	mg/Kg		04/29/20 18:22	04/30/20 09:59	1
1,2,4-Trichlorobenzene	<0.036		0.17	0.036	mg/Kg		04/29/20 18:22	04/30/20 09:59	1
2,4,5-Trichlorophenol	<0.076		0.33	0.076	mg/Kg		04/29/20 18:22	04/30/20 09:59	1
2,4,6-Trichlorophenol	<0.11		0.33	0.11	mg/Kg		04/29/20 18:22	04/30/20 09:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	96		43 - 145	04/29/20 18:22	04/30/20 09:59	1
2-Fluorophenol	92		31 - 166	04/29/20 18:22	04/30/20 09:59	1
Nitrobenzene-d5	75		37 - 147	04/29/20 18:22	04/30/20 09:59	1
Phenol-d5	96		30 - 153	04/29/20 18:22	04/30/20 09:59	1
Terphenyl-d14	97		42 - 157	04/29/20 18:22	04/30/20 09:59	1
2,4,6-Tribromophenol	90		31 - 143	04/29/20 18:22	04/30/20 09:59	1

Lab Sample ID: LCS 500-540374/2-A

Matrix: Solid

Analysis Batch: 540414

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 540374

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1.33	1.33		mg/Kg		100	65 - 124
Acenaphthylene	1.33	1.38		mg/Kg		104	68 - 120
Anthracene	1.33	1.38		mg/Kg		103	70 - 114
Benzo[a]anthracene	1.33	1.36		mg/Kg		102	67 - 122
Benzo[a]pyrene	1.33	1.42		mg/Kg		107	65 - 133
Benzo[b]fluoranthene	1.33	1.50		mg/Kg		113	69 - 129
Benzo[g,h,i]perylene	1.33	1.51		mg/Kg		114	72 - 131
Benzo[k]fluoranthene	1.33	1.49		mg/Kg		111	68 - 127
Bis(2-chloroethoxy)methane	1.33	1.26		mg/Kg		95	60 - 112
Bis(2-chloroethyl)ether	1.33	1.21		mg/Kg		91	55 - 111
Bis(2-ethylhexyl) phthalate	1.33	1.17		mg/Kg		88	72 - 131
4-Bromophenyl phenyl ether	1.33	1.34		mg/Kg		100	68 - 118
Butyl benzyl phthalate	1.33	1.27		mg/Kg		95	71 - 129
Carbazole	1.33	1.34		mg/Kg		100	65 - 142
4-Chloroaniline	1.33	1.28		mg/Kg		96	30 - 150
4-Chloro-3-methylphenol	1.33	1.31		mg/Kg		98	65 - 122
2-Chloronaphthalene	1.33	1.31		mg/Kg		98	69 - 114
2-Chlorophenol	1.33	1.27		mg/Kg		95	64 - 110

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - DesPlaines & Niles - WO 068A

Job ID: 500-181053-1

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

Lab Sample ID: LCS 500-540374/2-A
Matrix: Solid
Analysis Batch: 540414

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 540374

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorophenyl phenyl ether	1.33	1.31		mg/Kg		99	62 - 119
Chrysene	1.33	1.43		mg/Kg		107	63 - 120
Dibenz(a,h)anthracene	1.33	1.53		mg/Kg		115	64 - 131
Dibenzofuran	1.33	1.34		mg/Kg		101	66 - 115
1,2-Dichlorobenzene	1.33	1.25		mg/Kg		93	62 - 110
1,3-Dichlorobenzene	1.33	1.21		mg/Kg		91	65 - 124
1,4-Dichlorobenzene	1.33	1.21		mg/Kg		90	61 - 110
3,3'-Dichlorobenzidine	1.33	1.18		mg/Kg		89	35 - 128
2,4-Dichlorophenol	1.33	1.39		mg/Kg		104	58 - 120
Diethyl phthalate	1.33	1.18		mg/Kg		88	58 - 120
2,4-Dimethylphenol	1.33	1.19		mg/Kg		89	60 - 110
Dimethyl phthalate	1.33	1.33		mg/Kg		100	69 - 116
Di-n-butyl phthalate	1.33	1.34		mg/Kg		101	65 - 120
4,6-Dinitro-2-methylphenol	2.67	1.38		mg/Kg		52	10 - 110
2,4-Dinitrophenol	2.67	0.637	J	mg/Kg		24	10 - 100
2,4-Dinitrotoluene	1.33	1.48		mg/Kg		111	69 - 124
2,6-Dinitrotoluene	1.33	1.49		mg/Kg		112	70 - 123
Di-n-octyl phthalate	1.33	1.35		mg/Kg		102	68 - 134
Fluoranthene	1.33	1.48		mg/Kg		111	62 - 120
Fluorene	1.33	1.27		mg/Kg		95	62 - 120
Hexachlorobenzene	1.33	1.45		mg/Kg		109	63 - 124
Hexachlorobutadiene	1.33	1.33		mg/Kg		100	56 - 120
Hexachlorocyclopentadiene	1.33	0.418	J	mg/Kg		31	10 - 133
Hexachloroethane	1.33	1.08		mg/Kg		81	60 - 114
Indeno[1,2,3-cd]pyrene	1.33	1.57		mg/Kg		118	68 - 130
Isophorone	1.33	1.19		mg/Kg		89	55 - 110
2-Methylnaphthalene	1.33	1.35		mg/Kg		101	69 - 112
2-Methylphenol	1.33	1.32		mg/Kg		99	60 - 120
3 & 4 Methylphenol	1.33	1.10		mg/Kg		82	57 - 120
Naphthalene	1.33	1.38		mg/Kg		103	63 - 110
2-Nitroaniline	1.33	1.01		mg/Kg		76	57 - 124
3-Nitroaniline	1.33	1.18		mg/Kg		88	40 - 122
4-Nitroaniline	1.33	1.20		mg/Kg		90	60 - 160
Nitrobenzene	1.33	1.17		mg/Kg		88	60 - 116
2-Nitrophenol	1.33	1.40		mg/Kg		105	60 - 120
4-Nitrophenol	2.67	1.75		mg/Kg		66	30 - 122
N-Nitrosodi-n-propylamine	1.33	0.932		mg/Kg		70	56 - 118
N-Nitrosodiphenylamine	1.33	1.29		mg/Kg		97	65 - 112
2,2'-oxybis[1-chloropropane]	1.33	0.730		mg/Kg		55	40 - 124
Pentachlorophenol	2.67	1.85		mg/Kg		69	13 - 112
Phenanthrene	1.33	1.38		mg/Kg		103	62 - 120
Phenol	1.33	1.36		mg/Kg		102	56 - 122
Pyrene	1.33	1.44		mg/Kg		108	61 - 128
1,2,4-Trichlorobenzene	1.33	1.41		mg/Kg		106	66 - 117
2,4,5-Trichlorophenol	1.33	1.36		mg/Kg		102	50 - 120
2,4,6-Trichlorophenol	1.33	1.35		mg/Kg		101	57 - 120

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - DesPlaines & Niles - WO 068A

Job ID: 500-181053-1

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

Lab Sample ID: LCS 500-540374/2-A
Matrix: Solid
Analysis Batch: 540414

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 540374

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	100		43 - 145
2-Fluorophenol	104		31 - 166
Nitrobenzene-d5	83		37 - 147
Phenol-d5	105		30 - 153
Terphenyl-d14	109		42 - 157
2,4,6-Tribromophenol	111		31 - 143

Method: 6010B - SPLP Metals

Lab Sample ID: LCS 500-540406/2-A
Matrix: Solid
Analysis Batch: 540617

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 540406

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Lead	0.100	0.101		mg/L		101	80 - 120
Manganese	0.500	0.471		mg/L		94	80 - 120

Lab Sample ID: LB 500-540120/1-B
Matrix: Solid
Analysis Batch: 540617

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 540406

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	<0.0075		0.0075	0.0075	mg/L		04/30/20 06:00	04/30/20 18:52	1
Manganese	<0.010		0.025	0.010	mg/L		04/30/20 06:00	04/30/20 18:52	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-539722/1-A
Matrix: Solid
Analysis Batch: 539903

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 539722

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.39		2.0	0.39	mg/Kg		04/24/20 18:22	04/27/20 09:12	1
Arsenic	<0.34		1.0	0.34	mg/Kg		04/24/20 18:22	04/27/20 09:12	1
Barium	<0.11		1.0	0.11	mg/Kg		04/24/20 18:22	04/27/20 09:12	1
Beryllium	<0.093		0.40	0.093	mg/Kg		04/24/20 18:22	04/27/20 09:12	1
Cadmium	0.0527	J	0.20	0.036	mg/Kg		04/24/20 18:22	04/27/20 09:12	1
Chromium	<0.50		1.0	0.50	mg/Kg		04/24/20 18:22	04/27/20 09:12	1
Cobalt	<0.13		0.50	0.13	mg/Kg		04/24/20 18:22	04/27/20 09:12	1
Copper	<0.28		1.0	0.28	mg/Kg		04/24/20 18:22	04/27/20 09:12	1
Iron	14.0	J	20	10	mg/Kg		04/24/20 18:22	04/27/20 09:12	1
Lead	<0.23		0.50	0.23	mg/Kg		04/24/20 18:22	04/27/20 09:12	1
Magnesium	<5.0		10	5.0	mg/Kg		04/24/20 18:22	04/27/20 09:12	1
Calcium	<3.4		20	3.4	mg/Kg		04/24/20 18:22	04/27/20 09:12	1
Manganese	<0.15		1.0	0.15	mg/Kg		04/24/20 18:22	04/27/20 09:12	1
Nickel	<0.29		1.0	0.29	mg/Kg		04/24/20 18:22	04/27/20 09:12	1
Selenium	<0.59		1.0	0.59	mg/Kg		04/24/20 18:22	04/27/20 09:12	1
Silver	<0.13		0.50	0.13	mg/Kg		04/24/20 18:22	04/27/20 09:12	1
Thallium	<0.50		1.0	0.50	mg/Kg		04/24/20 18:22	04/27/20 09:12	1

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - DesPlaines & Niles - WO 068A

Job ID: 500-181053-1

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

Lab Sample ID: MB 500-539722/1-A
Matrix: Solid
Analysis Batch: 539903

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 539722

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Vanadium	<0.12		0.50	0.12	mg/Kg		04/24/20 18:22	04/27/20 09:12	1
Zinc	<0.88		2.0	0.88	mg/Kg		04/24/20 18:22	04/27/20 09:12	1
Potassium	<18		50	18	mg/Kg		04/24/20 18:22	04/27/20 09:12	1
Sodium	27.6	J	100	15	mg/Kg		04/24/20 18:22	04/27/20 09:12	1

Lab Sample ID: LCS 500-539722/2-A
Matrix: Solid
Analysis Batch: 539903

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 539722

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	10.0	8.80		mg/Kg		88	80 - 120
Barium	200	181		mg/Kg		91	80 - 120
Beryllium	5.00	4.28		mg/Kg		86	80 - 120
Cadmium	5.00	4.56		mg/Kg		91	80 - 120
Chromium	20.0	19.0		mg/Kg		95	80 - 120
Cobalt	50.0	47.1		mg/Kg		94	80 - 120
Copper	25.0	23.5		mg/Kg		94	80 - 120
Iron	100	94.9		mg/Kg		95	80 - 120
Lead	10.0	8.95		mg/Kg		90	80 - 120
Magnesium	1000	851		mg/Kg		85	80 - 120
Calcium	1000	874		mg/Kg		87	80 - 120
Manganese	50.0	42.3		mg/Kg		85	80 - 120
Nickel	50.0	46.6		mg/Kg		93	80 - 120
Selenium	10.0	8.46		mg/Kg		85	80 - 120
Silver	5.00	4.34		mg/Kg		87	80 - 120
Thallium	10.0	9.35		mg/Kg		93	80 - 120
Vanadium	50.0	47.8		mg/Kg		96	80 - 120
Zinc	50.0	46.4		mg/Kg		93	80 - 120
Potassium	1000	852		mg/Kg		85	80 - 120
Sodium	1000	901		mg/Kg		90	80 - 120

Lab Sample ID: LCS 500-540407/2-A
Matrix: Solid
Analysis Batch: 540617

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 540407

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	0.500	0.501		mg/L		100	80 - 120
Beryllium	0.0500	0.0498		mg/L		100	80 - 120
Cadmium	0.0500	0.0529		mg/L		106	80 - 120
Chromium	0.200	0.200		mg/L		100	80 - 120
Cobalt	0.500	0.522		mg/L		104	80 - 120
Copper	0.250	0.266		mg/L		106	80 - 120
Iron	1.00	1.14		mg/L		114	80 - 120
Lead	0.100	0.0980		mg/L		98	80 - 120
Magnesium	10.0	9.53		mg/L		95	80 - 120
Calcium	10.0	10.2		mg/L		102	80 - 120
Manganese	0.500	0.490		mg/L		98	80 - 120

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - DesPlaines & Niles - WO 068A

Job ID: 500-181053-1

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

Lab Sample ID: LCS 500-540407/2-A
Matrix: Solid
Analysis Batch: 540617

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 540407

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nickel	0.500	0.517		mg/L		103	80 - 120
Selenium	0.100	0.104		mg/L		104	80 - 120
Silver	0.0500	0.0550		mg/L		110	80 - 120
Vanadium	0.500	0.504		mg/L		101	80 - 120
Zinc	0.500	0.558		mg/L		112	80 - 120
Potassium	10.0	11.5		mg/L		115	80 - 120

Lab Sample ID: LB 500-540121/1-B
Matrix: Solid
Analysis Batch: 540617

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 540407

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		04/30/20 06:00	04/30/20 17:23	1
Barium	<0.050		0.50	0.050	mg/L		04/30/20 06:00	04/30/20 17:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		04/30/20 06:00	04/30/20 17:23	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		04/30/20 06:00	04/30/20 17:23	1
Chromium	<0.010		0.025	0.010	mg/L		04/30/20 06:00	04/30/20 17:23	1
Cobalt	<0.010		0.025	0.010	mg/L		04/30/20 06:00	04/30/20 17:23	1
Copper	<0.010		0.025	0.010	mg/L		04/30/20 06:00	04/30/20 17:23	1
Iron	<0.20		0.40	0.20	mg/L		04/30/20 06:00	04/30/20 17:23	1
Lead	<0.0075		0.0075	0.0075	mg/L		04/30/20 06:00	04/30/20 17:23	1
Magnesium	<0.50		2.5	0.50	mg/L		04/30/20 06:00	04/30/20 17:23	1
Calcium	<0.50		5.0	0.50	mg/L		04/30/20 06:00	04/30/20 17:23	1
Manganese	<0.010		0.025	0.010	mg/L		04/30/20 06:00	04/30/20 17:23	1
Nickel	<0.010		0.025	0.010	mg/L		04/30/20 06:00	04/30/20 17:23	1
Selenium	<0.020		0.050	0.020	mg/L		04/30/20 06:00	04/30/20 17:23	1
Silver	<0.010		0.025	0.010	mg/L		04/30/20 06:00	04/30/20 17:23	1
Vanadium	<0.010		0.025	0.010	mg/L		04/30/20 06:00	04/30/20 17:23	1
Zinc	<0.020		0.50	0.020	mg/L		04/30/20 06:00	04/30/20 17:23	1
Potassium	<0.50		2.5	0.50	mg/L		04/30/20 06:00	04/30/20 17:23	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-540407/2-A
Matrix: Solid
Analysis Batch: 540867

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 540407

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.506		mg/L		101	80 - 120
Thallium	0.100	0.0988		mg/L		99	80 - 120

Lab Sample ID: LB 500-540121/1-B
Matrix: Solid
Analysis Batch: 540867

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 540407

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		04/30/20 06:00	05/01/20 16:51	1
Thallium	<0.0020		0.0020	0.0020	mg/L		04/30/20 06:00	05/01/20 16:51	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - DesPlaines & Niles - WO 068A

Job ID: 500-181053-1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-540514/12-A
 Matrix: Solid
 Analysis Batch: 540721

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 540514

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		04/30/20 10:10	05/01/20 09:57	1

Lab Sample ID: LCS 500-540514/15-A
 Matrix: Solid
 Analysis Batch: 540721

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 540514
 %Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00197		mg/L		98	80 - 120

Lab Sample ID: LB 500-540121/1-C
 Matrix: Solid
 Analysis Batch: 540721

Client Sample ID: Method Blank
 Prep Type: TCLP
 Prep Batch: 540514

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		04/30/20 10:10	05/01/20 10:01	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-539881/12-A
 Matrix: Solid
 Analysis Batch: 540065

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 539881

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		04/27/20 13:10	04/28/20 07:55	1

Lab Sample ID: LCS 500-539881/13-A
 Matrix: Solid
 Analysis Batch: 540065

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 539881
 %Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.161		mg/Kg		97	80 - 120

Method: 9014 - Cyanide

Lab Sample ID: MB 500-540679/1-A
 Matrix: Solid
 Analysis Batch: 540738

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 540679

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.25		0.50	0.25	mg/Kg		05/01/20 08:50	05/01/20 14:12	1

Lab Sample ID: LCS 500-540679/2-A
 Matrix: Solid
 Analysis Batch: 540738

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 540679
 %Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	5.00	5.16		mg/Kg		103	85 - 115

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - DesPlaines & Niles - WO 068A

Job ID: 500-181053-1

Client Sample ID: 3229V-11-B01A (2-6)

Lab Sample ID: 500-181053-1

Date Collected: 04/22/20 14:20

Matrix: Solid

Date Received: 04/22/20 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			540121	04/28/20 13:48	BEC	TAL CHI
TCLP	Prep	3010A			540407	04/30/20 06:00	LMN	TAL CHI
TCLP	Analysis	6010B		1	540617	04/30/20 17:36	EEN	TAL CHI
TCLP	Leach	1311			540121	04/28/20 13:48	BEC	TAL CHI
TCLP	Prep	3010A			540407	04/30/20 06:00	LMN	TAL CHI
TCLP	Analysis	6020A		1	540867	05/01/20 16:58	FXG	TAL CHI
TCLP	Leach	1311			540121	04/28/20 13:48	BEC	TAL CHI
TCLP	Prep	7470A			540514	04/30/20 10:10	MJG	TAL CHI
TCLP	Analysis	7470A		1	540721	05/01/20 10:31	MJG	TAL CHI
Total/NA	Analysis	9045D		1	539862	04/24/20 16:05	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	539669	04/24/20 12:32	LWN	TAL CHI

Client Sample ID: 3229V-11-B01A (2-6)

Lab Sample ID: 500-181053-1

Date Collected: 04/22/20 14:20

Matrix: Solid

Date Received: 04/22/20 17:00

Percent Solids: 82.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			540395	04/23/20 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	540449	04/30/20 16:29	PMF	TAL CHI
Total/NA	Prep	3541			540374	04/29/20 18:22	ACK	TAL CHI
Total/NA	Analysis	8270D		1	540414	04/30/20 18:33	AJD	TAL CHI
Total/NA	Prep	3050B			539722	04/24/20 18:22	BDE	TAL CHI
Total/NA	Analysis	6010B		1	539903	04/27/20 10:40	JEF	TAL CHI
Total/NA	Prep	3050B			539722	04/24/20 18:22	BDE	TAL CHI
Total/NA	Analysis	6010B		1	539954	04/27/20 17:38	EEN	TAL CHI
Total/NA	Prep	7471B			539881	04/27/20 13:10	MJG	TAL CHI
Total/NA	Analysis	7471B		1	540065	04/28/20 08:31	MJG	TAL CHI
Total/NA	Prep	9010B			540679	05/01/20 08:50	MS	TAL CHI
Total/NA	Analysis	9014		1	540738	05/01/20 14:14	MS	TAL CHI

Client Sample ID: 3229V-11-B01A (6-11)

Lab Sample ID: 500-181053-2

Date Collected: 04/22/20 14:30

Matrix: Solid

Date Received: 04/22/20 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			540120	04/28/20 13:48	BEC	TAL CHI
SPLP East	Prep	3010A			540406	04/30/20 06:00	LMN	TAL CHI
SPLP East	Analysis	6010B		1	540617	04/30/20 19:21	EEN	TAL CHI
TCLP	Leach	1311			540121	04/28/20 13:48	BEC	TAL CHI
TCLP	Prep	3010A			540407	04/30/20 06:00	LMN	TAL CHI
TCLP	Analysis	6010B		1	540617	04/30/20 17:40	EEN	TAL CHI
TCLP	Leach	1311			540121	04/28/20 13:48	BEC	TAL CHI
TCLP	Prep	3010A			540407	04/30/20 06:00	LMN	TAL CHI
TCLP	Analysis	6020A		1	540867	05/01/20 17:00	FXG	TAL CHI

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - DesPlaines & Niles - WO 068A

Job ID: 500-181053-1

Client Sample ID: 3229V-11-B01A (6-11)

Lab Sample ID: 500-181053-2

Date Collected: 04/22/20 14:30

Matrix: Solid

Date Received: 04/22/20 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			540121	04/28/20 13:48	BEC	TAL CHI
TCLP	Prep	7470A			540514	04/30/20 10:10	MJG	TAL CHI
TCLP	Analysis	7470A		1	540721	05/01/20 10:33	MJG	TAL CHI
Total/NA	Analysis	9045D		1	539862	04/24/20 16:08	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	539669	04/24/20 12:32	LWN	TAL CHI

Client Sample ID: 3229V-11-B01A (6-11)

Lab Sample ID: 500-181053-2

Date Collected: 04/22/20 14:30

Matrix: Solid

Date Received: 04/22/20 17:00

Percent Solids: 86.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			540395	04/23/20 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	540449	04/30/20 16:54	PMF	TAL CHI
Total/NA	Prep	3541			540374	04/29/20 18:22	ACK	TAL CHI
Total/NA	Analysis	8270D		1	540414	04/30/20 14:16	AJD	TAL CHI
Total/NA	Prep	3050B			539722	04/24/20 18:22	BDE	TAL CHI
Total/NA	Analysis	6010B		1	539903	04/27/20 10:44	JEF	TAL CHI
Total/NA	Prep	3050B			539722	04/24/20 18:22	BDE	TAL CHI
Total/NA	Analysis	6010B		1	539954	04/27/20 17:42	EEN	TAL CHI
Total/NA	Prep	3050B			539722	04/24/20 18:22	BDE	TAL CHI
Total/NA	Analysis	6010B		10	539954	04/27/20 17:46	EEN	TAL CHI
Total/NA	Prep	7471B			539881	04/27/20 13:10	MJG	TAL CHI
Total/NA	Analysis	7471B		1	540065	04/28/20 08:33	MJG	TAL CHI
Total/NA	Prep	9010B			540679	05/01/20 08:50	MS	TAL CHI
Total/NA	Analysis	9014		1	540738	05/01/20 14:14	MS	TAL CHI

Laboratory References:

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

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - DesPlaines & Niles - WO 068A

Job ID: 500-181053-1

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20 *

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

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-181053-1

Login Number: 181053

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAU 1319-Ballard Rd Office Phone Number, if available: _____

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

9000 N Greenwood Avenue/ Ballard Road (Westbound), IDOT STA 50+60 to 51+60 (ISGS Site 3229V-14)

City: Niles State: IL Zip Code: 60714

County: Cook Township: Maine

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

Latitude: 42.04364 Longitude: - 87.84109

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

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

Estimated Volume of debris (cu. Yd.): 21

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Contact: Irma Romiti-Johnson

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

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

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

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

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

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

Soil from boring B02 was sampled adjacent to ISGS Site No 3229V-14.

See Exhibit 5 and Table 18 of the Preliminary Site Investigation Report prepared by Terracon.

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

TestAmerica Lab Report No J177914-1.

Also see Preliminary Site Investigation Report prepared by Terracon. CCDD/USFO facility within the City of Chicago or outside the City of Chicago in a MSA County.

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

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

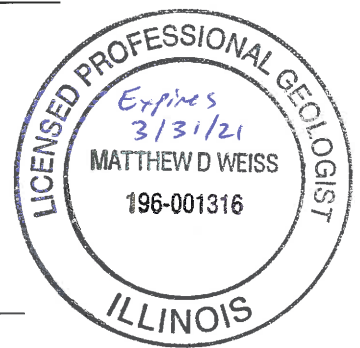
Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

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

Matt Weiss
Printed Name:

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

1/22/21
Date:



[Empty Box]
P.E or L.P.G. Seal:

Comparison of Detected Constituents to MACs-PTB 174-009;Work Order:068A

Preliminary Site Investigation

FAU 1319-Ballard Road (PESA #3229V-14)

Des Plaines and Niles, Cook County, IL

Terracon Project No. 11207011C

Page 1 of 2

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	3229V-14-B02 (0-2)
				CCDD	Sample Depth (feet)	(0-2)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	02/14/2020
Semivolatile Organic Analytical Parameters						
Acenaphthene	mg/kg	0.09	0.13	570		0.0084
Acenaphthylene	mg/kg	0.03	0.07	85		0.0089
Anthracene	mg/kg	0.25	0.4	12000		0.044
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.27
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.29
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.49
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.1
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.24
Chrysene	mg/kg	1.2	2.7	88		0.33
Fluoranthene	mg/kg	2.7	4.1	3100		0.56
Fluorene	mg/kg	0.1	0.18	560		0.0085
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.092
Phenanthrene	mg/kg	1.3	2.5	210		0.19
Pyrene	mg/kg	1.9	3.0	2300		0.57
Butylbenzylphthalate	mg/kg	---	---	930		0.13
2-Methylnaphthalene	mg/kg	---	0.14	---		0.0088
Inorganic Analytical Parameters						
Arsenic	mg/kg	---	13	11.3		7.2
Barium	mg/kg	---	110	1500		110
Cadmium	mg/kg	---	0.6	5.2		0.42
Chromium, total	mg/kg	---	16.2	21		19
Lead	mg/kg	---	36	107		36
Mercury	mg/kg	---	0.06	0.89		0.02
Selenium	mg/kg	---	0.48	1.3		<0.33
Silver	mg/kg	---	0.55	4.4		0.17
Antimony	mg/kg	---	4.0	5		0.94
Beryllium	mg/kg	---	0.59	22		0.7
Calcium	mg/kg	---	9,300	---		80000
Cobalt	mg/kg	---	8.9	20		9.4
Copper	mg/kg	---	19.6	2900		28
Cyanide	mg/kg	---	0.51	---		0.43
Iron	mg/kg	---	15,900	15000		19000
Magnesium	mg/kg	---	4,820	325000		31000
Manganese	mg/kg	---	636	630		480
Nickel	mg/kg	---	18	100		27
Potassium	mg/kg	---	1,268	---		1800
Sodium	mg/kg	---	130	---		190
Thallium	mg/kg	---	0.32	2.6		1.5
Vanadium	mg/kg	---	25.2	550		21
Zinc	mg/kg	---	95	5100		77
pH			6.25	9		8.2

Comparison of Detected Constituents to MACs-PTB 174-009;Work Order:068A

Preliminary Site Investigation

FAU 1319-Ballard Road (PESA #3229V-14)

Des Plaines and Niles, Cook County, IL

Terracon Project No. 11207011C

Page 2 of 2

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	3229V-14-B02 (0-2)
				CCDD	Sample Depth (feet)	(0-2)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	02/14/2020
Inorganic Analytical Parameters (SPLP)						
Antimony,SPLP	mg/L	---	---	---		--
Arsenic,SPLP	mg/L	---	---	---		--
Barium,SPLP	mg/L	---	---	---		--
Beryllium,SPLP	mg/L	---	---	---		--
Cadmium,SPLP	mg/L	---	---	---		--
Calcium,SPLP	mg/L	---	---	---		--
Chromium,SPLP	mg/L	---	---	---		--
Cobalt,SPLP	mg/L	---	---	---		--
Copper,SPLP	mg/L	---	---	---		--
Iron,SPLP	mg/L	---	---	---		--
Lead,SPLP	mg/L	---	---	---		--
Magnesium,SPLP	mg/L	---	---	---		--
Manganese,SPLP	mg/L	---	---	---		--
Mercury,SPLP	mg/L	---	---	---		--
Nickel,SPLP	mg/L	---	---	---		--
Potassium,SPLP	mg/L	---	---	---		--
Selenium,SPLP	mg/L	---	---	---		--
Silver,SPLP	mg/L	---	---	---		--
Sodium,SPLP	mg/L	---	---	---		--
Thallium,SPLP	mg/L	---	---	---		--
Vanadium,SPLP	mg/L	---	---	---		--
Zinc,SPLP	mg/L	---	---	---		--
Cyanide,SPLP	mg/L	---	---	---		--
Inorganic Analytical Parameters (TCLP)						
Arsenic,TCLP	mg/L	---	---	---		<0.010
Barium,TCLP	mg/L	---	---	---		0.49
Cadmium,TCLP	mg/L	---	---	---		<0.0020
Chromium,TCLP	mg/L	---	---	---		<0.010
Lead,TCLP	mg/L	---	---	---		<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.020
Silver,TCLP	mg/L	---	---	---		<0.010
Antimony,TCLP	mg/L	---	---	---		<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040
Calcium,TCLP	mg/L	---	---	---		520
Cobalt,TCLP	mg/L	---	---	---		<0.010
Copper,TCLP	mg/L	---	---	---		<0.010
Cyanide,TCLP	mg/L	---	---	---		--
Iron,TCLP	mg/L	---	---	---		<0.20
Magnesium,TCLP	mg/L	---	---	---		30
Manganese,TCLP	mg/L	---	---	---		0.053
Nickel,TCLP	mg/L	---	---	---		<0.010
Potassium,TCLP	mg/L	---	---	---		2.9
Sodium,TCLP	mg/L	---	---	---		--
Thallium,TCLP	mg/L	---	---	---		<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.010
Zinc,TCLP	mg/L	---	---	---		<0.020

ANALYTICAL REPORT

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

Laboratory Job ID: 500-177914-1

Client Project/Site: IDOT - PTB 174-009 - WO 068

For:

Environmental Design International, Inc.
33 W. Monroe
Suite 1825
Chicago, Illinois 60603

Attn: Michael Fischer



Authorized for release by:
2/26/2020 4:45:48 PM

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

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

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

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

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Case Narrative

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177914-1

Job ID: 500-177914-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-177914-1

Receipt

The samples were received on 2/14/2020 3:38 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.2° C.

GC/MS VOA

Method 8260B: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for 530336 recovered outside control limits for Chloroethane. This analyte was biased high in the LCS/LCSD and was not detected in the associated samples; therefore, the data have been reported. 3229V-14-B02 (0-2) (500-177914-1), 3229V-14-B01 (0-5) (500-177914-2) and 3229V-14-B01 (5-10) (500-177914-4)

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

GC/MS Semi VOA

Method 8270D: The following samples contained one base surrogate outside acceptance limits: 3229V-14-B01 (0-5) Dup (500-177914-3). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

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

Metals

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

General Chemistry

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

Organic Prep

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

Detection Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177914-1

Client Sample ID: 3229V-14-B02 (0-2)

Lab Sample ID: 500-177914-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.0084	J	0.039	0.0070	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.0089	J	0.039	0.0052	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.044		0.039	0.0065	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.27		0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.29		0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.49		0.039	0.0085	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.10		0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.24		0.039	0.012	mg/Kg	1	☼	8270D	Total/NA
Butyl benzyl phthalate	0.13	J	0.20	0.074	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.33		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.56		0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0085	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.092		0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.0088	J	0.079	0.0072	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.19		0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.57		0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.94	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.2		0.57	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	110		0.57	0.065	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.70		0.23	0.053	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.42	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	19		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.4		0.28	0.074	mg/Kg	1	☼	6010B	Total/NA
Copper	28		0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	19000	B	11	5.9	mg/Kg	1	☼	6010B	Total/NA
Lead	36		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	31000		5.7	2.8	mg/Kg	1	☼	6010B	Total/NA
Calcium	80000	B	110	19	mg/Kg	10	☼	6010B	Total/NA
Manganese	480	B	0.57	0.082	mg/Kg	1	☼	6010B	Total/NA
Nickel	27		0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Silver	0.17	J	0.28	0.073	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.5		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.28	0.067	mg/Kg	1	☼	6010B	Total/NA
Zinc	77	B	1.1	0.50	mg/Kg	1	☼	6010B	Total/NA
Potassium	1800		28	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	190		57	8.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.49	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	520		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	30		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.053		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.9		2.5	0.50	mg/L	1		6010B	TCLP
Mercury	0.020		0.019	0.0062	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.43	J	0.51	0.26	mg/Kg	1	☼	9014	Total/NA
pH	8.2		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3229V-14-B01 (0-5)

Lab Sample ID: 500-177914-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.013	J	0.018	0.0080	mg/Kg	1	☼	8260B	Total/NA
Acenaphthene	0.046		0.040	0.0072	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.0087	J	0.040	0.0053	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177914-1

Client Sample ID: 3229V-14-B01 (0-5) (Continued)

Lab Sample ID: 500-177914-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.089		0.040	0.0067	mg/Kg	1	*	8270D	Total/NA
Benzo[a]anthracene	0.26		0.040	0.0054	mg/Kg	1	*	8270D	Total/NA
Benzo[a]pyrene	0.33		0.040	0.0077	mg/Kg	1	*	8270D	Total/NA
Benzo[b]fluoranthene	0.55		0.040	0.0086	mg/Kg	1	*	8270D	Total/NA
Benzo[g,h,i]perylene	0.13		0.040	0.013	mg/Kg	1	*	8270D	Total/NA
Benzo[k]fluoranthene	0.23		0.040	0.012	mg/Kg	1	*	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.17	J	0.20	0.073	mg/Kg	1	*	8270D	Total/NA
Chrysene	0.35		0.040	0.011	mg/Kg	1	*	8270D	Total/NA
Fluoranthene	0.68		0.040	0.0074	mg/Kg	1	*	8270D	Total/NA
Fluorene	0.034	J	0.040	0.0056	mg/Kg	1	*	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.11		0.040	0.010	mg/Kg	1	*	8270D	Total/NA
2-Methylnaphthalene	0.015	J	0.080	0.0073	mg/Kg	1	*	8270D	Total/NA
Naphthalene	0.012	J	0.040	0.0061	mg/Kg	1	*	8270D	Total/NA
Phenanthrene	0.38		0.040	0.0056	mg/Kg	1	*	8270D	Total/NA
Pyrene	0.68		0.040	0.0079	mg/Kg	1	*	8270D	Total/NA
Antimony	0.74	J	1.2	0.24	mg/Kg	1	*	6010B	Total/NA
Arsenic	6.4		0.61	0.21	mg/Kg	1	*	6010B	Total/NA
Barium	86		0.61	0.070	mg/Kg	1	*	6010B	Total/NA
Beryllium	0.89		0.25	0.057	mg/Kg	1	*	6010B	Total/NA
Cadmium	0.51	B	0.12	0.022	mg/Kg	1	*	6010B	Total/NA
Chromium	27		0.61	0.30	mg/Kg	1	*	6010B	Total/NA
Cobalt	11		0.31	0.080	mg/Kg	1	*	6010B	Total/NA
Copper	24		0.61	0.17	mg/Kg	1	*	6010B	Total/NA
Iron	19000	B	12	6.4	mg/Kg	1	*	6010B	Total/NA
Lead	240		0.31	0.14	mg/Kg	1	*	6010B	Total/NA
Magnesium	17000		6.1	3.0	mg/Kg	1	*	6010B	Total/NA
Calcium	28000	B	12	2.1	mg/Kg	1	*	6010B	Total/NA
Manganese	360	B	0.61	0.089	mg/Kg	1	*	6010B	Total/NA
Nickel	29		0.61	0.18	mg/Kg	1	*	6010B	Total/NA
Silver	0.18	J	0.31	0.079	mg/Kg	1	*	6010B	Total/NA
Thallium	1.6		0.61	0.31	mg/Kg	1	*	6010B	Total/NA
Vanadium	27		0.31	0.072	mg/Kg	1	*	6010B	Total/NA
Zinc	150	B	1.2	0.54	mg/Kg	1	*	6010B	Total/NA
Potassium	2700		31	11	mg/Kg	1	*	6010B	Total/NA
Sodium	1300		61	9.1	mg/Kg	1	*	6010B	Total/NA
Barium	0.50		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0038	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	290		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.026		0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.053		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	45		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	4.1		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.018	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.0		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.16	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	1.1		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	1.0		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.039		0.020	0.0066	mg/Kg	1	*	7471B	Total/NA
pH	8.7		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177914-1

Client Sample ID: 3229V-14-B01 (0-5) Dup

Lab Sample ID: 500-177914-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.014	J	0.021	0.0090	mg/Kg	1	☼	8260B	Total/NA
Acenaphthene	0.026	J	0.042	0.0076	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.080		0.042	0.0070	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.34		0.042	0.0057	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.41		0.042	0.0081	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.60		0.042	0.0091	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.14		0.042	0.014	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.20		0.042	0.012	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.37		0.21	0.077	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.39		0.042	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.052		0.042	0.0081	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.73		0.042	0.0078	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.024	J	0.042	0.0059	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.17		0.042	0.011	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.016	J	0.042	0.0065	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.33		0.042	0.0059	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.81		0.042	0.0084	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.48	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.6		0.61	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	83		0.61	0.070	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.95		0.25	0.057	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.42	B	0.12	0.022	mg/Kg	1	☼	6010B	Total/NA
Chromium	26		0.61	0.30	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.31	0.080	mg/Kg	1	☼	6010B	Total/NA
Copper	21		0.61	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	22000	B	12	6.4	mg/Kg	1	☼	6010B	Total/NA
Lead	120		0.31	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	16000		6.1	3.0	mg/Kg	1	☼	6010B	Total/NA
Calcium	29000	B	12	2.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	510	B	0.61	0.089	mg/Kg	1	☼	6010B	Total/NA
Nickel	32		0.61	0.18	mg/Kg	1	☼	6010B	Total/NA
Silver	0.24	J	0.31	0.079	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.3		0.61	0.31	mg/Kg	1	☼	6010B	Total/NA
Vanadium	27		0.31	0.072	mg/Kg	1	☼	6010B	Total/NA
Zinc	110	B	1.2	0.54	mg/Kg	1	☼	6010B	Total/NA
Potassium	2800		31	11	mg/Kg	1	☼	6010B	Total/NA
Sodium	1300		61	9.1	mg/Kg	1	☼	6010B	Total/NA
Barium	0.54		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0039	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	300		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.027		0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.040		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	45		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	5.4		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.019	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.2		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.21	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.57		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.87		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.042		0.021	0.0070	mg/Kg	1	☼	7471B	Total/NA
pH	8.7		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177914-1

Client Sample ID: 3229V-14-B01 (5-10)

Lab Sample ID: 500-177914-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.026		0.019	0.0085	mg/Kg	1	☼	8260B	Total/NA
Anthracene	0.0097	J	0.044	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.035	J	0.044	0.0060	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.032	J	0.044	0.0086	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.042	J	0.044	0.0096	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.015	J	0.044	0.014	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.036	J	0.044	0.012	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.082		0.044	0.0083	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.015	J	0.044	0.012	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.043	J	0.044	0.0062	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.067		0.044	0.0089	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.6		0.67	0.23	mg/Kg	1	☼	6010B	Total/NA
Barium	100		0.67	0.076	mg/Kg	1	☼	6010B	Total/NA
Beryllium	1.1		0.27	0.063	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.13	B	0.13	0.024	mg/Kg	1	☼	6010B	Total/NA
Chromium	26		0.67	0.33	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.33	0.088	mg/Kg	1	☼	6010B	Total/NA
Copper	20		0.67	0.19	mg/Kg	1	☼	6010B	Total/NA
Iron	22000	B	13	7.0	mg/Kg	1	☼	6010B	Total/NA
Lead	17		0.33	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	7700		6.7	3.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	12000	B	13	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	310	B	0.67	0.097	mg/Kg	1	☼	6010B	Total/NA
Nickel	36		0.67	0.19	mg/Kg	1	☼	6010B	Total/NA
Silver	0.24	J	0.33	0.086	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.8		0.67	0.33	mg/Kg	1	☼	6010B	Total/NA
Vanadium	30		0.33	0.079	mg/Kg	1	☼	6010B	Total/NA
Zinc	78	B	1.3	0.59	mg/Kg	1	☼	6010B	Total/NA
Potassium	3300		33	12	mg/Kg	1	☼	6010B	Total/NA
Sodium	2200		67	9.9	mg/Kg	1	☼	6010B	Total/NA
Barium	0.68		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	330		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	59		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	6.1		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.2		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.6		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.030		0.021	0.0071	mg/Kg	1	☼	7471B	Total/NA
pH	8.3		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Method Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177914-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6010B	SPLP Metals	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9014	Cyanide	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
1311	TCLP Extraction	SW846	TAL CHI
1312	SPLP Extraction	SW846	TAL CHI
3010A	Preparation, Total Metals	SW846	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL CHI
7471B	Preparation, Mercury	SW846	TAL CHI
9010B	Cyanide, Distillation	SW846	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177914-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-177914-1	3229V-14-B02 (0-2)	Solid	02/14/20 10:45	02/14/20 15:38	
500-177914-2	3229V-14-B01 (0-5)	Solid	02/14/20 11:00	02/14/20 15:38	
500-177914-3	3229V-14-B01 (0-5) Dup	Solid	02/14/20 11:05	02/14/20 15:38	
500-177914-4	3229V-14-B01 (5-10)	Solid	02/14/20 11:10	02/14/20 15:38	

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Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177914-1

Client Sample ID: 3229V-14-B02 (0-2)

Lab Sample ID: 500-177914-1

Date Collected: 02/14/20 10:45

Matrix: Solid

Date Received: 02/14/20 15:38

Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0091		0.021	0.0091	mg/Kg	☼	02/14/20 17:08	02/19/20 14:56	1
Benzene	<0.00053		0.0021	0.00053	mg/Kg	☼	02/14/20 17:08	02/19/20 14:56	1
Bromodichloromethane	<0.00042		0.0021	0.00042	mg/Kg	☼	02/14/20 17:08	02/19/20 14:56	1
Bromoform	<0.00061		0.0021	0.00061	mg/Kg	☼	02/14/20 17:08	02/19/20 14:56	1
Bromomethane	<0.0020		0.0052	0.0020	mg/Kg	☼	02/14/20 17:08	02/19/20 14:56	1
2-Butanone (MEK)	<0.0023		0.0052	0.0023	mg/Kg	☼	02/14/20 17:08	02/19/20 14:56	1
Carbon disulfide	<0.0011		0.0052	0.0011	mg/Kg	☼	02/14/20 17:08	02/19/20 14:56	1
Carbon tetrachloride	<0.00061		0.0021	0.00061	mg/Kg	☼	02/14/20 17:08	02/19/20 14:56	1
Chlorobenzene	<0.00077		0.0021	0.00077	mg/Kg	☼	02/14/20 17:08	02/19/20 14:56	1
Chloroethane	<0.0015 *		0.0052	0.0015	mg/Kg	☼	02/14/20 17:08	02/19/20 14:56	1
Chloroform	<0.00072		0.0021	0.00072	mg/Kg	☼	02/14/20 17:08	02/19/20 14:56	1
Chloromethane	<0.0021		0.0052	0.0021	mg/Kg	☼	02/14/20 17:08	02/19/20 14:56	1
cis-1,2-Dichloroethene	<0.00058		0.0021	0.00058	mg/Kg	☼	02/14/20 17:08	02/19/20 14:56	1
cis-1,3-Dichloropropene	<0.00063		0.0021	0.00063	mg/Kg	☼	02/14/20 17:08	02/19/20 14:56	1
Dibromochloromethane	<0.00068		0.0021	0.00068	mg/Kg	☼	02/14/20 17:08	02/19/20 14:56	1
1,1-Dichloroethane	<0.00072		0.0021	0.00072	mg/Kg	☼	02/14/20 17:08	02/19/20 14:56	1
1,2-Dichloroethane	<0.0016		0.0052	0.0016	mg/Kg	☼	02/14/20 17:08	02/19/20 14:56	1
1,1-Dichloroethene	<0.00072		0.0021	0.00072	mg/Kg	☼	02/14/20 17:08	02/19/20 14:56	1
1,2-Dichloropropane	<0.00054		0.0021	0.00054	mg/Kg	☼	02/14/20 17:08	02/19/20 14:56	1
1,3-Dichloropropane, Total	<0.00073		0.0021	0.00073	mg/Kg	☼	02/14/20 17:08	02/19/20 14:56	1
Ethylbenzene	<0.0010		0.0021	0.0010	mg/Kg	☼	02/14/20 17:08	02/19/20 14:56	1
2-Hexanone	<0.0016		0.0052	0.0016	mg/Kg	☼	02/14/20 17:08	02/19/20 14:56	1
Methylene Chloride	<0.0021		0.0052	0.0021	mg/Kg	☼	02/14/20 17:08	02/19/20 14:56	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0052	0.0015	mg/Kg	☼	02/14/20 17:08	02/19/20 14:56	1
Methyl tert-butyl ether	<0.00061		0.0021	0.00061	mg/Kg	☼	02/14/20 17:08	02/19/20 14:56	1
Styrene	<0.00063		0.0021	0.00063	mg/Kg	☼	02/14/20 17:08	02/19/20 14:56	1
1,1,2,2-Tetrachloroethane	<0.00067		0.0021	0.00067	mg/Kg	☼	02/14/20 17:08	02/19/20 14:56	1
Tetrachloroethene	<0.00071		0.0021	0.00071	mg/Kg	☼	02/14/20 17:08	02/19/20 14:56	1
Toluene	<0.00053		0.0021	0.00053	mg/Kg	☼	02/14/20 17:08	02/19/20 14:56	1
trans-1,2-Dichloroethene	<0.00093		0.0021	0.00093	mg/Kg	☼	02/14/20 17:08	02/19/20 14:56	1
trans-1,3-Dichloropropene	<0.00073		0.0021	0.00073	mg/Kg	☼	02/14/20 17:08	02/19/20 14:56	1
1,1,1-Trichloroethane	<0.00070		0.0021	0.00070	mg/Kg	☼	02/14/20 17:08	02/19/20 14:56	1
1,1,2-Trichloroethane	<0.00090		0.0021	0.00090	mg/Kg	☼	02/14/20 17:08	02/19/20 14:56	1
Trichloroethene	<0.00071		0.0021	0.00071	mg/Kg	☼	02/14/20 17:08	02/19/20 14:56	1
Vinyl acetate	<0.0018		0.0052	0.0018	mg/Kg	☼	02/14/20 17:08	02/19/20 14:56	1
Vinyl chloride	<0.00092		0.0021	0.00092	mg/Kg	☼	02/14/20 17:08	02/19/20 14:56	1
Xylenes, Total	<0.00067		0.0042	0.00067	mg/Kg	☼	02/14/20 17:08	02/19/20 14:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		75 - 131	02/14/20 17:08	02/19/20 14:56	1
Dibromofluoromethane	92		75 - 126	02/14/20 17:08	02/19/20 14:56	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	02/14/20 17:08	02/19/20 14:56	1
Toluene-d8 (Surr)	98		75 - 124	02/14/20 17:08	02/19/20 14:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.0084	J	0.039	0.0070	mg/Kg	☼	02/19/20 16:58	02/21/20 18:20	1
Acenaphthylene	0.0089	J	0.039	0.0052	mg/Kg	☼	02/19/20 16:58	02/21/20 18:20	1
Anthracene	0.044		0.039	0.0065	mg/Kg	☼	02/19/20 16:58	02/21/20 18:20	1
Benzo[a]anthracene	0.27		0.039	0.0053	mg/Kg	☼	02/19/20 16:58	02/21/20 18:20	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177914-1

Client Sample ID: 3229V-14-B02 (0-2)

Lab Sample ID: 500-177914-1

Date Collected: 02/14/20 10:45

Matrix: Solid

Date Received: 02/14/20 15:38

Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.29		0.039	0.0076	mg/Kg	☼	02/19/20 16:58	02/21/20 18:20	1
Benzo[b]fluoranthene	0.49		0.039	0.0085	mg/Kg	☼	02/19/20 16:58	02/21/20 18:20	1
Benzo[g,h,i]perylene	0.10		0.039	0.013	mg/Kg	☼	02/19/20 16:58	02/21/20 18:20	1
Benzo[k]fluoranthene	0.24		0.039	0.012	mg/Kg	☼	02/19/20 16:58	02/21/20 18:20	1
Bis(2-chloroethoxy)methane	<0.040		0.20	0.040	mg/Kg	☼	02/19/20 16:58	02/21/20 18:20	1
Bis(2-chloroethyl)ether	<0.059		0.20	0.059	mg/Kg	☼	02/19/20 16:58	02/21/20 18:20	1
Bis(2-ethylhexyl) phthalate	<0.072		0.20	0.072	mg/Kg	☼	02/19/20 16:58	02/21/20 18:20	1
4-Bromophenyl phenyl ether	<0.052		0.20	0.052	mg/Kg	☼	02/19/20 16:58	02/21/20 18:20	1
Butyl benzyl phthalate	0.13	J	0.20	0.074	mg/Kg	☼	02/19/20 16:58	02/21/20 18:20	1
Carbazole	<0.098		0.20	0.098	mg/Kg	☼	02/19/20 16:58	02/21/20 18:20	1
4-Chloroaniline	<0.18		0.79	0.18	mg/Kg	☼	02/19/20 16:58	02/21/20 18:20	1
4-Chloro-3-methylphenol	<0.13		0.39	0.13	mg/Kg	☼	02/19/20 16:58	02/21/20 18:20	1
2-Chloronaphthalene	<0.043		0.20	0.043	mg/Kg	☼	02/19/20 16:58	02/21/20 18:20	1
2-Chlorophenol	<0.067		0.20	0.067	mg/Kg	☼	02/19/20 16:58	02/21/20 18:20	1
4-Chlorophenyl phenyl ether	<0.046		0.20	0.046	mg/Kg	☼	02/19/20 16:58	02/21/20 18:20	1
Chrysene	0.33		0.039	0.011	mg/Kg	☼	02/19/20 16:58	02/21/20 18:20	1
Dibenz(a,h)anthracene	<0.0076		0.039	0.0076	mg/Kg	☼	02/19/20 16:58	02/21/20 18:20	1
Dibenzofuran	<0.046		0.20	0.046	mg/Kg	☼	02/19/20 16:58	02/21/20 18:20	1
1,2-Dichlorobenzene	<0.047		0.20	0.047	mg/Kg	☼	02/19/20 16:58	02/21/20 18:20	1
1,3-Dichlorobenzene	<0.044		0.20	0.044	mg/Kg	☼	02/19/20 16:58	02/21/20 18:20	1
1,4-Dichlorobenzene	<0.050		0.20	0.050	mg/Kg	☼	02/19/20 16:58	02/21/20 18:20	1
3,3'-Dichlorobenzidine	<0.055		0.20	0.055	mg/Kg	☼	02/19/20 16:58	02/21/20 18:20	1
2,4-Dichlorophenol	<0.093		0.39	0.093	mg/Kg	☼	02/19/20 16:58	02/21/20 18:20	1
Diethyl phthalate	<0.066		0.20	0.066	mg/Kg	☼	02/19/20 16:58	02/21/20 18:20	1
2,4-Dimethylphenol	<0.15		0.39	0.15	mg/Kg	☼	02/19/20 16:58	02/21/20 18:20	1
Dimethyl phthalate	<0.051		0.20	0.051	mg/Kg	☼	02/19/20 16:58	02/21/20 18:20	1
Di-n-butyl phthalate	<0.060		0.20	0.060	mg/Kg	☼	02/19/20 16:58	02/21/20 18:20	1
4,6-Dinitro-2-methylphenol	<0.31		0.79	0.31	mg/Kg	☼	02/19/20 16:58	02/21/20 18:20	1
2,4-Dinitrophenol	<0.69		0.79	0.69	mg/Kg	☼	02/19/20 16:58	02/21/20 18:20	1
2,4-Dinitrotoluene	<0.062		0.20	0.062	mg/Kg	☼	02/19/20 16:58	02/21/20 18:20	1
2,6-Dinitrotoluene	<0.077		0.20	0.077	mg/Kg	☼	02/19/20 16:58	02/21/20 18:20	1
Di-n-octyl phthalate	<0.064		0.20	0.064	mg/Kg	☼	02/19/20 16:58	02/21/20 18:20	1
Fluoranthene	0.56		0.039	0.0073	mg/Kg	☼	02/19/20 16:58	02/21/20 18:20	1
Fluorene	0.0085	J	0.039	0.0055	mg/Kg	☼	02/19/20 16:58	02/21/20 18:20	1
Hexachlorobenzene	<0.0091		0.079	0.0091	mg/Kg	☼	02/19/20 16:58	02/21/20 18:20	1
Hexachlorobutadiene	<0.062		0.20	0.062	mg/Kg	☼	02/19/20 16:58	02/21/20 18:20	1
Hexachlorocyclopentadiene	<0.23		0.79	0.23	mg/Kg	☼	02/19/20 16:58	02/21/20 18:20	1
Hexachloroethane	<0.060		0.20	0.060	mg/Kg	☼	02/19/20 16:58	02/21/20 18:20	1
Indeno[1,2,3-cd]pyrene	0.092		0.039	0.010	mg/Kg	☼	02/19/20 16:58	02/21/20 18:20	1
Isophorone	<0.044		0.20	0.044	mg/Kg	☼	02/19/20 16:58	02/21/20 18:20	1
2-Methylnaphthalene	0.0088	J	0.079	0.0072	mg/Kg	☼	02/19/20 16:58	02/21/20 18:20	1
2-Methylphenol	<0.063		0.20	0.063	mg/Kg	☼	02/19/20 16:58	02/21/20 18:20	1
3 & 4 Methylphenol	<0.065		0.20	0.065	mg/Kg	☼	02/19/20 16:58	02/21/20 18:20	1
Naphthalene	<0.0060		0.039	0.0060	mg/Kg	☼	02/19/20 16:58	02/21/20 18:20	1
2-Nitroaniline	<0.053		0.20	0.053	mg/Kg	☼	02/19/20 16:58	02/21/20 18:20	1
3-Nitroaniline	<0.12		0.39	0.12	mg/Kg	☼	02/19/20 16:58	02/21/20 18:20	1
4-Nitroaniline	<0.16		0.39	0.16	mg/Kg	☼	02/19/20 16:58	02/21/20 18:20	1
Nitrobenzene	<0.0098		0.039	0.0098	mg/Kg	☼	02/19/20 16:58	02/21/20 18:20	1
2-Nitrophenol	<0.093		0.39	0.093	mg/Kg	☼	02/19/20 16:58	02/21/20 18:20	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177914-1

Client Sample ID: 3229V-14-B02 (0-2)

Lab Sample ID: 500-177914-1

Date Collected: 02/14/20 10:45

Matrix: Solid

Date Received: 02/14/20 15:38

Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.37		0.79	0.37	mg/Kg	☼	02/19/20 16:58	02/21/20 18:20	1
N-Nitrosodi-n-propylamine	<0.048		0.079	0.048	mg/Kg	☼	02/19/20 16:58	02/21/20 18:20	1
N-Nitrosodiphenylamine	<0.046		0.20	0.046	mg/Kg	☼	02/19/20 16:58	02/21/20 18:20	1
2,2'-oxybis[1-chloropropane]	<0.045		0.20	0.045	mg/Kg	☼	02/19/20 16:58	02/21/20 18:20	1
Pentachlorophenol	<0.63		0.79	0.63	mg/Kg	☼	02/19/20 16:58	02/21/20 18:20	1
Phenanthrene	0.19		0.039	0.0055	mg/Kg	☼	02/19/20 16:58	02/21/20 18:20	1
Phenol	<0.087		0.20	0.087	mg/Kg	☼	02/19/20 16:58	02/21/20 18:20	1
Pyrene	0.57		0.039	0.0078	mg/Kg	☼	02/19/20 16:58	02/21/20 18:20	1
1,2,4-Trichlorobenzene	<0.042		0.20	0.042	mg/Kg	☼	02/19/20 16:58	02/21/20 18:20	1
2,4,5-Trichlorophenol	<0.089		0.39	0.089	mg/Kg	☼	02/19/20 16:58	02/21/20 18:20	1
2,4,6-Trichlorophenol	<0.13		0.39	0.13	mg/Kg	☼	02/19/20 16:58	02/21/20 18:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	78		43 - 145				02/19/20 16:58	02/21/20 18:20	1
2-Fluorophenol	75		31 - 166				02/19/20 16:58	02/21/20 18:20	1
Nitrobenzene-d5	72		37 - 147				02/19/20 16:58	02/21/20 18:20	1
Phenol-d5	84		30 - 153				02/19/20 16:58	02/21/20 18:20	1
Terphenyl-d14	141		42 - 157				02/19/20 16:58	02/21/20 18:20	1
2,4,6-Tribromophenol	95		31 - 143				02/19/20 16:58	02/21/20 18:20	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.94	J	1.1	0.22	mg/Kg	☼	02/19/20 16:44	02/20/20 18:24	1
Arsenic	7.2		0.57	0.19	mg/Kg	☼	02/19/20 16:44	02/20/20 18:24	1
Barium	110		0.57	0.065	mg/Kg	☼	02/19/20 16:44	02/20/20 18:24	1
Beryllium	0.70		0.23	0.053	mg/Kg	☼	02/19/20 16:44	02/20/20 18:24	1
Cadmium	0.42	B	0.11	0.020	mg/Kg	☼	02/19/20 16:44	02/20/20 18:24	1
Chromium	19		0.57	0.28	mg/Kg	☼	02/19/20 16:44	02/20/20 18:24	1
Cobalt	9.4		0.28	0.074	mg/Kg	☼	02/19/20 16:44	02/20/20 18:24	1
Copper	28		0.57	0.16	mg/Kg	☼	02/19/20 16:44	02/20/20 18:24	1
Iron	19000	B	11	5.9	mg/Kg	☼	02/19/20 16:44	02/20/20 18:24	1
Lead	36		0.28	0.13	mg/Kg	☼	02/19/20 16:44	02/20/20 18:24	1
Magnesium	31000		5.7	2.8	mg/Kg	☼	02/19/20 16:44	02/20/20 18:24	1
Calcium	80000	B	110	19	mg/Kg	☼	02/19/20 16:44	02/21/20 12:48	10
Manganese	480	B	0.57	0.082	mg/Kg	☼	02/19/20 16:44	02/20/20 18:24	1
Nickel	27		0.57	0.16	mg/Kg	☼	02/19/20 16:44	02/20/20 18:24	1
Selenium	<0.33		0.57	0.33	mg/Kg	☼	02/19/20 16:44	02/20/20 18:24	1
Silver	0.17	J	0.28	0.073	mg/Kg	☼	02/19/20 16:44	02/20/20 18:24	1
Thallium	1.5		0.57	0.28	mg/Kg	☼	02/19/20 16:44	02/20/20 18:24	1
Vanadium	21		0.28	0.067	mg/Kg	☼	02/19/20 16:44	02/20/20 18:24	1
Zinc	77	B	1.1	0.50	mg/Kg	☼	02/19/20 16:44	02/20/20 18:24	1
Potassium	1800		28	10	mg/Kg	☼	02/19/20 16:44	02/20/20 18:24	1
Sodium	190		57	8.4	mg/Kg	☼	02/19/20 16:44	02/20/20 18:24	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		02/20/20 14:45	02/21/20 11:32	1
Barium	0.49	J	0.50	0.050	mg/L		02/20/20 14:45	02/21/20 11:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/20/20 14:45	02/21/20 11:32	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		02/20/20 14:45	02/21/20 11:32	1

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Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177914-1

Client Sample ID: 3229V-14-B02 (0-2)

Lab Sample ID: 500-177914-1

Date Collected: 02/14/20 10:45

Matrix: Solid

Date Received: 02/14/20 15:38

Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	520		5.0	0.50	mg/L		02/20/20 14:45	02/21/20 11:32	1
Chromium	<0.010		0.025	0.010	mg/L		02/20/20 14:45	02/21/20 11:32	1
Cobalt	<0.010		0.025	0.010	mg/L		02/20/20 14:45	02/21/20 11:32	1
Copper	<0.010		0.025	0.010	mg/L		02/20/20 14:45	02/21/20 11:32	1
Iron	<0.20		0.40	0.20	mg/L		02/20/20 14:45	02/21/20 11:32	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/20/20 14:45	02/21/20 11:32	1
Magnesium	30		2.5	0.50	mg/L		02/20/20 14:45	02/21/20 11:32	1
Manganese	0.053		0.025	0.010	mg/L		02/20/20 14:45	02/21/20 11:32	1
Nickel	<0.010		0.025	0.010	mg/L		02/20/20 14:45	02/21/20 11:32	1
Potassium	2.9		2.5	0.50	mg/L		02/20/20 14:45	02/21/20 11:32	1
Selenium	<0.020		0.050	0.020	mg/L		02/20/20 14:45	02/21/20 11:32	1
Silver	<0.010		0.025	0.010	mg/L		02/20/20 14:45	02/21/20 11:32	1
Vanadium	<0.010		0.025	0.010	mg/L		02/20/20 14:45	02/21/20 11:32	1
Zinc	<0.020		0.50	0.020	mg/L		02/20/20 14:45	02/21/20 11:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/20/20 14:45	02/21/20 23:04	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/20/20 14:45	02/21/20 23:04	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/21/20 10:55	02/24/20 08:34	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.019	0.0062	mg/Kg	☼	02/24/20 15:45	02/25/20 08:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.43	J	0.51	0.26	mg/Kg	☼	02/25/20 15:25	02/26/20 10:16	1
pH	8.2		0.2	0.2	SU			02/19/20 14:13	1

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177914-1

Client Sample ID: 3229V-14-B01 (0-5)

Lab Sample ID: 500-177914-2

Date Collected: 02/14/20 11:00

Matrix: Solid

Date Received: 02/14/20 15:38

Percent Solids: 79.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.013	J	0.018	0.0080	mg/Kg	☼	02/14/20 17:08	02/19/20 15:22	1
Benzene	<0.00047		0.0018	0.00047	mg/Kg	☼	02/14/20 17:08	02/19/20 15:22	1
Bromodichloromethane	<0.00037		0.0018	0.00037	mg/Kg	☼	02/14/20 17:08	02/19/20 15:22	1
Bromoform	<0.00054		0.0018	0.00054	mg/Kg	☼	02/14/20 17:08	02/19/20 15:22	1
Bromomethane	<0.0017		0.0046	0.0017	mg/Kg	☼	02/14/20 17:08	02/19/20 15:22	1
2-Butanone (MEK)	<0.0020		0.0046	0.0020	mg/Kg	☼	02/14/20 17:08	02/19/20 15:22	1
Carbon disulfide	<0.00096		0.0046	0.00096	mg/Kg	☼	02/14/20 17:08	02/19/20 15:22	1
Carbon tetrachloride	<0.00053		0.0018	0.00053	mg/Kg	☼	02/14/20 17:08	02/19/20 15:22	1
Chlorobenzene	<0.00068		0.0018	0.00068	mg/Kg	☼	02/14/20 17:08	02/19/20 15:22	1
Chloroethane	<0.0014	*	0.0046	0.0014	mg/Kg	☼	02/14/20 17:08	02/19/20 15:22	1
Chloroform	<0.00064		0.0018	0.00064	mg/Kg	☼	02/14/20 17:08	02/19/20 15:22	1
Chloromethane	<0.0018		0.0046	0.0018	mg/Kg	☼	02/14/20 17:08	02/19/20 15:22	1
cis-1,2-Dichloroethene	<0.00051		0.0018	0.00051	mg/Kg	☼	02/14/20 17:08	02/19/20 15:22	1
cis-1,3-Dichloropropene	<0.00055		0.0018	0.00055	mg/Kg	☼	02/14/20 17:08	02/19/20 15:22	1
Dibromochloromethane	<0.00060		0.0018	0.00060	mg/Kg	☼	02/14/20 17:08	02/19/20 15:22	1
1,1-Dichloroethane	<0.00063		0.0018	0.00063	mg/Kg	☼	02/14/20 17:08	02/19/20 15:22	1
1,2-Dichloroethane	<0.0014		0.0046	0.0014	mg/Kg	☼	02/14/20 17:08	02/19/20 15:22	1
1,1-Dichloroethene	<0.00063		0.0018	0.00063	mg/Kg	☼	02/14/20 17:08	02/19/20 15:22	1
1,2-Dichloropropane	<0.00048		0.0018	0.00048	mg/Kg	☼	02/14/20 17:08	02/19/20 15:22	1
1,3-Dichloropropane, Total	<0.00065		0.0018	0.00065	mg/Kg	☼	02/14/20 17:08	02/19/20 15:22	1
Ethylbenzene	<0.00088		0.0018	0.00088	mg/Kg	☼	02/14/20 17:08	02/19/20 15:22	1
2-Hexanone	<0.0014		0.0046	0.0014	mg/Kg	☼	02/14/20 17:08	02/19/20 15:22	1
Methylene Chloride	<0.0018		0.0046	0.0018	mg/Kg	☼	02/14/20 17:08	02/19/20 15:22	1
4-Methyl-2-pentanone (MIBK)	<0.0014		0.0046	0.0014	mg/Kg	☼	02/14/20 17:08	02/19/20 15:22	1
Methyl tert-butyl ether	<0.00054		0.0018	0.00054	mg/Kg	☼	02/14/20 17:08	02/19/20 15:22	1
Styrene	<0.00056		0.0018	0.00056	mg/Kg	☼	02/14/20 17:08	02/19/20 15:22	1
1,1,2,2-Tetrachloroethane	<0.00059		0.0018	0.00059	mg/Kg	☼	02/14/20 17:08	02/19/20 15:22	1
Tetrachloroethene	<0.00063		0.0018	0.00063	mg/Kg	☼	02/14/20 17:08	02/19/20 15:22	1
Toluene	<0.00046		0.0018	0.00046	mg/Kg	☼	02/14/20 17:08	02/19/20 15:22	1
trans-1,2-Dichloroethene	<0.00081		0.0018	0.00081	mg/Kg	☼	02/14/20 17:08	02/19/20 15:22	1
trans-1,3-Dichloropropene	<0.00065		0.0018	0.00065	mg/Kg	☼	02/14/20 17:08	02/19/20 15:22	1
1,1,1-Trichloroethane	<0.00062		0.0018	0.00062	mg/Kg	☼	02/14/20 17:08	02/19/20 15:22	1
1,1,2-Trichloroethane	<0.00079		0.0018	0.00079	mg/Kg	☼	02/14/20 17:08	02/19/20 15:22	1
Trichloroethene	<0.00062		0.0018	0.00062	mg/Kg	☼	02/14/20 17:08	02/19/20 15:22	1
Vinyl acetate	<0.0016		0.0046	0.0016	mg/Kg	☼	02/14/20 17:08	02/19/20 15:22	1
Vinyl chloride	<0.00081		0.0018	0.00081	mg/Kg	☼	02/14/20 17:08	02/19/20 15:22	1
Xylenes, Total	<0.00059		0.0037	0.00059	mg/Kg	☼	02/14/20 17:08	02/19/20 15:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		75 - 131	02/14/20 17:08	02/19/20 15:22	1
Dibromofluoromethane	96		75 - 126	02/14/20 17:08	02/19/20 15:22	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	02/14/20 17:08	02/19/20 15:22	1
Toluene-d8 (Surr)	97		75 - 124	02/14/20 17:08	02/19/20 15:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.046		0.040	0.0072	mg/Kg	☼	02/19/20 16:58	02/21/20 18:43	1
Acenaphthylene	0.0087	J	0.040	0.0053	mg/Kg	☼	02/19/20 16:58	02/21/20 18:43	1
Anthracene	0.089		0.040	0.0067	mg/Kg	☼	02/19/20 16:58	02/21/20 18:43	1
Benzo[a]anthracene	0.26		0.040	0.0054	mg/Kg	☼	02/19/20 16:58	02/21/20 18:43	1

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Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177914-1

Client Sample ID: 3229V-14-B01 (0-5)

Lab Sample ID: 500-177914-2

Date Collected: 02/14/20 11:00

Matrix: Solid

Date Received: 02/14/20 15:38

Percent Solids: 79.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.33		0.040	0.0077	mg/Kg	☼	02/19/20 16:58	02/21/20 18:43	1
Benzo[b]fluoranthene	0.55		0.040	0.0086	mg/Kg	☼	02/19/20 16:58	02/21/20 18:43	1
Benzo[g,h,i]perylene	0.13		0.040	0.013	mg/Kg	☼	02/19/20 16:58	02/21/20 18:43	1
Benzo[k]fluoranthene	0.23		0.040	0.012	mg/Kg	☼	02/19/20 16:58	02/21/20 18:43	1
Bis(2-chloroethoxy)methane	<0.041		0.20	0.041	mg/Kg	☼	02/19/20 16:58	02/21/20 18:43	1
Bis(2-chloroethyl)ether	<0.060		0.20	0.060	mg/Kg	☼	02/19/20 16:58	02/21/20 18:43	1
Bis(2-ethylhexyl) phthalate	0.17	J	0.20	0.073	mg/Kg	☼	02/19/20 16:58	02/21/20 18:43	1
4-Bromophenyl phenyl ether	<0.053		0.20	0.053	mg/Kg	☼	02/19/20 16:58	02/21/20 18:43	1
Butyl benzyl phthalate	<0.076		0.20	0.076	mg/Kg	☼	02/19/20 16:58	02/21/20 18:43	1
Carbazole	<0.10		0.20	0.10	mg/Kg	☼	02/19/20 16:58	02/21/20 18:43	1
4-Chloroaniline	<0.19		0.80	0.19	mg/Kg	☼	02/19/20 16:58	02/21/20 18:43	1
4-Chloro-3-methylphenol	<0.14		0.40	0.14	mg/Kg	☼	02/19/20 16:58	02/21/20 18:43	1
2-Chloronaphthalene	<0.044		0.20	0.044	mg/Kg	☼	02/19/20 16:58	02/21/20 18:43	1
2-Chlorophenol	<0.068		0.20	0.068	mg/Kg	☼	02/19/20 16:58	02/21/20 18:43	1
4-Chlorophenyl phenyl ether	<0.047		0.20	0.047	mg/Kg	☼	02/19/20 16:58	02/21/20 18:43	1
Chrysene	0.35		0.040	0.011	mg/Kg	☼	02/19/20 16:58	02/21/20 18:43	1
Dibenz(a,h)anthracene	<0.0077		0.040	0.0077	mg/Kg	☼	02/19/20 16:58	02/21/20 18:43	1
Dibenzofuran	<0.047		0.20	0.047	mg/Kg	☼	02/19/20 16:58	02/21/20 18:43	1
1,2-Dichlorobenzene	<0.048		0.20	0.048	mg/Kg	☼	02/19/20 16:58	02/21/20 18:43	1
1,3-Dichlorobenzene	<0.045		0.20	0.045	mg/Kg	☼	02/19/20 16:58	02/21/20 18:43	1
1,4-Dichlorobenzene	<0.051		0.20	0.051	mg/Kg	☼	02/19/20 16:58	02/21/20 18:43	1
3,3'-Dichlorobenzidine	<0.056		0.20	0.056	mg/Kg	☼	02/19/20 16:58	02/21/20 18:43	1
2,4-Dichlorophenol	<0.095		0.40	0.095	mg/Kg	☼	02/19/20 16:58	02/21/20 18:43	1
Diethyl phthalate	<0.068		0.20	0.068	mg/Kg	☼	02/19/20 16:58	02/21/20 18:43	1
2,4-Dimethylphenol	<0.15		0.40	0.15	mg/Kg	☼	02/19/20 16:58	02/21/20 18:43	1
Dimethyl phthalate	<0.052		0.20	0.052	mg/Kg	☼	02/19/20 16:58	02/21/20 18:43	1
Di-n-butyl phthalate	<0.061		0.20	0.061	mg/Kg	☼	02/19/20 16:58	02/21/20 18:43	1
4,6-Dinitro-2-methylphenol	<0.32		0.80	0.32	mg/Kg	☼	02/19/20 16:58	02/21/20 18:43	1
2,4-Dinitrophenol	<0.70		0.80	0.70	mg/Kg	☼	02/19/20 16:58	02/21/20 18:43	1
2,4-Dinitrotoluene	<0.063		0.20	0.063	mg/Kg	☼	02/19/20 16:58	02/21/20 18:43	1
2,6-Dinitrotoluene	<0.078		0.20	0.078	mg/Kg	☼	02/19/20 16:58	02/21/20 18:43	1
Di-n-octyl phthalate	<0.065		0.20	0.065	mg/Kg	☼	02/19/20 16:58	02/21/20 18:43	1
Fluoranthene	0.68		0.040	0.0074	mg/Kg	☼	02/19/20 16:58	02/21/20 18:43	1
Fluorene	0.034	J	0.040	0.0056	mg/Kg	☼	02/19/20 16:58	02/21/20 18:43	1
Hexachlorobenzene	<0.0092		0.080	0.0092	mg/Kg	☼	02/19/20 16:58	02/21/20 18:43	1
Hexachlorobutadiene	<0.063		0.20	0.063	mg/Kg	☼	02/19/20 16:58	02/21/20 18:43	1
Hexachlorocyclopentadiene	<0.23		0.80	0.23	mg/Kg	☼	02/19/20 16:58	02/21/20 18:43	1
Hexachloroethane	<0.061		0.20	0.061	mg/Kg	☼	02/19/20 16:58	02/21/20 18:43	1
Indeno[1,2,3-cd]pyrene	0.11		0.040	0.010	mg/Kg	☼	02/19/20 16:58	02/21/20 18:43	1
Isophorone	<0.045		0.20	0.045	mg/Kg	☼	02/19/20 16:58	02/21/20 18:43	1
2-Methylnaphthalene	0.015	J	0.080	0.0073	mg/Kg	☼	02/19/20 16:58	02/21/20 18:43	1
2-Methylphenol	<0.064		0.20	0.064	mg/Kg	☼	02/19/20 16:58	02/21/20 18:43	1
3 & 4 Methylphenol	<0.066		0.20	0.066	mg/Kg	☼	02/19/20 16:58	02/21/20 18:43	1
Naphthalene	0.012	J	0.040	0.0061	mg/Kg	☼	02/19/20 16:58	02/21/20 18:43	1
2-Nitroaniline	<0.054		0.20	0.054	mg/Kg	☼	02/19/20 16:58	02/21/20 18:43	1
3-Nitroaniline	<0.12		0.40	0.12	mg/Kg	☼	02/19/20 16:58	02/21/20 18:43	1
4-Nitroaniline	<0.17		0.40	0.17	mg/Kg	☼	02/19/20 16:58	02/21/20 18:43	1
Nitrobenzene	<0.0099		0.040	0.0099	mg/Kg	☼	02/19/20 16:58	02/21/20 18:43	1
2-Nitrophenol	<0.094		0.40	0.094	mg/Kg	☼	02/19/20 16:58	02/21/20 18:43	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177914-1

Client Sample ID: 3229V-14-B01 (0-5)

Lab Sample ID: 500-177914-2

Date Collected: 02/14/20 11:00

Matrix: Solid

Date Received: 02/14/20 15:38

Percent Solids: 79.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.38		0.80	0.38	mg/Kg	☼	02/19/20 16:58	02/21/20 18:43	1
N-Nitrosodi-n-propylamine	<0.049		0.080	0.049	mg/Kg	☼	02/19/20 16:58	02/21/20 18:43	1
N-Nitrosodiphenylamine	<0.047		0.20	0.047	mg/Kg	☼	02/19/20 16:58	02/21/20 18:43	1
2,2'-oxybis[1-chloropropane]	<0.046		0.20	0.046	mg/Kg	☼	02/19/20 16:58	02/21/20 18:43	1
Pentachlorophenol	<0.64		0.80	0.64	mg/Kg	☼	02/19/20 16:58	02/21/20 18:43	1
Phenanthrene	0.38		0.040	0.0056	mg/Kg	☼	02/19/20 16:58	02/21/20 18:43	1
Phenol	<0.089		0.20	0.089	mg/Kg	☼	02/19/20 16:58	02/21/20 18:43	1
Pyrene	0.68		0.040	0.0079	mg/Kg	☼	02/19/20 16:58	02/21/20 18:43	1
1,2,4-Trichlorobenzene	<0.043		0.20	0.043	mg/Kg	☼	02/19/20 16:58	02/21/20 18:43	1
2,4,5-Trichlorophenol	<0.091		0.40	0.091	mg/Kg	☼	02/19/20 16:58	02/21/20 18:43	1
2,4,6-Trichlorophenol	<0.14		0.40	0.14	mg/Kg	☼	02/19/20 16:58	02/21/20 18:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	64		43 - 145	02/19/20 16:58	02/21/20 18:43	1
2-Fluorophenol	82		31 - 166	02/19/20 16:58	02/21/20 18:43	1
Nitrobenzene-d5	65		37 - 147	02/19/20 16:58	02/21/20 18:43	1
Phenol-d5	86		30 - 153	02/19/20 16:58	02/21/20 18:43	1
Terphenyl-d14	137		42 - 157	02/19/20 16:58	02/21/20 18:43	1
2,4,6-Tribromophenol	83		31 - 143	02/19/20 16:58	02/21/20 18:43	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.74	J	1.2	0.24	mg/Kg	☼	02/19/20 16:44	02/20/20 18:28	1
Arsenic	6.4		0.61	0.21	mg/Kg	☼	02/19/20 16:44	02/20/20 18:28	1
Barium	86		0.61	0.070	mg/Kg	☼	02/19/20 16:44	02/20/20 18:28	1
Beryllium	0.89		0.25	0.057	mg/Kg	☼	02/19/20 16:44	02/20/20 18:28	1
Cadmium	0.51	B	0.12	0.022	mg/Kg	☼	02/19/20 16:44	02/20/20 18:28	1
Chromium	27		0.61	0.30	mg/Kg	☼	02/19/20 16:44	02/20/20 18:28	1
Cobalt	11		0.31	0.080	mg/Kg	☼	02/19/20 16:44	02/20/20 18:28	1
Copper	24		0.61	0.17	mg/Kg	☼	02/19/20 16:44	02/20/20 18:28	1
Iron	19000	B	12	6.4	mg/Kg	☼	02/19/20 16:44	02/20/20 18:28	1
Lead	240		0.31	0.14	mg/Kg	☼	02/19/20 16:44	02/20/20 18:28	1
Magnesium	17000		6.1	3.0	mg/Kg	☼	02/19/20 16:44	02/20/20 18:28	1
Calcium	28000	B	12	2.1	mg/Kg	☼	02/19/20 16:44	02/20/20 18:28	1
Manganese	360	B	0.61	0.089	mg/Kg	☼	02/19/20 16:44	02/20/20 18:28	1
Nickel	29		0.61	0.18	mg/Kg	☼	02/19/20 16:44	02/20/20 18:28	1
Selenium	<0.36		0.61	0.36	mg/Kg	☼	02/19/20 16:44	02/20/20 18:28	1
Silver	0.18	J	0.31	0.079	mg/Kg	☼	02/19/20 16:44	02/20/20 18:28	1
Thallium	1.6		0.61	0.31	mg/Kg	☼	02/19/20 16:44	02/20/20 18:28	1
Vanadium	27		0.31	0.072	mg/Kg	☼	02/19/20 16:44	02/20/20 18:28	1
Zinc	150	B	1.2	0.54	mg/Kg	☼	02/19/20 16:44	02/20/20 18:28	1
Potassium	2700		31	11	mg/Kg	☼	02/19/20 16:44	02/20/20 18:28	1
Sodium	1300		61	9.1	mg/Kg	☼	02/19/20 16:44	02/20/20 18:28	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		02/20/20 14:45	02/21/20 11:36	1
Barium	0.50		0.50	0.050	mg/L		02/20/20 14:45	02/21/20 11:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/20/20 14:45	02/21/20 11:36	1
Cadmium	0.0038	J	0.0050	0.0020	mg/L		02/20/20 14:45	02/21/20 11:36	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177914-1

Client Sample ID: 3229V-14-B01 (0-5)

Lab Sample ID: 500-177914-2

Date Collected: 02/14/20 11:00

Matrix: Solid

Date Received: 02/14/20 15:38

Percent Solids: 79.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	290		5.0	0.50	mg/L		02/20/20 14:45	02/21/20 11:36	1
Chromium	<0.010		0.025	0.010	mg/L		02/20/20 14:45	02/21/20 11:36	1
Cobalt	0.026		0.025	0.010	mg/L		02/20/20 14:45	02/21/20 11:36	1
Copper	<0.010		0.025	0.010	mg/L		02/20/20 14:45	02/21/20 11:36	1
Iron	<0.20		0.40	0.20	mg/L		02/20/20 14:45	02/21/20 11:36	1
Lead	0.053		0.0075	0.0075	mg/L		02/20/20 14:45	02/21/20 11:36	1
Magnesium	45		2.5	0.50	mg/L		02/20/20 14:45	02/21/20 11:36	1
Manganese	4.1		0.025	0.010	mg/L		02/20/20 14:45	02/21/20 11:36	1
Nickel	0.018	J	0.025	0.010	mg/L		02/20/20 14:45	02/21/20 11:36	1
Potassium	3.0		2.5	0.50	mg/L		02/20/20 14:45	02/21/20 11:36	1
Selenium	<0.020		0.050	0.020	mg/L		02/20/20 14:45	02/21/20 11:36	1
Silver	<0.010		0.025	0.010	mg/L		02/20/20 14:45	02/21/20 11:36	1
Vanadium	<0.010		0.025	0.010	mg/L		02/20/20 14:45	02/21/20 11:36	1
Zinc	0.16	J	0.50	0.020	mg/L		02/20/20 14:45	02/21/20 11:36	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1.1		0.0075	0.0075	mg/L		02/20/20 14:43	02/21/20 10:54	1
Manganese	1.0		0.025	0.010	mg/L		02/20/20 14:43	02/21/20 10:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/20/20 14:45	02/21/20 23:06	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/20/20 14:45	02/21/20 23:06	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/21/20 10:55	02/24/20 08:35	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.039		0.020	0.0066	mg/Kg	☼	02/24/20 15:45	02/25/20 08:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.29		0.58	0.29	mg/Kg	☼	02/25/20 15:25	02/26/20 10:17	1
pH	8.7		0.2	0.2	SU			02/19/20 14:16	1

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177914-1

Client Sample ID: 3229V-14-B01 (0-5) Dup

Lab Sample ID: 500-177914-3

Date Collected: 02/14/20 11:05

Matrix: Solid

Date Received: 02/14/20 15:38

Percent Solids: 76.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.014	J	0.021	0.0090	mg/Kg	☼	02/14/20 17:08	02/21/20 12:53	1
Benzene	<0.00053		0.0021	0.00053	mg/Kg	☼	02/14/20 17:08	02/21/20 12:53	1
Bromodichloromethane	<0.00042		0.0021	0.00042	mg/Kg	☼	02/14/20 17:08	02/21/20 12:53	1
Bromoform	<0.00060		0.0021	0.00060	mg/Kg	☼	02/14/20 17:08	02/21/20 12:53	1
Bromomethane	<0.0019		0.0052	0.0019	mg/Kg	☼	02/14/20 17:08	02/21/20 12:53	1
2-Butanone (MEK)	<0.0023		0.0052	0.0023	mg/Kg	☼	02/14/20 17:08	02/21/20 12:53	1
Carbon disulfide	<0.0011		0.0052	0.0011	mg/Kg	☼	02/14/20 17:08	02/21/20 12:53	1
Carbon tetrachloride	<0.00060		0.0021	0.00060	mg/Kg	☼	02/14/20 17:08	02/21/20 12:53	1
Chlorobenzene	<0.00076		0.0021	0.00076	mg/Kg	☼	02/14/20 17:08	02/21/20 12:53	1
Chloroethane	<0.0015		0.0052	0.0015	mg/Kg	☼	02/14/20 17:08	02/21/20 12:53	1
Chloroform	<0.00072		0.0021	0.00072	mg/Kg	☼	02/14/20 17:08	02/21/20 12:53	1
Chloromethane	<0.0021		0.0052	0.0021	mg/Kg	☼	02/14/20 17:08	02/21/20 12:53	1
cis-1,2-Dichloroethene	<0.00058		0.0021	0.00058	mg/Kg	☼	02/14/20 17:08	02/21/20 12:53	1
cis-1,3-Dichloropropene	<0.00062		0.0021	0.00062	mg/Kg	☼	02/14/20 17:08	02/21/20 12:53	1
Dibromochloromethane	<0.00067		0.0021	0.00067	mg/Kg	☼	02/14/20 17:08	02/21/20 12:53	1
1,1-Dichloroethane	<0.00071		0.0021	0.00071	mg/Kg	☼	02/14/20 17:08	02/21/20 12:53	1
1,2-Dichloroethane	<0.0016		0.0052	0.0016	mg/Kg	☼	02/14/20 17:08	02/21/20 12:53	1
1,1-Dichloroethene	<0.00071		0.0021	0.00071	mg/Kg	☼	02/14/20 17:08	02/21/20 12:53	1
1,2-Dichloropropane	<0.00053		0.0021	0.00053	mg/Kg	☼	02/14/20 17:08	02/21/20 12:53	1
1,3-Dichloropropane, Total	<0.00072		0.0021	0.00072	mg/Kg	☼	02/14/20 17:08	02/21/20 12:53	1
Ethylbenzene	<0.00099		0.0021	0.00099	mg/Kg	☼	02/14/20 17:08	02/21/20 12:53	1
2-Hexanone	<0.0016		0.0052	0.0016	mg/Kg	☼	02/14/20 17:08	02/21/20 12:53	1
Methylene Chloride	<0.0020		0.0052	0.0020	mg/Kg	☼	02/14/20 17:08	02/21/20 12:53	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0052	0.0015	mg/Kg	☼	02/14/20 17:08	02/21/20 12:53	1
Methyl tert-butyl ether	<0.00060		0.0021	0.00060	mg/Kg	☼	02/14/20 17:08	02/21/20 12:53	1
Styrene	<0.00062		0.0021	0.00062	mg/Kg	☼	02/14/20 17:08	02/21/20 12:53	1
1,1,2,2-Tetrachloroethane	<0.00066		0.0021	0.00066	mg/Kg	☼	02/14/20 17:08	02/21/20 12:53	1
Tetrachloroethene	<0.00070		0.0021	0.00070	mg/Kg	☼	02/14/20 17:08	02/21/20 12:53	1
Toluene	<0.00052		0.0021	0.00052	mg/Kg	☼	02/14/20 17:08	02/21/20 12:53	1
trans-1,2-Dichloroethene	<0.00091		0.0021	0.00091	mg/Kg	☼	02/14/20 17:08	02/21/20 12:53	1
trans-1,3-Dichloropropene	<0.00072		0.0021	0.00072	mg/Kg	☼	02/14/20 17:08	02/21/20 12:53	1
1,1,1-Trichloroethane	<0.00069		0.0021	0.00069	mg/Kg	☼	02/14/20 17:08	02/21/20 12:53	1
1,1,2-Trichloroethane	<0.00088		0.0021	0.00088	mg/Kg	☼	02/14/20 17:08	02/21/20 12:53	1
Trichloroethene	<0.00070		0.0021	0.00070	mg/Kg	☼	02/14/20 17:08	02/21/20 12:53	1
Vinyl acetate	<0.0018		0.0052	0.0018	mg/Kg	☼	02/14/20 17:08	02/21/20 12:53	1
Vinyl chloride	<0.00091		0.0021	0.00091	mg/Kg	☼	02/14/20 17:08	02/21/20 12:53	1
Xylenes, Total	<0.00066		0.0041	0.00066	mg/Kg	☼	02/14/20 17:08	02/21/20 12:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		75 - 131	02/14/20 17:08	02/21/20 12:53	1
Dibromofluoromethane	105		75 - 126	02/14/20 17:08	02/21/20 12:53	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134	02/14/20 17:08	02/21/20 12:53	1
Toluene-d8 (Surr)	90		75 - 124	02/14/20 17:08	02/21/20 12:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.026	J	0.042	0.0076	mg/Kg	☼	02/19/20 16:58	02/21/20 03:25	1
Acenaphthylene	<0.0055		0.042	0.0055	mg/Kg	☼	02/19/20 16:58	02/21/20 03:25	1
Anthracene	0.080		0.042	0.0070	mg/Kg	☼	02/19/20 16:58	02/21/20 03:25	1
Benzo[a]anthracene	0.34		0.042	0.0057	mg/Kg	☼	02/19/20 16:58	02/21/20 03:25	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177914-1

Client Sample ID: 3229V-14-B01 (0-5) Dup

Lab Sample ID: 500-177914-3

Date Collected: 02/14/20 11:05

Matrix: Solid

Date Received: 02/14/20 15:38

Percent Solids: 76.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.41		0.042	0.0081	mg/Kg	☼	02/19/20 16:58	02/21/20 03:25	1
Benzo[b]fluoranthene	0.60		0.042	0.0091	mg/Kg	☼	02/19/20 16:58	02/21/20 03:25	1
Benzo[g,h,i]perylene	0.14		0.042	0.014	mg/Kg	☼	02/19/20 16:58	02/21/20 03:25	1
Benzo[k]fluoranthene	0.20		0.042	0.012	mg/Kg	☼	02/19/20 16:58	02/21/20 03:25	1
Bis(2-chloroethoxy)methane	<0.043		0.21	0.043	mg/Kg	☼	02/19/20 16:58	02/21/20 03:25	1
Bis(2-chloroethyl)ether	<0.063		0.21	0.063	mg/Kg	☼	02/19/20 16:58	02/21/20 03:25	1
Bis(2-ethylhexyl) phthalate	0.37		0.21	0.077	mg/Kg	☼	02/19/20 16:58	02/21/20 03:25	1
4-Bromophenyl phenyl ether	<0.055		0.21	0.055	mg/Kg	☼	02/19/20 16:58	02/21/20 03:25	1
Butyl benzyl phthalate	<0.080		0.21	0.080	mg/Kg	☼	02/19/20 16:58	02/21/20 03:25	1
Carbazole	<0.11		0.21	0.11	mg/Kg	☼	02/19/20 16:58	02/21/20 03:25	1
4-Chloroaniline	<0.20		0.85	0.20	mg/Kg	☼	02/19/20 16:58	02/21/20 03:25	1
4-Chloro-3-methylphenol	<0.14		0.42	0.14	mg/Kg	☼	02/19/20 16:58	02/21/20 03:25	1
2-Chloronaphthalene	<0.046		0.21	0.046	mg/Kg	☼	02/19/20 16:58	02/21/20 03:25	1
2-Chlorophenol	<0.072		0.21	0.072	mg/Kg	☼	02/19/20 16:58	02/21/20 03:25	1
4-Chlorophenyl phenyl ether	<0.049		0.21	0.049	mg/Kg	☼	02/19/20 16:58	02/21/20 03:25	1
Chrysene	0.39		0.042	0.011	mg/Kg	☼	02/19/20 16:58	02/21/20 03:25	1
Dibenz(a,h)anthracene	0.052		0.042	0.0081	mg/Kg	☼	02/19/20 16:58	02/21/20 03:25	1
Dibenzofuran	<0.049		0.21	0.049	mg/Kg	☼	02/19/20 16:58	02/21/20 03:25	1
1,2-Dichlorobenzene	<0.050		0.21	0.050	mg/Kg	☼	02/19/20 16:58	02/21/20 03:25	1
1,3-Dichlorobenzene	<0.047		0.21	0.047	mg/Kg	☼	02/19/20 16:58	02/21/20 03:25	1
1,4-Dichlorobenzene	<0.054		0.21	0.054	mg/Kg	☼	02/19/20 16:58	02/21/20 03:25	1
3,3'-Dichlorobenzidine	<0.059		0.21	0.059	mg/Kg	☼	02/19/20 16:58	02/21/20 03:25	1
2,4-Dichlorophenol	<0.10		0.42	0.10	mg/Kg	☼	02/19/20 16:58	02/21/20 03:25	1
Diethyl phthalate	<0.071		0.21	0.071	mg/Kg	☼	02/19/20 16:58	02/21/20 03:25	1
2,4-Dimethylphenol	<0.16		0.42	0.16	mg/Kg	☼	02/19/20 16:58	02/21/20 03:25	1
Dimethyl phthalate	<0.055		0.21	0.055	mg/Kg	☼	02/19/20 16:58	02/21/20 03:25	1
Di-n-butyl phthalate	<0.064		0.21	0.064	mg/Kg	☼	02/19/20 16:58	02/21/20 03:25	1
4,6-Dinitro-2-methylphenol	<0.34		0.85	0.34	mg/Kg	☼	02/19/20 16:58	02/21/20 03:25	1
2,4-Dinitrophenol	<0.74		0.85	0.74	mg/Kg	☼	02/19/20 16:58	02/21/20 03:25	1
2,4-Dinitrotoluene	<0.067		0.21	0.067	mg/Kg	☼	02/19/20 16:58	02/21/20 03:25	1
2,6-Dinitrotoluene	<0.083		0.21	0.083	mg/Kg	☼	02/19/20 16:58	02/21/20 03:25	1
Di-n-octyl phthalate	<0.069		0.21	0.069	mg/Kg	☼	02/19/20 16:58	02/21/20 03:25	1
Fluoranthene	0.73		0.042	0.0078	mg/Kg	☼	02/19/20 16:58	02/21/20 03:25	1
Fluorene	0.024 J		0.042	0.0059	mg/Kg	☼	02/19/20 16:58	02/21/20 03:25	1
Hexachlorobenzene	<0.0097		0.085	0.0097	mg/Kg	☼	02/19/20 16:58	02/21/20 03:25	1
Hexachlorobutadiene	<0.066		0.21	0.066	mg/Kg	☼	02/19/20 16:58	02/21/20 03:25	1
Hexachlorocyclopentadiene	<0.24		0.85	0.24	mg/Kg	☼	02/19/20 16:58	02/21/20 03:25	1
Hexachloroethane	<0.064		0.21	0.064	mg/Kg	☼	02/19/20 16:58	02/21/20 03:25	1
Indeno[1,2,3-cd]pyrene	0.17		0.042	0.011	mg/Kg	☼	02/19/20 16:58	02/21/20 03:25	1
Isophorone	<0.047		0.21	0.047	mg/Kg	☼	02/19/20 16:58	02/21/20 03:25	1
2-Methylnaphthalene	<0.0077		0.085	0.0077	mg/Kg	☼	02/19/20 16:58	02/21/20 03:25	1
2-Methylphenol	<0.067		0.21	0.067	mg/Kg	☼	02/19/20 16:58	02/21/20 03:25	1
3 & 4 Methylphenol	<0.070		0.21	0.070	mg/Kg	☼	02/19/20 16:58	02/21/20 03:25	1
Naphthalene	0.016 J		0.042	0.0065	mg/Kg	☼	02/19/20 16:58	02/21/20 03:25	1
2-Nitroaniline	<0.057		0.21	0.057	mg/Kg	☼	02/19/20 16:58	02/21/20 03:25	1
3-Nitroaniline	<0.13		0.42	0.13	mg/Kg	☼	02/19/20 16:58	02/21/20 03:25	1
4-Nitroaniline	<0.18		0.42	0.18	mg/Kg	☼	02/19/20 16:58	02/21/20 03:25	1
Nitrobenzene	<0.010		0.042	0.010	mg/Kg	☼	02/19/20 16:58	02/21/20 03:25	1
2-Nitrophenol	<0.099		0.42	0.099	mg/Kg	☼	02/19/20 16:58	02/21/20 03:25	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177914-1

Client Sample ID: 3229V-14-B01 (0-5) Dup

Lab Sample ID: 500-177914-3

Date Collected: 02/14/20 11:05

Matrix: Solid

Date Received: 02/14/20 15:38

Percent Solids: 76.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.40		0.85	0.40	mg/Kg	☼	02/19/20 16:58	02/21/20 03:25	1
N-Nitrosodi-n-propylamine	<0.051		0.085	0.051	mg/Kg	☼	02/19/20 16:58	02/21/20 03:25	1
N-Nitrosodiphenylamine	<0.050		0.21	0.050	mg/Kg	☼	02/19/20 16:58	02/21/20 03:25	1
2,2'-oxybis[1-chloropropane]	<0.049		0.21	0.049	mg/Kg	☼	02/19/20 16:58	02/21/20 03:25	1
Pentachlorophenol	<0.67		0.85	0.67	mg/Kg	☼	02/19/20 16:58	02/21/20 03:25	1
Phenanthrene	0.33		0.042	0.0059	mg/Kg	☼	02/19/20 16:58	02/21/20 03:25	1
Phenol	<0.093		0.21	0.093	mg/Kg	☼	02/19/20 16:58	02/21/20 03:25	1
Pyrene	0.81		0.042	0.0084	mg/Kg	☼	02/19/20 16:58	02/21/20 03:25	1
1,2,4-Trichlorobenzene	<0.045		0.21	0.045	mg/Kg	☼	02/19/20 16:58	02/21/20 03:25	1
2,4,5-Trichlorophenol	<0.096		0.42	0.096	mg/Kg	☼	02/19/20 16:58	02/21/20 03:25	1
2,4,6-Trichlorophenol	<0.14		0.42	0.14	mg/Kg	☼	02/19/20 16:58	02/21/20 03:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	70		43 - 145				02/19/20 16:58	02/21/20 03:25	1
2-Fluorophenol	102		31 - 166				02/19/20 16:58	02/21/20 03:25	1
Nitrobenzene-d5	67		37 - 147				02/19/20 16:58	02/21/20 03:25	1
Phenol-d5	93		30 - 153				02/19/20 16:58	02/21/20 03:25	1
Terphenyl-d14	159	X	42 - 157				02/19/20 16:58	02/21/20 03:25	1
2,4,6-Tribromophenol	48		31 - 143				02/19/20 16:58	02/21/20 03:25	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.48	J	1.2	0.24	mg/Kg	☼	02/19/20 16:44	02/20/20 18:32	1
Arsenic	6.6		0.61	0.21	mg/Kg	☼	02/19/20 16:44	02/20/20 18:32	1
Barium	83		0.61	0.070	mg/Kg	☼	02/19/20 16:44	02/20/20 18:32	1
Beryllium	0.95		0.25	0.057	mg/Kg	☼	02/19/20 16:44	02/20/20 18:32	1
Cadmium	0.42	B	0.12	0.022	mg/Kg	☼	02/19/20 16:44	02/20/20 18:32	1
Chromium	26		0.61	0.30	mg/Kg	☼	02/19/20 16:44	02/20/20 18:32	1
Cobalt	12		0.31	0.080	mg/Kg	☼	02/19/20 16:44	02/20/20 18:32	1
Copper	21		0.61	0.17	mg/Kg	☼	02/19/20 16:44	02/20/20 18:32	1
Iron	22000	B	12	6.4	mg/Kg	☼	02/19/20 16:44	02/20/20 18:32	1
Lead	120		0.31	0.14	mg/Kg	☼	02/19/20 16:44	02/20/20 18:32	1
Magnesium	16000		6.1	3.0	mg/Kg	☼	02/19/20 16:44	02/20/20 18:32	1
Calcium	29000	B	12	2.1	mg/Kg	☼	02/19/20 16:44	02/20/20 18:32	1
Manganese	510	B	0.61	0.089	mg/Kg	☼	02/19/20 16:44	02/20/20 18:32	1
Nickel	32		0.61	0.18	mg/Kg	☼	02/19/20 16:44	02/20/20 18:32	1
Selenium	<0.36		0.61	0.36	mg/Kg	☼	02/19/20 16:44	02/20/20 18:32	1
Silver	0.24	J	0.31	0.079	mg/Kg	☼	02/19/20 16:44	02/20/20 18:32	1
Thallium	1.3		0.61	0.31	mg/Kg	☼	02/19/20 16:44	02/20/20 18:32	1
Vanadium	27		0.31	0.072	mg/Kg	☼	02/19/20 16:44	02/20/20 18:32	1
Zinc	110	B	1.2	0.54	mg/Kg	☼	02/19/20 16:44	02/20/20 18:32	1
Potassium	2800		31	11	mg/Kg	☼	02/19/20 16:44	02/20/20 18:32	1
Sodium	1300		61	9.1	mg/Kg	☼	02/19/20 16:44	02/20/20 18:32	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		02/20/20 14:45	02/21/20 11:40	1
Barium	0.54		0.50	0.050	mg/L		02/20/20 14:45	02/21/20 11:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/20/20 14:45	02/21/20 11:40	1
Cadmium	0.0039	J	0.0050	0.0020	mg/L		02/20/20 14:45	02/21/20 11:40	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177914-1

Client Sample ID: 3229V-14-B01 (0-5) Dup

Lab Sample ID: 500-177914-3

Date Collected: 02/14/20 11:05

Matrix: Solid

Date Received: 02/14/20 15:38

Percent Solids: 76.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	300		5.0	0.50	mg/L		02/20/20 14:45	02/21/20 11:40	1
Chromium	<0.010		0.025	0.010	mg/L		02/20/20 14:45	02/21/20 11:40	1
Cobalt	0.027		0.025	0.010	mg/L		02/20/20 14:45	02/21/20 11:40	1
Copper	<0.010		0.025	0.010	mg/L		02/20/20 14:45	02/21/20 11:40	1
Iron	<0.20		0.40	0.20	mg/L		02/20/20 14:45	02/21/20 11:40	1
Lead	0.040		0.0075	0.0075	mg/L		02/20/20 14:45	02/21/20 11:40	1
Magnesium	45		2.5	0.50	mg/L		02/20/20 14:45	02/21/20 11:40	1
Manganese	5.4		0.025	0.010	mg/L		02/20/20 14:45	02/21/20 11:40	1
Nickel	0.019	J	0.025	0.010	mg/L		02/20/20 14:45	02/21/20 11:40	1
Potassium	3.2		2.5	0.50	mg/L		02/20/20 14:45	02/21/20 11:40	1
Selenium	<0.020		0.050	0.020	mg/L		02/20/20 14:45	02/21/20 11:40	1
Silver	<0.010		0.025	0.010	mg/L		02/20/20 14:45	02/21/20 11:40	1
Vanadium	<0.010		0.025	0.010	mg/L		02/20/20 14:45	02/21/20 11:40	1
Zinc	0.21	J	0.50	0.020	mg/L		02/20/20 14:45	02/21/20 11:40	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.57		0.0075	0.0075	mg/L		02/20/20 14:43	02/21/20 10:58	1
Manganese	0.87		0.025	0.010	mg/L		02/20/20 14:43	02/21/20 10:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/20/20 14:45	02/21/20 23:12	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/20/20 14:45	02/21/20 23:12	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/21/20 10:55	02/24/20 08:37	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.042		0.021	0.0070	mg/Kg	☼	02/24/20 15:45	02/25/20 08:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.32		0.64	0.32	mg/Kg	☼	02/25/20 15:25	02/26/20 10:17	1
pH	8.7		0.2	0.2	SU			02/19/20 14:18	1

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177914-1

Client Sample ID: 3229V-14-B01 (5-10)

Lab Sample ID: 500-177914-4

Date Collected: 02/14/20 11:10

Matrix: Solid

Date Received: 02/14/20 15:38

Percent Solids: 74.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.026		0.019	0.0085	mg/Kg	☼	02/14/20 17:08	02/19/20 15:47	1
Benzene	<0.00049		0.0019	0.00049	mg/Kg	☼	02/14/20 17:08	02/19/20 15:47	1
Bromodichloromethane	<0.00039		0.0019	0.00039	mg/Kg	☼	02/14/20 17:08	02/19/20 15:47	1
Bromoform	<0.00057		0.0019	0.00057	mg/Kg	☼	02/14/20 17:08	02/19/20 15:47	1
Bromomethane	<0.0018		0.0049	0.0018	mg/Kg	☼	02/14/20 17:08	02/19/20 15:47	1
2-Butanone (MEK)	<0.0022		0.0049	0.0022	mg/Kg	☼	02/14/20 17:08	02/19/20 15:47	1
Carbon disulfide	<0.0010		0.0049	0.0010	mg/Kg	☼	02/14/20 17:08	02/19/20 15:47	1
Carbon tetrachloride	<0.00056		0.0019	0.00056	mg/Kg	☼	02/14/20 17:08	02/19/20 15:47	1
Chlorobenzene	<0.00072		0.0019	0.00072	mg/Kg	☼	02/14/20 17:08	02/19/20 15:47	1
Chloroethane	<0.0014 *		0.0049	0.0014	mg/Kg	☼	02/14/20 17:08	02/19/20 15:47	1
Chloroform	<0.00067		0.0019	0.00067	mg/Kg	☼	02/14/20 17:08	02/19/20 15:47	1
Chloromethane	<0.0020		0.0049	0.0020	mg/Kg	☼	02/14/20 17:08	02/19/20 15:47	1
cis-1,2-Dichloroethene	<0.00054		0.0019	0.00054	mg/Kg	☼	02/14/20 17:08	02/19/20 15:47	1
cis-1,3-Dichloropropene	<0.00059		0.0019	0.00059	mg/Kg	☼	02/14/20 17:08	02/19/20 15:47	1
Dibromochloromethane	<0.00063		0.0019	0.00063	mg/Kg	☼	02/14/20 17:08	02/19/20 15:47	1
1,1-Dichloroethane	<0.00066		0.0019	0.00066	mg/Kg	☼	02/14/20 17:08	02/19/20 15:47	1
1,2-Dichloroethane	<0.0015		0.0049	0.0015	mg/Kg	☼	02/14/20 17:08	02/19/20 15:47	1
1,1-Dichloroethene	<0.00067		0.0019	0.00067	mg/Kg	☼	02/14/20 17:08	02/19/20 15:47	1
1,2-Dichloropropane	<0.00050		0.0019	0.00050	mg/Kg	☼	02/14/20 17:08	02/19/20 15:47	1
1,3-Dichloropropane, Total	<0.00068		0.0019	0.00068	mg/Kg	☼	02/14/20 17:08	02/19/20 15:47	1
Ethylbenzene	<0.00093		0.0019	0.00093	mg/Kg	☼	02/14/20 17:08	02/19/20 15:47	1
2-Hexanone	<0.0015		0.0049	0.0015	mg/Kg	☼	02/14/20 17:08	02/19/20 15:47	1
Methylene Chloride	<0.0019		0.0049	0.0019	mg/Kg	☼	02/14/20 17:08	02/19/20 15:47	1
4-Methyl-2-pentanone (MIBK)	<0.0014		0.0049	0.0014	mg/Kg	☼	02/14/20 17:08	02/19/20 15:47	1
Methyl tert-butyl ether	<0.00057		0.0019	0.00057	mg/Kg	☼	02/14/20 17:08	02/19/20 15:47	1
Styrene	<0.00059		0.0019	0.00059	mg/Kg	☼	02/14/20 17:08	02/19/20 15:47	1
1,1,2,2-Tetrachloroethane	<0.00062		0.0019	0.00062	mg/Kg	☼	02/14/20 17:08	02/19/20 15:47	1
Tetrachloroethene	<0.00066		0.0019	0.00066	mg/Kg	☼	02/14/20 17:08	02/19/20 15:47	1
Toluene	<0.00049		0.0019	0.00049	mg/Kg	☼	02/14/20 17:08	02/19/20 15:47	1
trans-1,2-Dichloroethene	<0.00086		0.0019	0.00086	mg/Kg	☼	02/14/20 17:08	02/19/20 15:47	1
trans-1,3-Dichloropropene	<0.00068		0.0019	0.00068	mg/Kg	☼	02/14/20 17:08	02/19/20 15:47	1
1,1,1-Trichloroethane	<0.00065		0.0019	0.00065	mg/Kg	☼	02/14/20 17:08	02/19/20 15:47	1
1,1,2-Trichloroethane	<0.00083		0.0019	0.00083	mg/Kg	☼	02/14/20 17:08	02/19/20 15:47	1
Trichloroethene	<0.00066		0.0019	0.00066	mg/Kg	☼	02/14/20 17:08	02/19/20 15:47	1
Vinyl acetate	<0.0017		0.0049	0.0017	mg/Kg	☼	02/14/20 17:08	02/19/20 15:47	1
Vinyl chloride	<0.00086		0.0019	0.00086	mg/Kg	☼	02/14/20 17:08	02/19/20 15:47	1
Xylenes, Total	<0.00062		0.0039	0.00062	mg/Kg	☼	02/14/20 17:08	02/19/20 15:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		75 - 131	02/14/20 17:08	02/19/20 15:47	1
Dibromofluoromethane	95		75 - 126	02/14/20 17:08	02/19/20 15:47	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	02/14/20 17:08	02/19/20 15:47	1
Toluene-d8 (Surr)	95		75 - 124	02/14/20 17:08	02/19/20 15:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0080		0.044	0.0080	mg/Kg	☼	02/19/20 16:58	02/21/20 15:38	1
Acenaphthylene	<0.0059		0.044	0.0059	mg/Kg	☼	02/19/20 16:58	02/21/20 15:38	1
Anthracene	0.0097	J	0.044	0.0075	mg/Kg	☼	02/19/20 16:58	02/21/20 15:38	1
Benzo[a]anthracene	0.035	J	0.044	0.0060	mg/Kg	☼	02/19/20 16:58	02/21/20 15:38	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177914-1

Client Sample ID: 3229V-14-B01 (5-10)

Lab Sample ID: 500-177914-4

Date Collected: 02/14/20 11:10

Matrix: Solid

Date Received: 02/14/20 15:38

Percent Solids: 74.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.032	J	0.044	0.0086	mg/Kg	☼	02/19/20 16:58	02/21/20 15:38	1
Benzo[b]fluoranthene	0.042	J	0.044	0.0096	mg/Kg	☼	02/19/20 16:58	02/21/20 15:38	1
Benzo[g,h,i]perylene	0.015	J	0.044	0.014	mg/Kg	☼	02/19/20 16:58	02/21/20 15:38	1
Benzo[k]fluoranthene	<0.013		0.044	0.013	mg/Kg	☼	02/19/20 16:58	02/21/20 15:38	1
Bis(2-chloroethoxy)methane	<0.046		0.22	0.046	mg/Kg	☼	02/19/20 16:58	02/21/20 15:38	1
Bis(2-chloroethyl)ether	<0.067		0.22	0.067	mg/Kg	☼	02/19/20 16:58	02/21/20 15:38	1
Bis(2-ethylhexyl) phthalate	<0.082		0.22	0.082	mg/Kg	☼	02/19/20 16:58	02/21/20 15:38	1
4-Bromophenyl phenyl ether	<0.059		0.22	0.059	mg/Kg	☼	02/19/20 16:58	02/21/20 15:38	1
Butyl benzyl phthalate	<0.085		0.22	0.085	mg/Kg	☼	02/19/20 16:58	02/21/20 15:38	1
Carbazole	<0.11		0.22	0.11	mg/Kg	☼	02/19/20 16:58	02/21/20 15:38	1
4-Chloroaniline	<0.21		0.90	0.21	mg/Kg	☼	02/19/20 16:58	02/21/20 15:38	1
4-Chloro-3-methylphenol	<0.15		0.44	0.15	mg/Kg	☼	02/19/20 16:58	02/21/20 15:38	1
2-Chloronaphthalene	<0.049		0.22	0.049	mg/Kg	☼	02/19/20 16:58	02/21/20 15:38	1
2-Chlorophenol	<0.076		0.22	0.076	mg/Kg	☼	02/19/20 16:58	02/21/20 15:38	1
4-Chlorophenyl phenyl ether	<0.052		0.22	0.052	mg/Kg	☼	02/19/20 16:58	02/21/20 15:38	1
Chrysene	0.036	J	0.044	0.012	mg/Kg	☼	02/19/20 16:58	02/21/20 15:38	1
Dibenz(a,h)anthracene	<0.0086		0.044	0.0086	mg/Kg	☼	02/19/20 16:58	02/21/20 15:38	1
Dibenzofuran	<0.052		0.22	0.052	mg/Kg	☼	02/19/20 16:58	02/21/20 15:38	1
1,2-Dichlorobenzene	<0.053		0.22	0.053	mg/Kg	☼	02/19/20 16:58	02/21/20 15:38	1
1,3-Dichlorobenzene	<0.050		0.22	0.050	mg/Kg	☼	02/19/20 16:58	02/21/20 15:38	1
1,4-Dichlorobenzene	<0.057		0.22	0.057	mg/Kg	☼	02/19/20 16:58	02/21/20 15:38	1
3,3'-Dichlorobenzidine	<0.062		0.22	0.062	mg/Kg	☼	02/19/20 16:58	02/21/20 15:38	1
2,4-Dichlorophenol	<0.11		0.44	0.11	mg/Kg	☼	02/19/20 16:58	02/21/20 15:38	1
Diethyl phthalate	<0.076		0.22	0.076	mg/Kg	☼	02/19/20 16:58	02/21/20 15:38	1
2,4-Dimethylphenol	<0.17		0.44	0.17	mg/Kg	☼	02/19/20 16:58	02/21/20 15:38	1
Dimethyl phthalate	<0.058		0.22	0.058	mg/Kg	☼	02/19/20 16:58	02/21/20 15:38	1
Di-n-butyl phthalate	<0.068		0.22	0.068	mg/Kg	☼	02/19/20 16:58	02/21/20 15:38	1
4,6-Dinitro-2-methylphenol	<0.36		0.90	0.36	mg/Kg	☼	02/19/20 16:58	02/21/20 15:38	1
2,4-Dinitrophenol	<0.79		0.90	0.79	mg/Kg	☼	02/19/20 16:58	02/21/20 15:38	1
2,4-Dinitrotoluene	<0.071		0.22	0.071	mg/Kg	☼	02/19/20 16:58	02/21/20 15:38	1
2,6-Dinitrotoluene	<0.088		0.22	0.088	mg/Kg	☼	02/19/20 16:58	02/21/20 15:38	1
Di-n-octyl phthalate	<0.073		0.22	0.073	mg/Kg	☼	02/19/20 16:58	02/21/20 15:38	1
Fluoranthene	0.082		0.044	0.0083	mg/Kg	☼	02/19/20 16:58	02/21/20 15:38	1
Fluorene	<0.0063		0.044	0.0063	mg/Kg	☼	02/19/20 16:58	02/21/20 15:38	1
Hexachlorobenzene	<0.010		0.090	0.010	mg/Kg	☼	02/19/20 16:58	02/21/20 15:38	1
Hexachlorobutadiene	<0.070		0.22	0.070	mg/Kg	☼	02/19/20 16:58	02/21/20 15:38	1
Hexachlorocyclopentadiene	<0.26		0.90	0.26	mg/Kg	☼	02/19/20 16:58	02/21/20 15:38	1
Hexachloroethane	<0.068		0.22	0.068	mg/Kg	☼	02/19/20 16:58	02/21/20 15:38	1
Indeno[1,2,3-cd]pyrene	0.015	J	0.044	0.012	mg/Kg	☼	02/19/20 16:58	02/21/20 15:38	1
Isophorone	<0.050		0.22	0.050	mg/Kg	☼	02/19/20 16:58	02/21/20 15:38	1
2-Methylnaphthalene	<0.0082		0.090	0.0082	mg/Kg	☼	02/19/20 16:58	02/21/20 15:38	1
2-Methylphenol	<0.072		0.22	0.072	mg/Kg	☼	02/19/20 16:58	02/21/20 15:38	1
3 & 4 Methylphenol	<0.074		0.22	0.074	mg/Kg	☼	02/19/20 16:58	02/21/20 15:38	1
Naphthalene	<0.0069		0.044	0.0069	mg/Kg	☼	02/19/20 16:58	02/21/20 15:38	1
2-Nitroaniline	<0.060		0.22	0.060	mg/Kg	☼	02/19/20 16:58	02/21/20 15:38	1
3-Nitroaniline	<0.14		0.44	0.14	mg/Kg	☼	02/19/20 16:58	02/21/20 15:38	1
4-Nitroaniline	<0.19		0.44	0.19	mg/Kg	☼	02/19/20 16:58	02/21/20 15:38	1
Nitrobenzene	<0.011		0.044	0.011	mg/Kg	☼	02/19/20 16:58	02/21/20 15:38	1
2-Nitrophenol	<0.11		0.44	0.11	mg/Kg	☼	02/19/20 16:58	02/21/20 15:38	1

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177914-1

Client Sample ID: 3229V-14-B01 (5-10)

Lab Sample ID: 500-177914-4

Date Collected: 02/14/20 11:10

Matrix: Solid

Date Received: 02/14/20 15:38

Percent Solids: 74.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.42		0.90	0.42	mg/Kg	☼	02/19/20 16:58	02/21/20 15:38	1
N-Nitrosodi-n-propylamine	<0.055		0.090	0.055	mg/Kg	☼	02/19/20 16:58	02/21/20 15:38	1
N-Nitrosodiphenylamine	<0.053		0.22	0.053	mg/Kg	☼	02/19/20 16:58	02/21/20 15:38	1
2,2'-oxybis[1-chloropropane]	<0.052		0.22	0.052	mg/Kg	☼	02/19/20 16:58	02/21/20 15:38	1
Pentachlorophenol	<0.72		0.90	0.72	mg/Kg	☼	02/19/20 16:58	02/21/20 15:38	1
Phenanthrene	0.043	J	0.044	0.0062	mg/Kg	☼	02/19/20 16:58	02/21/20 15:38	1
Phenol	<0.099		0.22	0.099	mg/Kg	☼	02/19/20 16:58	02/21/20 15:38	1
Pyrene	0.067		0.044	0.0089	mg/Kg	☼	02/19/20 16:58	02/21/20 15:38	1
1,2,4-Trichlorobenzene	<0.048		0.22	0.048	mg/Kg	☼	02/19/20 16:58	02/21/20 15:38	1
2,4,5-Trichlorophenol	<0.10		0.44	0.10	mg/Kg	☼	02/19/20 16:58	02/21/20 15:38	1
2,4,6-Trichlorophenol	<0.15		0.44	0.15	mg/Kg	☼	02/19/20 16:58	02/21/20 15:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	66		43 - 145	02/19/20 16:58	02/21/20 15:38	1
2-Fluorophenol	76		31 - 166	02/19/20 16:58	02/21/20 15:38	1
Nitrobenzene-d5	68		37 - 147	02/19/20 16:58	02/21/20 15:38	1
Phenol-d5	80		30 - 153	02/19/20 16:58	02/21/20 15:38	1
Terphenyl-d14	137		42 - 157	02/19/20 16:58	02/21/20 15:38	1
2,4,6-Tribromophenol	106		31 - 143	02/19/20 16:58	02/21/20 15:38	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.26		1.3	0.26	mg/Kg	☼	02/19/20 16:44	02/20/20 18:37	1
Arsenic	5.6		0.67	0.23	mg/Kg	☼	02/19/20 16:44	02/20/20 18:37	1
Barium	100		0.67	0.076	mg/Kg	☼	02/19/20 16:44	02/20/20 18:37	1
Beryllium	1.1		0.27	0.063	mg/Kg	☼	02/19/20 16:44	02/20/20 18:37	1
Cadmium	0.13	B	0.13	0.024	mg/Kg	☼	02/19/20 16:44	02/20/20 18:37	1
Chromium	26		0.67	0.33	mg/Kg	☼	02/19/20 16:44	02/20/20 18:37	1
Cobalt	13		0.33	0.088	mg/Kg	☼	02/19/20 16:44	02/20/20 18:37	1
Copper	20		0.67	0.19	mg/Kg	☼	02/19/20 16:44	02/20/20 18:37	1
Iron	22000	B	13	7.0	mg/Kg	☼	02/19/20 16:44	02/20/20 18:37	1
Lead	17		0.33	0.15	mg/Kg	☼	02/19/20 16:44	02/20/20 18:37	1
Magnesium	7700		6.7	3.3	mg/Kg	☼	02/19/20 16:44	02/20/20 18:37	1
Calcium	12000	B	13	2.3	mg/Kg	☼	02/19/20 16:44	02/20/20 18:37	1
Manganese	310	B	0.67	0.097	mg/Kg	☼	02/19/20 16:44	02/20/20 18:37	1
Nickel	36		0.67	0.19	mg/Kg	☼	02/19/20 16:44	02/20/20 18:37	1
Selenium	<0.39		0.67	0.39	mg/Kg	☼	02/19/20 16:44	02/20/20 18:37	1
Silver	0.24	J	0.33	0.086	mg/Kg	☼	02/19/20 16:44	02/20/20 18:37	1
Thallium	1.8		0.67	0.33	mg/Kg	☼	02/19/20 16:44	02/20/20 18:37	1
Vanadium	30		0.33	0.079	mg/Kg	☼	02/19/20 16:44	02/20/20 18:37	1
Zinc	78	B	1.3	0.59	mg/Kg	☼	02/19/20 16:44	02/20/20 18:37	1
Potassium	3300		33	12	mg/Kg	☼	02/19/20 16:44	02/20/20 18:37	1
Sodium	2200		67	9.9	mg/Kg	☼	02/19/20 16:44	02/20/20 18:37	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		02/20/20 14:45	02/21/20 11:45	1
Barium	0.68		0.50	0.050	mg/L		02/20/20 14:45	02/21/20 11:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/20/20 14:45	02/21/20 11:45	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		02/20/20 14:45	02/21/20 11:45	1

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Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177914-1

Client Sample ID: 3229V-14-B01 (5-10)

Lab Sample ID: 500-177914-4

Date Collected: 02/14/20 11:10

Matrix: Solid

Date Received: 02/14/20 15:38

Percent Solids: 74.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	330		5.0	0.50	mg/L		02/20/20 14:45	02/21/20 11:45	1
Chromium	<0.010		0.025	0.010	mg/L		02/20/20 14:45	02/21/20 11:45	1
Cobalt	0.011	J	0.025	0.010	mg/L		02/20/20 14:45	02/21/20 11:45	1
Copper	<0.010		0.025	0.010	mg/L		02/20/20 14:45	02/21/20 11:45	1
Iron	<0.20		0.40	0.20	mg/L		02/20/20 14:45	02/21/20 11:45	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/20/20 14:45	02/21/20 11:45	1
Magnesium	59		2.5	0.50	mg/L		02/20/20 14:45	02/21/20 11:45	1
Manganese	6.1		0.025	0.010	mg/L		02/20/20 14:45	02/21/20 11:45	1
Nickel	<0.010		0.025	0.010	mg/L		02/20/20 14:45	02/21/20 11:45	1
Potassium	3.2		2.5	0.50	mg/L		02/20/20 14:45	02/21/20 11:45	1
Selenium	<0.020		0.050	0.020	mg/L		02/20/20 14:45	02/21/20 11:45	1
Silver	<0.010		0.025	0.010	mg/L		02/20/20 14:45	02/21/20 11:45	1
Vanadium	<0.010		0.025	0.010	mg/L		02/20/20 14:45	02/21/20 11:45	1
Zinc	<0.020		0.50	0.020	mg/L		02/20/20 14:45	02/21/20 11:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.6		0.025	0.010	mg/L		02/20/20 14:43	02/21/20 11:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/20/20 14:45	02/21/20 23:14	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/20/20 14:45	02/21/20 23:14	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/21/20 10:55	02/24/20 08:38	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.021	0.0071	mg/Kg	☼	02/24/20 15:45	02/25/20 08:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.26		0.52	0.26	mg/Kg	☼	02/25/20 15:25	02/26/20 10:18	1
pH	8.3		0.2	0.2	SU			02/19/20 14:21	1

Definitions/Glossary

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177914-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

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

General Chemistry

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

Glossary

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

QC Association Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177914-1

GC/MS VOA

Prep Batch: 529875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177914-1	3229V-14-B02 (0-2)	Total/NA	Solid	5035	
500-177914-2	3229V-14-B01 (0-5)	Total/NA	Solid	5035	
500-177914-3	3229V-14-B01 (0-5) Dup	Total/NA	Solid	5035	
500-177914-4	3229V-14-B01 (5-10)	Total/NA	Solid	5035	

Analysis Batch: 530336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177914-1	3229V-14-B02 (0-2)	Total/NA	Solid	8260B	529875
500-177914-2	3229V-14-B01 (0-5)	Total/NA	Solid	8260B	529875
500-177914-4	3229V-14-B01 (5-10)	Total/NA	Solid	8260B	529875
MB 500-530336/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-530336/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-530336/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 530826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177914-3	3229V-14-B01 (0-5) Dup	Total/NA	Solid	8260B	529875
MB 500-530826/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-530826/7	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-530826/8	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 530491

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177914-1	3229V-14-B02 (0-2)	Total/NA	Solid	3541	
500-177914-2	3229V-14-B01 (0-5)	Total/NA	Solid	3541	
500-177914-3	3229V-14-B01 (0-5) Dup	Total/NA	Solid	3541	
500-177914-4	3229V-14-B01 (5-10)	Total/NA	Solid	3541	
MB 500-530491/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-530491/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 530642

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-530491/1-A	Method Blank	Total/NA	Solid	8270D	530491
LCS 500-530491/2-A	Lab Control Sample	Total/NA	Solid	8270D	530491

Analysis Batch: 530723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177914-3	3229V-14-B01 (0-5) Dup	Total/NA	Solid	8270D	530491

Analysis Batch: 530858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177914-1	3229V-14-B02 (0-2)	Total/NA	Solid	8270D	530491
500-177914-2	3229V-14-B01 (0-5)	Total/NA	Solid	8270D	530491
500-177914-4	3229V-14-B01 (5-10)	Total/NA	Solid	8270D	530491

Metals

Leach Batch: 530437

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177914-2	3229V-14-B01 (0-5)	SPLP East	Solid	1312	

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QC Association Summary

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177914-1

Metals (Continued)

Leach Batch: 530437 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177914-3	3229V-14-B01 (0-5) Dup	SPLP East	Solid	1312	
500-177914-4	3229V-14-B01 (5-10)	SPLP East	Solid	1312	
LB 500-530437/1-B	Method Blank	SPLP East	Solid	1312	

Leach Batch: 530439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177914-1	3229V-14-B02 (0-2)	TCLP	Solid	1311	
500-177914-2	3229V-14-B01 (0-5)	TCLP	Solid	1311	
500-177914-3	3229V-14-B01 (0-5) Dup	TCLP	Solid	1311	
500-177914-4	3229V-14-B01 (5-10)	TCLP	Solid	1311	
LB 500-530439/1-B	Method Blank	TCLP	Solid	1311	
LB 500-530439/1-C	Method Blank	TCLP	Solid	1311	

Prep Batch: 530488

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177914-1	3229V-14-B02 (0-2)	Total/NA	Solid	3050B	
500-177914-2	3229V-14-B01 (0-5)	Total/NA	Solid	3050B	
500-177914-3	3229V-14-B01 (0-5) Dup	Total/NA	Solid	3050B	
500-177914-4	3229V-14-B01 (5-10)	Total/NA	Solid	3050B	
MB 500-530488/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-530488/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 530714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177914-2	3229V-14-B01 (0-5)	SPLP East	Solid	3010A	530437
500-177914-3	3229V-14-B01 (0-5) Dup	SPLP East	Solid	3010A	530437
500-177914-4	3229V-14-B01 (5-10)	SPLP East	Solid	3010A	530437
LB 500-530437/1-B	Method Blank	SPLP East	Solid	3010A	530437
LCS 500-530714/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 530716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177914-1	3229V-14-B02 (0-2)	TCLP	Solid	3010A	530439
500-177914-2	3229V-14-B01 (0-5)	TCLP	Solid	3010A	530439
500-177914-3	3229V-14-B01 (0-5) Dup	TCLP	Solid	3010A	530439
500-177914-4	3229V-14-B01 (5-10)	TCLP	Solid	3010A	530439
LB 500-530439/1-B	Method Blank	TCLP	Solid	3010A	530439
LCS 500-530716/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 530785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177914-1	3229V-14-B02 (0-2)	Total/NA	Solid	6010B	530488
500-177914-2	3229V-14-B01 (0-5)	Total/NA	Solid	6010B	530488
500-177914-3	3229V-14-B01 (0-5) Dup	Total/NA	Solid	6010B	530488
500-177914-4	3229V-14-B01 (5-10)	Total/NA	Solid	6010B	530488
MB 500-530488/1-A	Method Blank	Total/NA	Solid	6010B	530488
LCS 500-530488/2-A	Lab Control Sample	Total/NA	Solid	6010B	530488

Prep Batch: 530882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177914-1	3229V-14-B02 (0-2)	TCLP	Solid	7470A	530439

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QC Association Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177914-1

Metals (Continued)

Prep Batch: 530882 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177914-2	3229V-14-B01 (0-5)	TCLP	Solid	7470A	530439
500-177914-3	3229V-14-B01 (0-5) Dup	TCLP	Solid	7470A	530439
500-177914-4	3229V-14-B01 (5-10)	TCLP	Solid	7470A	530439
LB 500-530439/1-C	Method Blank	TCLP	Solid	7470A	530439
MB 500-530882/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-530882/14-A	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 530900

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177914-2	3229V-14-B01 (0-5)	SPLP East	Solid	6010B	530714
500-177914-3	3229V-14-B01 (0-5) Dup	SPLP East	Solid	6010B	530714
500-177914-4	3229V-14-B01 (5-10)	SPLP East	Solid	6010B	530714
LB 500-530437/1-B	Method Blank	SPLP East	Solid	6010B	530714
LCS 500-530714/2-A	Lab Control Sample	Total/NA	Solid	6010B	530714

Analysis Batch: 531048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177914-1	3229V-14-B02 (0-2)	TCLP	Solid	6010B	530716
500-177914-1	3229V-14-B02 (0-2)	Total/NA	Solid	6010B	530488
500-177914-2	3229V-14-B01 (0-5)	TCLP	Solid	6010B	530716
500-177914-3	3229V-14-B01 (0-5) Dup	TCLP	Solid	6010B	530716
500-177914-4	3229V-14-B01 (5-10)	TCLP	Solid	6010B	530716
LB 500-530439/1-B	Method Blank	TCLP	Solid	6010B	530716
LCS 500-530716/2-A	Lab Control Sample	Total/NA	Solid	6010B	530716

Analysis Batch: 531117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177914-1	3229V-14-B02 (0-2)	TCLP	Solid	6020A	530716
500-177914-2	3229V-14-B01 (0-5)	TCLP	Solid	6020A	530716
500-177914-3	3229V-14-B01 (0-5) Dup	TCLP	Solid	6020A	530716
500-177914-4	3229V-14-B01 (5-10)	TCLP	Solid	6020A	530716
LB 500-530439/1-B	Method Blank	TCLP	Solid	6020A	530716
LCS 500-530716/2-A	Lab Control Sample	Total/NA	Solid	6020A	530716

Analysis Batch: 531118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177914-1	3229V-14-B02 (0-2)	TCLP	Solid	7470A	530882
500-177914-2	3229V-14-B01 (0-5)	TCLP	Solid	7470A	530882
500-177914-3	3229V-14-B01 (0-5) Dup	TCLP	Solid	7470A	530882
500-177914-4	3229V-14-B01 (5-10)	TCLP	Solid	7470A	530882
LB 500-530439/1-C	Method Blank	TCLP	Solid	7470A	530882
MB 500-530882/12-A	Method Blank	Total/NA	Solid	7470A	530882
LCS 500-530882/14-A	Lab Control Sample	Total/NA	Solid	7470A	530882

Prep Batch: 531148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177914-1	3229V-14-B02 (0-2)	Total/NA	Solid	7471B	
500-177914-2	3229V-14-B01 (0-5)	Total/NA	Solid	7471B	
500-177914-3	3229V-14-B01 (0-5) Dup	Total/NA	Solid	7471B	
500-177914-4	3229V-14-B01 (5-10)	Total/NA	Solid	7471B	
MB 500-531148/12-A	Method Blank	Total/NA	Solid	7471B	

Eurofins TestAmerica, Chicago

QC Association Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177914-1

Metals (Continued)

Prep Batch: 531148 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-531148/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 531351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177914-1	3229V-14-B02 (0-2)	Total/NA	Solid	7471B	531148
500-177914-2	3229V-14-B01 (0-5)	Total/NA	Solid	7471B	531148
500-177914-3	3229V-14-B01 (0-5) Dup	Total/NA	Solid	7471B	531148
500-177914-4	3229V-14-B01 (5-10)	Total/NA	Solid	7471B	531148
MB 500-531148/12-A	Method Blank	Total/NA	Solid	7471B	531148
LCS 500-531148/13-A	Lab Control Sample	Total/NA	Solid	7471B	531148

General Chemistry

Analysis Batch: 530391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177914-1	3229V-14-B02 (0-2)	Total/NA	Solid	Moisture	
500-177914-2	3229V-14-B01 (0-5)	Total/NA	Solid	Moisture	
500-177914-3	3229V-14-B01 (0-5) Dup	Total/NA	Solid	Moisture	
500-177914-4	3229V-14-B01 (5-10)	Total/NA	Solid	Moisture	

Analysis Batch: 530483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177914-1	3229V-14-B02 (0-2)	Total/NA	Solid	9045D	
500-177914-2	3229V-14-B01 (0-5)	Total/NA	Solid	9045D	
500-177914-3	3229V-14-B01 (0-5) Dup	Total/NA	Solid	9045D	
500-177914-4	3229V-14-B01 (5-10)	Total/NA	Solid	9045D	
LCS 500-530483/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-530483/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Prep Batch: 531365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177914-1	3229V-14-B02 (0-2)	Total/NA	Solid	9010B	
500-177914-2	3229V-14-B01 (0-5)	Total/NA	Solid	9010B	
500-177914-3	3229V-14-B01 (0-5) Dup	Total/NA	Solid	9010B	
500-177914-4	3229V-14-B01 (5-10)	Total/NA	Solid	9010B	
MB 500-531365/1-A	Method Blank	Total/NA	Solid	9010B	
LCS 500-531365/2-A	Lab Control Sample	Total/NA	Solid	9010B	

Analysis Batch: 531511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177914-1	3229V-14-B02 (0-2)	Total/NA	Solid	9014	531365
500-177914-2	3229V-14-B01 (0-5)	Total/NA	Solid	9014	531365
500-177914-3	3229V-14-B01 (0-5) Dup	Total/NA	Solid	9014	531365
500-177914-4	3229V-14-B01 (5-10)	Total/NA	Solid	9014	531365
MB 500-531365/1-A	Method Blank	Total/NA	Solid	9014	531365
LCS 500-531365/2-A	Lab Control Sample	Total/NA	Solid	9014	531365

Surrogate Summary

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177914-1

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB (75-131)	DBFM (75-126)	DCA (70-134)	TOL (75-124)
500-177914-1	3229V-14-B02 (0-2)	106	92	91	98
500-177914-2	3229V-14-B01 (0-5)	103	96	94	97
500-177914-3	3229V-14-B01 (0-5) Dup	103	105	107	90
500-177914-4	3229V-14-B01 (5-10)	101	95	97	95
LCS 500-530336/4	Lab Control Sample	98	93	86	95
LCS 500-530826/7	Lab Control Sample	96	100	96	92
LCSD 500-530336/5	Lab Control Sample Dup	95	96	87	94
LCSD 500-530826/8	Lab Control Sample Dup	97	96	94	91
MB 500-530336/7	Method Blank	101	87	87	94
MB 500-530826/6	Method Blank	98	102	99	89

Surrogate Legend

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

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	FBP (43-145)	2FP (31-166)	NBZ (37-147)	PHL (30-153)	TPHL (42-157)	TBP (31-143)
500-177914-1	3229V-14-B02 (0-2)	78	75	72	84	141	95
500-177914-2	3229V-14-B01 (0-5)	64	82	65	86	137	83
500-177914-3	3229V-14-B01 (0-5) Dup	70	102	67	93	159 X	48
500-177914-4	3229V-14-B01 (5-10)	66	76	68	80	137	106
LCS 500-530491/2-A	Lab Control Sample	104	117	92	104	143	138
MB 500-530491/1-A	Method Blank	86	122	65	117	152	108

Surrogate Legend

FBP = 2-Fluorobiphenyl
 2FP = 2-Fluorophenol
 NBZ = Nitrobenzene-d5
 PHL = Phenol-d5
 TPHL = Terphenyl-d14
 TBP = 2,4,6-Tribromophenol

QC Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177914-1

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

Lab Sample ID: MB 500-530336/7
Matrix: Solid
Analysis Batch: 530336

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0087		0.020	0.0087	mg/Kg			02/19/20 11:10	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg			02/19/20 11:10	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg			02/19/20 11:10	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg			02/19/20 11:10	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg			02/19/20 11:10	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			02/19/20 11:10	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg			02/19/20 11:10	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg			02/19/20 11:10	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg			02/19/20 11:10	1
Chloroethane	<0.0015		0.0050	0.0015	mg/Kg			02/19/20 11:10	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg			02/19/20 11:10	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg			02/19/20 11:10	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg			02/19/20 11:10	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg			02/19/20 11:10	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg			02/19/20 11:10	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg			02/19/20 11:10	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg			02/19/20 11:10	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg			02/19/20 11:10	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			02/19/20 11:10	1
1,3-Dichloropropene, Total	<0.00070		0.0020	0.00070	mg/Kg			02/19/20 11:10	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg			02/19/20 11:10	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg			02/19/20 11:10	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg			02/19/20 11:10	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg			02/19/20 11:10	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg			02/19/20 11:10	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg			02/19/20 11:10	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg			02/19/20 11:10	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg			02/19/20 11:10	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg			02/19/20 11:10	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg			02/19/20 11:10	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg			02/19/20 11:10	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg			02/19/20 11:10	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg			02/19/20 11:10	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg			02/19/20 11:10	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg			02/19/20 11:10	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg			02/19/20 11:10	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg			02/19/20 11:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		75 - 131		02/19/20 11:10	1
Dibromofluoromethane	87		75 - 126		02/19/20 11:10	1
1,2-Dichloroethane-d4 (Surr)	87		70 - 134		02/19/20 11:10	1
Toluene-d8 (Surr)	94		75 - 124		02/19/20 11:10	1

QC Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177914-1

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

Lab Sample ID: LCS 500-530336/4

Matrix: Solid

Analysis Batch: 530336

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0463		mg/Kg		93	40 - 150
Benzene	0.0500	0.0430		mg/Kg		86	70 - 125
Bromodichloromethane	0.0500	0.0389		mg/Kg		78	67 - 129
Bromoform	0.0500	0.0376		mg/Kg		75	68 - 136
Bromomethane	0.0500	0.0510		mg/Kg		102	70 - 130
2-Butanone (MEK)	0.0500	0.0432		mg/Kg		86	47 - 138
Carbon disulfide	0.0500	0.0399		mg/Kg		80	70 - 129
Carbon tetrachloride	0.0500	0.0411		mg/Kg		82	75 - 125
Chlorobenzene	0.0500	0.0431		mg/Kg		86	50 - 150
Chloroethane	0.0500	0.0690	*	mg/Kg		138	75 - 125
Chloroform	0.0500	0.0421		mg/Kg		84	57 - 135
Chloromethane	0.0500	0.0602		mg/Kg		120	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0434		mg/Kg		87	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0383		mg/Kg		77	70 - 125
Dibromochloromethane	0.0500	0.0380		mg/Kg		76	69 - 125
1,1-Dichloroethane	0.0500	0.0437		mg/Kg		87	70 - 125
1,2-Dichloroethane	0.0500	0.0406		mg/Kg		81	70 - 130
1,1-Dichloroethene	0.0500	0.0428		mg/Kg		86	70 - 120
1,2-Dichloropropane	0.0500	0.0436		mg/Kg		87	70 - 125
Ethylbenzene	0.0500	0.0428		mg/Kg		86	61 - 136
2-Hexanone	0.0500	0.0413		mg/Kg		83	48 - 146
Methylene Chloride	0.0500	0.0428		mg/Kg		86	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0391		mg/Kg		78	50 - 148
Methyl tert-butyl ether	0.0500	0.0401		mg/Kg		80	50 - 140
Styrene	0.0500	0.0417		mg/Kg		83	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0414		mg/Kg		83	70 - 122
Tetrachloroethene	0.0500	0.0465		mg/Kg		93	70 - 124
Toluene	0.0500	0.0417		mg/Kg		83	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0448		mg/Kg		90	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0367		mg/Kg		73	70 - 125
1,1,1-Trichloroethane	0.0500	0.0422		mg/Kg		84	70 - 128
1,1,2-Trichloroethane	0.0500	0.0395		mg/Kg		79	70 - 125
Trichloroethene	0.0500	0.0447		mg/Kg		89	70 - 125
Vinyl acetate	0.0500	0.0441		mg/Kg		88	40 - 153
Vinyl chloride	0.0500	0.0517		mg/Kg		103	70 - 125
Xylenes, Total	0.100	0.0844		mg/Kg		84	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	98		75 - 131
Dibromofluoromethane	93		75 - 126
1,2-Dichloroethane-d4 (Surr)	86		70 - 134
Toluene-d8 (Surr)	95		75 - 124

QC Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177914-1

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

Lab Sample ID: LCSD 500-530336/5

Matrix: Solid

Analysis Batch: 530336

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0461		mg/Kg		92	40 - 150	0	30
Benzene	0.0500	0.0441		mg/Kg		88	70 - 125	2	30
Bromodichloromethane	0.0500	0.0396		mg/Kg		79	67 - 129	2	30
Bromoform	0.0500	0.0390		mg/Kg		78	68 - 136	4	30
Bromomethane	0.0500	0.0509		mg/Kg		102	70 - 130	0	30
2-Butanone (MEK)	0.0500	0.0431		mg/Kg		86	47 - 138	0	30
Carbon disulfide	0.0500	0.0412		mg/Kg		82	70 - 129	3	30
Carbon tetrachloride	0.0500	0.0419		mg/Kg		84	75 - 125	2	30
Chlorobenzene	0.0500	0.0426		mg/Kg		85	50 - 150	1	30
Chloroethane	0.0500	0.0670	*	mg/Kg		134	75 - 125	3	30
Chloroform	0.0500	0.0429		mg/Kg		86	57 - 135	2	30
Chloromethane	0.0500	0.0618		mg/Kg		124	70 - 125	3	30
cis-1,2-Dichloroethene	0.0500	0.0446		mg/Kg		89	70 - 125	3	30
cis-1,3-Dichloropropene	0.0500	0.0388		mg/Kg		78	70 - 125	1	30
Dibromochloromethane	0.0500	0.0380		mg/Kg		76	69 - 125	0	30
1,1-Dichloroethane	0.0500	0.0446		mg/Kg		89	70 - 125	2	30
1,2-Dichloroethane	0.0500	0.0421		mg/Kg		84	70 - 130	4	30
1,1-Dichloroethene	0.0500	0.0452		mg/Kg		90	70 - 120	5	30
1,2-Dichloropropane	0.0500	0.0416		mg/Kg		83	70 - 125	5	30
Ethylbenzene	0.0500	0.0426		mg/Kg		85	61 - 136	1	30
2-Hexanone	0.0500	0.0399		mg/Kg		80	48 - 146	4	30
Methylene Chloride	0.0500	0.0444		mg/Kg		89	70 - 126	4	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0393		mg/Kg		79	50 - 148	1	30
Methyl tert-butyl ether	0.0500	0.0433		mg/Kg		87	50 - 140	8	30
Styrene	0.0500	0.0417		mg/Kg		83	70 - 125	0	30
1,1,2,2-Tetrachloroethane	0.0500	0.0424		mg/Kg		85	70 - 122	3	30
Tetrachloroethene	0.0500	0.0468		mg/Kg		94	70 - 124	1	30
Toluene	0.0500	0.0409		mg/Kg		82	70 - 125	2	30
trans-1,2-Dichloroethene	0.0500	0.0457		mg/Kg		91	70 - 125	2	30
trans-1,3-Dichloropropene	0.0500	0.0374		mg/Kg		75	70 - 125	2	30
1,1,1-Trichloroethane	0.0500	0.0433		mg/Kg		87	70 - 128	3	30
1,1,2-Trichloroethane	0.0500	0.0399		mg/Kg		80	70 - 125	1	30
Trichloroethene	0.0500	0.0457		mg/Kg		91	70 - 125	2	30
Vinyl acetate	0.0500	0.0429		mg/Kg		86	40 - 153	3	30
Vinyl chloride	0.0500	0.0513		mg/Kg		103	70 - 125	1	30
Xylenes, Total	0.100	0.0847		mg/Kg		85	53 - 147	0	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	95		75 - 131
Dibromofluoromethane	96		75 - 126
1,2-Dichloroethane-d4 (Surr)	87		70 - 134
Toluene-d8 (Surr)	94		75 - 124

QC Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177914-1

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

Lab Sample ID: MB 500-530826/6
Matrix: Solid
Analysis Batch: 530826

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.0087		0.020	0.0087	mg/Kg			02/21/20 10:46	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg			02/21/20 10:46	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg			02/21/20 10:46	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg			02/21/20 10:46	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg			02/21/20 10:46	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			02/21/20 10:46	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg			02/21/20 10:46	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg			02/21/20 10:46	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg			02/21/20 10:46	1
Chloroethane	<0.0015		0.0050	0.0015	mg/Kg			02/21/20 10:46	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg			02/21/20 10:46	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg			02/21/20 10:46	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg			02/21/20 10:46	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg			02/21/20 10:46	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg			02/21/20 10:46	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg			02/21/20 10:46	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg			02/21/20 10:46	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg			02/21/20 10:46	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			02/21/20 10:46	1
1,3-Dichloropropene, Total	<0.00070		0.0020	0.00070	mg/Kg			02/21/20 10:46	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg			02/21/20 10:46	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg			02/21/20 10:46	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg			02/21/20 10:46	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg			02/21/20 10:46	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg			02/21/20 10:46	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg			02/21/20 10:46	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg			02/21/20 10:46	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg			02/21/20 10:46	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg			02/21/20 10:46	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg			02/21/20 10:46	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg			02/21/20 10:46	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg			02/21/20 10:46	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg			02/21/20 10:46	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg			02/21/20 10:46	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg			02/21/20 10:46	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg			02/21/20 10:46	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg			02/21/20 10:46	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	98		75 - 131		02/21/20 10:46	1
Dibromofluoromethane	102		75 - 126		02/21/20 10:46	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134		02/21/20 10:46	1
Toluene-d8 (Surr)	89		75 - 124		02/21/20 10:46	1

QC Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177914-1

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

Lab Sample ID: LCS 500-530826/7

Matrix: Solid

Analysis Batch: 530826

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	0.0565		mg/Kg		113	40 - 150
Benzene	0.0500	0.0540		mg/Kg		108	70 - 125
Bromodichloromethane	0.0500	0.0541		mg/Kg		108	67 - 129
Bromoform	0.0500	0.0524		mg/Kg		105	68 - 136
Bromomethane	0.0500	0.0407		mg/Kg		81	70 - 130
2-Butanone (MEK)	0.0500	0.0499		mg/Kg		100	47 - 138
Carbon disulfide	0.0500	0.0506		mg/Kg		101	70 - 129
Carbon tetrachloride	0.0500	0.0584		mg/Kg		117	75 - 125
Chlorobenzene	0.0500	0.0541		mg/Kg		108	50 - 150
Chloroethane	0.0500	0.0480		mg/Kg		96	75 - 125
Chloroform	0.0500	0.0565		mg/Kg		113	57 - 135
Chloromethane	0.0500	0.0432		mg/Kg		86	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0559		mg/Kg		112	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0506		mg/Kg		101	70 - 125
Dibromochloromethane	0.0500	0.0549		mg/Kg		110	69 - 125
1,1-Dichloroethane	0.0500	0.0560		mg/Kg		112	70 - 125
1,2-Dichloroethane	0.0500	0.0580		mg/Kg		116	70 - 130
1,1-Dichloroethene	0.0500	0.0528		mg/Kg		106	70 - 120
1,2-Dichloropropane	0.0500	0.0527		mg/Kg		105	70 - 125
Ethylbenzene	0.0500	0.0545		mg/Kg		109	61 - 136
2-Hexanone	0.0500	0.0512		mg/Kg		102	48 - 146
Methylene Chloride	0.0500	0.0520		mg/Kg		104	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0480		mg/Kg		96	50 - 148
Methyl tert-butyl ether	0.0500	0.0544		mg/Kg		109	50 - 140
Styrene	0.0500	0.0551		mg/Kg		110	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0505		mg/Kg		101	70 - 122
Tetrachloroethene	0.0500	0.0514		mg/Kg		103	70 - 124
Toluene	0.0500	0.0526		mg/Kg		105	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0554		mg/Kg		111	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0516		mg/Kg		103	70 - 125
1,1,1-Trichloroethane	0.0500	0.0569		mg/Kg		114	70 - 128
1,1,2-Trichloroethane	0.0500	0.0535		mg/Kg		107	70 - 125
Trichloroethene	0.0500	0.0572		mg/Kg		114	70 - 125
Vinyl acetate	0.0500	0.0494		mg/Kg		99	40 - 153
Vinyl chloride	0.0500	0.0439		mg/Kg		88	70 - 125
Xylenes, Total	0.100	0.110		mg/Kg		110	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	96		75 - 131
Dibromofluoromethane	100		75 - 126
1,2-Dichloroethane-d4 (Surr)	96		70 - 134
Toluene-d8 (Surr)	92		75 - 124

QC Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177914-1

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

Lab Sample ID: LCSD 500-530826/8
Matrix: Solid
Analysis Batch: 530826

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	0.0435		mg/Kg		87	40 - 150	26	30
Benzene	0.0500	0.0526		mg/Kg		105	70 - 125	3	30
Bromodichloromethane	0.0500	0.0527		mg/Kg		105	67 - 129	3	30
Bromoform	0.0500	0.0503		mg/Kg		101	68 - 136	4	30
Bromomethane	0.0500	0.0423		mg/Kg		85	70 - 130	4	30
2-Butanone (MEK)	0.0500	0.0410		mg/Kg		82	47 - 138	20	30
Carbon disulfide	0.0500	0.0502		mg/Kg		100	70 - 129	1	30
Carbon tetrachloride	0.0500	0.0584		mg/Kg		117	75 - 125	0	30
Chlorobenzene	0.0500	0.0524		mg/Kg		105	50 - 150	3	30
Chloroethane	0.0500	0.0499		mg/Kg		100	75 - 125	4	30
Chloroform	0.0500	0.0560		mg/Kg		112	57 - 135	1	30
Chloromethane	0.0500	0.0445		mg/Kg		89	70 - 125	3	30
cis-1,2-Dichloroethene	0.0500	0.0548		mg/Kg		110	70 - 125	2	30
cis-1,3-Dichloropropene	0.0500	0.0498		mg/Kg		100	70 - 125	2	30
Dibromochloromethane	0.0500	0.0533		mg/Kg		107	69 - 125	3	30
1,1-Dichloroethane	0.0500	0.0549		mg/Kg		110	70 - 125	2	30
1,2-Dichloroethane	0.0500	0.0552		mg/Kg		110	70 - 130	5	30
1,1-Dichloroethene	0.0500	0.0530		mg/Kg		106	70 - 120	0	30
1,2-Dichloropropane	0.0500	0.0501		mg/Kg		100	70 - 125	5	30
Ethylbenzene	0.0500	0.0532		mg/Kg		106	61 - 136	2	30
2-Hexanone	0.0500	0.0471		mg/Kg		94	48 - 146	8	30
Methylene Chloride	0.0500	0.0513		mg/Kg		103	70 - 126	1	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0461		mg/Kg		92	50 - 148	4	30
Methyl tert-butyl ether	0.0500	0.0509		mg/Kg		102	50 - 140	7	30
Styrene	0.0500	0.0533		mg/Kg		107	70 - 125	3	30
1,1,2,2-Tetrachloroethane	0.0500	0.0486		mg/Kg		97	70 - 122	4	30
Tetrachloroethene	0.0500	0.0504		mg/Kg		101	70 - 124	2	30
Toluene	0.0500	0.0504		mg/Kg		101	70 - 125	4	30
trans-1,2-Dichloroethene	0.0500	0.0543		mg/Kg		109	70 - 125	2	30
trans-1,3-Dichloropropene	0.0500	0.0496		mg/Kg		99	70 - 125	4	30
1,1,1-Trichloroethane	0.0500	0.0567		mg/Kg		113	70 - 128	0	30
1,1,2-Trichloroethane	0.0500	0.0504		mg/Kg		101	70 - 125	6	30
Trichloroethene	0.0500	0.0570		mg/Kg		114	70 - 125	0	30
Vinyl acetate	0.0500	0.0495		mg/Kg		99	40 - 153	0	30
Vinyl chloride	0.0500	0.0460		mg/Kg		92	70 - 125	5	30
Xylenes, Total	0.100	0.106		mg/Kg		106	53 - 147	3	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	97		75 - 131
Dibromofluoromethane	96		75 - 126
1,2-Dichloroethane-d4 (Surr)	94		70 - 134
Toluene-d8 (Surr)	91		75 - 124

QC Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177914-1

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

Lab Sample ID: MB 500-530491/1-A
Matrix: Solid
Analysis Batch: 530642

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 530491

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0060		0.033	0.0060	mg/Kg		02/19/20 16:58	02/20/20 14:29	1
Acenaphthylene	<0.0044		0.033	0.0044	mg/Kg		02/19/20 16:58	02/20/20 14:29	1
Anthracene	<0.0056		0.033	0.0056	mg/Kg		02/19/20 16:58	02/20/20 14:29	1
Benzo[a]anthracene	<0.0045		0.033	0.0045	mg/Kg		02/19/20 16:58	02/20/20 14:29	1
Benzo[a]pyrene	<0.0064		0.033	0.0064	mg/Kg		02/19/20 16:58	02/20/20 14:29	1
Benzo[b]fluoranthene	<0.0072		0.033	0.0072	mg/Kg		02/19/20 16:58	02/20/20 14:29	1
Benzo[g,h,i]perylene	<0.011		0.033	0.011	mg/Kg		02/19/20 16:58	02/20/20 14:29	1
Benzo[k]fluoranthene	<0.0098		0.033	0.0098	mg/Kg		02/19/20 16:58	02/20/20 14:29	1
Bis(2-chloroethoxy)methane	<0.034		0.17	0.034	mg/Kg		02/19/20 16:58	02/20/20 14:29	1
Bis(2-chloroethyl)ether	<0.050		0.17	0.050	mg/Kg		02/19/20 16:58	02/20/20 14:29	1
Bis(2-ethylhexyl) phthalate	<0.061		0.17	0.061	mg/Kg		02/19/20 16:58	02/20/20 14:29	1
4-Bromophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		02/19/20 16:58	02/20/20 14:29	1
Butyl benzyl phthalate	<0.063		0.17	0.063	mg/Kg		02/19/20 16:58	02/20/20 14:29	1
Carbazole	<0.083		0.17	0.083	mg/Kg		02/19/20 16:58	02/20/20 14:29	1
4-Chloroaniline	<0.16		0.67	0.16	mg/Kg		02/19/20 16:58	02/20/20 14:29	1
4-Chloro-3-methylphenol	<0.11		0.33	0.11	mg/Kg		02/19/20 16:58	02/20/20 14:29	1
2-Chloronaphthalene	<0.037		0.17	0.037	mg/Kg		02/19/20 16:58	02/20/20 14:29	1
2-Chlorophenol	<0.057		0.17	0.057	mg/Kg		02/19/20 16:58	02/20/20 14:29	1
4-Chlorophenyl phenyl ether	<0.039		0.17	0.039	mg/Kg		02/19/20 16:58	02/20/20 14:29	1
Chrysene	<0.0091		0.033	0.0091	mg/Kg		02/19/20 16:58	02/20/20 14:29	1
Dibenz(a,h)anthracene	<0.0064		0.033	0.0064	mg/Kg		02/19/20 16:58	02/20/20 14:29	1
Dibenzofuran	<0.039		0.17	0.039	mg/Kg		02/19/20 16:58	02/20/20 14:29	1
1,2-Dichlorobenzene	<0.040		0.17	0.040	mg/Kg		02/19/20 16:58	02/20/20 14:29	1
1,3-Dichlorobenzene	<0.037		0.17	0.037	mg/Kg		02/19/20 16:58	02/20/20 14:29	1
1,4-Dichlorobenzene	<0.043		0.17	0.043	mg/Kg		02/19/20 16:58	02/20/20 14:29	1
3,3'-Dichlorobenzidine	<0.047		0.17	0.047	mg/Kg		02/19/20 16:58	02/20/20 14:29	1
2,4-Dichlorophenol	<0.079		0.33	0.079	mg/Kg		02/19/20 16:58	02/20/20 14:29	1
Diethyl phthalate	<0.056		0.17	0.056	mg/Kg		02/19/20 16:58	02/20/20 14:29	1
2,4-Dimethylphenol	<0.13		0.33	0.13	mg/Kg		02/19/20 16:58	02/20/20 14:29	1
Dimethyl phthalate	<0.043		0.17	0.043	mg/Kg		02/19/20 16:58	02/20/20 14:29	1
Di-n-butyl phthalate	<0.051		0.17	0.051	mg/Kg		02/19/20 16:58	02/20/20 14:29	1
4,6-Dinitro-2-methylphenol	<0.27		0.67	0.27	mg/Kg		02/19/20 16:58	02/20/20 14:29	1
2,4-Dinitrophenol	<0.59		0.67	0.59	mg/Kg		02/19/20 16:58	02/20/20 14:29	1
2,4-Dinitrotoluene	<0.053		0.17	0.053	mg/Kg		02/19/20 16:58	02/20/20 14:29	1
2,6-Dinitrotoluene	<0.065		0.17	0.065	mg/Kg		02/19/20 16:58	02/20/20 14:29	1
Di-n-octyl phthalate	<0.054		0.17	0.054	mg/Kg		02/19/20 16:58	02/20/20 14:29	1
Fluoranthene	<0.0062		0.033	0.0062	mg/Kg		02/19/20 16:58	02/20/20 14:29	1
Fluorene	<0.0047		0.033	0.0047	mg/Kg		02/19/20 16:58	02/20/20 14:29	1
Hexachlorobenzene	<0.0077		0.067	0.0077	mg/Kg		02/19/20 16:58	02/20/20 14:29	1
Hexachlorobutadiene	<0.052		0.17	0.052	mg/Kg		02/19/20 16:58	02/20/20 14:29	1
Hexachlorocyclopentadiene	<0.19		0.67	0.19	mg/Kg		02/19/20 16:58	02/20/20 14:29	1
Hexachloroethane	<0.051		0.17	0.051	mg/Kg		02/19/20 16:58	02/20/20 14:29	1
Indeno[1,2,3-cd]pyrene	<0.0086		0.033	0.0086	mg/Kg		02/19/20 16:58	02/20/20 14:29	1
Isophorone	<0.037		0.17	0.037	mg/Kg		02/19/20 16:58	02/20/20 14:29	1
2-Methylnaphthalene	<0.0061		0.067	0.0061	mg/Kg		02/19/20 16:58	02/20/20 14:29	1
2-Methylphenol	<0.053		0.17	0.053	mg/Kg		02/19/20 16:58	02/20/20 14:29	1
3 & 4 Methylphenol	<0.055		0.17	0.055	mg/Kg		02/19/20 16:58	02/20/20 14:29	1
Naphthalene	<0.0051		0.033	0.0051	mg/Kg		02/19/20 16:58	02/20/20 14:29	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177914-1

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

Lab Sample ID: MB 500-530491/1-A
Matrix: Solid
Analysis Batch: 530642

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 530491

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2-Nitroaniline	<0.045		0.17	0.045	mg/Kg		02/19/20 16:58	02/20/20 14:29	1
3-Nitroaniline	<0.10		0.33	0.10	mg/Kg		02/19/20 16:58	02/20/20 14:29	1
4-Nitroaniline	<0.14		0.33	0.14	mg/Kg		02/19/20 16:58	02/20/20 14:29	1
Nitrobenzene	<0.0083		0.033	0.0083	mg/Kg		02/19/20 16:58	02/20/20 14:29	1
2-Nitrophenol	<0.079		0.33	0.079	mg/Kg		02/19/20 16:58	02/20/20 14:29	1
4-Nitrophenol	<0.32		0.67	0.32	mg/Kg		02/19/20 16:58	02/20/20 14:29	1
N-Nitrosodi-n-propylamine	<0.041		0.067	0.041	mg/Kg		02/19/20 16:58	02/20/20 14:29	1
N-Nitrosodiphenylamine	<0.039		0.17	0.039	mg/Kg		02/19/20 16:58	02/20/20 14:29	1
2,2'-oxybis[1-chloropropane]	<0.039		0.17	0.039	mg/Kg		02/19/20 16:58	02/20/20 14:29	1
Pentachlorophenol	<0.53		0.67	0.53	mg/Kg		02/19/20 16:58	02/20/20 14:29	1
Phenanthrene	<0.0046		0.033	0.0046	mg/Kg		02/19/20 16:58	02/20/20 14:29	1
Phenol	<0.074		0.17	0.074	mg/Kg		02/19/20 16:58	02/20/20 14:29	1
Pyrene	<0.0066		0.033	0.0066	mg/Kg		02/19/20 16:58	02/20/20 14:29	1
1,2,4-Trichlorobenzene	<0.036		0.17	0.036	mg/Kg		02/19/20 16:58	02/20/20 14:29	1
2,4,5-Trichlorophenol	<0.076		0.33	0.076	mg/Kg		02/19/20 16:58	02/20/20 14:29	1
2,4,6-Trichlorophenol	<0.11		0.33	0.11	mg/Kg		02/19/20 16:58	02/20/20 14:29	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorobiphenyl	86		43 - 145	02/19/20 16:58	02/20/20 14:29	1
2-Fluorophenol	122		31 - 166	02/19/20 16:58	02/20/20 14:29	1
Nitrobenzene-d5	65		37 - 147	02/19/20 16:58	02/20/20 14:29	1
Phenol-d5	117		30 - 153	02/19/20 16:58	02/20/20 14:29	1
Terphenyl-d14	152		42 - 157	02/19/20 16:58	02/20/20 14:29	1
2,4,6-Tribromophenol	108		31 - 143	02/19/20 16:58	02/20/20 14:29	1

Lab Sample ID: LCS 500-530491/2-A
Matrix: Solid
Analysis Batch: 530642

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 530491

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Acenaphthene	1.33	1.31		mg/Kg		98	65 - 124
Acenaphthylene	1.33	1.30		mg/Kg		98	68 - 120
Anthracene	1.33	1.35		mg/Kg		101	70 - 114
Benzo[a]anthracene	1.33	1.38		mg/Kg		104	67 - 122
Benzo[a]pyrene	1.33	1.48		mg/Kg		111	65 - 133
Benzo[b]fluoranthene	1.33	1.44		mg/Kg		108	69 - 129
Benzo[g,h,i]perylene	1.33	1.65		mg/Kg		124	72 - 131
Benzo[k]fluoranthene	1.33	1.43		mg/Kg		108	68 - 127
Bis(2-chloroethoxy)methane	1.33	1.19		mg/Kg		89	60 - 112
Bis(2-chloroethyl)ether	1.33	1.03		mg/Kg		78	55 - 111
Bis(2-ethylhexyl) phthalate	1.33	1.26		mg/Kg		94	72 - 131
4-Bromophenyl phenyl ether	1.33	1.43		mg/Kg		107	68 - 118
Butyl benzyl phthalate	1.33	1.30		mg/Kg		98	71 - 129
Carbazole	1.33	1.36		mg/Kg		102	65 - 142
4-Chloroaniline	1.33	1.03		mg/Kg		77	30 - 150
4-Chloro-3-methylphenol	1.33	1.23		mg/Kg		92	65 - 122
2-Chloronaphthalene	1.33	1.30		mg/Kg		98	69 - 114
2-Chlorophenol	1.33	1.26		mg/Kg		94	64 - 110

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QC Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177914-1

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

Lab Sample ID: LCS 500-530491/2-A

Matrix: Solid

Analysis Batch: 530642

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 530491

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorophenyl phenyl ether	1.33	1.39		mg/Kg		104	62 - 119
Chrysene	1.33	1.35		mg/Kg		101	63 - 120
Dibenz(a,h)anthracene	1.33	1.65		mg/Kg		124	64 - 131
Dibenzofuran	1.33	1.30		mg/Kg		98	66 - 115
1,2-Dichlorobenzene	1.33	1.14		mg/Kg		85	62 - 110
1,3-Dichlorobenzene	1.33	1.11		mg/Kg		83	65 - 124
1,4-Dichlorobenzene	1.33	1.11		mg/Kg		84	61 - 110
3,3'-Dichlorobenzidine	1.33	1.01		mg/Kg		76	35 - 128
2,4-Dichlorophenol	1.33	1.31		mg/Kg		98	58 - 120
Diethyl phthalate	1.33	1.36		mg/Kg		102	58 - 120
2,4-Dimethylphenol	1.33	1.29		mg/Kg		97	60 - 110
Dimethyl phthalate	1.33	1.33		mg/Kg		99	69 - 116
Di-n-butyl phthalate	1.33	1.32		mg/Kg		99	65 - 120
4,6-Dinitro-2-methylphenol	2.67	1.32		mg/Kg		50	10 - 110
2,4-Dinitrophenol	2.67	0.876		mg/Kg		33	10 - 100
2,4-Dinitrotoluene	1.33	1.39		mg/Kg		104	69 - 124
2,6-Dinitrotoluene	1.33	1.38		mg/Kg		104	70 - 123
Di-n-octyl phthalate	1.33	1.03		mg/Kg		77	68 - 134
Fluoranthene	1.33	1.35		mg/Kg		101	62 - 120
Fluorene	1.33	1.39		mg/Kg		104	62 - 120
Hexachlorobenzene	1.33	1.57		mg/Kg		118	63 - 124
Hexachlorobutadiene	1.33	1.33		mg/Kg		100	56 - 120
Hexachlorocyclopentadiene	1.33	1.06		mg/Kg		80	10 - 133
Hexachloroethane	1.33	1.06		mg/Kg		80	60 - 114
Indeno[1,2,3-cd]pyrene	1.33	1.63		mg/Kg		123	68 - 130
Isophorone	1.33	1.17		mg/Kg		88	55 - 110
2-Methylnaphthalene	1.33	1.33		mg/Kg		99	69 - 112
2-Methylphenol	1.33	1.15		mg/Kg		87	60 - 120
3 & 4 Methylphenol	1.33	1.18		mg/Kg		88	57 - 120
Naphthalene	1.33	1.24		mg/Kg		93	63 - 110
2-Nitroaniline	1.33	1.19		mg/Kg		89	57 - 124
3-Nitroaniline	1.33	1.04		mg/Kg		78	40 - 122
4-Nitroaniline	1.33	1.19		mg/Kg		90	60 - 160
Nitrobenzene	1.33	1.17		mg/Kg		88	60 - 116
2-Nitrophenol	1.33	1.24		mg/Kg		93	60 - 120
4-Nitrophenol	2.67	2.48		mg/Kg		93	30 - 122
N-Nitrosodi-n-propylamine	1.33	1.17		mg/Kg		88	56 - 118
N-Nitrosodiphenylamine	1.33	1.37		mg/Kg		103	65 - 112
2,2'-oxybis[1-chloropropane]	1.33	0.805		mg/Kg		60	40 - 124
Pentachlorophenol	2.67	1.87		mg/Kg		70	13 - 112
Phenanthrene	1.33	1.37		mg/Kg		102	62 - 120
Phenol	1.33	1.20		mg/Kg		90	56 - 122
Pyrene	1.33	1.46		mg/Kg		110	61 - 128
1,2,4-Trichlorobenzene	1.33	1.27		mg/Kg		95	66 - 117
2,4,5-Trichlorophenol	1.33	1.33		mg/Kg		100	50 - 120
2,4,6-Trichlorophenol	1.33	1.43		mg/Kg		107	57 - 120

QC Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177914-1

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

Lab Sample ID: LCS 500-530491/2-A
Matrix: Solid
Analysis Batch: 530642

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 530491

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	104		43 - 145
2-Fluorophenol	117		31 - 166
Nitrobenzene-d5	92		37 - 147
Phenol-d5	104		30 - 153
Terphenyl-d14	143		42 - 157
2,4,6-Tribromophenol	138		31 - 143

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-530488/1-A
Matrix: Solid
Analysis Batch: 530785

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 530488

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.39		2.0	0.39	mg/Kg		02/19/20 16:44	02/20/20 17:36	1
Arsenic	<0.34		1.0	0.34	mg/Kg		02/19/20 16:44	02/20/20 17:36	1
Barium	<0.11		1.0	0.11	mg/Kg		02/19/20 16:44	02/20/20 17:36	1
Beryllium	<0.093		0.40	0.093	mg/Kg		02/19/20 16:44	02/20/20 17:36	1
Cadmium	0.0416	J	0.20	0.036	mg/Kg		02/19/20 16:44	02/20/20 17:36	1
Chromium	<0.50		1.0	0.50	mg/Kg		02/19/20 16:44	02/20/20 17:36	1
Cobalt	<0.13		0.50	0.13	mg/Kg		02/19/20 16:44	02/20/20 17:36	1
Copper	<0.28		1.0	0.28	mg/Kg		02/19/20 16:44	02/20/20 17:36	1
Iron	13.1	J	20	10	mg/Kg		02/19/20 16:44	02/20/20 17:36	1
Lead	<0.23		0.50	0.23	mg/Kg		02/19/20 16:44	02/20/20 17:36	1
Magnesium	<5.0		10	5.0	mg/Kg		02/19/20 16:44	02/20/20 17:36	1
Calcium	7.31	J	20	3.4	mg/Kg		02/19/20 16:44	02/20/20 17:36	1
Manganese	0.198	J	1.0	0.15	mg/Kg		02/19/20 16:44	02/20/20 17:36	1
Nickel	<0.29		1.0	0.29	mg/Kg		02/19/20 16:44	02/20/20 17:36	1
Selenium	<0.59		1.0	0.59	mg/Kg		02/19/20 16:44	02/20/20 17:36	1
Silver	<0.13		0.50	0.13	mg/Kg		02/19/20 16:44	02/20/20 17:36	1
Thallium	<0.50		1.0	0.50	mg/Kg		02/19/20 16:44	02/20/20 17:36	1
Vanadium	<0.12		0.50	0.12	mg/Kg		02/19/20 16:44	02/20/20 17:36	1
Zinc	1.05	J	2.0	0.88	mg/Kg		02/19/20 16:44	02/20/20 17:36	1
Potassium	<18		50	18	mg/Kg		02/19/20 16:44	02/20/20 17:36	1
Sodium	<15		100	15	mg/Kg		02/19/20 16:44	02/20/20 17:36	1

Lab Sample ID: LCS 500-530488/2-A
Matrix: Solid
Analysis Batch: 530785

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 530488

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
Antimony	50.0	45.6		mg/Kg		91		80 - 120
Arsenic	10.0	8.75		mg/Kg		87		80 - 120
Barium	200	193		mg/Kg		97		80 - 120
Beryllium	5.00	4.59		mg/Kg		92		80 - 120
Cadmium	5.00	4.58		mg/Kg		92		80 - 120
Chromium	20.0	19.2		mg/Kg		96		80 - 120
Cobalt	50.0	47.5		mg/Kg		95		80 - 120
Copper	25.0	24.0		mg/Kg		96		80 - 120

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QC Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177914-1

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

Lab Sample ID: LCS 500-530488/2-A
Matrix: Solid
Analysis Batch: 530785

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 530488

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	100	108		mg/Kg		108	80 - 120
Lead	10.0	9.02		mg/Kg		90	80 - 120
Magnesium	1000	886		mg/Kg		89	80 - 120
Calcium	1000	929		mg/Kg		93	80 - 120
Manganese	50.0	45.6		mg/Kg		91	80 - 120
Nickel	50.0	46.9		mg/Kg		94	80 - 120
Selenium	10.0	8.87		mg/Kg		89	80 - 120
Silver	5.00	4.31		mg/Kg		86	80 - 120
Thallium	10.0	9.33		mg/Kg		93	80 - 120
Vanadium	50.0	48.2		mg/Kg		96	80 - 120
Zinc	50.0	47.7		mg/Kg		95	80 - 120
Potassium	1000	977		mg/Kg		98	80 - 120
Sodium	1000	957		mg/Kg		96	80 - 120

Lab Sample ID: LCS 500-530714/2-A
Matrix: Solid
Analysis Batch: 530900

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 530714

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.100	0.0897		mg/L		90	80 - 120
Manganese	0.500	0.464		mg/L		93	80 - 120

Lab Sample ID: LCS 500-530716/2-A
Matrix: Solid
Analysis Batch: 531048

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 530716

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.112		mg/L		112	80 - 120
Barium	0.500	0.502		mg/L		100	80 - 120
Beryllium	0.0500	0.0491		mg/L		98	80 - 120
Cadmium	0.0500	0.0525		mg/L		105	80 - 120
Chromium	0.200	0.181		mg/L		91	80 - 120
Cobalt	0.500	0.491		mg/L		98	80 - 120
Copper	0.250	0.269		mg/L		108	80 - 120
Iron	1.00	0.948		mg/L		95	80 - 120
Lead	0.100	0.0896		mg/L		90	80 - 120
Magnesium	10.0	8.78		mg/L		88	80 - 120
Calcium	10.0	9.06		mg/L		91	80 - 120
Manganese	0.500	0.467		mg/L		93	80 - 120
Nickel	0.500	0.487		mg/L		97	80 - 120
Selenium	0.100	0.103		mg/L		103	80 - 120
Silver	0.0500	0.0492		mg/L		98	80 - 120
Vanadium	0.500	0.477		mg/L		95	80 - 120
Zinc	0.500	0.510		mg/L		102	80 - 120
Potassium	10.0	10.8		mg/L		108	80 - 120

QC Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177914-1

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

Lab Sample ID: LB 500-530439/1-B
Matrix: Solid
Analysis Batch: 531048

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 530716

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.010		0.050	0.010	mg/L		02/20/20 14:45	02/21/20 10:51	1
Barium	<0.050		0.50	0.050	mg/L		02/20/20 14:45	02/21/20 10:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/20/20 14:45	02/21/20 10:51	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		02/20/20 14:45	02/21/20 10:51	1
Chromium	<0.010		0.025	0.010	mg/L		02/20/20 14:45	02/21/20 10:51	1
Cobalt	<0.010		0.025	0.010	mg/L		02/20/20 14:45	02/21/20 10:51	1
Copper	0.0241	J	0.025	0.010	mg/L		02/20/20 14:45	02/21/20 10:51	1
Iron	<0.20		0.40	0.20	mg/L		02/20/20 14:45	02/21/20 10:51	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/20/20 14:45	02/21/20 10:51	1
Magnesium	<0.50		2.5	0.50	mg/L		02/20/20 14:45	02/21/20 10:51	1
Calcium	<0.50		5.0	0.50	mg/L		02/20/20 14:45	02/21/20 10:51	1
Manganese	<0.010		0.025	0.010	mg/L		02/20/20 14:45	02/21/20 10:51	1
Nickel	<0.010		0.025	0.010	mg/L		02/20/20 14:45	02/21/20 10:51	1
Selenium	<0.020		0.050	0.020	mg/L		02/20/20 14:45	02/21/20 10:51	1
Silver	<0.010		0.025	0.010	mg/L		02/20/20 14:45	02/21/20 10:51	1
Vanadium	<0.010		0.025	0.010	mg/L		02/20/20 14:45	02/21/20 10:51	1
Zinc	<0.020		0.50	0.020	mg/L		02/20/20 14:45	02/21/20 10:51	1
Potassium	<0.50		2.5	0.50	mg/L		02/20/20 14:45	02/21/20 10:51	1

Lab Sample ID: LB 500-530437/1-B
Matrix: Solid
Analysis Batch: 530900

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 530714

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	<0.0075		0.0075	0.0075	mg/L		02/20/20 14:43	02/21/20 10:04	1
Manganese	<0.010		0.025	0.010	mg/L		02/20/20 14:43	02/21/20 10:04	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-530716/2-A
Matrix: Solid
Analysis Batch: 531117

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 530716

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
Antimony	0.500	0.501		mg/L		100		80 - 120
Thallium	0.100	0.0958		mg/L		96		80 - 120

Lab Sample ID: LB 500-530439/1-B
Matrix: Solid
Analysis Batch: 531117

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 530716

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0060		0.0060	0.0060	mg/L		02/20/20 14:45	02/21/20 22:47	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/20/20 14:45	02/21/20 22:47	1

QC Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177914-1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-530882/12-A
 Matrix: Solid
 Analysis Batch: 531118

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 530882

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/21/20 10:55	02/24/20 07:56	1

Lab Sample ID: LCS 500-530882/14-A
 Matrix: Solid
 Analysis Batch: 531118

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 530882
 %Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00195		mg/L		97	80 - 120

Lab Sample ID: LB 500-530439/1-C
 Matrix: Solid
 Analysis Batch: 531118

Client Sample ID: Method Blank
 Prep Type: TCLP
 Prep Batch: 530882

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/21/20 10:55	02/24/20 08:15	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-531148/12-A
 Matrix: Solid
 Analysis Batch: 531351

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 531148

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		02/24/20 15:45	02/25/20 07:22	1

Lab Sample ID: LCS 500-531148/13-A
 Matrix: Solid
 Analysis Batch: 531351

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 531148
 %Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.150		mg/Kg		90	80 - 120

Method: 9014 - Cyanide

Lab Sample ID: MB 500-531365/1-A
 Matrix: Solid
 Analysis Batch: 531511

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 531365

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.25		0.50	0.25	mg/Kg		02/25/20 15:25	02/26/20 10:11	1

Lab Sample ID: LCS 500-531365/2-A
 Matrix: Solid
 Analysis Batch: 531511

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 531365
 %Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	5.00	4.26		mg/Kg		85	85 - 115

Lab Chronicle

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177914-1

Client Sample ID: 3229V-14-B02 (0-2)

Lab Sample ID: 500-177914-1

Date Collected: 02/14/20 10:45

Matrix: Solid

Date Received: 02/14/20 15:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			530439	02/19/20 12:00	BEC	TAL CHI
TCLP	Prep	3010A			530716	02/20/20 14:45	BDE	TAL CHI
TCLP	Analysis	6010B		1	531048	02/21/20 11:32	EEN	TAL CHI
TCLP	Leach	1311			530439	02/19/20 12:00	BEC	TAL CHI
TCLP	Prep	3010A			530716	02/20/20 14:45	BDE	TAL CHI
TCLP	Analysis	6020A		1	531117	02/21/20 23:04	FXG	TAL CHI
TCLP	Leach	1311			530439	02/19/20 12:00	BEC	TAL CHI
TCLP	Prep	7470A			530882	02/21/20 10:55	MJG	TAL CHI
TCLP	Analysis	7470A		1	531118	02/24/20 08:34	MJG	TAL CHI
Total/NA	Analysis	9045D		1	530483	02/19/20 14:13	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	530391	02/19/20 10:55	LWN	TAL CHI

Client Sample ID: 3229V-14-B02 (0-2)

Lab Sample ID: 500-177914-1

Date Collected: 02/14/20 10:45

Matrix: Solid

Date Received: 02/14/20 15:38

Percent Solids: 84.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			529875	02/14/20 17:08	WRE	TAL CHI
Total/NA	Analysis	8260B		1	530336	02/19/20 14:56	PMF	TAL CHI
Total/NA	Prep	3541			530491	02/19/20 16:58	CMC	TAL CHI
Total/NA	Analysis	8270D		1	530858	02/21/20 18:20	AJD	TAL CHI
Total/NA	Prep	3050B			530488	02/19/20 16:44	BDE	TAL CHI
Total/NA	Analysis	6010B		1	530785	02/20/20 18:24	EEN	TAL CHI
Total/NA	Prep	3050B			530488	02/19/20 16:44	BDE	TAL CHI
Total/NA	Analysis	6010B		10	531048	02/21/20 12:48	EEN	TAL CHI
Total/NA	Prep	7471B			531148	02/24/20 15:45	MJG	TAL CHI
Total/NA	Analysis	7471B		1	531351	02/25/20 08:06	MJG	TAL CHI
Total/NA	Prep	9010B			531365	02/25/20 15:25	MS	TAL CHI
Total/NA	Analysis	9014		1	531511	02/26/20 10:16	MS	TAL CHI

Client Sample ID: 3229V-14-B01 (0-5)

Lab Sample ID: 500-177914-2

Date Collected: 02/14/20 11:00

Matrix: Solid

Date Received: 02/14/20 15:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			530437	02/19/20 12:00	BEC	TAL CHI
SPLP East	Prep	3010A			530714	02/20/20 14:43	BDE	TAL CHI
SPLP East	Analysis	6010B		1	530900	02/21/20 10:54	EEN	TAL CHI
TCLP	Leach	1311			530439	02/19/20 12:00	BEC	TAL CHI
TCLP	Prep	3010A			530716	02/20/20 14:45	BDE	TAL CHI
TCLP	Analysis	6010B		1	531048	02/21/20 11:36	EEN	TAL CHI
TCLP	Leach	1311			530439	02/19/20 12:00	BEC	TAL CHI
TCLP	Prep	3010A			530716	02/20/20 14:45	BDE	TAL CHI
TCLP	Analysis	6020A		1	531117	02/21/20 23:06	FXG	TAL CHI

Lab Chronicle

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177914-1

Client Sample ID: 3229V-14-B01 (0-5)

Lab Sample ID: 500-177914-2

Date Collected: 02/14/20 11:00

Matrix: Solid

Date Received: 02/14/20 15:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			530439	02/19/20 12:00	BEC	TAL CHI
TCLP	Prep	7470A			530882	02/21/20 10:55	MJG	TAL CHI
TCLP	Analysis	7470A		1	531118	02/24/20 08:35	MJG	TAL CHI
Total/NA	Analysis	9045D		1	530483	02/19/20 14:16	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	530391	02/19/20 10:55	LWN	TAL CHI

Client Sample ID: 3229V-14-B01 (0-5)

Lab Sample ID: 500-177914-2

Date Collected: 02/14/20 11:00

Matrix: Solid

Date Received: 02/14/20 15:38

Percent Solids: 79.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			529875	02/14/20 17:08	WRE	TAL CHI
Total/NA	Analysis	8260B		1	530336	02/19/20 15:22	PMF	TAL CHI
Total/NA	Prep	3541			530491	02/19/20 16:58	CMC	TAL CHI
Total/NA	Analysis	8270D		1	530858	02/21/20 18:43	AJD	TAL CHI
Total/NA	Prep	3050B			530488	02/19/20 16:44	BDE	TAL CHI
Total/NA	Analysis	6010B		1	530785	02/20/20 18:28	EEN	TAL CHI
Total/NA	Prep	7471B			531148	02/24/20 15:45	MJG	TAL CHI
Total/NA	Analysis	7471B		1	531351	02/25/20 08:08	MJG	TAL CHI
Total/NA	Prep	9010B			531365	02/25/20 15:25	MS	TAL CHI
Total/NA	Analysis	9014		1	531511	02/26/20 10:17	MS	TAL CHI

Client Sample ID: 3229V-14-B01 (0-5) Dup

Lab Sample ID: 500-177914-3

Date Collected: 02/14/20 11:05

Matrix: Solid

Date Received: 02/14/20 15:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			530437	02/19/20 12:00	BEC	TAL CHI
SPLP East	Prep	3010A			530714	02/20/20 14:43	BDE	TAL CHI
SPLP East	Analysis	6010B		1	530900	02/21/20 10:58	EEN	TAL CHI
TCLP	Leach	1311			530439	02/19/20 12:00	BEC	TAL CHI
TCLP	Prep	3010A			530716	02/20/20 14:45	BDE	TAL CHI
TCLP	Analysis	6010B		1	531048	02/21/20 11:40	EEN	TAL CHI
TCLP	Leach	1311			530439	02/19/20 12:00	BEC	TAL CHI
TCLP	Prep	3010A			530716	02/20/20 14:45	BDE	TAL CHI
TCLP	Analysis	6020A		1	531117	02/21/20 23:12	FXG	TAL CHI
TCLP	Leach	1311			530439	02/19/20 12:00	BEC	TAL CHI
TCLP	Prep	7470A			530882	02/21/20 10:55	MJG	TAL CHI
TCLP	Analysis	7470A		1	531118	02/24/20 08:37	MJG	TAL CHI
Total/NA	Analysis	9045D		1	530483	02/19/20 14:18	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	530391	02/19/20 10:55	LWN	TAL CHI

Lab Chronicle

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177914-1

Client Sample ID: 3229V-14-B01 (0-5) Dup

Lab Sample ID: 500-177914-3

Date Collected: 02/14/20 11:05

Matrix: Solid

Date Received: 02/14/20 15:38

Percent Solids: 76.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			529875	02/14/20 17:08	WRE	TAL CHI
Total/NA	Analysis	8260B		1	530826	02/21/20 12:53	PMF	TAL CHI
Total/NA	Prep	3541			530491	02/19/20 16:58	CMC	TAL CHI
Total/NA	Analysis	8270D		1	530723	02/21/20 03:25	NRJ	TAL CHI
Total/NA	Prep	3050B			530488	02/19/20 16:44	BDE	TAL CHI
Total/NA	Analysis	6010B		1	530785	02/20/20 18:32	EEN	TAL CHI
Total/NA	Prep	7471B			531148	02/24/20 15:45	MJG	TAL CHI
Total/NA	Analysis	7471B		1	531351	02/25/20 08:10	MJG	TAL CHI
Total/NA	Prep	9010B			531365	02/25/20 15:25	MS	TAL CHI
Total/NA	Analysis	9014		1	531511	02/26/20 10:17	MS	TAL CHI

Client Sample ID: 3229V-14-B01 (5-10)

Lab Sample ID: 500-177914-4

Date Collected: 02/14/20 11:10

Matrix: Solid

Date Received: 02/14/20 15:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			530437	02/19/20 12:00	BEC	TAL CHI
SPLP East	Prep	3010A			530714	02/20/20 14:43	BDE	TAL CHI
SPLP East	Analysis	6010B		1	530900	02/21/20 11:03	EEN	TAL CHI
TCLP	Leach	1311			530439	02/19/20 12:00	BEC	TAL CHI
TCLP	Prep	3010A			530716	02/20/20 14:45	BDE	TAL CHI
TCLP	Analysis	6010B		1	531048	02/21/20 11:45	EEN	TAL CHI
TCLP	Leach	1311			530439	02/19/20 12:00	BEC	TAL CHI
TCLP	Prep	3010A			530716	02/20/20 14:45	BDE	TAL CHI
TCLP	Analysis	6020A		1	531117	02/21/20 23:14	FXG	TAL CHI
TCLP	Leach	1311			530439	02/19/20 12:00	BEC	TAL CHI
TCLP	Prep	7470A			530882	02/21/20 10:55	MJG	TAL CHI
TCLP	Analysis	7470A		1	531118	02/24/20 08:38	MJG	TAL CHI
Total/NA	Analysis	9045D		1	530483	02/19/20 14:21	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	530391	02/19/20 10:55	LWN	TAL CHI

Client Sample ID: 3229V-14-B01 (5-10)

Lab Sample ID: 500-177914-4

Date Collected: 02/14/20 11:10

Matrix: Solid

Date Received: 02/14/20 15:38

Percent Solids: 74.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			529875	02/14/20 17:08	WRE	TAL CHI
Total/NA	Analysis	8260B		1	530336	02/19/20 15:47	PMF	TAL CHI
Total/NA	Prep	3541			530491	02/19/20 16:58	CMC	TAL CHI
Total/NA	Analysis	8270D		1	530858	02/21/20 15:38	AJD	TAL CHI
Total/NA	Prep	3050B			530488	02/19/20 16:44	BDE	TAL CHI
Total/NA	Analysis	6010B		1	530785	02/20/20 18:37	EEN	TAL CHI
Total/NA	Prep	7471B			531148	02/24/20 15:45	MJG	TAL CHI
Total/NA	Analysis	7471B		1	531351	02/25/20 08:16	MJG	TAL CHI

Lab Chronicle

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177914-1

Client Sample ID: 3229V-14-B01 (5-10)

Lab Sample ID: 500-177914-4

Date Collected: 02/14/20 11:10

Matrix: Solid

Date Received: 02/14/20 15:38

Percent Solids: 74.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	9010B			531365	02/25/20 15:25	MS	TAL CHI
Total/NA	Analysis	9014		1	531511	02/26/20 10:18	MS	TAL CHI

Laboratory References:

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

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Accreditation/Certification Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177914-1

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20

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

Chain of Custody Record 417040 eurofins

Environment Testing
TestAmerica

Address: _____

Regulatory Program: DW NPDES RCRA Other:

TAL-8210

Client Contact		Project Manager: <u>Mike Fischer</u>		Site Contact:		Date: <u>2-14-20</u>		COC No:	
Company Name: <u>EA</u>		Tel/Email:		Lab Contact: <u>R. Wright</u>		Carrier:		1 of 1 COCs	
Address: <u>33 W. Monroe, Ste. 1825</u>		Analysis Turnaround Time		Filtered Sample (Y/N) Perform MS / MSD (Y/N) VOC SVOC Total 23 Inorg. TCUP 23 Inorg. Total Cyanide pH		 500-177914 COC		Sampler: <u>M. Fischer</u>	
City/State/Zip: <u>Chicago, IL 60603</u>		<input checked="" type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS						For Lab Use Only:	
Phone: <u>312-345-1400</u>		TAT if different from Below _____						Walk-in Client:	
Fax:		<input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day						Lab Sampling:	
Project Name: <u>PTB 174-009-WD68A</u>								Job / SDG No.: <u>500-177914</u>	
Site: <u>3229V-14</u>									
PO # <u>2031-001.068A</u>									
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes:		
1 3229V-14-B02 (0-2)		2/14/20	1045	G	S	5			
2 -B01 (0-5)			1100						
3 -B01 (0-5) DUP			1105						
4 -B01 (5-10)			1110						
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____									
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown					<input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months				
Special Instructions/QC Requirements & Comments:									
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temp. (°C): Obs'd: <u>4.2</u> Corr'd: _____		Therm ID No.:			
Relinquished by: <u>M. Fischer</u>		Company: <u>EA</u>		Date/Time: <u>2/14/20 1405</u>		Received by: <u>P. Neal</u>		Company: <u>EA</u>	
Relinquished by: <u>P. Neal</u>		Company: <u>EA</u>		Date/Time: <u>2/14/20 1538</u>		Received by: <u>Alvin Scott</u>		Company: <u>EA</u>	
Relinquished by: _____		Company: _____		Date/Time: _____		Received in Laboratory by: _____		Company: _____	

Login Sample Receipt Checklist

Client: Environmental Design International, Inc.

Job Number: 500-177914-1

Login Number: 177914

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAU 1319-Ballard Rd Office Phone Number, if available: _____

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

Ballard Plaza, 8900-8940 N Greenwood Avenue/ Ballard Road (Eastbound), IDOT STA 49+30 to 49+90 (ISGS Site 3229V-15)

City: Niles State: IL Zip Code: 60714

County: Cook Township: Maine

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

Latitude: 42.04364 Longitude: - 87.84109

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

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

Estimated Volume of debris (cu. Yd.): 70

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

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

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

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

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

Soil from boring B02 was sampled adjacent to ISGS Site No 3229V-15.

See Exhibit 5 and Table 20 of the Preliminary Site Investigation Report prepared by Terracon.

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

TestAmerica Lab Report No J177915-1.

Also see Preliminary Site Investigation Report prepared by Terracon. CCDD/USFO facility within the City of Chicago or outside the City of Chicago in a MSA County.

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

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

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

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

Matt Weiss
Printed Name:

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

1/22/21
Date:



[Empty Box]
P.E or L.P.G. Seal:

Comparison of Detected Constituents to MACs-PTB 174-009;Work Order:068A

Preliminary Site Investigation

FAU 1319-Ballard Road (PESA #3229V-15)

Des Plaines and Niles, Cook County, IL

Terracon Project No. 11207011C

Page 1 of 2

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	3229V-15-B02 (0-5)	3229V-15-B02 (5-10)
				CCDD	Sample Depth (feet)	(0-5)	(5-10)
		mg/kg	Date Collected	02/14/2020	02/14/2020		
		pH 6.25-9.0					
Volatile Organic Analytical Parameters							
Acetone	mg/kg	---	---	25		0.026	0.037
2-Butanone	mg/kg	---	---	17		<0.0025	0.0076
Semivolatile Organic Analytical Parameters							
Anthracene	mg/kg	0.25	0.4	12000		0.012	<0.0076
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.042	<0.0061
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.056	<0.0088
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.052	<0.0098
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.023	<0.015
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.015	<0.013
Chrysene	mg/kg	1.2	2.7	88		0.048	<0.012
Fluoranthene	mg/kg	2.7	4.1	3100		0.086	<0.0084
Phenanthrene	mg/kg	1.3	2.5	210		0.053	<0.0063
Pyrene	mg/kg	1.9	3.0	2300		0.089	0.021
1,2,4-Trichlorobenzene	mg/kg	---	---	5		<0.048	<0.049
2,4,5-Trichlorophenol	mg/kg	---	---	26		<0.10	<0.10
2,4,6-Trichlorophenol	mg/kg	---	---	0.66		<0.15	<0.16
Inorganic Analytical Parameters							
Arsenic	mg/kg	---	13	11.3		6.5	3.8
Barium	mg/kg	---	110	1500		100	110
Cadmium	mg/kg	---	0.6	5.2		0.32	0.21
Chromium, total	mg/kg	---	16.2	21		29	29
Lead	mg/kg	---	36	107		39	18
Mercury	mg/kg	---	0.06	0.89		0.039	0.03
Selenium	mg/kg	---	0.48	1.3		0.43	<0.39
Silver	mg/kg	---	0.55	4.4		0.2	0.18
Antimony	mg/kg	---	4.0	5		<0.25	<0.26
Beryllium	mg/kg	---	0.59	22		1.1	1.2
Calcium	mg/kg	---	9,300	---		8500	5900
Cobalt	mg/kg	---	8.9	20		10	10
Copper	mg/kg	---	19.6	2900		30	22
Cyanide	mg/kg	---	0.51	---		<0.31	<0.27
Iron	mg/kg	---	15,900	15000		21000	19000
Magnesium	mg/kg	---	4,820	325000		7400	6100
Manganese	mg/kg	---	636	630		180	140
Nickel	mg/kg	---	18	100		32	33
Potassium	mg/kg	---	1,268	---		4000	3700
Sodium	mg/kg	---	130	---		1800	1900
Thallium	mg/kg	---	0.32	2.6		<0.32	<0.33
Vanadium	mg/kg	---	25.2	550		34	33
Zinc	mg/kg	---	95	5100		95	78
pH			6.25	9		8.3	7.7

Comparison of Detected Constituents to MACs-PTB 174-009;Work Order:068A

Preliminary Site Investigation

FAU 1319-Ballard Road (PESA #3229V-15)

Des Plaines and Niles, Cook County, IL

Terracon Project No. 11207011C

Page 2 of 2

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	3229V-15-B02 (0-5)	3229V-15-B02 (5-10)
				CCDD	Sample Depth (feet)	(0-5)	(5-10)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	02/14/2020	02/14/2020
Inorganic Analytical Parameters (SPLP)							
Antimony,SPLP	mg/L	---	---	---		--	--
Arsenic,SPLP	mg/L	---	---	---		--	--
Barium,SPLP	mg/L	---	---	---		--	--
Beryllium,SPLP	mg/L	---	---	---		--	--
Cadmium,SPLP	mg/L	---	---	---		--	--
Calcium,SPLP	mg/L	---	---	---		--	--
Chromium,SPLP	mg/L	---	---	---		--	--
Cobalt,SPLP	mg/L	---	---	---		--	--
Copper,SPLP	mg/L	---	---	---		--	--
Iron,SPLP	mg/L	---	---	---		--	--
Lead,SPLP	mg/L	---	---	---		--	--
Magnesium,SPLP	mg/L	---	---	---		--	--
Manganese,SPLP	mg/L	---	---	---		1	0.63
Mercury,SPLP	mg/L	---	---	---		--	--
Nickel,SPLP	mg/L	---	---	---		--	--
Potassium,SPLP	mg/L	---	---	---		--	--
Selenium,SPLP	mg/L	---	---	---		--	--
Silver,SPLP	mg/L	---	---	---		--	--
Sodium,SPLP	mg/L	---	---	---		--	--
Thallium,SPLP	mg/L	---	---	---		--	--
Vanadium,SPLP	mg/L	---	---	---		--	--
Zinc,SPLP	mg/L	---	---	---		--	--
Cyanide,SPLP	mg/L	---	---	---		--	--
Inorganic Analytical Parameters (TCLP)							
Arsenic,TCLP	mg/L	---	---	---		<0.010	<0.010
Barium,TCLP	mg/L	---	---	---		0.52	0.26
Cadmium,TCLP	mg/L	---	---	---		0.0026	<0.0020
Chromium,TCLP	mg/L	---	---	---		<0.010	<0.010
Lead,TCLP	mg/L	---	---	---		<0.0075	<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020	<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.020	<0.020
Silver,TCLP	mg/L	---	---	---		<0.010	<0.010
Antimony,TCLP	mg/L	---	---	---		<0.0060	<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040	<0.0040
Calcium,TCLP	mg/L	---	---	---		260	90
Cobalt,TCLP	mg/L	---	---	---		0.011	<0.010
Copper,TCLP	mg/L	---	---	---		<0.010	<0.010
Cyanide,TCLP	mg/L	---	---	---		--	--
Iron,TCLP	mg/L	---	---	---		<0.20	<0.20
Magnesium,TCLP	mg/L	---	---	---		71	28
Manganese,TCLP	mg/L	---	---	---		3.9	0.91
Nickel,TCLP	mg/L	---	---	---		<0.010	<0.010
Potassium,TCLP	mg/L	---	---	---		3.8	1.7
Sodium,TCLP	mg/L	---	---	---		--	--
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.010	<0.010
Zinc,TCLP	mg/L	---	---	---		0.047	0.039

ANALYTICAL REPORT

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

Laboratory Job ID: 500-177915-1

Client Project/Site: IDOT - PTB 174-009 - WO 068

For:

Environmental Design International, Inc.
33 W. Monroe
Suite 1825
Chicago, Illinois 60603

Attn: Michael Fischer



Authorized for release by:
2/26/2020 5:00:37 PM

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

LINKS

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www.testamericainc.com

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

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

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

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Case Narrative

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177915-1

Job ID: 500-177915-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-177915-1

Receipt

The samples were received on 2/14/2020 3:38 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.2° C.

GC/MS VOA

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

GC/MS Semi VOA

Method 8270D: The following samples contained one base surrogate outside acceptance limits: 3229V-15-B02 (0-5) (500-177915-1) and 3229V-15-B02 (5-10) (500-177915-2). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

Method 8270D: The following matrix spike/matrix spike duplicate (MS/MSD) recovered at 0% for two analytes: 2,4-Dinitrophenol and Hexachlorocyclopentadiene. Data has been qualified and reported. (500-177915-E-1-E MS) and (500-177915-E-1-F MSD)

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

Metals

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

General Chemistry

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

Organic Prep

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

Detection Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177915-1

Client Sample ID: 3229V-15-B02 (0-5)

Lab Sample ID: 500-177915-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.026		0.022	0.0097	mg/Kg	1	*	8260B	Total/NA
Anthracene	0.012	J F1	0.044	0.0074	mg/Kg	1	*	8270D	Total/NA
Benzo[a]anthracene	0.042	J F1	0.044	0.0060	mg/Kg	1	*	8270D	Total/NA
Benzo[a]pyrene	0.056		0.044	0.0086	mg/Kg	1	*	8270D	Total/NA
Benzo[b]fluoranthene	0.052		0.044	0.0096	mg/Kg	1	*	8270D	Total/NA
Benzo[g,h,i]perylene	0.023	J	0.044	0.014	mg/Kg	1	*	8270D	Total/NA
Benzo[k]fluoranthene	0.015	J	0.044	0.013	mg/Kg	1	*	8270D	Total/NA
Chrysene	0.048	F1	0.044	0.012	mg/Kg	1	*	8270D	Total/NA
Fluoranthene	0.086	F1	0.044	0.0082	mg/Kg	1	*	8270D	Total/NA
Phenanthrene	0.053	F1	0.044	0.0062	mg/Kg	1	*	8270D	Total/NA
Pyrene	0.089	F1	0.044	0.0088	mg/Kg	1	*	8270D	Total/NA
Arsenic	6.5		0.65	0.22	mg/Kg	1	*	6010B	Total/NA
Barium	100		0.65	0.074	mg/Kg	1	*	6010B	Total/NA
Beryllium	1.1		0.26	0.060	mg/Kg	1	*	6010B	Total/NA
Cadmium	0.32	B	0.13	0.023	mg/Kg	1	*	6010B	Total/NA
Chromium	29		0.65	0.32	mg/Kg	1	*	6010B	Total/NA
Cobalt	10		0.32	0.085	mg/Kg	1	*	6010B	Total/NA
Copper	30		0.65	0.18	mg/Kg	1	*	6010B	Total/NA
Iron	21000	B	13	6.7	mg/Kg	1	*	6010B	Total/NA
Lead	39		0.32	0.15	mg/Kg	1	*	6010B	Total/NA
Magnesium	7400		6.5	3.2	mg/Kg	1	*	6010B	Total/NA
Calcium	8500		13	2.2	mg/Kg	1	*	6010B	Total/NA
Manganese	180		0.65	0.094	mg/Kg	1	*	6010B	Total/NA
Nickel	32		0.65	0.19	mg/Kg	1	*	6010B	Total/NA
Selenium	0.43	J	0.65	0.38	mg/Kg	1	*	6010B	Total/NA
Silver	0.20	J	0.32	0.083	mg/Kg	1	*	6010B	Total/NA
Vanadium	34		0.32	0.076	mg/Kg	1	*	6010B	Total/NA
Zinc	95	B	1.3	0.57	mg/Kg	1	*	6010B	Total/NA
Potassium	4000		32	11	mg/Kg	1	*	6010B	Total/NA
Sodium	1800		65	9.6	mg/Kg	1	*	6010B	Total/NA
Barium	0.52		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0026	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	260		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	71		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	3.9		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.8		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.047	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.0		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.039		0.021	0.0070	mg/Kg	1	*	7471B	Total/NA
pH	8.3		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3229V-15-B02 (5-10)

Lab Sample ID: 500-177915-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.037		0.026	0.011	mg/Kg	1	*	8260B	Total/NA
2-Butanone (MEK)	0.0076		0.0065	0.0029	mg/Kg	1	*	8260B	Total/NA
Pyrene	0.021	J	0.045	0.0090	mg/Kg	1	*	8270D	Total/NA
Arsenic	3.8		0.66	0.23	mg/Kg	1	*	6010B	Total/NA
Barium	110		0.66	0.075	mg/Kg	1	*	6010B	Total/NA
Beryllium	1.2		0.26	0.062	mg/Kg	1	*	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177915-1

Client Sample ID: 3229V-15-B02 (5-10) (Continued)

Lab Sample ID: 500-177915-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.21	B	0.13	0.024	mg/Kg	1	☼	6010B	Total/NA
Chromium	29		0.66	0.33	mg/Kg	1	☼	6010B	Total/NA
Cobalt	10		0.33	0.087	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.66	0.19	mg/Kg	1	☼	6010B	Total/NA
Iron	19000	B	13	6.9	mg/Kg	1	☼	6010B	Total/NA
Lead	18		0.33	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	6100		6.6	3.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	5900		13	2.2	mg/Kg	1	☼	6010B	Total/NA
Manganese	140		0.66	0.096	mg/Kg	1	☼	6010B	Total/NA
Nickel	33		0.66	0.19	mg/Kg	1	☼	6010B	Total/NA
Silver	0.18	J	0.33	0.085	mg/Kg	1	☼	6010B	Total/NA
Vanadium	33		0.33	0.078	mg/Kg	1	☼	6010B	Total/NA
Zinc	78	B	1.3	0.58	mg/Kg	1	☼	6010B	Total/NA
Potassium	3700		33	12	mg/Kg	1	☼	6010B	Total/NA
Sodium	1900		66	9.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.26	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	90		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	28		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.91		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.7	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.039	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.63		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.030		0.022	0.0072	mg/Kg	1	☼	7471B	Total/NA
pH	7.7		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3229V-15-B01 (0-2)

Lab Sample ID: 500-177915-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.031	J	0.042	0.0076	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.052		0.042	0.0070	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.23		0.042	0.0057	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.29		0.042	0.0081	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.39		0.042	0.0091	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.14		0.042	0.014	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.14		0.042	0.012	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.14	J	0.21	0.077	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.32		0.042	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.041	J	0.042	0.0081	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.54		0.042	0.0078	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.025	J	0.042	0.0059	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.13		0.042	0.011	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.011	J	0.042	0.0065	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.30		0.042	0.0059	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.48		0.042	0.0083	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.54	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.7		0.62	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	97		0.62	0.071	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.97		0.25	0.058	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.79	B	0.12	0.022	mg/Kg	1	☼	6010B	Total/NA
Chromium	29		0.62	0.31	mg/Kg	1	☼	6010B	Total/NA
Cobalt	10		0.31	0.082	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177915-1

Client Sample ID: 3229V-15-B01 (0-2) (Continued)

Lab Sample ID: 500-177915-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	27		0.62	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	12	6.5	mg/Kg	1	☼	6010B	Total/NA
Lead	140		0.31	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	8500		6.2	3.1	mg/Kg	1	☼	6010B	Total/NA
Calcium	13000		12	2.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	340		0.62	0.091	mg/Kg	1	☼	6010B	Total/NA
Nickel	32		0.62	0.18	mg/Kg	1	☼	6010B	Total/NA
Silver	0.21	J	0.31	0.081	mg/Kg	1	☼	6010B	Total/NA
Vanadium	30		0.31	0.074	mg/Kg	1	☼	6010B	Total/NA
Zinc	120	B	1.2	0.55	mg/Kg	1	☼	6010B	Total/NA
Potassium	3000		31	11	mg/Kg	1	☼	6010B	Total/NA
Sodium	780		62	9.2	mg/Kg	1	☼	6010B	Total/NA
Barium	0.39	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0048	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	370		5.0	0.50	mg/L	1		6010B	TCLP
Lead	0.0093		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	65		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.13		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.1	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.036	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.59		0.0075	0.0075	mg/L	1		6010B	SPLP East
Mercury	0.028		0.020	0.0068	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.33	J	0.59	0.29	mg/Kg	1	☼	9014	Total/NA
pH	8.0		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Method Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177915-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6010B	SPLP Metals	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9014	Cyanide	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
1311	TCLP Extraction	SW846	TAL CHI
1312	SPLP Extraction	SW846	TAL CHI
3010A	Preparation, Total Metals	SW846	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL CHI
7471B	Preparation, Mercury	SW846	TAL CHI
9010B	Cyanide, Distillation	SW846	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177915-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-177915-1	3229V-15-B02 (0-5)	Solid	02/14/20 11:30	02/14/20 15:38	
500-177915-2	3229V-15-B02 (5-10)	Solid	02/14/20 11:35	02/14/20 15:38	
500-177915-3	3229V-15-B01 (0-2)	Solid	02/14/20 11:45	02/14/20 15:38	

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Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177915-1

Client Sample ID: 3229V-15-B02 (0-5)

Lab Sample ID: 500-177915-1

Date Collected: 02/14/20 11:30

Matrix: Solid

Date Received: 02/14/20 15:38

Percent Solids: 74.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.026		0.022	0.0097	mg/Kg	☼	02/14/20 17:08	02/18/20 16:49	1
Benzene	<0.00057		0.0022	0.00057	mg/Kg	☼	02/14/20 17:08	02/18/20 16:49	1
Bromodichloromethane	<0.00045		0.0022	0.00045	mg/Kg	☼	02/14/20 17:08	02/18/20 16:49	1
Bromoform	<0.00065		0.0022	0.00065	mg/Kg	☼	02/14/20 17:08	02/18/20 16:49	1
Bromomethane	<0.0021		0.0055	0.0021	mg/Kg	☼	02/14/20 17:08	02/18/20 16:49	1
2-Butanone (MEK)	<0.0025		0.0055	0.0025	mg/Kg	☼	02/14/20 17:08	02/18/20 16:49	1
Carbon disulfide	<0.0012		0.0055	0.0012	mg/Kg	☼	02/14/20 17:08	02/18/20 16:49	1
Carbon tetrachloride	<0.00064		0.0022	0.00064	mg/Kg	☼	02/14/20 17:08	02/18/20 16:49	1
Chlorobenzene	<0.00082		0.0022	0.00082	mg/Kg	☼	02/14/20 17:08	02/18/20 16:49	1
Chloroethane	<0.0016		0.0055	0.0016	mg/Kg	☼	02/14/20 17:08	02/18/20 16:49	1
Chloroform	<0.00077		0.0022	0.00077	mg/Kg	☼	02/14/20 17:08	02/18/20 16:49	1
Chloromethane	<0.0022		0.0055	0.0022	mg/Kg	☼	02/14/20 17:08	02/18/20 16:49	1
cis-1,2-Dichloroethene	<0.00062		0.0022	0.00062	mg/Kg	☼	02/14/20 17:08	02/18/20 16:49	1
cis-1,3-Dichloropropene	<0.00067		0.0022	0.00067	mg/Kg	☼	02/14/20 17:08	02/18/20 16:49	1
Dibromochloromethane	<0.00073		0.0022	0.00073	mg/Kg	☼	02/14/20 17:08	02/18/20 16:49	1
1,1-Dichloroethane	<0.00076		0.0022	0.00076	mg/Kg	☼	02/14/20 17:08	02/18/20 16:49	1
1,2-Dichloroethane	<0.0017		0.0055	0.0017	mg/Kg	☼	02/14/20 17:08	02/18/20 16:49	1
1,1-Dichloroethene	<0.00076		0.0022	0.00076	mg/Kg	☼	02/14/20 17:08	02/18/20 16:49	1
1,2-Dichloropropane	<0.00057		0.0022	0.00057	mg/Kg	☼	02/14/20 17:08	02/18/20 16:49	1
1,3-Dichloropropane, Total	<0.00078		0.0022	0.00078	mg/Kg	☼	02/14/20 17:08	02/18/20 16:49	1
Ethylbenzene	<0.0011		0.0022	0.0011	mg/Kg	☼	02/14/20 17:08	02/18/20 16:49	1
2-Hexanone	<0.0017		0.0055	0.0017	mg/Kg	☼	02/14/20 17:08	02/18/20 16:49	1
Methylene Chloride	<0.0022		0.0055	0.0022	mg/Kg	☼	02/14/20 17:08	02/18/20 16:49	1
4-Methyl-2-pentanone (MIBK)	<0.0016		0.0055	0.0016	mg/Kg	☼	02/14/20 17:08	02/18/20 16:49	1
Methyl tert-butyl ether	<0.00065		0.0022	0.00065	mg/Kg	☼	02/14/20 17:08	02/18/20 16:49	1
Styrene	<0.00067		0.0022	0.00067	mg/Kg	☼	02/14/20 17:08	02/18/20 16:49	1
1,1,2,2-Tetrachloroethane	<0.00071		0.0022	0.00071	mg/Kg	☼	02/14/20 17:08	02/18/20 16:49	1
Tetrachloroethene	<0.00076		0.0022	0.00076	mg/Kg	☼	02/14/20 17:08	02/18/20 16:49	1
Toluene	<0.00056		0.0022	0.00056	mg/Kg	☼	02/14/20 17:08	02/18/20 16:49	1
trans-1,2-Dichloroethene	<0.00098		0.0022	0.00098	mg/Kg	☼	02/14/20 17:08	02/18/20 16:49	1
trans-1,3-Dichloropropene	<0.00078		0.0022	0.00078	mg/Kg	☼	02/14/20 17:08	02/18/20 16:49	1
1,1,1-Trichloroethane	<0.00074		0.0022	0.00074	mg/Kg	☼	02/14/20 17:08	02/18/20 16:49	1
1,1,2-Trichloroethane	<0.00095		0.0022	0.00095	mg/Kg	☼	02/14/20 17:08	02/18/20 16:49	1
Trichloroethene	<0.00075		0.0022	0.00075	mg/Kg	☼	02/14/20 17:08	02/18/20 16:49	1
Vinyl acetate	<0.0019		0.0055	0.0019	mg/Kg	☼	02/14/20 17:08	02/18/20 16:49	1
Vinyl chloride	<0.00098		0.0022	0.00098	mg/Kg	☼	02/14/20 17:08	02/18/20 16:49	1
Xylenes, Total	<0.00071		0.0044	0.00071	mg/Kg	☼	02/14/20 17:08	02/18/20 16:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		75 - 131	02/14/20 17:08	02/18/20 16:49	1
Dibromofluoromethane	109		75 - 126	02/14/20 17:08	02/18/20 16:49	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134	02/14/20 17:08	02/18/20 16:49	1
Toluene-d8 (Surr)	90		75 - 124	02/14/20 17:08	02/18/20 16:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0080		0.044	0.0080	mg/Kg	☼	02/20/20 08:02	02/20/20 20:35	1
Acenaphthylene	<0.0058		0.044	0.0058	mg/Kg	☼	02/20/20 08:02	02/20/20 20:35	1
Anthracene	0.012	J F1	0.044	0.0074	mg/Kg	☼	02/20/20 08:02	02/20/20 20:35	1
Benzo[a]anthracene	0.042	J F1	0.044	0.0060	mg/Kg	☼	02/20/20 08:02	02/20/20 20:35	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177915-1

Client Sample ID: 3229V-15-B02 (0-5)

Lab Sample ID: 500-177915-1

Date Collected: 02/14/20 11:30

Matrix: Solid

Date Received: 02/14/20 15:38

Percent Solids: 74.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.056		0.044	0.0086	mg/Kg	☼	02/20/20 08:02	02/20/20 20:35	1
Benzo[b]fluoranthene	0.052		0.044	0.0096	mg/Kg	☼	02/20/20 08:02	02/20/20 20:35	1
Benzo[g,h,i]perylene	0.023	J	0.044	0.014	mg/Kg	☼	02/20/20 08:02	02/20/20 20:35	1
Benzo[k]fluoranthene	0.015	J	0.044	0.013	mg/Kg	☼	02/20/20 08:02	02/20/20 20:35	1
Bis(2-chloroethoxy)methane	<0.045		0.22	0.045	mg/Kg	☼	02/20/20 08:02	02/20/20 20:35	1
Bis(2-chloroethyl)ether	<0.066		0.22	0.066	mg/Kg	☼	02/20/20 08:02	02/20/20 20:35	1
Bis(2-ethylhexyl) phthalate	<0.081	F1	0.22	0.081	mg/Kg	☼	02/20/20 08:02	02/20/20 20:35	1
4-Bromophenyl phenyl ether	<0.058		0.22	0.058	mg/Kg	☼	02/20/20 08:02	02/20/20 20:35	1
Butyl benzyl phthalate	<0.084	F1	0.22	0.084	mg/Kg	☼	02/20/20 08:02	02/20/20 20:35	1
Carbazole	<0.11		0.22	0.11	mg/Kg	☼	02/20/20 08:02	02/20/20 20:35	1
4-Chloroaniline	<0.21		0.89	0.21	mg/Kg	☼	02/20/20 08:02	02/20/20 20:35	1
4-Chloro-3-methylphenol	<0.15		0.44	0.15	mg/Kg	☼	02/20/20 08:02	02/20/20 20:35	1
2-Chloronaphthalene	<0.049		0.22	0.049	mg/Kg	☼	02/20/20 08:02	02/20/20 20:35	1
2-Chlorophenol	<0.076		0.22	0.076	mg/Kg	☼	02/20/20 08:02	02/20/20 20:35	1
4-Chlorophenyl phenyl ether	<0.052		0.22	0.052	mg/Kg	☼	02/20/20 08:02	02/20/20 20:35	1
Chrysene	0.048	F1	0.044	0.012	mg/Kg	☼	02/20/20 08:02	02/20/20 20:35	1
Dibenz(a,h)anthracene	<0.0086		0.044	0.0086	mg/Kg	☼	02/20/20 08:02	02/20/20 20:35	1
Dibenzofuran	<0.052	F1	0.22	0.052	mg/Kg	☼	02/20/20 08:02	02/20/20 20:35	1
1,2-Dichlorobenzene	<0.053		0.22	0.053	mg/Kg	☼	02/20/20 08:02	02/20/20 20:35	1
1,3-Dichlorobenzene	<0.050		0.22	0.050	mg/Kg	☼	02/20/20 08:02	02/20/20 20:35	1
1,4-Dichlorobenzene	<0.057		0.22	0.057	mg/Kg	☼	02/20/20 08:02	02/20/20 20:35	1
3,3'-Dichlorobenzidine	<0.062		0.22	0.062	mg/Kg	☼	02/20/20 08:02	02/20/20 20:35	1
2,4-Dichlorophenol	<0.11		0.44	0.11	mg/Kg	☼	02/20/20 08:02	02/20/20 20:35	1
Diethyl phthalate	<0.075	F1	0.22	0.075	mg/Kg	☼	02/20/20 08:02	02/20/20 20:35	1
2,4-Dimethylphenol	<0.17		0.44	0.17	mg/Kg	☼	02/20/20 08:02	02/20/20 20:35	1
Dimethyl phthalate	<0.058		0.22	0.058	mg/Kg	☼	02/20/20 08:02	02/20/20 20:35	1
Di-n-butyl phthalate	<0.067	F1	0.22	0.067	mg/Kg	☼	02/20/20 08:02	02/20/20 20:35	1
4,6-Dinitro-2-methylphenol	<0.36		0.89	0.36	mg/Kg	☼	02/20/20 08:02	02/20/20 20:35	1
2,4-Dinitrophenol	<0.78	F1	0.89	0.78	mg/Kg	☼	02/20/20 08:02	02/20/20 20:35	1
2,4-Dinitrotoluene	<0.070		0.22	0.070	mg/Kg	☼	02/20/20 08:02	02/20/20 20:35	1
2,6-Dinitrotoluene	<0.087		0.22	0.087	mg/Kg	☼	02/20/20 08:02	02/20/20 20:35	1
Di-n-octyl phthalate	<0.072		0.22	0.072	mg/Kg	☼	02/20/20 08:02	02/20/20 20:35	1
Fluoranthene	0.086	F1	0.044	0.0082	mg/Kg	☼	02/20/20 08:02	02/20/20 20:35	1
Fluorene	<0.0062	F1	0.044	0.0062	mg/Kg	☼	02/20/20 08:02	02/20/20 20:35	1
Hexachlorobenzene	<0.010		0.089	0.010	mg/Kg	☼	02/20/20 08:02	02/20/20 20:35	1
Hexachlorobutadiene	<0.070		0.22	0.070	mg/Kg	☼	02/20/20 08:02	02/20/20 20:35	1
Hexachlorocyclopentadiene	<0.25	F1	0.89	0.25	mg/Kg	☼	02/20/20 08:02	02/20/20 20:35	1
Hexachloroethane	<0.067		0.22	0.067	mg/Kg	☼	02/20/20 08:02	02/20/20 20:35	1
Indeno[1,2,3-cd]pyrene	<0.011		0.044	0.011	mg/Kg	☼	02/20/20 08:02	02/20/20 20:35	1
Isophorone	<0.050	F1	0.22	0.050	mg/Kg	☼	02/20/20 08:02	02/20/20 20:35	1
2-Methylnaphthalene	<0.0081		0.089	0.0081	mg/Kg	☼	02/20/20 08:02	02/20/20 20:35	1
2-Methylphenol	<0.071	F1	0.22	0.071	mg/Kg	☼	02/20/20 08:02	02/20/20 20:35	1
3 & 4 Methylphenol	<0.074	F1	0.22	0.074	mg/Kg	☼	02/20/20 08:02	02/20/20 20:35	1
Naphthalene	<0.0068		0.044	0.0068	mg/Kg	☼	02/20/20 08:02	02/20/20 20:35	1
2-Nitroaniline	<0.060	F1	0.22	0.060	mg/Kg	☼	02/20/20 08:02	02/20/20 20:35	1
3-Nitroaniline	<0.14		0.44	0.14	mg/Kg	☼	02/20/20 08:02	02/20/20 20:35	1
4-Nitroaniline	<0.19		0.44	0.19	mg/Kg	☼	02/20/20 08:02	02/20/20 20:35	1
Nitrobenzene	<0.011	F1	0.044	0.011	mg/Kg	☼	02/20/20 08:02	02/20/20 20:35	1
2-Nitrophenol	<0.10		0.44	0.10	mg/Kg	☼	02/20/20 08:02	02/20/20 20:35	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177915-1

Client Sample ID: 3229V-15-B02 (0-5)

Lab Sample ID: 500-177915-1

Date Collected: 02/14/20 11:30

Matrix: Solid

Date Received: 02/14/20 15:38

Percent Solids: 74.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.42		0.89	0.42	mg/Kg	☼	02/20/20 08:02	02/20/20 20:35	1
N-Nitrosodi-n-propylamine	<0.054	F1	0.089	0.054	mg/Kg	☼	02/20/20 08:02	02/20/20 20:35	1
N-Nitrosodiphenylamine	<0.052	F1	0.22	0.052	mg/Kg	☼	02/20/20 08:02	02/20/20 20:35	1
2,2'-oxybis[1-chloropropane]	<0.051	F1	0.22	0.051	mg/Kg	☼	02/20/20 08:02	02/20/20 20:35	1
Pentachlorophenol	<0.71		0.89	0.71	mg/Kg	☼	02/20/20 08:02	02/20/20 20:35	1
Phenanthrene	0.053	F1	0.044	0.0062	mg/Kg	☼	02/20/20 08:02	02/20/20 20:35	1
Phenol	<0.098		0.22	0.098	mg/Kg	☼	02/20/20 08:02	02/20/20 20:35	1
Pyrene	0.089	F1	0.044	0.0088	mg/Kg	☼	02/20/20 08:02	02/20/20 20:35	1
1,2,4-Trichlorobenzene	<0.048		0.22	0.048	mg/Kg	☼	02/20/20 08:02	02/20/20 20:35	1
2,4,5-Trichlorophenol	<0.10		0.44	0.10	mg/Kg	☼	02/20/20 08:02	02/20/20 20:35	1
2,4,6-Trichlorophenol	<0.15		0.44	0.15	mg/Kg	☼	02/20/20 08:02	02/20/20 20:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	94		43 - 145	02/20/20 08:02	02/20/20 20:35	1
2-Fluorophenol	139		31 - 166	02/20/20 08:02	02/20/20 20:35	1
Nitrobenzene-d5	90		37 - 147	02/20/20 08:02	02/20/20 20:35	1
Phenol-d5	123		30 - 153	02/20/20 08:02	02/20/20 20:35	1
Terphenyl-d14	171	X	42 - 157	02/20/20 08:02	02/20/20 20:35	1
2,4,6-Tribromophenol	71		31 - 143	02/20/20 08:02	02/20/20 20:35	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.25		1.3	0.25	mg/Kg	☼	02/19/20 06:57	02/19/20 18:41	1
Arsenic	6.5		0.65	0.22	mg/Kg	☼	02/19/20 06:57	02/19/20 18:41	1
Barium	100		0.65	0.074	mg/Kg	☼	02/19/20 06:57	02/19/20 18:41	1
Beryllium	1.1		0.26	0.060	mg/Kg	☼	02/19/20 06:57	02/19/20 18:41	1
Cadmium	0.32	B	0.13	0.023	mg/Kg	☼	02/19/20 06:57	02/19/20 18:41	1
Chromium	29		0.65	0.32	mg/Kg	☼	02/19/20 06:57	02/19/20 18:41	1
Cobalt	10		0.32	0.085	mg/Kg	☼	02/19/20 06:57	02/19/20 18:41	1
Copper	30		0.65	0.18	mg/Kg	☼	02/19/20 06:57	02/19/20 18:41	1
Iron	21000	B	13	6.7	mg/Kg	☼	02/19/20 06:57	02/19/20 18:41	1
Lead	39		0.32	0.15	mg/Kg	☼	02/19/20 06:57	02/19/20 18:41	1
Magnesium	7400		6.5	3.2	mg/Kg	☼	02/19/20 06:57	02/19/20 18:41	1
Calcium	8500		13	2.2	mg/Kg	☼	02/19/20 06:57	02/19/20 18:41	1
Manganese	180		0.65	0.094	mg/Kg	☼	02/19/20 06:57	02/19/20 18:41	1
Nickel	32		0.65	0.19	mg/Kg	☼	02/19/20 06:57	02/19/20 18:41	1
Selenium	0.43	J	0.65	0.38	mg/Kg	☼	02/19/20 06:57	02/19/20 18:41	1
Silver	0.20	J	0.32	0.083	mg/Kg	☼	02/19/20 06:57	02/19/20 18:41	1
Thallium	<0.32		0.65	0.32	mg/Kg	☼	02/19/20 06:57	02/19/20 18:41	1
Vanadium	34		0.32	0.076	mg/Kg	☼	02/19/20 06:57	02/19/20 18:41	1
Zinc	95	B	1.3	0.57	mg/Kg	☼	02/19/20 06:57	02/19/20 18:41	1
Potassium	4000		32	11	mg/Kg	☼	02/19/20 06:57	02/19/20 18:41	1
Sodium	1800		65	9.6	mg/Kg	☼	02/19/20 06:57	02/19/20 18:41	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		02/20/20 14:45	02/21/20 11:49	1
Barium	0.52		0.50	0.050	mg/L		02/20/20 14:45	02/21/20 11:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/20/20 14:45	02/21/20 11:49	1
Cadmium	0.0026	J	0.0050	0.0020	mg/L		02/20/20 14:45	02/21/20 11:49	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177915-1

Client Sample ID: 3229V-15-B02 (0-5)

Lab Sample ID: 500-177915-1

Date Collected: 02/14/20 11:30

Matrix: Solid

Date Received: 02/14/20 15:38

Percent Solids: 74.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	260		5.0	0.50	mg/L		02/20/20 14:45	02/21/20 11:49	1
Chromium	<0.010		0.025	0.010	mg/L		02/20/20 14:45	02/21/20 11:49	1
Cobalt	0.011	J	0.025	0.010	mg/L		02/20/20 14:45	02/21/20 11:49	1
Copper	<0.010		0.025	0.010	mg/L		02/20/20 14:45	02/21/20 11:49	1
Iron	<0.20		0.40	0.20	mg/L		02/20/20 14:45	02/21/20 11:49	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/20/20 14:45	02/21/20 11:49	1
Magnesium	71		2.5	0.50	mg/L		02/20/20 14:45	02/21/20 11:49	1
Manganese	3.9		0.025	0.010	mg/L		02/20/20 14:45	02/21/20 11:49	1
Nickel	<0.010		0.025	0.010	mg/L		02/20/20 14:45	02/21/20 11:49	1
Potassium	3.8		2.5	0.50	mg/L		02/20/20 14:45	02/21/20 11:49	1
Selenium	<0.020		0.050	0.020	mg/L		02/20/20 14:45	02/21/20 11:49	1
Silver	<0.010		0.025	0.010	mg/L		02/20/20 14:45	02/21/20 11:49	1
Vanadium	<0.010		0.025	0.010	mg/L		02/20/20 14:45	02/21/20 11:49	1
Zinc	0.047	J	0.50	0.020	mg/L		02/20/20 14:45	02/21/20 11:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.0		0.025	0.010	mg/L		02/20/20 14:43	02/21/20 11:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/20/20 14:45	02/21/20 23:16	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/20/20 14:45	02/21/20 23:16	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/21/20 10:55	02/24/20 08:40	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.039		0.021	0.0070	mg/Kg	☼	02/24/20 15:45	02/25/20 08:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.31		0.61	0.31	mg/Kg	☼	02/26/20 09:30	02/26/20 13:11	1
pH	8.3		0.2	0.2	SU			02/19/20 14:23	1

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177915-1

Client Sample ID: 3229V-15-B02 (5-10)

Lab Sample ID: 500-177915-2

Date Collected: 02/14/20 11:35

Matrix: Solid

Date Received: 02/14/20 15:38

Percent Solids: 73.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.037		0.026	0.011	mg/Kg	☼	02/14/20 17:08	02/18/20 17:14	1
Benzene	<0.00066		0.0026	0.00066	mg/Kg	☼	02/14/20 17:08	02/18/20 17:14	1
Bromodichloromethane	<0.00053		0.0026	0.00053	mg/Kg	☼	02/14/20 17:08	02/18/20 17:14	1
Bromoform	<0.00076		0.0026	0.00076	mg/Kg	☼	02/14/20 17:08	02/18/20 17:14	1
Bromomethane	<0.0025		0.0065	0.0025	mg/Kg	☼	02/14/20 17:08	02/18/20 17:14	1
2-Butanone (MEK)	0.0076		0.0065	0.0029	mg/Kg	☼	02/14/20 17:08	02/18/20 17:14	1
Carbon disulfide	<0.0014		0.0065	0.0014	mg/Kg	☼	02/14/20 17:08	02/18/20 17:14	1
Carbon tetrachloride	<0.00075		0.0026	0.00075	mg/Kg	☼	02/14/20 17:08	02/18/20 17:14	1
Chlorobenzene	<0.00096		0.0026	0.00096	mg/Kg	☼	02/14/20 17:08	02/18/20 17:14	1
Chloroethane	<0.0019		0.0065	0.0019	mg/Kg	☼	02/14/20 17:08	02/18/20 17:14	1
Chloroform	<0.00090		0.0026	0.00090	mg/Kg	☼	02/14/20 17:08	02/18/20 17:14	1
Chloromethane	<0.0026		0.0065	0.0026	mg/Kg	☼	02/14/20 17:08	02/18/20 17:14	1
cis-1,2-Dichloroethene	<0.00073		0.0026	0.00073	mg/Kg	☼	02/14/20 17:08	02/18/20 17:14	1
cis-1,3-Dichloropropene	<0.00078		0.0026	0.00078	mg/Kg	☼	02/14/20 17:08	02/18/20 17:14	1
Dibromochloromethane	<0.00085		0.0026	0.00085	mg/Kg	☼	02/14/20 17:08	02/18/20 17:14	1
1,1-Dichloroethane	<0.00089		0.0026	0.00089	mg/Kg	☼	02/14/20 17:08	02/18/20 17:14	1
1,2-Dichloroethane	<0.0020		0.0065	0.0020	mg/Kg	☼	02/14/20 17:08	02/18/20 17:14	1
1,1-Dichloroethene	<0.00089		0.0026	0.00089	mg/Kg	☼	02/14/20 17:08	02/18/20 17:14	1
1,2-Dichloropropane	<0.00067		0.0026	0.00067	mg/Kg	☼	02/14/20 17:08	02/18/20 17:14	1
1,3-Dichloropropane, Total	<0.00091		0.0026	0.00091	mg/Kg	☼	02/14/20 17:08	02/18/20 17:14	1
Ethylbenzene	<0.0012		0.0026	0.0012	mg/Kg	☼	02/14/20 17:08	02/18/20 17:14	1
2-Hexanone	<0.0020		0.0065	0.0020	mg/Kg	☼	02/14/20 17:08	02/18/20 17:14	1
Methylene Chloride	<0.0026		0.0065	0.0026	mg/Kg	☼	02/14/20 17:08	02/18/20 17:14	1
4-Methyl-2-pentanone (MIBK)	<0.0019		0.0065	0.0019	mg/Kg	☼	02/14/20 17:08	02/18/20 17:14	1
Methyl tert-butyl ether	<0.00076		0.0026	0.00076	mg/Kg	☼	02/14/20 17:08	02/18/20 17:14	1
Styrene	<0.00079		0.0026	0.00079	mg/Kg	☼	02/14/20 17:08	02/18/20 17:14	1
1,1,2,2-Tetrachloroethane	<0.00083		0.0026	0.00083	mg/Kg	☼	02/14/20 17:08	02/18/20 17:14	1
Tetrachloroethene	<0.00089		0.0026	0.00089	mg/Kg	☼	02/14/20 17:08	02/18/20 17:14	1
Toluene	<0.00066		0.0026	0.00066	mg/Kg	☼	02/14/20 17:08	02/18/20 17:14	1
trans-1,2-Dichloroethene	<0.0012		0.0026	0.0012	mg/Kg	☼	02/14/20 17:08	02/18/20 17:14	1
trans-1,3-Dichloropropene	<0.00091		0.0026	0.00091	mg/Kg	☼	02/14/20 17:08	02/18/20 17:14	1
1,1,1-Trichloroethane	<0.00087		0.0026	0.00087	mg/Kg	☼	02/14/20 17:08	02/18/20 17:14	1
1,1,2-Trichloroethane	<0.0011		0.0026	0.0011	mg/Kg	☼	02/14/20 17:08	02/18/20 17:14	1
Trichloroethene	<0.00088		0.0026	0.00088	mg/Kg	☼	02/14/20 17:08	02/18/20 17:14	1
Vinyl acetate	<0.0023		0.0065	0.0023	mg/Kg	☼	02/14/20 17:08	02/18/20 17:14	1
Vinyl chloride	<0.0012		0.0026	0.0012	mg/Kg	☼	02/14/20 17:08	02/18/20 17:14	1
Xylenes, Total	<0.00083		0.0052	0.00083	mg/Kg	☼	02/14/20 17:08	02/18/20 17:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		75 - 131	02/14/20 17:08	02/18/20 17:14	1
Dibromofluoromethane	104		75 - 126	02/14/20 17:08	02/18/20 17:14	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134	02/14/20 17:08	02/18/20 17:14	1
Toluene-d8 (Surr)	91		75 - 124	02/14/20 17:08	02/18/20 17:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0081		0.045	0.0081	mg/Kg	☼	02/20/20 08:02	02/20/20 21:04	1
Acenaphthylene	<0.0060		0.045	0.0060	mg/Kg	☼	02/20/20 08:02	02/20/20 21:04	1
Anthracene	<0.0076		0.045	0.0076	mg/Kg	☼	02/20/20 08:02	02/20/20 21:04	1
Benzof[a]anthracene	<0.0061		0.045	0.0061	mg/Kg	☼	02/20/20 08:02	02/20/20 21:04	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177915-1

Client Sample ID: 3229V-15-B02 (5-10)

Lab Sample ID: 500-177915-2

Date Collected: 02/14/20 11:35

Matrix: Solid

Date Received: 02/14/20 15:38

Percent Solids: 73.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.0088		0.045	0.0088	mg/Kg	☼	02/20/20 08:02	02/20/20 21:04	1
Benzo[b]fluoranthene	<0.0098		0.045	0.0098	mg/Kg	☼	02/20/20 08:02	02/20/20 21:04	1
Benzo[g,h,i]perylene	<0.015		0.045	0.015	mg/Kg	☼	02/20/20 08:02	02/20/20 21:04	1
Benzo[k]fluoranthene	<0.013		0.045	0.013	mg/Kg	☼	02/20/20 08:02	02/20/20 21:04	1
Bis(2-chloroethoxy)methane	<0.046		0.23	0.046	mg/Kg	☼	02/20/20 08:02	02/20/20 21:04	1
Bis(2-chloroethyl)ether	<0.068		0.23	0.068	mg/Kg	☼	02/20/20 08:02	02/20/20 21:04	1
Bis(2-ethylhexyl) phthalate	<0.083		0.23	0.083	mg/Kg	☼	02/20/20 08:02	02/20/20 21:04	1
4-Bromophenyl phenyl ether	<0.060		0.23	0.060	mg/Kg	☼	02/20/20 08:02	02/20/20 21:04	1
Butyl benzyl phthalate	<0.086		0.23	0.086	mg/Kg	☼	02/20/20 08:02	02/20/20 21:04	1
Carbazole	<0.11		0.23	0.11	mg/Kg	☼	02/20/20 08:02	02/20/20 21:04	1
4-Chloroaniline	<0.21		0.91	0.21	mg/Kg	☼	02/20/20 08:02	02/20/20 21:04	1
4-Chloro-3-methylphenol	<0.15		0.45	0.15	mg/Kg	☼	02/20/20 08:02	02/20/20 21:04	1
2-Chloronaphthalene	<0.050		0.23	0.050	mg/Kg	☼	02/20/20 08:02	02/20/20 21:04	1
2-Chlorophenol	<0.077		0.23	0.077	mg/Kg	☼	02/20/20 08:02	02/20/20 21:04	1
4-Chlorophenyl phenyl ether	<0.053		0.23	0.053	mg/Kg	☼	02/20/20 08:02	02/20/20 21:04	1
Chrysene	<0.012		0.045	0.012	mg/Kg	☼	02/20/20 08:02	02/20/20 21:04	1
Dibenz(a,h)anthracene	<0.0088		0.045	0.0088	mg/Kg	☼	02/20/20 08:02	02/20/20 21:04	1
Dibenzofuran	<0.053		0.23	0.053	mg/Kg	☼	02/20/20 08:02	02/20/20 21:04	1
1,2-Dichlorobenzene	<0.054		0.23	0.054	mg/Kg	☼	02/20/20 08:02	02/20/20 21:04	1
1,3-Dichlorobenzene	<0.051		0.23	0.051	mg/Kg	☼	02/20/20 08:02	02/20/20 21:04	1
1,4-Dichlorobenzene	<0.058		0.23	0.058	mg/Kg	☼	02/20/20 08:02	02/20/20 21:04	1
3,3'-Dichlorobenzidine	<0.063		0.23	0.063	mg/Kg	☼	02/20/20 08:02	02/20/20 21:04	1
2,4-Dichlorophenol	<0.11		0.45	0.11	mg/Kg	☼	02/20/20 08:02	02/20/20 21:04	1
Diethyl phthalate	<0.077		0.23	0.077	mg/Kg	☼	02/20/20 08:02	02/20/20 21:04	1
2,4-Dimethylphenol	<0.17		0.45	0.17	mg/Kg	☼	02/20/20 08:02	02/20/20 21:04	1
Dimethyl phthalate	<0.059		0.23	0.059	mg/Kg	☼	02/20/20 08:02	02/20/20 21:04	1
Di-n-butyl phthalate	<0.069		0.23	0.069	mg/Kg	☼	02/20/20 08:02	02/20/20 21:04	1
4,6-Dinitro-2-methylphenol	<0.36		0.91	0.36	mg/Kg	☼	02/20/20 08:02	02/20/20 21:04	1
2,4-Dinitrophenol	<0.80		0.91	0.80	mg/Kg	☼	02/20/20 08:02	02/20/20 21:04	1
2,4-Dinitrotoluene	<0.072		0.23	0.072	mg/Kg	☼	02/20/20 08:02	02/20/20 21:04	1
2,6-Dinitrotoluene	<0.089		0.23	0.089	mg/Kg	☼	02/20/20 08:02	02/20/20 21:04	1
Di-n-octyl phthalate	<0.074		0.23	0.074	mg/Kg	☼	02/20/20 08:02	02/20/20 21:04	1
Fluoranthene	<0.0084		0.045	0.0084	mg/Kg	☼	02/20/20 08:02	02/20/20 21:04	1
Fluorene	<0.0064		0.045	0.0064	mg/Kg	☼	02/20/20 08:02	02/20/20 21:04	1
Hexachlorobenzene	<0.010		0.091	0.010	mg/Kg	☼	02/20/20 08:02	02/20/20 21:04	1
Hexachlorobutadiene	<0.071		0.23	0.071	mg/Kg	☼	02/20/20 08:02	02/20/20 21:04	1
Hexachlorocyclopentadiene	<0.26		0.91	0.26	mg/Kg	☼	02/20/20 08:02	02/20/20 21:04	1
Hexachloroethane	<0.069		0.23	0.069	mg/Kg	☼	02/20/20 08:02	02/20/20 21:04	1
Indeno[1,2,3-cd]pyrene	<0.012		0.045	0.012	mg/Kg	☼	02/20/20 08:02	02/20/20 21:04	1
Isophorone	<0.051		0.23	0.051	mg/Kg	☼	02/20/20 08:02	02/20/20 21:04	1
2-Methylnaphthalene	<0.0083		0.091	0.0083	mg/Kg	☼	02/20/20 08:02	02/20/20 21:04	1
2-Methylphenol	<0.073		0.23	0.073	mg/Kg	☼	02/20/20 08:02	02/20/20 21:04	1
3 & 4 Methylphenol	<0.076		0.23	0.076	mg/Kg	☼	02/20/20 08:02	02/20/20 21:04	1
Naphthalene	<0.0070		0.045	0.0070	mg/Kg	☼	02/20/20 08:02	02/20/20 21:04	1
2-Nitroaniline	<0.061		0.23	0.061	mg/Kg	☼	02/20/20 08:02	02/20/20 21:04	1
3-Nitroaniline	<0.14		0.45	0.14	mg/Kg	☼	02/20/20 08:02	02/20/20 21:04	1
4-Nitroaniline	<0.19		0.45	0.19	mg/Kg	☼	02/20/20 08:02	02/20/20 21:04	1
Nitrobenzene	<0.011		0.045	0.011	mg/Kg	☼	02/20/20 08:02	02/20/20 21:04	1
2-Nitrophenol	<0.11		0.45	0.11	mg/Kg	☼	02/20/20 08:02	02/20/20 21:04	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177915-1

Client Sample ID: 3229V-15-B02 (5-10)

Lab Sample ID: 500-177915-2

Date Collected: 02/14/20 11:35

Matrix: Solid

Date Received: 02/14/20 15:38

Percent Solids: 73.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.43		0.91	0.43	mg/Kg	☼	02/20/20 08:02	02/20/20 21:04	1
N-Nitrosodi-n-propylamine	<0.055		0.091	0.055	mg/Kg	☼	02/20/20 08:02	02/20/20 21:04	1
N-Nitrosodiphenylamine	<0.053		0.23	0.053	mg/Kg	☼	02/20/20 08:02	02/20/20 21:04	1
2,2'-oxybis[1-chloropropane]	<0.052		0.23	0.052	mg/Kg	☼	02/20/20 08:02	02/20/20 21:04	1
Pentachlorophenol	<0.73		0.91	0.73	mg/Kg	☼	02/20/20 08:02	02/20/20 21:04	1
Phenanthrene	<0.0063		0.045	0.0063	mg/Kg	☼	02/20/20 08:02	02/20/20 21:04	1
Phenol	<0.10		0.23	0.10	mg/Kg	☼	02/20/20 08:02	02/20/20 21:04	1
Pyrene	0.021	J	0.045	0.0090	mg/Kg	☼	02/20/20 08:02	02/20/20 21:04	1
1,2,4-Trichlorobenzene	<0.049		0.23	0.049	mg/Kg	☼	02/20/20 08:02	02/20/20 21:04	1
2,4,5-Trichlorophenol	<0.10		0.45	0.10	mg/Kg	☼	02/20/20 08:02	02/20/20 21:04	1
2,4,6-Trichlorophenol	<0.16		0.45	0.16	mg/Kg	☼	02/20/20 08:02	02/20/20 21:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	62		43 - 145				02/20/20 08:02	02/20/20 21:04	1
2-Fluorophenol	115		31 - 166				02/20/20 08:02	02/20/20 21:04	1
Nitrobenzene-d5	65		37 - 147				02/20/20 08:02	02/20/20 21:04	1
Phenol-d5	107		30 - 153				02/20/20 08:02	02/20/20 21:04	1
Terphenyl-d14	163	X	42 - 157				02/20/20 08:02	02/20/20 21:04	1
2,4,6-Tribromophenol	63		31 - 143				02/20/20 08:02	02/20/20 21:04	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.26		1.3	0.26	mg/Kg	☼	02/19/20 06:57	02/19/20 18:45	1
Arsenic	3.8		0.66	0.23	mg/Kg	☼	02/19/20 06:57	02/19/20 18:45	1
Barium	110		0.66	0.075	mg/Kg	☼	02/19/20 06:57	02/19/20 18:45	1
Beryllium	1.2		0.26	0.062	mg/Kg	☼	02/19/20 06:57	02/19/20 18:45	1
Cadmium	0.21	B	0.13	0.024	mg/Kg	☼	02/19/20 06:57	02/19/20 18:45	1
Chromium	29		0.66	0.33	mg/Kg	☼	02/19/20 06:57	02/19/20 18:45	1
Cobalt	10		0.33	0.087	mg/Kg	☼	02/19/20 06:57	02/19/20 18:45	1
Copper	22		0.66	0.19	mg/Kg	☼	02/19/20 06:57	02/19/20 18:45	1
Iron	19000	B	13	6.9	mg/Kg	☼	02/19/20 06:57	02/19/20 18:45	1
Lead	18		0.33	0.15	mg/Kg	☼	02/19/20 06:57	02/19/20 18:45	1
Magnesium	6100		6.6	3.3	mg/Kg	☼	02/19/20 06:57	02/19/20 18:45	1
Calcium	5900		13	2.2	mg/Kg	☼	02/19/20 06:57	02/19/20 18:45	1
Manganese	140		0.66	0.096	mg/Kg	☼	02/19/20 06:57	02/19/20 18:45	1
Nickel	33		0.66	0.19	mg/Kg	☼	02/19/20 06:57	02/19/20 18:45	1
Selenium	<0.39		0.66	0.39	mg/Kg	☼	02/19/20 06:57	02/19/20 18:45	1
Silver	0.18	J	0.33	0.085	mg/Kg	☼	02/19/20 06:57	02/19/20 18:45	1
Thallium	<0.33		0.66	0.33	mg/Kg	☼	02/19/20 06:57	02/19/20 18:45	1
Vanadium	33		0.33	0.078	mg/Kg	☼	02/19/20 06:57	02/19/20 18:45	1
Zinc	78	B	1.3	0.58	mg/Kg	☼	02/19/20 06:57	02/19/20 18:45	1
Potassium	3700		33	12	mg/Kg	☼	02/19/20 06:57	02/19/20 18:45	1
Sodium	1900		66	9.8	mg/Kg	☼	02/19/20 06:57	02/19/20 18:45	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		02/20/20 14:45	02/21/20 11:53	1
Barium	0.26	J	0.50	0.050	mg/L		02/20/20 14:45	02/21/20 11:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/20/20 14:45	02/21/20 11:53	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		02/20/20 14:45	02/21/20 11:53	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177915-1

Client Sample ID: 3229V-15-B02 (5-10)

Lab Sample ID: 500-177915-2

Date Collected: 02/14/20 11:35

Matrix: Solid

Date Received: 02/14/20 15:38

Percent Solids: 73.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	90		5.0	0.50	mg/L		02/20/20 14:45	02/21/20 11:53	1
Chromium	<0.010		0.025	0.010	mg/L		02/20/20 14:45	02/21/20 11:53	1
Cobalt	<0.010		0.025	0.010	mg/L		02/20/20 14:45	02/21/20 11:53	1
Copper	<0.010		0.025	0.010	mg/L		02/20/20 14:45	02/21/20 11:53	1
Iron	<0.20		0.40	0.20	mg/L		02/20/20 14:45	02/21/20 11:53	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/20/20 14:45	02/21/20 11:53	1
Magnesium	28		2.5	0.50	mg/L		02/20/20 14:45	02/21/20 11:53	1
Manganese	0.91		0.025	0.010	mg/L		02/20/20 14:45	02/21/20 11:53	1
Nickel	<0.010		0.025	0.010	mg/L		02/20/20 14:45	02/21/20 11:53	1
Potassium	1.7 J		2.5	0.50	mg/L		02/20/20 14:45	02/21/20 11:53	1
Selenium	<0.020		0.050	0.020	mg/L		02/20/20 14:45	02/21/20 11:53	1
Silver	<0.010		0.025	0.010	mg/L		02/20/20 14:45	02/21/20 11:53	1
Vanadium	<0.010		0.025	0.010	mg/L		02/20/20 14:45	02/21/20 11:53	1
Zinc	0.039 J		0.50	0.020	mg/L		02/20/20 14:45	02/21/20 11:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.63		0.025	0.010	mg/L		02/20/20 14:43	02/21/20 11:12	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		02/20/20 14:45	02/21/20 23:18	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/20/20 14:45	02/21/20 23:18	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/21/20 10:55	02/24/20 08:41	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.022	0.0072	mg/Kg	☼	02/24/20 15:45	02/25/20 08:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.27		0.55	0.27	mg/Kg	☼	02/26/20 09:30	02/26/20 13:11	1
pH	7.7		0.2	0.2	SU			02/19/20 14:28	1

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177915-1

Client Sample ID: 3229V-15-B01 (0-2)

Lab Sample ID: 500-177915-3

Date Collected: 02/14/20 11:45

Matrix: Solid

Date Received: 02/14/20 15:38

Percent Solids: 78.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.010		0.023	0.010	mg/Kg	☼	02/14/20 17:08	02/18/20 17:40	1
Benzene	<0.00058		0.0023	0.00058	mg/Kg	☼	02/14/20 17:08	02/18/20 17:40	1
Bromodichloromethane	<0.00047		0.0023	0.00047	mg/Kg	☼	02/14/20 17:08	02/18/20 17:40	1
Bromoform	<0.00067		0.0023	0.00067	mg/Kg	☼	02/14/20 17:08	02/18/20 17:40	1
Bromomethane	<0.0022		0.0057	0.0022	mg/Kg	☼	02/14/20 17:08	02/18/20 17:40	1
2-Butanone (MEK)	<0.0025		0.0057	0.0025	mg/Kg	☼	02/14/20 17:08	02/18/20 17:40	1
Carbon disulfide	<0.0012		0.0057	0.0012	mg/Kg	☼	02/14/20 17:08	02/18/20 17:40	1
Carbon tetrachloride	<0.00066		0.0023	0.00066	mg/Kg	☼	02/14/20 17:08	02/18/20 17:40	1
Chlorobenzene	<0.00085		0.0023	0.00085	mg/Kg	☼	02/14/20 17:08	02/18/20 17:40	1
Chloroethane	<0.0017		0.0057	0.0017	mg/Kg	☼	02/14/20 17:08	02/18/20 17:40	1
Chloroform	<0.00080		0.0023	0.00080	mg/Kg	☼	02/14/20 17:08	02/18/20 17:40	1
Chloromethane	<0.0023		0.0057	0.0023	mg/Kg	☼	02/14/20 17:08	02/18/20 17:40	1
cis-1,2-Dichloroethene	<0.00064		0.0023	0.00064	mg/Kg	☼	02/14/20 17:08	02/18/20 17:40	1
cis-1,3-Dichloropropene	<0.00069		0.0023	0.00069	mg/Kg	☼	02/14/20 17:08	02/18/20 17:40	1
Dibromochloromethane	<0.00075		0.0023	0.00075	mg/Kg	☼	02/14/20 17:08	02/18/20 17:40	1
1,1-Dichloroethane	<0.00079		0.0023	0.00079	mg/Kg	☼	02/14/20 17:08	02/18/20 17:40	1
1,2-Dichloroethane	<0.0018		0.0057	0.0018	mg/Kg	☼	02/14/20 17:08	02/18/20 17:40	1
1,1-Dichloroethene	<0.00079		0.0023	0.00079	mg/Kg	☼	02/14/20 17:08	02/18/20 17:40	1
1,2-Dichloropropane	<0.00059		0.0023	0.00059	mg/Kg	☼	02/14/20 17:08	02/18/20 17:40	1
1,3-Dichloropropane, Total	<0.00080		0.0023	0.00080	mg/Kg	☼	02/14/20 17:08	02/18/20 17:40	1
Ethylbenzene	<0.0011		0.0023	0.0011	mg/Kg	☼	02/14/20 17:08	02/18/20 17:40	1
2-Hexanone	<0.0018		0.0057	0.0018	mg/Kg	☼	02/14/20 17:08	02/18/20 17:40	1
Methylene Chloride	<0.0023		0.0057	0.0023	mg/Kg	☼	02/14/20 17:08	02/18/20 17:40	1
4-Methyl-2-pentanone (MIBK)	<0.0017		0.0057	0.0017	mg/Kg	☼	02/14/20 17:08	02/18/20 17:40	1
Methyl tert-butyl ether	<0.00067		0.0023	0.00067	mg/Kg	☼	02/14/20 17:08	02/18/20 17:40	1
Styrene	<0.00069		0.0023	0.00069	mg/Kg	☼	02/14/20 17:08	02/18/20 17:40	1
1,1,2,2-Tetrachloroethane	<0.00073		0.0023	0.00073	mg/Kg	☼	02/14/20 17:08	02/18/20 17:40	1
Tetrachloroethene	<0.00078		0.0023	0.00078	mg/Kg	☼	02/14/20 17:08	02/18/20 17:40	1
Toluene	<0.00058		0.0023	0.00058	mg/Kg	☼	02/14/20 17:08	02/18/20 17:40	1
trans-1,2-Dichloroethene	<0.0010		0.0023	0.0010	mg/Kg	☼	02/14/20 17:08	02/18/20 17:40	1
trans-1,3-Dichloropropene	<0.00080		0.0023	0.00080	mg/Kg	☼	02/14/20 17:08	02/18/20 17:40	1
1,1,1-Trichloroethane	<0.00077		0.0023	0.00077	mg/Kg	☼	02/14/20 17:08	02/18/20 17:40	1
1,1,2-Trichloroethane	<0.00098		0.0023	0.00098	mg/Kg	☼	02/14/20 17:08	02/18/20 17:40	1
Trichloroethene	<0.00077		0.0023	0.00077	mg/Kg	☼	02/14/20 17:08	02/18/20 17:40	1
Vinyl acetate	<0.0020		0.0057	0.0020	mg/Kg	☼	02/14/20 17:08	02/18/20 17:40	1
Vinyl chloride	<0.0010		0.0023	0.0010	mg/Kg	☼	02/14/20 17:08	02/18/20 17:40	1
Xylenes, Total	<0.00073		0.0046	0.00073	mg/Kg	☼	02/14/20 17:08	02/18/20 17:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		75 - 131	02/14/20 17:08	02/18/20 17:40	1
Dibromofluoromethane	104		75 - 126	02/14/20 17:08	02/18/20 17:40	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134	02/14/20 17:08	02/18/20 17:40	1
Toluene-d8 (Surr)	89		75 - 124	02/14/20 17:08	02/18/20 17:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.031	J	0.042	0.0076	mg/Kg	☼	02/20/20 08:02	02/20/20 21:33	1
Acenaphthylene	<0.0055		0.042	0.0055	mg/Kg	☼	02/20/20 08:02	02/20/20 21:33	1
Anthracene	0.052		0.042	0.0070	mg/Kg	☼	02/20/20 08:02	02/20/20 21:33	1
Benzo[a]anthracene	0.23		0.042	0.0057	mg/Kg	☼	02/20/20 08:02	02/20/20 21:33	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177915-1

Client Sample ID: 3229V-15-B01 (0-2)

Lab Sample ID: 500-177915-3

Date Collected: 02/14/20 11:45

Matrix: Solid

Date Received: 02/14/20 15:38

Percent Solids: 78.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.29		0.042	0.0081	mg/Kg	☼	02/20/20 08:02	02/20/20 21:33	1
Benzo[b]fluoranthene	0.39		0.042	0.0091	mg/Kg	☼	02/20/20 08:02	02/20/20 21:33	1
Benzo[g,h,i]perylene	0.14		0.042	0.014	mg/Kg	☼	02/20/20 08:02	02/20/20 21:33	1
Benzo[k]fluoranthene	0.14		0.042	0.012	mg/Kg	☼	02/20/20 08:02	02/20/20 21:33	1
Bis(2-chloroethoxy)methane	<0.043		0.21	0.043	mg/Kg	☼	02/20/20 08:02	02/20/20 21:33	1
Bis(2-chloroethyl)ether	<0.063		0.21	0.063	mg/Kg	☼	02/20/20 08:02	02/20/20 21:33	1
Bis(2-ethylhexyl) phthalate	0.14	J	0.21	0.077	mg/Kg	☼	02/20/20 08:02	02/20/20 21:33	1
4-Bromophenyl phenyl ether	<0.055		0.21	0.055	mg/Kg	☼	02/20/20 08:02	02/20/20 21:33	1
Butyl benzyl phthalate	<0.080		0.21	0.080	mg/Kg	☼	02/20/20 08:02	02/20/20 21:33	1
Carbazole	<0.10		0.21	0.10	mg/Kg	☼	02/20/20 08:02	02/20/20 21:33	1
4-Chloroaniline	<0.20		0.85	0.20	mg/Kg	☼	02/20/20 08:02	02/20/20 21:33	1
4-Chloro-3-methylphenol	<0.14		0.42	0.14	mg/Kg	☼	02/20/20 08:02	02/20/20 21:33	1
2-Chloronaphthalene	<0.046		0.21	0.046	mg/Kg	☼	02/20/20 08:02	02/20/20 21:33	1
2-Chlorophenol	<0.072		0.21	0.072	mg/Kg	☼	02/20/20 08:02	02/20/20 21:33	1
4-Chlorophenyl phenyl ether	<0.049		0.21	0.049	mg/Kg	☼	02/20/20 08:02	02/20/20 21:33	1
Chrysene	0.32		0.042	0.011	mg/Kg	☼	02/20/20 08:02	02/20/20 21:33	1
Dibenz(a,h)anthracene	0.041	J	0.042	0.0081	mg/Kg	☼	02/20/20 08:02	02/20/20 21:33	1
Dibenzofuran	<0.049		0.21	0.049	mg/Kg	☼	02/20/20 08:02	02/20/20 21:33	1
1,2-Dichlorobenzene	<0.050		0.21	0.050	mg/Kg	☼	02/20/20 08:02	02/20/20 21:33	1
1,3-Dichlorobenzene	<0.047		0.21	0.047	mg/Kg	☼	02/20/20 08:02	02/20/20 21:33	1
1,4-Dichlorobenzene	<0.054		0.21	0.054	mg/Kg	☼	02/20/20 08:02	02/20/20 21:33	1
3,3'-Dichlorobenzidine	<0.059		0.21	0.059	mg/Kg	☼	02/20/20 08:02	02/20/20 21:33	1
2,4-Dichlorophenol	<0.10		0.42	0.10	mg/Kg	☼	02/20/20 08:02	02/20/20 21:33	1
Diethyl phthalate	<0.071		0.21	0.071	mg/Kg	☼	02/20/20 08:02	02/20/20 21:33	1
2,4-Dimethylphenol	<0.16		0.42	0.16	mg/Kg	☼	02/20/20 08:02	02/20/20 21:33	1
Dimethyl phthalate	<0.055		0.21	0.055	mg/Kg	☼	02/20/20 08:02	02/20/20 21:33	1
Di-n-butyl phthalate	<0.064		0.21	0.064	mg/Kg	☼	02/20/20 08:02	02/20/20 21:33	1
4,6-Dinitro-2-methylphenol	<0.34		0.85	0.34	mg/Kg	☼	02/20/20 08:02	02/20/20 21:33	1
2,4-Dinitrophenol	<0.74		0.85	0.74	mg/Kg	☼	02/20/20 08:02	02/20/20 21:33	1
2,4-Dinitrotoluene	<0.067		0.21	0.067	mg/Kg	☼	02/20/20 08:02	02/20/20 21:33	1
2,6-Dinitrotoluene	<0.083		0.21	0.083	mg/Kg	☼	02/20/20 08:02	02/20/20 21:33	1
Di-n-octyl phthalate	<0.069		0.21	0.069	mg/Kg	☼	02/20/20 08:02	02/20/20 21:33	1
Fluoranthene	0.54		0.042	0.0078	mg/Kg	☼	02/20/20 08:02	02/20/20 21:33	1
Fluorene	0.025	J	0.042	0.0059	mg/Kg	☼	02/20/20 08:02	02/20/20 21:33	1
Hexachlorobenzene	<0.0097		0.085	0.0097	mg/Kg	☼	02/20/20 08:02	02/20/20 21:33	1
Hexachlorobutadiene	<0.066		0.21	0.066	mg/Kg	☼	02/20/20 08:02	02/20/20 21:33	1
Hexachlorocyclopentadiene	<0.24		0.85	0.24	mg/Kg	☼	02/20/20 08:02	02/20/20 21:33	1
Hexachloroethane	<0.064		0.21	0.064	mg/Kg	☼	02/20/20 08:02	02/20/20 21:33	1
Indeno[1,2,3-cd]pyrene	0.13		0.042	0.011	mg/Kg	☼	02/20/20 08:02	02/20/20 21:33	1
Isophorone	<0.047		0.21	0.047	mg/Kg	☼	02/20/20 08:02	02/20/20 21:33	1
2-Methylnaphthalene	<0.0077		0.085	0.0077	mg/Kg	☼	02/20/20 08:02	02/20/20 21:33	1
2-Methylphenol	<0.067		0.21	0.067	mg/Kg	☼	02/20/20 08:02	02/20/20 21:33	1
3 & 4 Methylphenol	<0.070		0.21	0.070	mg/Kg	☼	02/20/20 08:02	02/20/20 21:33	1
Naphthalene	0.011	J	0.042	0.0065	mg/Kg	☼	02/20/20 08:02	02/20/20 21:33	1
2-Nitroaniline	<0.057		0.21	0.057	mg/Kg	☼	02/20/20 08:02	02/20/20 21:33	1
3-Nitroaniline	<0.13		0.42	0.13	mg/Kg	☼	02/20/20 08:02	02/20/20 21:33	1
4-Nitroaniline	<0.18		0.42	0.18	mg/Kg	☼	02/20/20 08:02	02/20/20 21:33	1
Nitrobenzene	<0.010		0.042	0.010	mg/Kg	☼	02/20/20 08:02	02/20/20 21:33	1
2-Nitrophenol	<0.099		0.42	0.099	mg/Kg	☼	02/20/20 08:02	02/20/20 21:33	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177915-1

Client Sample ID: 3229V-15-B01 (0-2)

Lab Sample ID: 500-177915-3

Date Collected: 02/14/20 11:45

Matrix: Solid

Date Received: 02/14/20 15:38

Percent Solids: 78.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.40		0.85	0.40	mg/Kg	☼	02/20/20 08:02	02/20/20 21:33	1
N-Nitrosodi-n-propylamine	<0.051		0.085	0.051	mg/Kg	☼	02/20/20 08:02	02/20/20 21:33	1
N-Nitrosodiphenylamine	<0.050		0.21	0.050	mg/Kg	☼	02/20/20 08:02	02/20/20 21:33	1
2,2'-oxybis[1-chloropropane]	<0.049		0.21	0.049	mg/Kg	☼	02/20/20 08:02	02/20/20 21:33	1
Pentachlorophenol	<0.67		0.85	0.67	mg/Kg	☼	02/20/20 08:02	02/20/20 21:33	1
Phenanthrene	0.30		0.042	0.0059	mg/Kg	☼	02/20/20 08:02	02/20/20 21:33	1
Phenol	<0.093		0.21	0.093	mg/Kg	☼	02/20/20 08:02	02/20/20 21:33	1
Pyrene	0.48		0.042	0.0083	mg/Kg	☼	02/20/20 08:02	02/20/20 21:33	1
1,2,4-Trichlorobenzene	<0.045		0.21	0.045	mg/Kg	☼	02/20/20 08:02	02/20/20 21:33	1
2,4,5-Trichlorophenol	<0.096		0.42	0.096	mg/Kg	☼	02/20/20 08:02	02/20/20 21:33	1
2,4,6-Trichlorophenol	<0.14		0.42	0.14	mg/Kg	☼	02/20/20 08:02	02/20/20 21:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	99		43 - 145				02/20/20 08:02	02/20/20 21:33	1
2-Fluorophenol	144		31 - 166				02/20/20 08:02	02/20/20 21:33	1
Nitrobenzene-d5	99		37 - 147				02/20/20 08:02	02/20/20 21:33	1
Phenol-d5	127		30 - 153				02/20/20 08:02	02/20/20 21:33	1
Terphenyl-d14	150		42 - 157				02/20/20 08:02	02/20/20 21:33	1
2,4,6-Tribromophenol	61		31 - 143				02/20/20 08:02	02/20/20 21:33	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.54	J	1.2	0.24	mg/Kg	☼	02/19/20 06:57	02/19/20 18:49	1
Arsenic	5.7		0.62	0.21	mg/Kg	☼	02/19/20 06:57	02/19/20 18:49	1
Barium	97		0.62	0.071	mg/Kg	☼	02/19/20 06:57	02/19/20 18:49	1
Beryllium	0.97		0.25	0.058	mg/Kg	☼	02/19/20 06:57	02/19/20 18:49	1
Cadmium	0.79	B	0.12	0.022	mg/Kg	☼	02/19/20 06:57	02/19/20 18:49	1
Chromium	29		0.62	0.31	mg/Kg	☼	02/19/20 06:57	02/19/20 18:49	1
Cobalt	10		0.31	0.082	mg/Kg	☼	02/19/20 06:57	02/19/20 18:49	1
Copper	27		0.62	0.17	mg/Kg	☼	02/19/20 06:57	02/19/20 18:49	1
Iron	18000	B	12	6.5	mg/Kg	☼	02/19/20 06:57	02/19/20 18:49	1
Lead	140		0.31	0.14	mg/Kg	☼	02/19/20 06:57	02/19/20 18:49	1
Magnesium	8500		6.2	3.1	mg/Kg	☼	02/19/20 06:57	02/19/20 18:49	1
Calcium	13000		12	2.1	mg/Kg	☼	02/19/20 06:57	02/19/20 18:49	1
Manganese	340		0.62	0.091	mg/Kg	☼	02/19/20 06:57	02/19/20 18:49	1
Nickel	32		0.62	0.18	mg/Kg	☼	02/19/20 06:57	02/19/20 18:49	1
Selenium	<0.37		0.62	0.37	mg/Kg	☼	02/19/20 06:57	02/19/20 18:49	1
Silver	0.21	J	0.31	0.081	mg/Kg	☼	02/19/20 06:57	02/19/20 18:49	1
Thallium	<0.31		0.62	0.31	mg/Kg	☼	02/19/20 06:57	02/19/20 18:49	1
Vanadium	30		0.31	0.074	mg/Kg	☼	02/19/20 06:57	02/19/20 18:49	1
Zinc	120	B	1.2	0.55	mg/Kg	☼	02/19/20 06:57	02/19/20 18:49	1
Potassium	3000		31	11	mg/Kg	☼	02/19/20 06:57	02/19/20 18:49	1
Sodium	780		62	9.2	mg/Kg	☼	02/19/20 06:57	02/19/20 18:49	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		02/20/20 14:45	02/21/20 11:57	1
Barium	0.39	J	0.50	0.050	mg/L		02/20/20 14:45	02/21/20 11:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/20/20 14:45	02/21/20 11:57	1
Cadmium	0.0048	J	0.0050	0.0020	mg/L		02/20/20 14:45	02/21/20 11:57	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177915-1

Client Sample ID: 3229V-15-B01 (0-2)

Lab Sample ID: 500-177915-3

Date Collected: 02/14/20 11:45

Matrix: Solid

Date Received: 02/14/20 15:38

Percent Solids: 78.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	370		5.0	0.50	mg/L		02/20/20 14:45	02/21/20 11:57	1
Chromium	<0.010		0.025	0.010	mg/L		02/20/20 14:45	02/21/20 11:57	1
Cobalt	<0.010		0.025	0.010	mg/L		02/20/20 14:45	02/21/20 11:57	1
Copper	<0.010		0.025	0.010	mg/L		02/20/20 14:45	02/21/20 11:57	1
Iron	<0.20		0.40	0.20	mg/L		02/20/20 14:45	02/21/20 11:57	1
Lead	0.0093		0.0075	0.0075	mg/L		02/20/20 14:45	02/21/20 11:57	1
Magnesium	65		2.5	0.50	mg/L		02/20/20 14:45	02/21/20 11:57	1
Manganese	0.13		0.025	0.010	mg/L		02/20/20 14:45	02/21/20 11:57	1
Nickel	<0.010		0.025	0.010	mg/L		02/20/20 14:45	02/21/20 11:57	1
Potassium	1.1 J		2.5	0.50	mg/L		02/20/20 14:45	02/21/20 11:57	1
Selenium	<0.020		0.050	0.020	mg/L		02/20/20 14:45	02/21/20 11:57	1
Silver	<0.010		0.025	0.010	mg/L		02/20/20 14:45	02/21/20 11:57	1
Vanadium	<0.010		0.025	0.010	mg/L		02/20/20 14:45	02/21/20 11:57	1
Zinc	0.036 J		0.50	0.020	mg/L		02/20/20 14:45	02/21/20 11:57	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.59		0.0075	0.0075	mg/L		02/20/20 14:43	02/21/20 11:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/20/20 14:45	02/21/20 23:20	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/20/20 14:45	02/21/20 23:20	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/21/20 10:55	02/24/20 08:43	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.020	0.0068	mg/Kg	☼	02/24/20 15:45	02/25/20 08:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.33 J		0.59	0.29	mg/Kg	☼	02/26/20 09:30	02/26/20 13:12	1
pH	8.0		0.2	0.2	SU			02/19/20 14:31	1

Definitions/Glossary

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177915-1

Qualifiers

GC/MS Semi VOA

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

Metals

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

General Chemistry

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

Glossary

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

QC Association Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177915-1

GC/MS VOA

Prep Batch: 529875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177915-1	3229V-15-B02 (0-5)	Total/NA	Solid	5035	
500-177915-2	3229V-15-B02 (5-10)	Total/NA	Solid	5035	
500-177915-3	3229V-15-B01 (0-2)	Total/NA	Solid	5035	

Analysis Batch: 530116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177915-1	3229V-15-B02 (0-5)	Total/NA	Solid	8260B	529875
500-177915-2	3229V-15-B02 (5-10)	Total/NA	Solid	8260B	529875
500-177915-3	3229V-15-B01 (0-2)	Total/NA	Solid	8260B	529875
MB 500-530116/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-530116/7	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-530116/8	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 530577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177915-1	3229V-15-B02 (0-5)	Total/NA	Solid	3541	
500-177915-2	3229V-15-B02 (5-10)	Total/NA	Solid	3541	
500-177915-3	3229V-15-B01 (0-2)	Total/NA	Solid	3541	
MB 500-530577/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-530577/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-177915-1 MS	3229V-15-B02 (0-5)	Total/NA	Solid	3541	
500-177915-1 MSD	3229V-15-B02 (0-5)	Total/NA	Solid	3541	

Analysis Batch: 530642

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-530577/1-A	Method Blank	Total/NA	Solid	8270D	530577
LCS 500-530577/2-A	Lab Control Sample	Total/NA	Solid	8270D	530577

Analysis Batch: 530723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177915-1	3229V-15-B02 (0-5)	Total/NA	Solid	8270D	530577
500-177915-2	3229V-15-B02 (5-10)	Total/NA	Solid	8270D	530577
500-177915-3	3229V-15-B01 (0-2)	Total/NA	Solid	8270D	530577
500-177915-1 MS	3229V-15-B02 (0-5)	Total/NA	Solid	8270D	530577
500-177915-1 MSD	3229V-15-B02 (0-5)	Total/NA	Solid	8270D	530577

Metals

Prep Batch: 530303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177915-1	3229V-15-B02 (0-5)	Total/NA	Solid	3050B	
500-177915-2	3229V-15-B02 (5-10)	Total/NA	Solid	3050B	
500-177915-3	3229V-15-B01 (0-2)	Total/NA	Solid	3050B	
MB 500-530303/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-530303/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Leach Batch: 530437

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177915-1	3229V-15-B02 (0-5)	SPLP East	Solid	1312	
500-177915-2	3229V-15-B02 (5-10)	SPLP East	Solid	1312	

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QC Association Summary

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177915-1

Metals (Continued)

Leach Batch: 530437 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177915-3	3229V-15-B01 (0-2)	SPLP East	Solid	1312	
LB 500-530437/1-B	Method Blank	SPLP East	Solid	1312	
500-177915-3 MS	3229V-15-B01 (0-2)	SPLP East	Solid	1312	
500-177915-3 DU	3229V-15-B01 (0-2)	SPLP East	Solid	1312	

Leach Batch: 530439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177915-1	3229V-15-B02 (0-5)	TCLP	Solid	1311	
500-177915-2	3229V-15-B02 (5-10)	TCLP	Solid	1311	
500-177915-3	3229V-15-B01 (0-2)	TCLP	Solid	1311	
LB 500-530439/1-B	Method Blank	TCLP	Solid	1311	
LB 500-530439/1-C	Method Blank	TCLP	Solid	1311	
500-177915-3 MS	3229V-15-B01 (0-2)	TCLP	Solid	1311	
500-177915-3 DU	3229V-15-B01 (0-2)	TCLP	Solid	1311	

Analysis Batch: 530529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177915-1	3229V-15-B02 (0-5)	Total/NA	Solid	6010B	530303
500-177915-2	3229V-15-B02 (5-10)	Total/NA	Solid	6010B	530303
500-177915-3	3229V-15-B01 (0-2)	Total/NA	Solid	6010B	530303
MB 500-530303/1-A	Method Blank	Total/NA	Solid	6010B	530303
LCS 500-530303/2-A	Lab Control Sample	Total/NA	Solid	6010B	530303

Prep Batch: 530714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177915-1	3229V-15-B02 (0-5)	SPLP East	Solid	3010A	530437
500-177915-2	3229V-15-B02 (5-10)	SPLP East	Solid	3010A	530437
500-177915-3	3229V-15-B01 (0-2)	SPLP East	Solid	3010A	530437
LB 500-530437/1-B	Method Blank	SPLP East	Solid	3010A	530437
LCS 500-530714/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-177915-3 MS	3229V-15-B01 (0-2)	SPLP East	Solid	3010A	530437
500-177915-3 DU	3229V-15-B01 (0-2)	SPLP East	Solid	3010A	530437

Prep Batch: 530716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177915-1	3229V-15-B02 (0-5)	TCLP	Solid	3010A	530439
500-177915-2	3229V-15-B02 (5-10)	TCLP	Solid	3010A	530439
500-177915-3	3229V-15-B01 (0-2)	TCLP	Solid	3010A	530439
LB 500-530439/1-B	Method Blank	TCLP	Solid	3010A	530439
LCS 500-530716/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-177915-3 MS	3229V-15-B01 (0-2)	TCLP	Solid	3010A	530439
500-177915-3 DU	3229V-15-B01 (0-2)	TCLP	Solid	3010A	530439

Prep Batch: 530882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177915-1	3229V-15-B02 (0-5)	TCLP	Solid	7470A	530439
500-177915-2	3229V-15-B02 (5-10)	TCLP	Solid	7470A	530439
500-177915-3	3229V-15-B01 (0-2)	TCLP	Solid	7470A	530439
LB 500-530439/1-C	Method Blank	TCLP	Solid	7470A	530439
MB 500-530882/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-530882/14-A	Lab Control Sample	Total/NA	Solid	7470A	

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QC Association Summary

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177915-1

Metals

Analysis Batch: 530900

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177915-1	3229V-15-B02 (0-5)	SPLP East	Solid	6010B	530714
500-177915-2	3229V-15-B02 (5-10)	SPLP East	Solid	6010B	530714
500-177915-3	3229V-15-B01 (0-2)	SPLP East	Solid	6010B	530714
LB 500-530437/1-B	Method Blank	SPLP East	Solid	6010B	530714
LCS 500-530714/2-A	Lab Control Sample	Total/NA	Solid	6010B	530714
500-177915-3 MS	3229V-15-B01 (0-2)	SPLP East	Solid	6010B	530714
500-177915-3 DU	3229V-15-B01 (0-2)	SPLP East	Solid	6010B	530714

Analysis Batch: 531048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177915-1	3229V-15-B02 (0-5)	TCLP	Solid	6010B	530716
500-177915-2	3229V-15-B02 (5-10)	TCLP	Solid	6010B	530716
500-177915-3	3229V-15-B01 (0-2)	TCLP	Solid	6010B	530716
LB 500-530439/1-B	Method Blank	TCLP	Solid	6010B	530716
LCS 500-530716/2-A	Lab Control Sample	Total/NA	Solid	6010B	530716
500-177915-3 MS	3229V-15-B01 (0-2)	TCLP	Solid	6010B	530716
500-177915-3 DU	3229V-15-B01 (0-2)	TCLP	Solid	6010B	530716

Analysis Batch: 531117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177915-1	3229V-15-B02 (0-5)	TCLP	Solid	6020A	530716
500-177915-2	3229V-15-B02 (5-10)	TCLP	Solid	6020A	530716
500-177915-3	3229V-15-B01 (0-2)	TCLP	Solid	6020A	530716
LB 500-530439/1-B	Method Blank	TCLP	Solid	6020A	530716
LCS 500-530716/2-A	Lab Control Sample	Total/NA	Solid	6020A	530716
500-177915-3 MS	3229V-15-B01 (0-2)	TCLP	Solid	6020A	530716
500-177915-3 DU	3229V-15-B01 (0-2)	TCLP	Solid	6020A	530716

Analysis Batch: 531118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177915-1	3229V-15-B02 (0-5)	TCLP	Solid	7470A	530882
500-177915-2	3229V-15-B02 (5-10)	TCLP	Solid	7470A	530882
500-177915-3	3229V-15-B01 (0-2)	TCLP	Solid	7470A	530882
LB 500-530439/1-C	Method Blank	TCLP	Solid	7470A	530882
MB 500-530882/12-A	Method Blank	Total/NA	Solid	7470A	530882
LCS 500-530882/14-A	Lab Control Sample	Total/NA	Solid	7470A	530882

Prep Batch: 531148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177915-1	3229V-15-B02 (0-5)	Total/NA	Solid	7471B	
500-177915-2	3229V-15-B02 (5-10)	Total/NA	Solid	7471B	
500-177915-3	3229V-15-B01 (0-2)	Total/NA	Solid	7471B	
MB 500-531148/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-531148/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 531351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177915-1	3229V-15-B02 (0-5)	Total/NA	Solid	7471B	531148
500-177915-2	3229V-15-B02 (5-10)	Total/NA	Solid	7471B	531148
500-177915-3	3229V-15-B01 (0-2)	Total/NA	Solid	7471B	531148
MB 500-531148/12-A	Method Blank	Total/NA	Solid	7471B	531148

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QC Association Summary

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177915-1

Metals (Continued)

Analysis Batch: 531351 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-531148/13-A	Lab Control Sample	Total/NA	Solid	7471B	531148

General Chemistry

Analysis Batch: 530193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177915-1	3229V-15-B02 (0-5)	Total/NA	Solid	Moisture	
500-177915-2	3229V-15-B02 (5-10)	Total/NA	Solid	Moisture	
500-177915-3	3229V-15-B01 (0-2)	Total/NA	Solid	Moisture	

Analysis Batch: 530483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177915-1	3229V-15-B02 (0-5)	Total/NA	Solid	9045D	
500-177915-2	3229V-15-B02 (5-10)	Total/NA	Solid	9045D	
500-177915-3	3229V-15-B01 (0-2)	Total/NA	Solid	9045D	
LCS 500-530483/2	Lab Control Sample	Total/NA	Solid	9045D	
LCS 500-530483/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Prep Batch: 531452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177915-1	3229V-15-B02 (0-5)	Total/NA	Solid	9010B	
500-177915-2	3229V-15-B02 (5-10)	Total/NA	Solid	9010B	
500-177915-3	3229V-15-B01 (0-2)	Total/NA	Solid	9010B	
MB 500-531452/1-A	Method Blank	Total/NA	Solid	9010B	
LCS 500-531452/2-A	Lab Control Sample	Total/NA	Solid	9010B	

Analysis Batch: 531560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177915-1	3229V-15-B02 (0-5)	Total/NA	Solid	9014	531452
500-177915-2	3229V-15-B02 (5-10)	Total/NA	Solid	9014	531452
500-177915-3	3229V-15-B01 (0-2)	Total/NA	Solid	9014	531452
MB 500-531452/1-A	Method Blank	Total/NA	Solid	9014	531452
LCS 500-531452/2-A	Lab Control Sample	Total/NA	Solid	9014	531452

Surrogate Summary

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177915-1

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(75-131)	(75-126)	(70-134)	(75-124)
500-177915-1	3229V-15-B02 (0-5)	100	109	106	90
500-177915-2	3229V-15-B02 (5-10)	105	104	105	91
500-177915-3	3229V-15-B01 (0-2)	106	104	107	89
LCS 500-530116/7	Lab Control Sample	96	99	95	91
LCSD 500-530116/8	Lab Control Sample Dup	96	99	96	92
MB 500-530116/6	Method Blank	101	102	102	88

Surrogate Legend

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

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	FBP	2FP	NBZ	PHL	TPHL	TBP
		(43-145)	(31-166)	(37-147)	(30-153)	(42-157)	(31-143)
500-177915-1	3229V-15-B02 (0-5)	94	139	90	123	171 X	71
500-177915-1 MS	3229V-15-B02 (0-5)	120	140	101	122	143	72
500-177915-1 MSD	3229V-15-B02 (0-5)	101	131	87	114	139	70
500-177915-2	3229V-15-B02 (5-10)	62	115	65	107	163 X	63
500-177915-3	3229V-15-B01 (0-2)	99	144	99	127	150	61
LCS 500-530577/2-A	Lab Control Sample	105	116	99	98	135	128
MB 500-530577/1-A	Method Blank	93	124	85	105	138	78

Surrogate Legend

FBP = 2-Fluorobiphenyl
 2FP = 2-Fluorophenol
 NBZ = Nitrobenzene-d5
 PHL = Phenol-d5
 TPHL = Terphenyl-d14
 TBP = 2,4,6-Tribromophenol

QC Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177915-1

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

Lab Sample ID: MB 500-530116/6
Matrix: Solid
Analysis Batch: 530116

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.0087		0.020	0.0087	mg/Kg			02/18/20 10:46	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg			02/18/20 10:46	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg			02/18/20 10:46	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg			02/18/20 10:46	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg			02/18/20 10:46	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			02/18/20 10:46	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg			02/18/20 10:46	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg			02/18/20 10:46	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg			02/18/20 10:46	1
Chloroethane	<0.0015		0.0050	0.0015	mg/Kg			02/18/20 10:46	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg			02/18/20 10:46	1
Chloromethane	<0.0020		0.0050	0.0020	mg/Kg			02/18/20 10:46	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg			02/18/20 10:46	1
cis-1,3-Dichloropropene	<0.00060		0.0020	0.00060	mg/Kg			02/18/20 10:46	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg			02/18/20 10:46	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg			02/18/20 10:46	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg			02/18/20 10:46	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg			02/18/20 10:46	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			02/18/20 10:46	1
1,3-Dichloropropene, Total	<0.00070		0.0020	0.00070	mg/Kg			02/18/20 10:46	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg			02/18/20 10:46	1
2-Hexanone	<0.0016		0.0050	0.0016	mg/Kg			02/18/20 10:46	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg			02/18/20 10:46	1
4-Methyl-2-pentanone (MIBK)	<0.0015		0.0050	0.0015	mg/Kg			02/18/20 10:46	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg			02/18/20 10:46	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg			02/18/20 10:46	1
1,1,2,2-Tetrachloroethane	<0.00064		0.0020	0.00064	mg/Kg			02/18/20 10:46	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg			02/18/20 10:46	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg			02/18/20 10:46	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg			02/18/20 10:46	1
trans-1,3-Dichloropropene	<0.00070		0.0020	0.00070	mg/Kg			02/18/20 10:46	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg			02/18/20 10:46	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg			02/18/20 10:46	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg			02/18/20 10:46	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg			02/18/20 10:46	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg			02/18/20 10:46	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg			02/18/20 10:46	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	101		75 - 131		02/18/20 10:46	1
Dibromofluoromethane	102		75 - 126		02/18/20 10:46	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134		02/18/20 10:46	1
Toluene-d8 (Surr)	88		75 - 124		02/18/20 10:46	1

QC Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177915-1

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

Lab Sample ID: LCS 500-530116/7

Matrix: Solid

Analysis Batch: 530116

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	0.0604		mg/Kg		121	40 - 150
Benzene	0.0500	0.0544		mg/Kg		109	70 - 125
Bromodichloromethane	0.0500	0.0551		mg/Kg		110	67 - 129
Bromoform	0.0500	0.0546		mg/Kg		109	68 - 136
Bromomethane	0.0500	0.0432		mg/Kg		86	70 - 130
2-Butanone (MEK)	0.0500	0.0519		mg/Kg		104	47 - 138
Carbon disulfide	0.0500	0.0559		mg/Kg		112	70 - 129
Carbon tetrachloride	0.0500	0.0613		mg/Kg		123	75 - 125
Chlorobenzene	0.0500	0.0546		mg/Kg		109	50 - 150
Chloroethane	0.0500	0.0520		mg/Kg		104	75 - 125
Chloroform	0.0500	0.0585		mg/Kg		117	57 - 135
Chloromethane	0.0500	0.0473		mg/Kg		95	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0581		mg/Kg		116	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0508		mg/Kg		102	70 - 125
Dibromochloromethane	0.0500	0.0555		mg/Kg		111	69 - 125
1,1-Dichloroethane	0.0500	0.0581		mg/Kg		116	70 - 125
1,2-Dichloroethane	0.0500	0.0584		mg/Kg		117	70 - 130
1,1-Dichloroethene	0.0500	0.0566		mg/Kg		113	70 - 120
1,2-Dichloropropane	0.0500	0.0521		mg/Kg		104	70 - 125
Ethylbenzene	0.0500	0.0544		mg/Kg		109	61 - 136
2-Hexanone	0.0500	0.0525		mg/Kg		105	48 - 146
Methylene Chloride	0.0500	0.0551		mg/Kg		110	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0510		mg/Kg		102	50 - 148
Methyl tert-butyl ether	0.0500	0.0589		mg/Kg		118	50 - 140
Styrene	0.0500	0.0554		mg/Kg		111	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0513		mg/Kg		103	70 - 122
Tetrachloroethene	0.0500	0.0513		mg/Kg		103	70 - 124
Toluene	0.0500	0.0516		mg/Kg		103	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0578		mg/Kg		116	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0517		mg/Kg		103	70 - 125
1,1,1-Trichloroethane	0.0500	0.0607		mg/Kg		121	70 - 128
1,1,2-Trichloroethane	0.0500	0.0523		mg/Kg		105	70 - 125
Trichloroethene	0.0500	0.0576		mg/Kg		115	70 - 125
Vinyl acetate	0.0500	0.0585		mg/Kg		117	40 - 153
Vinyl chloride	0.0500	0.0484		mg/Kg		97	70 - 125
Xylenes, Total	0.100	0.111		mg/Kg		111	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	96		75 - 131
Dibromofluoromethane	99		75 - 126
1,2-Dichloroethane-d4 (Surr)	95		70 - 134
Toluene-d8 (Surr)	91		75 - 124

QC Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177915-1

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

Lab Sample ID: LCSD 500-530116/8

Matrix: Solid

Analysis Batch: 530116

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	0.0541		mg/Kg		108	40 - 150	11	30
Benzene	0.0500	0.0514		mg/Kg		103	70 - 125	6	30
Bromodichloromethane	0.0500	0.0514		mg/Kg		103	67 - 129	7	30
Bromoform	0.0500	0.0524		mg/Kg		105	68 - 136	4	30
Bromomethane	0.0500	0.0425		mg/Kg		85	70 - 130	2	30
2-Butanone (MEK)	0.0500	0.0522		mg/Kg		104	47 - 138	1	30
Carbon disulfide	0.0500	0.0532		mg/Kg		106	70 - 129	5	30
Carbon tetrachloride	0.0500	0.0583		mg/Kg		117	75 - 125	5	30
Chlorobenzene	0.0500	0.0519		mg/Kg		104	50 - 150	5	30
Chloroethane	0.0500	0.0509		mg/Kg		102	75 - 125	2	30
Chloroform	0.0500	0.0551		mg/Kg		110	57 - 135	6	30
Chloromethane	0.0500	0.0474		mg/Kg		95	70 - 125	0	30
cis-1,2-Dichloroethene	0.0500	0.0547		mg/Kg		109	70 - 125	6	30
cis-1,3-Dichloropropene	0.0500	0.0483		mg/Kg		97	70 - 125	5	30
Dibromochloromethane	0.0500	0.0531		mg/Kg		106	69 - 125	5	30
1,1-Dichloroethane	0.0500	0.0551		mg/Kg		110	70 - 125	5	30
1,2-Dichloroethane	0.0500	0.0549		mg/Kg		110	70 - 130	6	30
1,1-Dichloroethene	0.0500	0.0538		mg/Kg		108	70 - 120	5	30
1,2-Dichloropropane	0.0500	0.0504		mg/Kg		101	70 - 125	3	30
Ethylbenzene	0.0500	0.0528		mg/Kg		106	61 - 136	3	30
2-Hexanone	0.0500	0.0526		mg/Kg		105	48 - 146	0	30
Methylene Chloride	0.0500	0.0523		mg/Kg		105	70 - 126	5	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0505		mg/Kg		101	50 - 148	1	30
Methyl tert-butyl ether	0.0500	0.0551		mg/Kg		110	50 - 140	7	30
Styrene	0.0500	0.0531		mg/Kg		106	70 - 125	4	30
1,1,2,2-Tetrachloroethane	0.0500	0.0494		mg/Kg		99	70 - 122	4	30
Tetrachloroethene	0.0500	0.0494		mg/Kg		99	70 - 124	4	30
Toluene	0.0500	0.0493		mg/Kg		99	70 - 125	5	30
trans-1,2-Dichloroethene	0.0500	0.0548		mg/Kg		110	70 - 125	5	30
trans-1,3-Dichloropropene	0.0500	0.0494		mg/Kg		99	70 - 125	5	30
1,1,1-Trichloroethane	0.0500	0.0567		mg/Kg		113	70 - 128	7	30
1,1,2-Trichloroethane	0.0500	0.0499		mg/Kg		100	70 - 125	5	30
Trichloroethene	0.0500	0.0554		mg/Kg		111	70 - 125	4	30
Vinyl acetate	0.0500	0.0560		mg/Kg		112	40 - 153	4	30
Vinyl chloride	0.0500	0.0486		mg/Kg		97	70 - 125	0	30
Xylenes, Total	0.100	0.107		mg/Kg		107	53 - 147	4	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	96		75 - 131
Dibromofluoromethane	99		75 - 126
1,2-Dichloroethane-d4 (Surr)	96		70 - 134
Toluene-d8 (Surr)	92		75 - 124

QC Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177915-1

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

Lab Sample ID: MB 500-530577/1-A

Matrix: Solid

Analysis Batch: 530642

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 530577

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0060		0.033	0.0060	mg/Kg		02/20/20 08:02	02/20/20 18:24	1
Acenaphthylene	<0.0044		0.033	0.0044	mg/Kg		02/20/20 08:02	02/20/20 18:24	1
Anthracene	<0.0056		0.033	0.0056	mg/Kg		02/20/20 08:02	02/20/20 18:24	1
Benzo[a]anthracene	<0.0045		0.033	0.0045	mg/Kg		02/20/20 08:02	02/20/20 18:24	1
Benzo[a]pyrene	<0.0064		0.033	0.0064	mg/Kg		02/20/20 08:02	02/20/20 18:24	1
Benzo[b]fluoranthene	<0.0072		0.033	0.0072	mg/Kg		02/20/20 08:02	02/20/20 18:24	1
Benzo[g,h,i]perylene	<0.011		0.033	0.011	mg/Kg		02/20/20 08:02	02/20/20 18:24	1
Benzo[k]fluoranthene	<0.0098		0.033	0.0098	mg/Kg		02/20/20 08:02	02/20/20 18:24	1
Bis(2-chloroethoxy)methane	<0.034		0.17	0.034	mg/Kg		02/20/20 08:02	02/20/20 18:24	1
Bis(2-chloroethyl)ether	<0.050		0.17	0.050	mg/Kg		02/20/20 08:02	02/20/20 18:24	1
Bis(2-ethylhexyl) phthalate	<0.061		0.17	0.061	mg/Kg		02/20/20 08:02	02/20/20 18:24	1
4-Bromophenyl phenyl ether	<0.044		0.17	0.044	mg/Kg		02/20/20 08:02	02/20/20 18:24	1
Butyl benzyl phthalate	<0.063		0.17	0.063	mg/Kg		02/20/20 08:02	02/20/20 18:24	1
Carbazole	<0.083		0.17	0.083	mg/Kg		02/20/20 08:02	02/20/20 18:24	1
4-Chloroaniline	<0.16		0.67	0.16	mg/Kg		02/20/20 08:02	02/20/20 18:24	1
4-Chloro-3-methylphenol	<0.11		0.33	0.11	mg/Kg		02/20/20 08:02	02/20/20 18:24	1
2-Chloronaphthalene	<0.037		0.17	0.037	mg/Kg		02/20/20 08:02	02/20/20 18:24	1
2-Chlorophenol	<0.057		0.17	0.057	mg/Kg		02/20/20 08:02	02/20/20 18:24	1
4-Chlorophenyl phenyl ether	<0.039		0.17	0.039	mg/Kg		02/20/20 08:02	02/20/20 18:24	1
Chrysene	<0.0091		0.033	0.0091	mg/Kg		02/20/20 08:02	02/20/20 18:24	1
Dibenz(a,h)anthracene	<0.0064		0.033	0.0064	mg/Kg		02/20/20 08:02	02/20/20 18:24	1
Dibenzofuran	<0.039		0.17	0.039	mg/Kg		02/20/20 08:02	02/20/20 18:24	1
1,2-Dichlorobenzene	<0.040		0.17	0.040	mg/Kg		02/20/20 08:02	02/20/20 18:24	1
1,3-Dichlorobenzene	<0.037		0.17	0.037	mg/Kg		02/20/20 08:02	02/20/20 18:24	1
1,4-Dichlorobenzene	<0.043		0.17	0.043	mg/Kg		02/20/20 08:02	02/20/20 18:24	1
3,3'-Dichlorobenzidine	<0.047		0.17	0.047	mg/Kg		02/20/20 08:02	02/20/20 18:24	1
2,4-Dichlorophenol	<0.079		0.33	0.079	mg/Kg		02/20/20 08:02	02/20/20 18:24	1
Diethyl phthalate	<0.056		0.17	0.056	mg/Kg		02/20/20 08:02	02/20/20 18:24	1
2,4-Dimethylphenol	<0.13		0.33	0.13	mg/Kg		02/20/20 08:02	02/20/20 18:24	1
Dimethyl phthalate	<0.043		0.17	0.043	mg/Kg		02/20/20 08:02	02/20/20 18:24	1
Di-n-butyl phthalate	<0.051		0.17	0.051	mg/Kg		02/20/20 08:02	02/20/20 18:24	1
4,6-Dinitro-2-methylphenol	<0.27		0.67	0.27	mg/Kg		02/20/20 08:02	02/20/20 18:24	1
2,4-Dinitrophenol	<0.59		0.67	0.59	mg/Kg		02/20/20 08:02	02/20/20 18:24	1
2,4-Dinitrotoluene	<0.053		0.17	0.053	mg/Kg		02/20/20 08:02	02/20/20 18:24	1
2,6-Dinitrotoluene	<0.065		0.17	0.065	mg/Kg		02/20/20 08:02	02/20/20 18:24	1
Di-n-octyl phthalate	<0.054		0.17	0.054	mg/Kg		02/20/20 08:02	02/20/20 18:24	1
Fluoranthene	<0.0062		0.033	0.0062	mg/Kg		02/20/20 08:02	02/20/20 18:24	1
Fluorene	<0.0047		0.033	0.0047	mg/Kg		02/20/20 08:02	02/20/20 18:24	1
Hexachlorobenzene	<0.0077		0.067	0.0077	mg/Kg		02/20/20 08:02	02/20/20 18:24	1
Hexachlorobutadiene	<0.052		0.17	0.052	mg/Kg		02/20/20 08:02	02/20/20 18:24	1
Hexachlorocyclopentadiene	<0.19		0.67	0.19	mg/Kg		02/20/20 08:02	02/20/20 18:24	1
Hexachloroethane	<0.051		0.17	0.051	mg/Kg		02/20/20 08:02	02/20/20 18:24	1
Indeno[1,2,3-cd]pyrene	<0.0086		0.033	0.0086	mg/Kg		02/20/20 08:02	02/20/20 18:24	1
Isophorone	<0.037		0.17	0.037	mg/Kg		02/20/20 08:02	02/20/20 18:24	1
2-Methylnaphthalene	<0.0061		0.067	0.0061	mg/Kg		02/20/20 08:02	02/20/20 18:24	1
2-Methylphenol	<0.053		0.17	0.053	mg/Kg		02/20/20 08:02	02/20/20 18:24	1
3 & 4 Methylphenol	<0.055		0.17	0.055	mg/Kg		02/20/20 08:02	02/20/20 18:24	1
Naphthalene	<0.0051		0.033	0.0051	mg/Kg		02/20/20 08:02	02/20/20 18:24	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177915-1

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

Lab Sample ID: MB 500-530577/1-A
Matrix: Solid
Analysis Batch: 530642

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 530577

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	<0.045		0.17	0.045	mg/Kg		02/20/20 08:02	02/20/20 18:24	1
3-Nitroaniline	<0.10		0.33	0.10	mg/Kg		02/20/20 08:02	02/20/20 18:24	1
4-Nitroaniline	<0.14		0.33	0.14	mg/Kg		02/20/20 08:02	02/20/20 18:24	1
Nitrobenzene	<0.0083		0.033	0.0083	mg/Kg		02/20/20 08:02	02/20/20 18:24	1
2-Nitrophenol	<0.079		0.33	0.079	mg/Kg		02/20/20 08:02	02/20/20 18:24	1
4-Nitrophenol	<0.32		0.67	0.32	mg/Kg		02/20/20 08:02	02/20/20 18:24	1
N-Nitrosodi-n-propylamine	<0.041		0.067	0.041	mg/Kg		02/20/20 08:02	02/20/20 18:24	1
N-Nitrosodiphenylamine	<0.039		0.17	0.039	mg/Kg		02/20/20 08:02	02/20/20 18:24	1
2,2'-oxybis[1-chloropropane]	<0.039		0.17	0.039	mg/Kg		02/20/20 08:02	02/20/20 18:24	1
Pentachlorophenol	<0.53		0.67	0.53	mg/Kg		02/20/20 08:02	02/20/20 18:24	1
Phenanthrene	<0.0046		0.033	0.0046	mg/Kg		02/20/20 08:02	02/20/20 18:24	1
Phenol	<0.074		0.17	0.074	mg/Kg		02/20/20 08:02	02/20/20 18:24	1
Pyrene	<0.0066		0.033	0.0066	mg/Kg		02/20/20 08:02	02/20/20 18:24	1
1,2,4-Trichlorobenzene	<0.036		0.17	0.036	mg/Kg		02/20/20 08:02	02/20/20 18:24	1
2,4,5-Trichlorophenol	<0.076		0.33	0.076	mg/Kg		02/20/20 08:02	02/20/20 18:24	1
2,4,6-Trichlorophenol	<0.11		0.33	0.11	mg/Kg		02/20/20 08:02	02/20/20 18:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	93		43 - 145	02/20/20 08:02	02/20/20 18:24	1
2-Fluorophenol	124		31 - 166	02/20/20 08:02	02/20/20 18:24	1
Nitrobenzene-d5	85		37 - 147	02/20/20 08:02	02/20/20 18:24	1
Phenol-d5	105		30 - 153	02/20/20 08:02	02/20/20 18:24	1
Terphenyl-d14	138		42 - 157	02/20/20 08:02	02/20/20 18:24	1
2,4,6-Tribromophenol	78		31 - 143	02/20/20 08:02	02/20/20 18:24	1

Lab Sample ID: LCS 500-530577/2-A
Matrix: Solid
Analysis Batch: 530642

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 530577

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1.33	1.35		mg/Kg		101	65 - 124
Acenaphthylene	1.33	1.38		mg/Kg		103	68 - 120
Anthracene	1.33	1.40		mg/Kg		105	70 - 114
Benzo[a]anthracene	1.33	1.42		mg/Kg		106	67 - 122
Benzo[a]pyrene	1.33	1.51		mg/Kg		113	65 - 133
Benzo[b]fluoranthene	1.33	1.48		mg/Kg		111	69 - 129
Benzo[g,h,i]perylene	1.33	1.66		mg/Kg		124	72 - 131
Benzo[k]fluoranthene	1.33	1.47		mg/Kg		110	68 - 127
Bis(2-chloroethoxy)methane	1.33	1.24		mg/Kg		93	60 - 112
Bis(2-chloroethyl)ether	1.33	1.08		mg/Kg		81	55 - 111
Bis(2-ethylhexyl) phthalate	1.33	1.29		mg/Kg		97	72 - 131
4-Bromophenyl phenyl ether	1.33	1.48		mg/Kg		111	68 - 118
Butyl benzyl phthalate	1.33	1.31		mg/Kg		99	71 - 129
Carbazole	1.33	1.36		mg/Kg		102	65 - 142
4-Chloroaniline	1.33	1.15		mg/Kg		86	30 - 150
4-Chloro-3-methylphenol	1.33	1.28		mg/Kg		96	65 - 122
2-Chloronaphthalene	1.33	1.35		mg/Kg		101	69 - 114
2-Chlorophenol	1.33	1.26		mg/Kg		95	64 - 110

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177915-1

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

Lab Sample ID: LCS 500-530577/2-A

Matrix: Solid

Analysis Batch: 530642

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 530577

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorophenyl phenyl ether	1.33	1.44		mg/Kg		108	62 - 119
Chrysene	1.33	1.38		mg/Kg		104	63 - 120
Dibenz(a,h)anthracene	1.33	1.67		mg/Kg		125	64 - 131
Dibenzofuran	1.33	1.36		mg/Kg		102	66 - 115
1,2-Dichlorobenzene	1.33	1.22		mg/Kg		91	62 - 110
1,3-Dichlorobenzene	1.33	1.17		mg/Kg		88	65 - 124
1,4-Dichlorobenzene	1.33	1.20		mg/Kg		90	61 - 110
3,3'-Dichlorobenzidine	1.33	1.08		mg/Kg		81	35 - 128
2,4-Dichlorophenol	1.33	1.36		mg/Kg		102	58 - 120
Diethyl phthalate	1.33	1.40		mg/Kg		105	58 - 120
2,4-Dimethylphenol	1.33	1.33		mg/Kg		100	60 - 110
Dimethyl phthalate	1.33	1.38		mg/Kg		103	69 - 116
Di-n-butyl phthalate	1.33	1.33		mg/Kg		100	65 - 120
4,6-Dinitro-2-methylphenol	2.67	1.00		mg/Kg		38	10 - 110
2,4-Dinitrophenol	2.67	0.660	J	mg/Kg		25	10 - 100
2,4-Dinitrotoluene	1.33	1.42		mg/Kg		106	69 - 124
2,6-Dinitrotoluene	1.33	1.46		mg/Kg		109	70 - 123
Di-n-octyl phthalate	1.33	1.05		mg/Kg		79	68 - 134
Fluoranthene	1.33	1.37		mg/Kg		103	62 - 120
Fluorene	1.33	1.46		mg/Kg		110	62 - 120
Hexachlorobenzene	1.33	1.62		mg/Kg		121	63 - 124
Hexachlorobutadiene	1.33	1.45		mg/Kg		108	56 - 120
Hexachlorocyclopentadiene	1.33	1.13		mg/Kg		85	10 - 133
Hexachloroethane	1.33	1.16		mg/Kg		87	60 - 114
Indeno[1,2,3-cd]pyrene	1.33	1.65		mg/Kg		124	68 - 130
Isophorone	1.33	1.21		mg/Kg		91	55 - 110
2-Methylnaphthalene	1.33	1.39		mg/Kg		104	69 - 112
2-Methylphenol	1.33	1.16		mg/Kg		87	60 - 120
3 & 4 Methylphenol	1.33	1.18		mg/Kg		89	57 - 120
Naphthalene	1.33	1.31		mg/Kg		98	63 - 110
2-Nitroaniline	1.33	1.23		mg/Kg		93	57 - 124
3-Nitroaniline	1.33	1.18		mg/Kg		89	40 - 122
4-Nitroaniline	1.33	1.27		mg/Kg		95	60 - 160
Nitrobenzene	1.33	1.22		mg/Kg		92	60 - 116
2-Nitrophenol	1.33	1.32		mg/Kg		99	60 - 120
4-Nitrophenol	2.67	2.51		mg/Kg		94	30 - 122
N-Nitrosodi-n-propylamine	1.33	1.20		mg/Kg		90	56 - 118
N-Nitrosodiphenylamine	1.33	1.39		mg/Kg		105	65 - 112
2,2'-oxybis[1-chloropropane]	1.33	0.839		mg/Kg		63	40 - 124
Pentachlorophenol	2.67	1.67		mg/Kg		63	13 - 112
Phenanthrene	1.33	1.38		mg/Kg		104	62 - 120
Phenol	1.33	1.20		mg/Kg		90	56 - 122
Pyrene	1.33	1.51		mg/Kg		113	61 - 128
1,2,4-Trichlorobenzene	1.33	1.36		mg/Kg		102	66 - 117
2,4,5-Trichlorophenol	1.33	1.40		mg/Kg		105	50 - 120
2,4,6-Trichlorophenol	1.33	1.46		mg/Kg		109	57 - 120

QC Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177915-1

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

Lab Sample ID: LCS 500-530577/2-A
Matrix: Solid
Analysis Batch: 530642

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 530577

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	105		43 - 145
2-Fluorophenol	116		31 - 166
Nitrobenzene-d5	99		37 - 147
Phenol-d5	98		30 - 153
Terphenyl-d14	135		42 - 157
2,4,6-Tribromophenol	128		31 - 143

Lab Sample ID: 500-177915-1 MS
Matrix: Solid
Analysis Batch: 530723

Client Sample ID: 3229V-15-B02 (0-5)
Prep Type: Total/NA
Prep Batch: 530577

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	<0.0080		1.78	2.21		mg/Kg	☼	124	65 - 124
Acenaphthylene	<0.0058		1.78	2.07		mg/Kg	☼	116	68 - 120
Anthracene	0.012	J F1	1.78	2.42	F1	mg/Kg	☼	135	70 - 114
Benzo[a]anthracene	0.042	J F1	1.78	2.28	F1	mg/Kg	☼	126	67 - 122
Benzo[a]pyrene	0.056		1.78	1.97		mg/Kg	☼	108	65 - 133
Benzo[b]fluoranthene	0.052		1.78	2.14		mg/Kg	☼	117	69 - 129
Benzo[g,h,i]perylene	0.023	J	1.78	2.23		mg/Kg	☼	124	72 - 131
Benzo[k]fluoranthene	0.015	J	1.78	2.18		mg/Kg	☼	122	68 - 127
Bis(2-chloroethoxy)methane	<0.045		1.78	1.94		mg/Kg	☼	109	60 - 112
Bis(2-chloroethyl)ether	<0.066		1.78	1.81		mg/Kg	☼	102	55 - 111
Bis(2-ethylhexyl) phthalate	<0.081	F1	1.78	2.50	F1	mg/Kg	☼	140	72 - 131
4-Bromophenyl phenyl ether	<0.058		1.78	2.11		mg/Kg	☼	118	68 - 118
Butyl benzyl phthalate	<0.084	F1	1.78	2.35	F1	mg/Kg	☼	132	71 - 129
Carbazole	<0.11		1.78	2.26		mg/Kg	☼	127	65 - 142
4-Chloroaniline	<0.21		1.78	1.31		mg/Kg	☼	73	30 - 150
4-Chloro-3-methylphenol	<0.15		1.78	2.12		mg/Kg	☼	119	65 - 122
2-Chloronaphthalene	<0.049		1.78	1.94		mg/Kg	☼	109	69 - 114
2-Chlorophenol	<0.076		1.78	1.82		mg/Kg	☼	102	64 - 110
4-Chlorophenyl phenyl ether	<0.052		1.78	1.98		mg/Kg	☼	111	62 - 119
Chrysene	0.048	F1	1.78	2.28	F1	mg/Kg	☼	125	63 - 120
Dibenz(a,h)anthracene	<0.0086		1.78	2.18		mg/Kg	☼	122	64 - 131
Dibenzofuran	<0.052	F1	1.78	2.07	F1	mg/Kg	☼	116	66 - 115
1,2-Dichlorobenzene	<0.053		1.78	1.55		mg/Kg	☼	87	62 - 110
1,3-Dichlorobenzene	<0.050		1.78	1.47		mg/Kg	☼	83	60 - 110
1,4-Dichlorobenzene	<0.057		1.78	1.51		mg/Kg	☼	85	61 - 110
3,3'-Dichlorobenzidine	<0.062		1.78	1.01		mg/Kg	☼	57	35 - 128
2,4-Dichlorophenol	<0.11		1.78	1.81		mg/Kg	☼	101	58 - 120
Diethyl phthalate	<0.075	F1	1.78	2.50	F1	mg/Kg	☼	141	58 - 120
2,4-Dimethylphenol	<0.17		1.78	1.80		mg/Kg	☼	101	60 - 110
Dimethyl phthalate	<0.058		1.78	1.96		mg/Kg	☼	110	69 - 116
Di-n-butyl phthalate	<0.067	F1	1.78	2.30	F1	mg/Kg	☼	129	65 - 120
4,6-Dinitro-2-methylphenol	<0.36		3.56	1.44		mg/Kg	☼	40	10 - 110
2,4-Dinitrophenol	<0.78	F1	3.56	0.800	J	mg/Kg	☼	22	10 - 100
2,4-Dinitrotoluene	<0.070		1.78	2.21		mg/Kg	☼	124	69 - 124
2,6-Dinitrotoluene	<0.087		1.78	2.02		mg/Kg	☼	113	70 - 123
Di-n-octyl phthalate	<0.072		1.78	2.30		mg/Kg	☼	129	68 - 134

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QC Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177915-1

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

Lab Sample ID: 500-177915-1 MS

Matrix: Solid

Analysis Batch: 530723

Client Sample ID: 3229V-15-B02 (0-5)

Prep Type: Total/NA

Prep Batch: 530577

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier		Result	Qualifier					
Fluoranthene	0.086	F1	1.78	2.59	F1	mg/Kg	☼	140	62 - 120	
Fluorene	<0.0062	F1	1.78	2.26	F1	mg/Kg	☼	127	62 - 120	
Hexachlorobenzene	<0.010		1.78	2.02		mg/Kg	☼	113	63 - 124	
Hexachlorobutadiene	<0.070		1.78	1.71		mg/Kg	☼	96	56 - 120	
Hexachlorocyclopentadiene	<0.25	F1	1.78	<0.26	F1	mg/Kg	☼	0	10 - 133	
Hexachloroethane	<0.067		1.78	1.58		mg/Kg	☼	89	60 - 114	
Indeno[1,2,3-cd]pyrene	<0.011		1.78	2.15		mg/Kg	☼	121	68 - 130	
Isophorone	<0.050	F1	1.78	2.01	F1	mg/Kg	☼	113	55 - 110	
2-Methylnaphthalene	<0.0081		1.78	1.93		mg/Kg	☼	108	69 - 112	
2-Methylphenol	<0.071	F1	1.78	2.39	F1	mg/Kg	☼	134	60 - 120	
3 & 4 Methylphenol	<0.074	F1	1.78	2.23	F1	mg/Kg	☼	125	57 - 120	
Naphthalene	<0.0068		1.78	1.84		mg/Kg	☼	103	63 - 110	
2-Nitroaniline	<0.060	F1	1.78	2.30	F1	mg/Kg	☼	129	57 - 124	
3-Nitroaniline	<0.14		1.78	1.37		mg/Kg	☼	77	40 - 122	
4-Nitroaniline	<0.19		1.78	1.66		mg/Kg	☼	93	60 - 160	
Nitrobenzene	<0.011	F1	1.78	2.08	F1	mg/Kg	☼	117	60 - 116	
2-Nitrophenol	<0.10		1.78	1.78		mg/Kg	☼	100	60 - 120	
4-Nitrophenol	<0.42		3.56	4.03		mg/Kg	☼	113	30 - 122	
N-Nitrosodi-n-propylamine	<0.054	F1	1.78	2.32	F1	mg/Kg	☼	130	56 - 118	
N-Nitrosodiphenylamine	<0.052	F1	1.78	2.27	F1	mg/Kg	☼	127	65 - 112	
2,2'-oxybis[1-chloropropane]	<0.051	F1	1.78	3.13	E F1	mg/Kg	☼	176	40 - 124	
Pentachlorophenol	<0.71		3.56	2.45		mg/Kg	☼	69	13 - 112	
Phenanthrene	0.053	F1	1.78	2.47	F1	mg/Kg	☼	136	62 - 120	
Phenol	<0.098		1.78	1.91		mg/Kg	☼	107	56 - 122	
Pyrene	0.089	F1	1.78	2.48	F1	mg/Kg	☼	134	61 - 128	
1,2,4-Trichlorobenzene	<0.048		1.78	1.74		mg/Kg	☼	98	66 - 117	
2,4,5-Trichlorophenol	<0.10		1.78	2.11		mg/Kg	☼	118	50 - 120	
2,4,6-Trichlorophenol	<0.15		1.78	1.65		mg/Kg	☼	93	57 - 120	

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	120		43 - 145
2-Fluorophenol	140		31 - 166
Nitrobenzene-d5	101		37 - 147
Phenol-d5	122		30 - 153
Terphenyl-d14	143		42 - 157
2,4,6-Tribromophenol	72		31 - 143

Lab Sample ID: 500-177915-1 MSD

Matrix: Solid

Analysis Batch: 530723

Client Sample ID: 3229V-15-B02 (0-5)

Prep Type: Total/NA

Prep Batch: 530577

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec.	Limits	RPD	
	Result	Qualifier		Result	Qualifier						RPD	Limit
Acenaphthene	<0.0080		1.77	2.10		mg/Kg	☼	119	65 - 124	5	30	
Acenaphthylene	<0.0058		1.77	1.99		mg/Kg	☼	113	68 - 120	4	30	
Anthracene	0.012	J F1	1.77	2.27	F1	mg/Kg	☼	128	70 - 114	6	30	
Benzo[a]anthracene	0.042	J F1	1.77	2.17		mg/Kg	☼	120	67 - 122	5	30	
Benzo[a]pyrene	0.056		1.77	1.88		mg/Kg	☼	103	65 - 133	5	30	
Benzo[b]fluoranthene	0.052		1.77	2.04		mg/Kg	☼	112	69 - 129	5	30	

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177915-1

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

Lab Sample ID: 500-177915-1 MSD

Matrix: Solid

Analysis Batch: 530723

Client Sample ID: 3229V-15-B02 (0-5)

Prep Type: Total/NA

Prep Batch: 530577

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier						
Benzo[g,h,i]perylene	0.023	J	1.77	1.86		mg/Kg	☼	104	72 - 131	18	30
Benzo[k]fluoranthene	0.015	J	1.77	2.04		mg/Kg	☼	114	68 - 127	7	30
Bis(2-chloroethoxy)methane	<0.045		1.77	1.86		mg/Kg	☼	105	60 - 112	4	30
Bis(2-chloroethyl)ether	<0.066		1.77	1.85		mg/Kg	☼	104	55 - 111	2	30
Bis(2-ethylhexyl) phthalate	<0.081	F1	1.77	2.38	F1	mg/Kg	☼	135	72 - 131	5	30
4-Bromophenyl phenyl ether	<0.058		1.77	1.93		mg/Kg	☼	109	68 - 118	9	30
Butyl benzyl phthalate	<0.084	F1	1.77	2.27		mg/Kg	☼	128	71 - 129	3	30
Carbazole	<0.11		1.77	2.14		mg/Kg	☼	121	65 - 142	5	30
4-Chloroaniline	<0.21		1.77	1.27		mg/Kg	☼	72	30 - 150	3	30
4-Chloro-3-methylphenol	<0.15		1.77	2.02		mg/Kg	☼	114	65 - 122	5	30
2-Chloronaphthalene	<0.049		1.77	1.85		mg/Kg	☼	105	69 - 114	5	30
2-Chlorophenol	<0.076		1.77	1.81		mg/Kg	☼	102	64 - 110	1	30
4-Chlorophenyl phenyl ether	<0.052		1.77	1.85		mg/Kg	☼	104	62 - 119	7	30
Chrysene	0.048	F1	1.77	2.15		mg/Kg	☼	119	63 - 120	6	30
Dibenz(a,h)anthracene	<0.0086		1.77	2.01		mg/Kg	☼	113	64 - 131	8	30
Dibenzofuran	<0.052	F1	1.77	1.93		mg/Kg	☼	109	66 - 115	7	30
1,2-Dichlorobenzene	<0.053		1.77	1.59		mg/Kg	☼	90	62 - 110	2	30
1,3-Dichlorobenzene	<0.050		1.77	1.47		mg/Kg	☼	83	60 - 110	0	30
1,4-Dichlorobenzene	<0.057		1.77	1.52		mg/Kg	☼	86	61 - 110	1	30
3,3'-Dichlorobenzidine	<0.062		1.77	1.18		mg/Kg	☼	67	35 - 128	16	30
2,4-Dichlorophenol	<0.11		1.77	1.75		mg/Kg	☼	99	58 - 120	3	30
Diethyl phthalate	<0.075	F1	1.77	2.39	F1	mg/Kg	☼	135	58 - 120	5	30
2,4-Dimethylphenol	<0.17		1.77	1.75		mg/Kg	☼	99	60 - 110	3	30
Dimethyl phthalate	<0.058		1.77	1.85		mg/Kg	☼	105	69 - 116	6	30
Di-n-butyl phthalate	<0.067	F1	1.77	2.21	F1	mg/Kg	☼	125	65 - 120	4	30
4,6-Dinitro-2-methylphenol	<0.36		3.54	1.16		mg/Kg	☼	33	10 - 110	21	30
2,4-Dinitrophenol	<0.78	F1	3.54	<0.78	F1	mg/Kg	☼	0	10 - 100	NC	30
2,4-Dinitrotoluene	<0.070		1.77	2.10		mg/Kg	☼	119	69 - 124	5	30
2,6-Dinitrotoluene	<0.087		1.77	1.93		mg/Kg	☼	109	70 - 123	5	30
Di-n-octyl phthalate	<0.072		1.77	2.26		mg/Kg	☼	128	68 - 134	2	30
Fluoranthene	0.086	F1	1.77	2.33	F1	mg/Kg	☼	127	62 - 120	10	30
Fluorene	<0.0062	F1	1.77	2.08		mg/Kg	☼	118	62 - 120	8	30
Hexachlorobenzene	<0.010		1.77	1.85		mg/Kg	☼	105	63 - 124	9	30
Hexachlorobutadiene	<0.070		1.77	1.68		mg/Kg	☼	95	56 - 120	2	30
Hexachlorocyclopentadiene	<0.25	F1	1.77	<0.25	F1	mg/Kg	☼	0	10 - 133	NC	30
Hexachloroethane	<0.067		1.77	1.47		mg/Kg	☼	83	60 - 114	8	30
Indeno[1,2,3-cd]pyrene	<0.011		1.77	1.97		mg/Kg	☼	112	68 - 130	9	30
Isophorone	<0.050	F1	1.77	1.92		mg/Kg	☼	109	55 - 110	5	30
2-Methylnaphthalene	<0.0081		1.77	1.87		mg/Kg	☼	106	69 - 112	3	30
2-Methylphenol	<0.071	F1	1.77	2.45	F1	mg/Kg	☼	138	60 - 120	2	30
3 & 4 Methylphenol	<0.074	F1	1.77	2.32	F1	mg/Kg	☼	131	57 - 120	4	30
Naphthalene	<0.0068		1.77	1.77		mg/Kg	☼	100	63 - 110	4	30
2-Nitroaniline	<0.060	F1	1.77	2.21	F1	mg/Kg	☼	125	57 - 124	4	30
3-Nitroaniline	<0.14		1.77	1.49		mg/Kg	☼	85	40 - 122	9	30
4-Nitroaniline	<0.19		1.77	1.57		mg/Kg	☼	89	60 - 160	6	30
Nitrobenzene	<0.011	F1	1.77	2.03		mg/Kg	☼	115	60 - 116	3	30
2-Nitrophenol	<0.10		1.77	1.72		mg/Kg	☼	97	60 - 120	4	30
4-Nitrophenol	<0.42		3.54	3.88		mg/Kg	☼	110	30 - 122	4	30
N-Nitrosodi-n-propylamine	<0.054	F1	1.77	2.30	F1	mg/Kg	☼	130	56 - 118	1	30

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177915-1

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

Lab Sample ID: 500-177915-1 MSD

Matrix: Solid

Analysis Batch: 530723

Client Sample ID: 3229V-15-B02 (0-5)

Prep Type: Total/NA

Prep Batch: 530577

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier		Result	Qualifier						
N-Nitrosodiphenylamine	<0.052	F1	1.77	2.10	F1	mg/Kg	☼	119	65 - 112	8	30
2,2'-oxybis[1-chloropropane]	<0.051	F1	1.77	3.27	E F1	mg/Kg	☼	185	40 - 124	4	30
Pentachlorophenol	<0.71		3.54	2.55		mg/Kg	☼	72	13 - 112	4	30
Phenanthrene	0.053	F1	1.77	2.32	F1	mg/Kg	☼	128	62 - 120	6	30
Phenol	<0.098		1.77	2.08		mg/Kg	☼	117	56 - 122	9	30
Pyrene	0.089	F1	1.77	2.29		mg/Kg	☼	124	61 - 128	8	30
1,2,4-Trichlorobenzene	<0.048		1.77	1.68		mg/Kg	☼	95	66 - 117	4	30
2,4,5-Trichlorophenol	<0.10		1.77	2.03		mg/Kg	☼	115	50 - 120	4	30
2,4,6-Trichlorophenol	<0.15		1.77	1.66		mg/Kg	☼	94	57 - 120	1	30

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	101		43 - 145
2-Fluorophenol	131		31 - 166
Nitrobenzene-d5	87		37 - 147
Phenol-d5	114		30 - 153
Terphenyl-d14	139		42 - 157
2,4,6-Tribromophenol	70		31 - 143

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-530303/1-A

Matrix: Solid

Analysis Batch: 530529

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 530303

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.39		2.0	0.39	mg/Kg		02/19/20 06:57	02/19/20 17:20	1
Arsenic	<0.34		1.0	0.34	mg/Kg		02/19/20 06:57	02/19/20 17:20	1
Barium	<0.11		1.0	0.11	mg/Kg		02/19/20 06:57	02/19/20 17:20	1
Beryllium	<0.093		0.40	0.093	mg/Kg		02/19/20 06:57	02/19/20 17:20	1
Cadmium	0.0593	J	0.20	0.036	mg/Kg		02/19/20 06:57	02/19/20 17:20	1
Chromium	<0.50		1.0	0.50	mg/Kg		02/19/20 06:57	02/19/20 17:20	1
Cobalt	<0.13		0.50	0.13	mg/Kg		02/19/20 06:57	02/19/20 17:20	1
Copper	<0.28		1.0	0.28	mg/Kg		02/19/20 06:57	02/19/20 17:20	1
Iron	10.6	J	20	10	mg/Kg		02/19/20 06:57	02/19/20 17:20	1
Lead	<0.23		0.50	0.23	mg/Kg		02/19/20 06:57	02/19/20 17:20	1
Magnesium	<5.0		10	5.0	mg/Kg		02/19/20 06:57	02/19/20 17:20	1
Calcium	<3.4		20	3.4	mg/Kg		02/19/20 06:57	02/19/20 17:20	1
Manganese	<0.15		1.0	0.15	mg/Kg		02/19/20 06:57	02/19/20 17:20	1
Nickel	<0.29		1.0	0.29	mg/Kg		02/19/20 06:57	02/19/20 17:20	1
Selenium	<0.59		1.0	0.59	mg/Kg		02/19/20 06:57	02/19/20 17:20	1
Silver	<0.13		0.50	0.13	mg/Kg		02/19/20 06:57	02/19/20 17:20	1
Thallium	<0.50		1.0	0.50	mg/Kg		02/19/20 06:57	02/19/20 17:20	1
Vanadium	<0.12		0.50	0.12	mg/Kg		02/19/20 06:57	02/19/20 17:20	1
Zinc	1.14	J	2.0	0.88	mg/Kg		02/19/20 06:57	02/19/20 17:20	1
Potassium	<18		50	18	mg/Kg		02/19/20 06:57	02/19/20 17:20	1
Sodium	<15		100	15	mg/Kg		02/19/20 06:57	02/19/20 17:20	1

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QC Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177915-1

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

Lab Sample ID: LCS 500-530303/2-A
Matrix: Solid
Analysis Batch: 530529

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 530303
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	50.0	47.5		mg/Kg		95	80 - 120
Arsenic	10.0	8.92		mg/Kg		89	80 - 120
Barium	200	190		mg/Kg		95	80 - 120
Beryllium	5.00	4.23		mg/Kg		85	80 - 120
Cadmium	5.00	4.48		mg/Kg		90	80 - 120
Chromium	20.0	18.2		mg/Kg		91	80 - 120
Cobalt	50.0	46.2		mg/Kg		92	80 - 120
Copper	25.0	23.4		mg/Kg		93	80 - 120
Iron	100	100		mg/Kg		100	80 - 120
Lead	10.0	8.80		mg/Kg		88	80 - 120
Magnesium	1000	837		mg/Kg		84	80 - 120
Calcium	1000	884		mg/Kg		88	80 - 120
Manganese	50.0	43.6		mg/Kg		87	80 - 120
Nickel	50.0	45.5		mg/Kg		91	80 - 120
Selenium	10.0	8.40		mg/Kg		84	80 - 120
Silver	5.00	4.16		mg/Kg		83	80 - 120
Thallium	10.0	8.95		mg/Kg		90	80 - 120
Vanadium	50.0	46.2		mg/Kg		92	80 - 120
Zinc	50.0	44.5		mg/Kg		89	80 - 120
Potassium	1000	935		mg/Kg		94	80 - 120
Sodium	1000	946		mg/Kg		95	80 - 120

Lab Sample ID: LCS 500-530714/2-A
Matrix: Solid
Analysis Batch: 530900

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 530714
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Lead	0.100	0.0897		mg/L		90	80 - 120
Manganese	0.500	0.464		mg/L		93	80 - 120

Lab Sample ID: LCS 500-530716/2-A
Matrix: Solid
Analysis Batch: 531048

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 530716
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.100	0.112		mg/L		112	80 - 120
Barium	0.500	0.502		mg/L		100	80 - 120
Beryllium	0.0500	0.0491		mg/L		98	80 - 120
Cadmium	0.0500	0.0525		mg/L		105	80 - 120
Chromium	0.200	0.181		mg/L		91	80 - 120
Cobalt	0.500	0.491		mg/L		98	80 - 120
Copper	0.250	0.269		mg/L		108	80 - 120
Iron	1.00	0.948		mg/L		95	80 - 120
Lead	0.100	0.0896		mg/L		90	80 - 120
Magnesium	10.0	8.78		mg/L		88	80 - 120
Calcium	10.0	9.06		mg/L		91	80 - 120
Manganese	0.500	0.467		mg/L		93	80 - 120
Nickel	0.500	0.487		mg/L		97	80 - 120
Selenium	0.100	0.103		mg/L		103	80 - 120

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QC Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177915-1

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

Lab Sample ID: LCS 500-530716/2-A
Matrix: Solid
Analysis Batch: 531048

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 530716

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	0.0500	0.0492		mg/L		98	80 - 120
Vanadium	0.500	0.477		mg/L		95	80 - 120
Zinc	0.500	0.510		mg/L		102	80 - 120
Potassium	10.0	10.8		mg/L		108	80 - 120

Lab Sample ID: LB 500-530439/1-B
Matrix: Solid
Analysis Batch: 531048

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 530716

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		02/20/20 14:45	02/21/20 10:51	1
Barium	<0.050		0.50	0.050	mg/L		02/20/20 14:45	02/21/20 10:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/20/20 14:45	02/21/20 10:51	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		02/20/20 14:45	02/21/20 10:51	1
Chromium	<0.010		0.025	0.010	mg/L		02/20/20 14:45	02/21/20 10:51	1
Cobalt	<0.010		0.025	0.010	mg/L		02/20/20 14:45	02/21/20 10:51	1
Copper	0.0241	J	0.025	0.010	mg/L		02/20/20 14:45	02/21/20 10:51	1
Iron	<0.20		0.40	0.20	mg/L		02/20/20 14:45	02/21/20 10:51	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/20/20 14:45	02/21/20 10:51	1
Magnesium	<0.50		2.5	0.50	mg/L		02/20/20 14:45	02/21/20 10:51	1
Calcium	<0.50		5.0	0.50	mg/L		02/20/20 14:45	02/21/20 10:51	1
Manganese	<0.010		0.025	0.010	mg/L		02/20/20 14:45	02/21/20 10:51	1
Nickel	<0.010		0.025	0.010	mg/L		02/20/20 14:45	02/21/20 10:51	1
Selenium	<0.020		0.050	0.020	mg/L		02/20/20 14:45	02/21/20 10:51	1
Silver	<0.010		0.025	0.010	mg/L		02/20/20 14:45	02/21/20 10:51	1
Vanadium	<0.010		0.025	0.010	mg/L		02/20/20 14:45	02/21/20 10:51	1
Zinc	<0.020		0.50	0.020	mg/L		02/20/20 14:45	02/21/20 10:51	1
Potassium	<0.50		2.5	0.50	mg/L		02/20/20 14:45	02/21/20 10:51	1

Lab Sample ID: 500-177915-3 MS
Matrix: Solid
Analysis Batch: 531048

Client Sample ID: 3229V-15-B01 (0-2)
Prep Type: TCLP
Prep Batch: 530716

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	<0.010		0.100	0.0989		mg/L		99	75 - 125
Barium	0.39	J	0.500	0.930		mg/L		109	75 - 125
Beryllium	<0.0040		0.0500	0.0459		mg/L		92	75 - 125
Cadmium	0.0048	J	0.0500	0.0543		mg/L		99	75 - 125
Chromium	<0.010		0.200	0.168		mg/L		84	75 - 125
Cobalt	<0.010		0.500	0.454		mg/L		91	75 - 125
Copper	<0.010		0.250	0.257		mg/L		103	75 - 125
Iron	<0.20		1.00	0.884		mg/L		88	75 - 125
Lead	0.0093		0.100	0.105		mg/L		95	75 - 125
Magnesium	65		10.0	85.5	4	mg/L		202	75 - 125
Calcium	370		10.0	430	4	mg/L		628	75 - 125
Manganese	0.13		0.500	0.565		mg/L		86	75 - 125
Nickel	<0.010		0.500	0.455		mg/L		91	75 - 125
Selenium	<0.020		0.100	0.0958		mg/L		96	75 - 125
Silver	<0.010		0.0500	0.0495		mg/L		99	75 - 125

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QC Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177915-1

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

Lab Sample ID: 500-177915-3 MS
Matrix: Solid
Analysis Batch: 531048

Client Sample ID: 3229V-15-B01 (0-2)
Prep Type: TCLP
Prep Batch: 530716

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	%Rec.	
	Result	Qualifier		Result	Qualifier				Limits	Limits
Vanadium	<0.010		0.500	0.450		mg/L		90	75 - 125	
Zinc	0.036	J	0.500	0.496	J	mg/L		92	75 - 125	
Potassium	1.1	J	10.0	12.0		mg/L		109	75 - 125	

Lab Sample ID: 500-177915-3 DU
Matrix: Solid
Analysis Batch: 531048

Client Sample ID: 3229V-15-B01 (0-2)
Prep Type: TCLP
Prep Batch: 530716

Analyte	Sample	Sample	DU		Unit	D	RPD	RPD	
	Result	Qualifier	Result	Qualifier				RPD	Limit
Arsenic	<0.010		<0.010		mg/L		NC	20	
Barium	0.39	J	0.448	J	mg/L		15	20	
Beryllium	<0.0040		<0.0040		mg/L		NC	20	
Cadmium	0.0048	J	0.00502		mg/L		5	20	
Chromium	<0.010		<0.010		mg/L		NC	20	
Cobalt	<0.010		<0.010		mg/L		NC	20	
Copper	<0.010		<0.010		mg/L		NC	20	
Iron	<0.20		<0.20		mg/L		NC	20	
Lead	0.0093		0.00997		mg/L		7	20	
Magnesium	65		75.1		mg/L		14	20	
Calcium	370		409		mg/L		11	20	
Manganese	0.13		0.150		mg/L		12	20	
Nickel	<0.010		<0.010		mg/L		NC	20	
Selenium	<0.020		<0.020		mg/L		NC	20	
Silver	<0.010		<0.010		mg/L		NC	20	
Vanadium	<0.010		<0.010		mg/L		NC	20	
Zinc	0.036	J	0.0398	J	mg/L		10	20	
Potassium	1.1	J	1.22	J	mg/L		14	20	

Lab Sample ID: LB 500-530437/1-B
Matrix: Solid
Analysis Batch: 530900

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 530714

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	<0.0075		0.0075	0.0075	mg/L		02/20/20 14:43	02/21/20 10:04	1
Manganese	<0.010		0.025	0.010	mg/L		02/20/20 14:43	02/21/20 10:04	1

Lab Sample ID: 500-177915-3 MS
Matrix: Solid
Analysis Batch: 530900

Client Sample ID: 3229V-15-B01 (0-2)
Prep Type: SPLP East
Prep Batch: 530714

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	%Rec.	
	Result	Qualifier		Result	Qualifier				Limits	Limits
Lead	0.59		0.100	0.757	4	mg/L		167	75 - 125	
Manganese	0.54		0.500	1.04		mg/L		100	75 - 125	

Lab Sample ID: 500-177915-3 DU
Matrix: Solid
Analysis Batch: 530900

Client Sample ID: 3229V-15-B01 (0-2)
Prep Type: SPLP East
Prep Batch: 530714

Analyte	Sample	Sample	DU		Unit	D	RPD	RPD	
	Result	Qualifier	Result	Qualifier				RPD	Limit
Lead	0.59		0.577		mg/L		2	20	

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QC Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177915-1

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

Lab Sample ID: 500-177915-3 DU
 Matrix: Solid
 Analysis Batch: 530900

Client Sample ID: 3229V-15-B01 (0-2)
 Prep Type: SPLP East
 Prep Batch: 530714

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Manganese	0.54		0.542		mg/L		0.2	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-530716/2-A
 Matrix: Solid
 Analysis Batch: 531117

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 530716
 %Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.501		mg/L		100	80 - 120
Thallium	0.100	0.0958		mg/L		96	80 - 120

Lab Sample ID: LB 500-530439/1-B
 Matrix: Solid
 Analysis Batch: 531117

Client Sample ID: Method Blank
 Prep Type: TCLP
 Prep Batch: 530716

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/20/20 14:45	02/21/20 22:47	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/20/20 14:45	02/21/20 22:47	1

Lab Sample ID: 500-177915-3 MS
 Matrix: Solid
 Analysis Batch: 531117

Client Sample ID: 3229V-15-B01 (0-2)
 Prep Type: TCLP
 Prep Batch: 530716
 %Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	<0.0060		0.500	0.528		mg/L		106	75 - 125
Thallium	<0.0020		0.100	0.101		mg/L		101	75 - 125

Lab Sample ID: 500-177915-3 DU
 Matrix: Solid
 Analysis Batch: 531117

Client Sample ID: 3229V-15-B01 (0-2)
 Prep Type: TCLP
 Prep Batch: 530716

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

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-530882/12-A
 Matrix: Solid
 Analysis Batch: 531118

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 530882

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/21/20 10:55	02/24/20 07:56	1

Lab Sample ID: LCS 500-530882/14-A
 Matrix: Solid
 Analysis Batch: 531118

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 530882
 %Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00195		mg/L		97	80 - 120

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QC Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177915-1

Method: 7470A - TCLP Mercury

Lab Sample ID: LB 500-530439/1-C
 Matrix: Solid
 Analysis Batch: 531118

Client Sample ID: Method Blank
 Prep Type: TCLP
 Prep Batch: 530882

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/21/20 10:55	02/24/20 08:15	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-531148/12-A
 Matrix: Solid
 Analysis Batch: 531351

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 531148

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		02/24/20 15:45	02/25/20 07:22	1

Lab Sample ID: LCS 500-531148/13-A
 Matrix: Solid
 Analysis Batch: 531351

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 531148

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.150		mg/Kg		90	80 - 120

Method: 9014 - Cyanide

Lab Sample ID: MB 500-531452/1-A
 Matrix: Solid
 Analysis Batch: 531560

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 531452

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.25		0.50	0.25	mg/Kg		02/26/20 09:30	02/26/20 13:03	1

Lab Sample ID: LCS 500-531452/2-A
 Matrix: Solid
 Analysis Batch: 531560

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 531452

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	5.00	5.33		mg/Kg		107	85 - 115

Lab Chronicle

Client: Environmental Design International, Inc.
 Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177915-1

Client Sample ID: 3229V-15-B02 (0-5)

Lab Sample ID: 500-177915-1

Date Collected: 02/14/20 11:30

Matrix: Solid

Date Received: 02/14/20 15:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			530437	02/19/20 12:00	BEC	TAL CHI
SPLP East	Prep	3010A			530714	02/20/20 14:43	BDE	TAL CHI
SPLP East	Analysis	6010B		1	530900	02/21/20 11:07	EEN	TAL CHI
TCLP	Leach	1311			530439	02/19/20 12:00	BEC	TAL CHI
TCLP	Prep	3010A			530716	02/20/20 14:45	BDE	TAL CHI
TCLP	Analysis	6010B		1	531048	02/21/20 11:49	EEN	TAL CHI
TCLP	Leach	1311			530439	02/19/20 12:00	BEC	TAL CHI
TCLP	Prep	3010A			530716	02/20/20 14:45	BDE	TAL CHI
TCLP	Analysis	6020A		1	531117	02/21/20 23:16	FXG	TAL CHI
TCLP	Leach	1311			530439	02/19/20 12:00	BEC	TAL CHI
TCLP	Prep	7470A			530882	02/21/20 10:55	MJG	TAL CHI
TCLP	Analysis	7470A		1	531118	02/24/20 08:40	MJG	TAL CHI
Total/NA	Analysis	9045D		1	530483	02/19/20 14:23	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	530193	02/18/20 12:38	LWN	TAL CHI

Client Sample ID: 3229V-15-B02 (0-5)

Lab Sample ID: 500-177915-1

Date Collected: 02/14/20 11:30

Matrix: Solid

Date Received: 02/14/20 15:38

Percent Solids: 74.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			529875	02/14/20 17:08	WRE	TAL CHI
Total/NA	Analysis	8260B		1	530116	02/18/20 16:49	PMF	TAL CHI
Total/NA	Prep	3541			530577	02/20/20 08:02	BSO	TAL CHI
Total/NA	Analysis	8270D		1	530723	02/20/20 20:35	NRJ	TAL CHI
Total/NA	Prep	3050B			530303	02/19/20 06:57	LMN	TAL CHI
Total/NA	Analysis	6010B		1	530529	02/19/20 18:41	EEN	TAL CHI
Total/NA	Prep	7471B			531148	02/24/20 15:45	MJG	TAL CHI
Total/NA	Analysis	7471B		1	531351	02/25/20 08:18	MJG	TAL CHI
Total/NA	Prep	9010B			531452	02/26/20 09:30	MS	TAL CHI
Total/NA	Analysis	9014		1	531560	02/26/20 13:11	MS	TAL CHI

Client Sample ID: 3229V-15-B02 (5-10)

Lab Sample ID: 500-177915-2

Date Collected: 02/14/20 11:35

Matrix: Solid

Date Received: 02/14/20 15:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			530437	02/19/20 12:00	BEC	TAL CHI
SPLP East	Prep	3010A			530714	02/20/20 14:43	BDE	TAL CHI
SPLP East	Analysis	6010B		1	530900	02/21/20 11:12	EEN	TAL CHI
TCLP	Leach	1311			530439	02/19/20 12:00	BEC	TAL CHI
TCLP	Prep	3010A			530716	02/20/20 14:45	BDE	TAL CHI
TCLP	Analysis	6010B		1	531048	02/21/20 11:53	EEN	TAL CHI
TCLP	Leach	1311			530439	02/19/20 12:00	BEC	TAL CHI
TCLP	Prep	3010A			530716	02/20/20 14:45	BDE	TAL CHI
TCLP	Analysis	6020A		1	531117	02/21/20 23:18	FXG	TAL CHI

Eurofins TestAmerica, Chicago

Lab Chronicle

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177915-1

Client Sample ID: 3229V-15-B02 (5-10)

Lab Sample ID: 500-177915-2

Date Collected: 02/14/20 11:35

Matrix: Solid

Date Received: 02/14/20 15:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			530439	02/19/20 12:00	BEC	TAL CHI
TCLP	Prep	7470A			530882	02/21/20 10:55	MJG	TAL CHI
TCLP	Analysis	7470A		1	531118	02/24/20 08:41	MJG	TAL CHI
Total/NA	Analysis	9045D		1	530483	02/19/20 14:28	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	530193	02/18/20 12:38	LWN	TAL CHI

Client Sample ID: 3229V-15-B02 (5-10)

Lab Sample ID: 500-177915-2

Date Collected: 02/14/20 11:35

Matrix: Solid

Date Received: 02/14/20 15:38

Percent Solids: 73.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			529875	02/14/20 17:08	WRE	TAL CHI
Total/NA	Analysis	8260B		1	530116	02/18/20 17:14	PMF	TAL CHI
Total/NA	Prep	3541			530577	02/20/20 08:02	BSO	TAL CHI
Total/NA	Analysis	8270D		1	530723	02/20/20 21:04	NRJ	TAL CHI
Total/NA	Prep	3050B			530303	02/19/20 06:57	LMN	TAL CHI
Total/NA	Analysis	6010B		1	530529	02/19/20 18:45	EEN	TAL CHI
Total/NA	Prep	7471B			531148	02/24/20 15:45	MJG	TAL CHI
Total/NA	Analysis	7471B		1	531351	02/25/20 08:21	MJG	TAL CHI
Total/NA	Prep	9010B			531452	02/26/20 09:30	MS	TAL CHI
Total/NA	Analysis	9014		1	531560	02/26/20 13:11	MS	TAL CHI

Client Sample ID: 3229V-15-B01 (0-2)

Lab Sample ID: 500-177915-3

Date Collected: 02/14/20 11:45

Matrix: Solid

Date Received: 02/14/20 15:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			530437	02/19/20 12:00	BEC	TAL CHI
SPLP East	Prep	3010A			530714	02/20/20 14:43	BDE	TAL CHI
SPLP East	Analysis	6010B		1	530900	02/21/20 11:16	EEN	TAL CHI
TCLP	Leach	1311			530439	02/19/20 12:00	BEC	TAL CHI
TCLP	Prep	3010A			530716	02/20/20 14:45	BDE	TAL CHI
TCLP	Analysis	6010B		1	531048	02/21/20 11:57	EEN	TAL CHI
TCLP	Leach	1311			530439	02/19/20 12:00	BEC	TAL CHI
TCLP	Prep	3010A			530716	02/20/20 14:45	BDE	TAL CHI
TCLP	Analysis	6020A		1	531117	02/21/20 23:20	FXG	TAL CHI
TCLP	Leach	1311			530439	02/19/20 12:00	BEC	TAL CHI
TCLP	Prep	7470A			530882	02/21/20 10:55	MJG	TAL CHI
TCLP	Analysis	7470A		1	531118	02/24/20 08:43	MJG	TAL CHI
Total/NA	Analysis	9045D		1	530483	02/19/20 14:31	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	530193	02/18/20 12:38	LWN	TAL CHI

Lab Chronicle

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177915-1

Client Sample ID: 3229V-15-B01 (0-2)

Lab Sample ID: 500-177915-3

Date Collected: 02/14/20 11:45

Matrix: Solid

Date Received: 02/14/20 15:38

Percent Solids: 78.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			529875	02/14/20 17:08	WRE	TAL CHI
Total/NA	Analysis	8260B		1	530116	02/18/20 17:40	PMF	TAL CHI
Total/NA	Prep	3541			530577	02/20/20 08:02	BSO	TAL CHI
Total/NA	Analysis	8270D		1	530723	02/20/20 21:33	NRJ	TAL CHI
Total/NA	Prep	3050B			530303	02/19/20 06:57	LMN	TAL CHI
Total/NA	Analysis	6010B		1	530529	02/19/20 18:49	EEN	TAL CHI
Total/NA	Prep	7471B			531148	02/24/20 15:45	MJG	TAL CHI
Total/NA	Analysis	7471B		1	531351	02/25/20 08:23	MJG	TAL CHI
Total/NA	Prep	9010B			531452	02/26/20 09:30	MS	TAL CHI
Total/NA	Analysis	9014		1	531560	02/26/20 13:12	MS	TAL CHI

Laboratory References:

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

Accreditation/Certification Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - PTB 174-009 - WO 068

Job ID: 500-177915-1

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20

1

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Chain of Custody Record

417036




Environment Testing
TestAmerica

Address: _____

Regulatory Program: DW NPDES RCRA Other:

TAL-8210

Client Contact		Project Manager: <u>Mike Fischer</u>		Site Contact:		Date:		COC No:	
Company Name: <u>ED</u>		Tel/Email:		Lab Contact: <u>R. Wright</u>		Carrier:		1 of 1 COCs	
Address: <u>33 W. Monroe, Ste. 1825</u>		Analysis Turnaround Time		Filtered Sample (Y/N) Perform MS/MSD (Y/N) VOC SVOC Total 23 Ings. Total 23 Ings. Total Cyanide pH XXX XXX		 500-177915 COC		Sampler: <u>M. Fischer</u>	
City/State/Zip: <u>Chicago, IL 60607</u>		<input checked="" type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____						For Lab Use Only:	
Phone: <u>312-345-1400</u>		<input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day						Walk-in Client: _____	
Fax: _____								Lab Sampling: _____	
Project Name: <u>PTIS 174-009-W068A</u>						Job / SDG No.:		<u>500-177915</u>	
Site: <u>3229V-15</u>								Sample Specific Notes:	
P O # <u>2031-001-068A</u>									
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.			
1 3229V-15-B02(0-5)		2/14/20	1130	G	S	5			
2 -B02(5-10)			1135						
3 -B01(0-2)			1145						
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____									
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown					<input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months				
Special Instructions/QC Requirements & Comments:									
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temp. (°C): Obs'd: <u>4.2</u> Corr'd: _____		Therm ID No.:			
Relinquished by: <u>[Signature]</u>		Company: <u>ED</u>		Date/Time: <u>2/14/20 1405</u>		Received by: <u>[Signature]</u>		Company: <u>[Signature]</u>	
Relinquished by: <u>[Signature]</u>		Company: <u>[Signature]</u>		Date/Time: <u>2/14/20 1538</u>		Received by: <u>[Signature]</u>		Company: <u>[Signature]</u>	
Relinquished by: _____		Company: _____		Date/Time: _____		Received by: <u>Laboratory by</u>		Company: <u>[Signature]</u>	

Login Sample Receipt Checklist

Client: Environmental Design International, Inc.

Job Number: 500-177915-1

Login Number: 177915

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

