



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

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

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

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

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

I. Source Location Information

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

Project Name: FAU 3597: IL Route 1 (Halsted St) at Vincennes Rd Office Phone Number, if available: _____

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

15101 Commercial Avenue, (ISGS Site No. 2553V-1)

City: Harvey State: IL Zip Code: _____

County: Cook Township: _____

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

Latitude: 41.61366111 Longitude: -87.63703056

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

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

Project Name: FAU 3597: IL Route 1 (Halsted St) at VincennesLatitude: 41.61366111 Longitude: -87.63703056Uncontaminated Site Certification**III. Basis for Certification and Attachments**

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

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

LOCATION VL1-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2553V-1. SEE FIGURE 3-1 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

- 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]:

TEST AMERICA REPORTS - JOB ID: 500-109355-1.
ALSO SEE FIGURE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

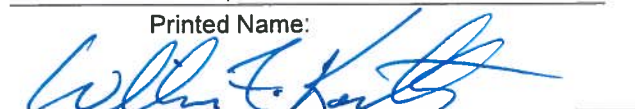
I, William F. Karlovitz, P.E. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with 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: Weston Solutions, Inc.Street Address: 300 Circle Plaza; Suite 202City: Mundelein State: IL Zip Code: 60060Phone: (224) 864-7200

William F. Karlovitz, P.E.

Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

17 May 2016

Date:



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

Summary Table of ISGS Site No. 2553V-1
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAU 3597: Illinois Route 1 (Halsted Street) at Vincennes Road
Harvey, Cook County, Illinois

| Field Sample ID | VL1-1(0-5)-032816 | VL1-1(5-10)-032816 | VL1-1(10-13.5)-032816 | Soil Reference Concentrations ^A |
|-----------------------------|-------------------|--------------------|-----------------------|--|
| Sample Date | 3/28/2016 | 3/28/2016 | 3/28/2016 | |
| Location ID | VL1-1 | VL1-1 | VL1-1 | |
| Depth | 0 - 5 | 5 - 10 | 10 - 13.5 | |
| Lab Sample ID | 500-109355-2 | 500-109355-3 | 500-109355-4 | |
| ISGS Site No. | 2553V-1 | 2553V-1 | 2553V-1 | |
| Parameter | | | | |
| Laboratory pH | 8.27 | 8.64 | 8.71 | <6.25,>9.0 |
| VOCs (ug/kg) | None Detected | | | |
| SVOCs (ug/kg) | | | | |
| 2-Methylnaphthalene | ND | ND | 43 | --- |
| Benzo(a)anthracene | 19 J | ND | 16 J | 900 / 1100 / 1800 |
| Benzo(a)pyrene | 19 J | ND | 17 J | 90 / 1300 / 2100 |
| Benzo(b)fluoranthene | 28 J | ND | 26 J | 900 / 1500 / 2100 |
| Benzo(g,h,i)perylene | 15 J | ND | 24 J | --- |
| Benzo(k)fluoranthene | 12 J | ND | ND | 9000 |
| Chrysene | 23 J | ND | 27 J | 88000 |
| Fluoranthene | 44 | ND | 35 J | 3100000 |
| Indeno(1,2,3-cd)pyrene | 16 J | ND | 14 J | 900 / 900 / 1600 |
| Phenanthrene | 25 J | 11 J | 50 | --- |
| Pyrene | 32 J | 9.2 J | 31 J | 2300000 |
| Total Metals (mg/kg) | | | | |
| Arsenic, Total | 4 | 7.7 | 4.5 | 11.3 / 13.0 |
| Barium, Total | 55 J | 37 J | 41 J | 1500 |
| Beryllium, Total | 0.89 | 0.69 | 0.59 | 22 |
| Cadmium, Total | 0.12 J- | ND | 0.068 J | 5.2 |
| Calcium, Total | 3400 J | 73000 J | 77000 J | --- |
| Chromium, Total | 21 J- | 17 J- | 16 J- | 21 |
| Cobalt, Total | 15 J | 11 J | 12 J | 20 |
| Copper, Total | 25 | 22 | 17 | 2900 |
| Iron, Total | 18000 J- | 18000 J- | 16000 J- | 15000 / 15900 |
| Lead, Total | 25 J+ | 14 J+ | 12 J+ | 107 |
| Magnesium, Total | 4500 J | 22000 J | 24000 J | 325000 |
| Manganese, Total | 100 J | 300 J | 290 J | 630 / 636 |
| Mercury, Total | 0.041 | 0.017 J | 0.013 J | 0.89 |
| Nickel, Total | 37 J | 32 J | 30 J | 100 |
| Potassium, Total | 1900 J+ | 3200 J+ | 2800 J+ | --- |
| Selenium, Total | 0.51 J | 0.49 J | 0.39 J | 1.3 |
| Sodium, Total | 130 J- | 220 J- | 210 J- | --- |
| Thallium, Total | ND | 0.36 J | 0.36 J | 2.6 |
| Vanadium, Total | 23 | 20 | 18 | 550 |
| Zinc, Total | 71 J- | 54 J- | 50 J- | 5100 |
| TCLP Metals (mg/l) | | | | |
| Arsenic, TCLP | ND | ND | ND | 0.05 |
| Barium, TCLP | 0.16 J | 0.36 J | 0.6 | 2 |
| Beryllium, TCLP | ND | ND | ND | 0.004 |
| Cadmium, TCLP | ND | ND | ND | 0.005 |
| Chromium, TCLP | ND | ND | ND | 0.1 |
| Cobalt, TCLP | ND | ND | 0.03 | 1 |
| Copper, TCLP | ND | ND | ND | 0.65 |
| Iron, TCLP | 0.35 J | ND | ND | 5 |
| Lead, TCLP | ND | ND | ND | 0.0075 |
| Manganese, TCLP | 0.13 | 1.4 | 2.1 | 0.15 |
| Mercury, TCLP | ND | ND | ND | 0.002 |
| Nickel, TCLP | ND | 0.022 J | 0.073 | 0.1 |
| Selenium, TCLP | ND | ND | ND | 0.05 |
| Zinc, TCLP | 0.28 J | 0.81 | 0.098 J | 5 |

Summary Table of ISGS Site No. 2553V-1
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Harvey, Cook County, Illinois

| Field Sample ID | VL1-1(0-5)-032816 | VL1-1(5-10)-032816 | VL1-1(10-13.5)-032816 | Soil Reference Concentrations ^A |
|---------------------------|-------------------|--------------------|-----------------------|--|
| Sample Date | 3/28/2016 | 3/28/2016 | 3/28/2016 | |
| Location ID | VL1-1 | VL1-1 | VL1-1 | |
| Depth | 0 - 5 | 5 - 10 | 10 - 13.5 | |
| Lab Sample ID | 500-109355-2 | 500-109355-3 | 500-109355-4 | |
| ISGS Site No. | 2553V-1 | 2553V-1 | 2553V-1 | |
| Parameter | | | | |
| SPLP Metals (mg/l) | | | | |
| Arsenic, SPLP | 0.022 J | ND | ND | 0.05 |
| Barium, SPLP | 0.49 J | ND | 0.33 J | 2 |
| Beryllium, SPLP | 0.0075 | ND | 0.0052 | 0.004 |
| Cadmium, SPLP | ND | ND | ND | 0.005 |
| Chromium, SPLP | 0.18 | ND | 0.13 | 0.1 |
| Cobalt, SPLP | 0.054 | ND | 0.045 | 1 |
| Copper, SPLP | 0.13 | ND | 0.074 | 0.65 |
| Iron, SPLP | 120 J+ | 2.1 J+ | 85 J+ | 5 |
| Lead, SPLP | 0.16 | ND | 0.068 | 0.0075 |
| Manganese, SPLP | 0.39 | 0.012 J | 0.75 | 0.15 |
| Mercury, SPLP | ND | ND | ND | 0.002 |
| Nickel, SPLP | 0.17 | ND | 0.12 | 0.1 |
| Selenium, SPLP | ND | ND | ND | 0.05 |
| Zinc, SPLP | 0.63 | 0.024 J | 0.22 J | 5 |

Notes:

--- - not applicable or value not available.

^A - Soil reference concentrations from MAC Table. Background values for MSA Counties and Chicago corporate limits are included, as applicable.

B - Constituent detected in the blank and investigative sample.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J+ - Estimated concentration; biased high.

J- - Estimated concentration; biased low.

Shaded values indicate concentration **exceeds** Reference Concentration.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-109355-1

Client Project/Site: IDOT - Harvey IL Route 113 - WO 041

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

Attn: Ms. Patricia Feeley



Authorized for release by:
4/5/2016 2:37:47 PM

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

LINKS

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results through
TotalAccess

Have a Question?



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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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Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109355-1

Client Sample ID: VL1-1(0-5)-032816

Lab Sample ID: 500-109355-2

Date Collected: 03/28/16 10:10

Matrix: Solid

Date Received: 03/28/16 15:45

Percent Solids: 80.7

Method: 8260B - VOC

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Acetone | <25 | | 25 | 4.8 | ug/Kg | ☼ | | 03/29/16 20:14 | 1 |
| Benzene | <6.2 | | 6.2 | 1.4 | ug/Kg | ☼ | | 03/29/16 20:14 | 1 |
| Bromodichloromethane | <6.2 | | 6.2 | 1.0 | ug/Kg | ☼ | | 03/29/16 20:14 | 1 |
| Bromoform | <6.2 | | 6.2 | 1.3 | ug/Kg | ☼ | | 03/29/16 20:14 | 1 |
| Bromomethane | <6.2 | | 6.2 | 2.3 | ug/Kg | ☼ | | 03/29/16 20:14 | 1 |
| Carbon disulfide | <6.2 | | 6.2 | 2.3 | ug/Kg | ☼ | | 03/29/16 20:14 | 1 |
| Carbon tetrachloride | <6.2 | | 6.2 | 1.3 | ug/Kg | ☼ | | 03/29/16 20:14 | 1 |
| Chlorobenzene | <6.2 | | 6.2 | 1.5 | ug/Kg | ☼ | | 03/29/16 20:14 | 1 |
| Chloroethane | <6.2 | | 6.2 | 2.6 | ug/Kg | ☼ | | 03/29/16 20:14 | 1 |
| Chloroform | <6.2 | | 6.2 | 1.2 | ug/Kg | ☼ | | 03/29/16 20:14 | 1 |
| Chloromethane | <6.2 | | 6.2 | 1.5 | ug/Kg | ☼ | | 03/29/16 20:14 | 1 |
| cis-1,2-Dichloroethene | <6.2 | | 6.2 | 1.3 | ug/Kg | ☼ | | 03/29/16 20:14 | 1 |
| cis-1,3-Dichloropropene | <6.2 | | 6.2 | 1.4 | ug/Kg | ☼ | | 03/29/16 20:14 | 1 |
| Dibromochloromethane | <6.2 | | 6.2 | 0.71 | ug/Kg | ☼ | | 03/29/16 20:14 | 1 |
| 1,1-Dichloroethane | <6.2 | | 6.2 | 1.3 | ug/Kg | ☼ | | 03/29/16 20:14 | 1 |
| 1,2-Dichloroethane | <6.2 | | 6.2 | 0.92 | ug/Kg | ☼ | | 03/29/16 20:14 | 1 |
| 1,1-Dichloroethene | <6.2 | | 6.2 | 2.3 | ug/Kg | ☼ | | 03/29/16 20:14 | 1 |
| 1,2-Dichloropropane | <6.2 | | 6.2 | 1.6 | ug/Kg | ☼ | | 03/29/16 20:14 | 1 |
| 1,3-Dichloropropene, Total | <6.2 | | 6.2 | 1.7 | ug/Kg | ☼ | | 03/29/16 20:14 | 1 |
| Ethylbenzene | <6.2 | | 6.2 | 1.5 | ug/Kg | ☼ | | 03/29/16 20:14 | 1 |
| 2-Hexanone | <6.2 | | 6.2 | 1.9 | ug/Kg | ☼ | | 03/29/16 20:14 | 1 |
| Methylene Chloride | <6.2 | | 6.2 | 4.7 | ug/Kg | ☼ | | 03/29/16 20:14 | 1 |
| Methyl Ethyl Ketone | <6.2 | | 6.2 | 2.2 | ug/Kg | ☼ | | 03/29/16 20:14 | 1 |
| methyl isobutyl ketone | <6.2 | | 6.2 | 1.3 | ug/Kg | ☼ | | 03/29/16 20:14 | 1 |
| Methyl tert-butyl ether | <6.2 | | 6.2 | 1.5 | ug/Kg | ☼ | | 03/29/16 20:14 | 1 |
| Styrene | <6.2 | | 6.2 | 1.4 | ug/Kg | ☼ | | 03/29/16 20:14 | 1 |
| 1,1,2,2-Tetrachloroethane | <6.2 | | 6.2 | 0.98 | ug/Kg | ☼ | | 03/29/16 20:14 | 1 |
| Tetrachloroethene | <6.2 | | 6.2 | 1.3 | ug/Kg | ☼ | | 03/29/16 20:14 | 1 |
| Toluene | <6.2 | | 6.2 | 2.2 | ug/Kg | ☼ | | 03/29/16 20:14 | 1 |
| trans-1,2-Dichloroethene | <6.2 | | 6.2 | 1.5 | ug/Kg | ☼ | | 03/29/16 20:14 | 1 |
| trans-1,3-Dichloropropene | <6.2 | | 6.2 | 1.7 | ug/Kg | ☼ | | 03/29/16 20:14 | 1 |
| 1,1,1-Trichloroethane | <6.2 | | 6.2 | 1.4 | ug/Kg | ☼ | | 03/29/16 20:14 | 1 |
| 1,1,2-Trichloroethane | <6.2 | | 6.2 | 1.2 | ug/Kg | ☼ | | 03/29/16 20:14 | 1 |
| Trichloroethene | <6.2 | | 6.2 | 1.7 | ug/Kg | ☼ | | 03/29/16 20:14 | 1 |
| Vinyl chloride | <6.2 | | 6.2 | 1.5 | ug/Kg | ☼ | | 03/29/16 20:14 | 1 |
| Xylenes, Total | <12 | | 12 | 2.3 | ug/Kg | ☼ | | 03/29/16 20:14 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 114 | | 70 - 120 | | 03/29/16 20:14 | 1 |
| Dibromofluoromethane | 119 | | 75 - 120 | | 03/29/16 20:14 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 113 | | 69 - 134 | | 03/29/16 20:14 | 1 |
| Toluene-d8 (Surr) | 118 | | 75 - 123 | | 03/29/16 20:14 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,2,4-Trichlorobenzene | <210 | | 210 | 44 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:59 | 1 |
| 1,2-Dichlorobenzene | <210 | | 210 | 49 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:59 | 1 |
| 1,3-Dichlorobenzene | <210 | | 210 | 46 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:59 | 1 |
| 1,4-Dichlorobenzene | <210 | | 210 | 52 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:59 | 1 |
| 2,2'-oxybis[1-chloropropane] | <210 | | 210 | 47 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:59 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109355-1

Client Sample ID: VL1-1(0-5)-032816

Lab Sample ID: 500-109355-2

Date Collected: 03/28/16 10:10

Matrix: Solid

Date Received: 03/28/16 15:45

Percent Solids: 80.7

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-------------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol | <410 | | 410 | 93 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:59 | 1 |
| 2,4,6-Trichlorophenol | <410 | | 410 | 140 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:59 | 1 |
| 2,4-Dichlorophenol | <410 | | 410 | 97 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:59 | 1 |
| 2,4-Dimethylphenol | <410 | | 410 | 150 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:59 | 1 |
| 2,4-Dinitrophenol | <820 | | 820 | 720 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:59 | 1 |
| 2,4-Dinitrotoluene | <210 | | 210 | 65 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:59 | 1 |
| 2,6-Dinitrotoluene | <210 | | 210 | 80 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:59 | 1 |
| 2-Chloronaphthalene | <210 | | 210 | 45 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:59 | 1 |
| 2-Chlorophenol | <210 | | 210 | 70 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:59 | 1 |
| 2-Methylnaphthalene | <41 | | 41 | 7.5 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:59 | 1 |
| 2-Methylphenol | <210 | | 210 | 65 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:59 | 1 |
| 2-Nitroaniline | <210 | | 210 | 55 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:59 | 1 |
| 2-Nitrophenol | <410 | | 410 | 96 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:59 | 1 |
| 3 & 4 Methylphenol | <210 | | 210 | 68 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:59 | 1 |
| 3,3'-Dichlorobenzidine | <210 | | 210 | 57 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:59 | 1 |
| 3-Nitroaniline | <410 | | 410 | 130 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:59 | 1 |
| 4,6-Dinitro-2-methylphenol | <820 | | 820 | 330 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:59 | 1 |
| 4-Bromophenyl phenyl ether | <210 | | 210 | 54 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:59 | 1 |
| 4-Chloro-3-methylphenol | <410 | | 410 | 140 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:59 | 1 |
| 4-Chloroaniline | <820 | | 820 | 190 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:59 | 1 |
| 4-Chlorophenyl phenyl ether | <210 | | 210 | 48 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:59 | 1 |
| 4-Nitroaniline | <410 | | 410 | 170 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:59 | 1 |
| 4-Nitrophenol | <820 | | 820 | 390 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:59 | 1 |
| Acenaphthene | <41 | | 41 | 7.3 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:59 | 1 |
| Acenaphthylene | <41 | | 41 | 5.4 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:59 | 1 |
| Anthracene | <41 | | 41 | 6.8 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:59 | 1 |
| Benzo[a]anthracene | 19 J | | 41 | 5.5 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:59 | 1 |
| Benzo[a]pyrene | 19 J | | 41 | 7.9 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:59 | 1 |
| Benzo[b]fluoranthene | 28 J | | 41 | 8.8 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:59 | 1 |
| Benzo[g,h,i]perylene | 15 J | | 41 | 13 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:59 | 1 |
| Benzo[k]fluoranthene | 12 J | | 41 | 12 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:59 | 1 |
| Bis(2-chloroethoxy)methane | <210 | | 210 | 42 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:59 | 1 |
| Bis(2-chloroethyl)ether | <210 | | 210 | 61 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:59 | 1 |
| Bis(2-ethylhexyl) phthalate | <210 | | 210 | 75 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:59 | 1 |
| Butyl benzyl phthalate | <210 | | 210 | 78 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:59 | 1 |
| Carbazole | <210 | | 210 | 100 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:59 | 1 |
| Chrysene | 23 J | | 41 | 11 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:59 | 1 |
| Dibenz(a,h)anthracene | <41 | | 41 | 7.9 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:59 | 1 |
| Dibenzofuran | <210 | | 210 | 48 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:59 | 1 |
| Diethyl phthalate | <210 | | 210 | 69 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:59 | 1 |
| Dimethyl phthalate | <210 | | 210 | 53 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:59 | 1 |
| Di-n-butyl phthalate | <210 | | 210 | 62 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:59 | 1 |
| Di-n-octyl phthalate | <210 | | 210 | 67 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:59 | 1 |
| Fluoranthene | 44 | | 41 | 7.6 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:59 | 1 |
| Fluorene | <41 | | 41 | 5.7 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:59 | 1 |
| Hexachlorobenzene | <82 | | 82 | 9.5 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:59 | 1 |
| Hexachlorobutadiene | <210 | | 210 | 64 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:59 | 1 |
| Hexachlorocyclopentadiene | <820 | | 820 | 230 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:59 | 1 |
| Hexachloroethane | <210 | | 210 | 62 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:59 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109355-1

Client Sample ID: VL1-1(0-5)-032816

Lab Sample ID: 500-109355-2

Date Collected: 03/28/16 10:10

Matrix: Solid

Date Received: 03/28/16 15:45

Percent Solids: 80.7

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| Indeno[1,2,3-cd]pyrene | 16 | J | 41 | 11 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:59 | 1 |
| Isophorone | <210 | | 210 | 46 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:59 | 1 |
| Naphthalene | <41 | | 41 | 6.3 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:59 | 1 |
| Nitrobenzene | <41 | | 41 | 10 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:59 | 1 |
| N-Nitrosodi-n-propylamine | <82 | | 82 | 50 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:59 | 1 |
| N-Nitrosodiphenylamine | <210 | | 210 | 48 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:59 | 1 |
| Pentachlorophenol | <820 | | 820 | 650 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:59 | 1 |
| Phenanthrene | 25 | J | 41 | 5.7 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:59 | 1 |
| Phenol | <210 | | 210 | 91 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:59 | 1 |
| Pyrene | 32 | J | 41 | 8.1 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:59 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2,4,6-Tribromophenol | 78 | | 25 - 130 | | | | 03/29/16 08:11 | 04/01/16 14:59 | 1 |
| 2-Fluorobiphenyl | 71 | | 42 - 115 | | | | 03/29/16 08:11 | 04/01/16 14:59 | 1 |
| 2-Fluorophenol | 105 | | 40 - 130 | | | | 03/29/16 08:11 | 04/01/16 14:59 | 1 |
| Nitrobenzene-d5 | 66 | | 33 - 124 | | | | 03/29/16 08:11 | 04/01/16 14:59 | 1 |
| Phenol-d5 | 65 | | 36 - 123 | | | | 03/29/16 08:11 | 04/01/16 14:59 | 1 |
| Terphenyl-d14 | 70 | | 25 - 150 | | | | 03/29/16 08:11 | 04/01/16 14:59 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|-------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.050 | | 0.050 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 14:37 | 1 |
| Barium | 0.16 | J | 0.50 | 0.050 | mg/L | | 03/31/16 15:12 | 04/01/16 14:37 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 03/31/16 15:12 | 04/01/16 14:37 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 03/31/16 15:12 | 04/01/16 14:37 | 1 |
| Chromium | <0.025 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 14:37 | 1 |
| Cobalt | <0.025 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 14:37 | 1 |
| Copper | <0.025 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 14:37 | 1 |
| Iron | 0.35 | J | 0.40 | 0.20 | mg/L | | 03/31/16 15:12 | 04/01/16 14:37 | 1 |
| Lead | <0.0075 | | 0.0075 | 0.0075 | mg/L | | 03/31/16 15:12 | 04/01/16 14:37 | 1 |
| Manganese | 0.13 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 14:37 | 1 |
| Nickel | <0.025 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 14:37 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 03/31/16 15:12 | 04/01/16 14:37 | 1 |
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 14:37 | 1 |
| Zinc | 0.28 | J | 0.50 | 0.020 | mg/L | | 03/31/16 15:12 | 04/01/16 14:37 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|---------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.022 | J | 0.050 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 16:28 | 1 |
| Barium | 0.49 | J | 0.50 | 0.050 | mg/L | | 03/30/16 15:14 | 03/31/16 16:28 | 1 |
| Beryllium | 0.0075 | | 0.0040 | 0.0040 | mg/L | | 03/30/16 15:14 | 03/31/16 16:28 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 03/30/16 15:14 | 03/31/16 16:28 | 1 |
| Chromium | 0.18 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 16:28 | 1 |
| Cobalt | 0.054 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 16:28 | 1 |
| Copper | 0.13 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 16:28 | 1 |
| Iron | 120 | | 0.40 | 0.20 | mg/L | | 03/30/16 15:14 | 03/31/16 16:28 | 1 |
| Lead | 0.16 | | 0.0075 | 0.0075 | mg/L | | 03/30/16 15:14 | 03/31/16 16:28 | 1 |
| Manganese | 0.39 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 16:28 | 1 |
| Nickel | 0.17 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 16:28 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 03/30/16 15:14 | 03/31/16 16:28 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109355-1

Client Sample ID: VL1-1(0-5)-032816

Lab Sample ID: 500-109355-2

Date Collected: 03/28/16 10:10

Matrix: Solid

Date Received: 03/28/16 15:45

Percent Solids: 80.7

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|-------------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 16:28 | 1 |
| Zinc | 0.63 | | 0.50 | 0.020 | mg/L | | 03/30/16 15:14 | 04/01/16 14:15 | 1 |

Method: 6010B - Total Metals

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | <1.1 | | 1.1 | 0.23 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:18 | 1 |
| Arsenic | 4.0 | | 0.54 | 0.25 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:18 | 1 |
| Barium | 55 | | 0.54 | 0.099 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:18 | 1 |
| Beryllium | 0.89 | | 0.22 | 0.047 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:18 | 1 |
| Cadmium | 0.12 | | 0.11 | 0.031 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:18 | 1 |
| Calcium | 3400 | B | 11 | 3.5 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:18 | 1 |
| Chromium | 21 | | 0.54 | 0.093 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:18 | 1 |
| Cobalt | 15 | | 0.27 | 0.061 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:18 | 1 |
| Copper | 25 | | 0.54 | 0.12 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:18 | 1 |
| Iron | 18000 | B | 11 | 4.2 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:18 | 1 |
| Lead | 25 | | 0.27 | 0.14 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:18 | 1 |
| Magnesium | 4500 | | 5.4 | 2.2 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:18 | 1 |
| Manganese | 100 | | 0.54 | 0.11 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:18 | 1 |
| Nickel | 37 | | 0.54 | 0.15 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:18 | 1 |
| Potassium | 1900 | B | 27 | 4.4 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:18 | 1 |
| Selenium | 0.51 | J | 0.54 | 0.27 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:18 | 1 |
| Silver | <0.27 | | 0.27 | 0.064 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:18 | 1 |
| Sodium | 130 | B | 54 | 7.2 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:18 | 1 |
| Thallium | <0.54 | | 0.54 | 0.27 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:18 | 1 |
| Vanadium | 23 | | 0.27 | 0.079 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:18 | 1 |
| Zinc | 71 | | 1.1 | 0.34 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:18 | 1 |

Method: 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 03/31/16 13:40 | 04/01/16 10:26 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 03/30/16 13:30 | 03/31/16 10:42 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Mercury | 41 | | 19 | 10 | ug/Kg | ☼ | 03/29/16 16:30 | 03/30/16 09:46 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-------------|-----------|-------|-------|------|---|----------|----------------|---------|
| pH | 8.27 | | 0.200 | 0.200 | SU | | | 03/30/16 15:30 | 1 |

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109355-1

Client Sample ID: VL1-1(5-10)-032816

Lab Sample ID: 500-109355-3

Date Collected: 03/28/16 10:15

Matrix: Solid

Date Received: 03/28/16 15:45

Percent Solids: 81.8

Method: 8260B - VOC

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Acetone | <24 | | 24 | 4.7 | ug/Kg | ☼ | | 03/30/16 18:15 | 1 |
| Benzene | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 03/30/16 18:15 | 1 |
| Bromodichloromethane | <6.1 | | 6.1 | 1.0 | ug/Kg | ☼ | | 03/30/16 18:15 | 1 |
| Bromoform | <6.1 | | 6.1 | 1.2 | ug/Kg | ☼ | | 03/30/16 18:15 | 1 |
| Bromomethane | <6.1 | | 6.1 | 2.2 | ug/Kg | ☼ | | 03/30/16 18:15 | 1 |
| Carbon disulfide | <6.1 | | 6.1 | 2.2 | ug/Kg | ☼ | | 03/30/16 18:15 | 1 |
| Carbon tetrachloride | <6.1 | | 6.1 | 1.3 | ug/Kg | ☼ | | 03/30/16 18:15 | 1 |
| Chlorobenzene | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 03/30/16 18:15 | 1 |
| Chloroethane | <6.1 | | 6.1 | 2.6 | ug/Kg | ☼ | | 03/30/16 18:15 | 1 |
| Chloroform | <6.1 | | 6.1 | 1.2 | ug/Kg | ☼ | | 03/30/16 18:15 | 1 |
| Chloromethane | <6.1 | | 6.1 | 1.5 | ug/Kg | ☼ | | 03/30/16 18:15 | 1 |
| cis-1,2-Dichloroethene | <6.1 | | 6.1 | 1.2 | ug/Kg | ☼ | | 03/30/16 18:15 | 1 |
| cis-1,3-Dichloropropene | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 03/30/16 18:15 | 1 |
| Dibromochloromethane | <6.1 | | 6.1 | 0.70 | ug/Kg | ☼ | | 03/30/16 18:15 | 1 |
| 1,1-Dichloroethane | <6.1 | | 6.1 | 1.3 | ug/Kg | ☼ | | 03/30/16 18:15 | 1 |
| 1,2-Dichloroethane | <6.1 | | 6.1 | 0.91 | ug/Kg | ☼ | | 03/30/16 18:15 | 1 |
| 1,1-Dichloroethene | <6.1 | | 6.1 | 2.2 | ug/Kg | ☼ | | 03/30/16 18:15 | 1 |
| 1,2-Dichloropropane | <6.1 | | 6.1 | 1.6 | ug/Kg | ☼ | | 03/30/16 18:15 | 1 |
| 1,3-Dichloropropene, Total | <6.1 | | 6.1 | 1.7 | ug/Kg | ☼ | | 03/30/16 18:15 | 1 |
| Ethylbenzene | <6.1 | | 6.1 | 1.5 | ug/Kg | ☼ | | 03/30/16 18:15 | 1 |
| 2-Hexanone | <6.1 | | 6.1 | 1.9 | ug/Kg | ☼ | | 03/30/16 18:15 | 1 |
| Methylene Chloride | <6.1 | | 6.1 | 4.6 | ug/Kg | ☼ | | 03/30/16 18:15 | 1 |
| Methyl Ethyl Ketone | <6.1 | | 6.1 | 2.2 | ug/Kg | ☼ | | 03/30/16 18:15 | 1 |
| methyl isobutyl ketone | <6.1 | | 6.1 | 1.3 | ug/Kg | ☼ | | 03/30/16 18:15 | 1 |
| Methyl tert-butyl ether | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 03/30/16 18:15 | 1 |
| Styrene | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 03/30/16 18:15 | 1 |
| 1,1,1,2-Tetrachloroethane | <6.1 | | 6.1 | 0.97 | ug/Kg | ☼ | | 03/30/16 18:15 | 1 |
| Tetrachloroethene | <6.1 | | 6.1 | 1.3 | ug/Kg | ☼ | | 03/30/16 18:15 | 1 |
| Toluene | <6.1 | | 6.1 | 2.1 | ug/Kg | ☼ | | 03/30/16 18:15 | 1 |
| trans-1,2-Dichloroethene | <6.1 | | 6.1 | 1.5 | ug/Kg | ☼ | | 03/30/16 18:15 | 1 |
| trans-1,3-Dichloropropene | <6.1 | | 6.1 | 1.7 | ug/Kg | ☼ | | 03/30/16 18:15 | 1 |
| 1,1,1-Trichloroethane | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 03/30/16 18:15 | 1 |
| 1,1,2-Trichloroethane | <6.1 | | 6.1 | 1.2 | ug/Kg | ☼ | | 03/30/16 18:15 | 1 |
| Trichloroethene | <6.1 | | 6.1 | 1.7 | ug/Kg | ☼ | | 03/30/16 18:15 | 1 |
| Vinyl chloride | <6.1 | | 6.1 | 1.5 | ug/Kg | ☼ | | 03/30/16 18:15 | 1 |
| Xylenes, Total | <12 | | 12 | 2.3 | ug/Kg | ☼ | | 03/30/16 18:15 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 99 | | 70 - 120 | | 03/30/16 18:15 | 1 |
| Dibromofluoromethane | 108 | | 75 - 120 | | 03/30/16 18:15 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 109 | | 69 - 134 | | 03/30/16 18:15 | 1 |
| Toluene-d8 (Surr) | 116 | | 75 - 123 | | 03/30/16 18:15 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,2,4-Trichlorobenzene | <200 | | 200 | 42 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:24 | 1 |
| 1,2-Dichlorobenzene | <200 | | 200 | 47 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:24 | 1 |
| 1,3-Dichlorobenzene | <200 | | 200 | 44 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:24 | 1 |
| 1,4-Dichlorobenzene | <200 | | 200 | 50 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:24 | 1 |
| 2,2'-oxybis[1-chloropropane] | <200 | | 200 | 45 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:24 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109355-1

Client Sample ID: VL1-1(5-10)-032816

Lab Sample ID: 500-109355-3

Date Collected: 03/28/16 10:15

Matrix: Solid

Date Received: 03/28/16 15:45

Percent Solids: 81.8

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol | <390 | | 390 | 89 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:24 | 1 |
| 2,4,6-Trichlorophenol | <390 | | 390 | 130 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:24 | 1 |
| 2,4-Dichlorophenol | <390 | | 390 | 93 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:24 | 1 |
| 2,4-Dimethylphenol | <390 | | 390 | 150 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:24 | 1 |
| 2,4-Dinitrophenol | <790 | | 790 | 690 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:24 | 1 |
| 2,4-Dinitrotoluene | <200 | | 200 | 62 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:24 | 1 |
| 2,6-Dinitrotoluene | <200 | | 200 | 77 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:24 | 1 |
| 2-Chloronaphthalene | <200 | | 200 | 43 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:24 | 1 |
| 2-Chlorophenol | <200 | | 200 | 67 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:24 | 1 |
| 2-Methylnaphthalene | <39 | | 39 | 7.2 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:24 | 1 |
| 2-Methylphenol | <200 | | 200 | 63 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:24 | 1 |
| 2-Nitroaniline | <200 | | 200 | 53 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:24 | 1 |
| 2-Nitrophenol | <390 | | 390 | 93 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:24 | 1 |
| 3 & 4 Methylphenol | <200 | | 200 | 65 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:24 | 1 |
| 3,3'-Dichlorobenzidine | <200 | | 200 | 55 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:24 | 1 |
| 3-Nitroaniline | <390 | | 390 | 120 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:24 | 1 |
| 4,6-Dinitro-2-methylphenol | <790 | | 790 | 310 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:24 | 1 |
| 4-Bromophenyl phenyl ether | <200 | | 200 | 52 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:24 | 1 |
| 4-Chloro-3-methylphenol | <390 | | 390 | 130 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:24 | 1 |
| 4-Chloroaniline | <790 | | 790 | 180 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:24 | 1 |
| 4-Chlorophenyl phenyl ether | <200 | | 200 | 46 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:24 | 1 |
| 4-Nitroaniline | <390 | | 390 | 160 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:24 | 1 |
| 4-Nitrophenol | <790 | | 790 | 370 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:24 | 1 |
| Acenaphthene | <39 | | 39 | 7.0 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:24 | 1 |
| Acenaphthylene | <39 | | 39 | 5.2 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:24 | 1 |
| Anthracene | <39 | | 39 | 6.5 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:24 | 1 |
| Benzo[a]anthracene | <39 | | 39 | 5.3 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:24 | 1 |
| Benzo[a]pyrene | <39 | | 39 | 7.6 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:24 | 1 |
| Benzo[b]fluoranthene | <39 | | 39 | 8.5 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:24 | 1 |
| Benzo[g,h,i]perylene | <39 | | 39 | 13 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:24 | 1 |
| Benzo[k]fluoranthene | <39 | | 39 | 12 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:24 | 1 |
| Bis(2-chloroethoxy)methane | <200 | | 200 | 40 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:24 | 1 |
| Bis(2-chloroethyl)ether | <200 | | 200 | 59 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:24 | 1 |
| Bis(2-ethylhexyl) phthalate | <200 | | 200 | 72 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:24 | 1 |
| Butyl benzyl phthalate | <200 | | 200 | 75 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:24 | 1 |
| Carbazole | <200 | | 200 | 98 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:24 | 1 |
| Chrysene | <39 | | 39 | 11 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:24 | 1 |
| Dibenz(a,h)anthracene | <39 | | 39 | 7.6 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:24 | 1 |
| Dibenzofuran | <200 | | 200 | 46 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:24 | 1 |
| Diethyl phthalate | <200 | | 200 | 66 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:24 | 1 |
| Dimethyl phthalate | <200 | | 200 | 51 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:24 | 1 |
| Di-n-butyl phthalate | <200 | | 200 | 60 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:24 | 1 |
| Di-n-octyl phthalate | <200 | | 200 | 64 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:24 | 1 |
| Fluoranthene | <39 | | 39 | 7.3 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:24 | 1 |
| Fluorene | <39 | | 39 | 5.5 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:24 | 1 |
| Hexachlorobenzene | <79 | | 79 | 9.1 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:24 | 1 |
| Hexachlorobutadiene | <200 | | 200 | 62 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:24 | 1 |
| Hexachlorocyclopentadiene | <790 | | 790 | 230 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:24 | 1 |
| Hexachloroethane | <200 | | 200 | 60 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:24 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109355-1

Client Sample ID: VL1-1(5-10)-032816

Lab Sample ID: 500-109355-3

Date Collected: 03/28/16 10:15

Matrix: Solid

Date Received: 03/28/16 15:45

Percent Solids: 81.8

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|------------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Indeno[1,2,3-cd]pyrene | <39 | | 39 | 10 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:24 | 1 |
| Isophorone | <200 | | 200 | 44 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:24 | 1 |
| Naphthalene | <39 | | 39 | 6.0 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:24 | 1 |
| Nitrobenzene | <39 | | 39 | 9.8 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:24 | 1 |
| N-Nitrosodi-n-propylamine | <79 | | 79 | 48 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:24 | 1 |
| N-Nitrosodiphenylamine | <200 | | 200 | 46 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:24 | 1 |
| Pentachlorophenol | <790 | | 790 | 630 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:24 | 1 |
| Phenanthrene | 11 | J | 39 | 5.5 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:24 | 1 |
| Phenol | <200 | | 200 | 87 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:24 | 1 |
| Pyrene | 9.2 | J | 39 | 7.8 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:24 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2,4,6-Tribromophenol | 72 | | 25 - 130 | | | | 03/29/16 08:11 | 04/01/16 15:24 | 1 |
| 2-Fluorobiphenyl | 76 | | 42 - 115 | | | | 03/29/16 08:11 | 04/01/16 15:24 | 1 |
| 2-Fluorophenol | 74 | | 40 - 130 | | | | 03/29/16 08:11 | 04/01/16 15:24 | 1 |
| Nitrobenzene-d5 | 61 | | 33 - 124 | | | | 03/29/16 08:11 | 04/01/16 15:24 | 1 |
| Phenol-d5 | 62 | | 36 - 123 | | | | 03/29/16 08:11 | 04/01/16 15:24 | 1 |
| Terphenyl-d14 | 71 | | 25 - 150 | | | | 03/29/16 08:11 | 04/01/16 15:24 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.050 | | 0.050 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 14:43 | 1 |
| Barium | 0.36 | J | 0.50 | 0.050 | mg/L | | 03/31/16 15:12 | 04/01/16 14:43 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 03/31/16 15:12 | 04/01/16 14:43 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 03/31/16 15:12 | 04/01/16 14:43 | 1 |
| Chromium | <0.025 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 14:43 | 1 |
| Cobalt | <0.025 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 14:43 | 1 |
| Copper | <0.025 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 14:43 | 1 |
| Iron | <0.40 | | 0.40 | 0.20 | mg/L | | 03/31/16 15:12 | 04/01/16 14:43 | 1 |
| Lead | <0.0075 | | 0.0075 | 0.0075 | mg/L | | 03/31/16 15:12 | 04/01/16 14:43 | 1 |
| Manganese | 1.4 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 14:43 | 1 |
| Nickel | 0.022 | J | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 14:43 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 03/31/16 15:12 | 04/01/16 14:43 | 1 |
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 14:43 | 1 |
| Zinc | 0.81 | | 0.50 | 0.020 | mg/L | | 03/31/16 15:12 | 04/01/16 14:43 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.050 | | 0.050 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 16:33 | 1 |
| Barium | <0.50 | | 0.50 | 0.050 | mg/L | | 03/30/16 15:14 | 03/31/16 16:33 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 03/30/16 15:14 | 03/31/16 16:33 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 03/30/16 15:14 | 03/31/16 16:33 | 1 |
| Chromium | <0.025 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 16:33 | 1 |
| Cobalt | <0.025 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 16:33 | 1 |
| Copper | <0.025 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 16:33 | 1 |
| Iron | 2.1 | | 0.40 | 0.20 | mg/L | | 03/30/16 15:14 | 03/31/16 16:33 | 1 |
| Lead | <0.0075 | | 0.0075 | 0.0075 | mg/L | | 03/30/16 15:14 | 03/31/16 16:33 | 1 |
| Manganese | 0.012 | J | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 16:33 | 1 |
| Nickel | <0.025 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 16:33 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 03/30/16 15:14 | 03/31/16 16:33 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109355-1

Client Sample ID: VL1-1(5-10)-032816

Lab Sample ID: 500-109355-3

Date Collected: 03/28/16 10:15

Matrix: Solid

Date Received: 03/28/16 15:45

Percent Solids: 81.8

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 16:33 | 1 |
| Zinc | 0.024 | J ^ | 0.50 | 0.020 | mg/L | | 03/30/16 15:14 | 03/31/16 16:33 | 1 |

Method: 6010B - Total Metals

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | <1.0 | | 1.0 | 0.21 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:23 | 1 |
| Arsenic | 7.7 | | 0.51 | 0.24 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:23 | 1 |
| Barium | 37 | | 0.51 | 0.094 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:23 | 1 |
| Beryllium | 0.69 | | 0.21 | 0.044 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:23 | 1 |
| Cadmium | <0.10 | | 0.10 | 0.030 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:23 | 1 |
| Calcium | 73000 | B | 100 | 33 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 20:09 | 10 |
| Chromium | 17 | | 0.51 | 0.088 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:23 | 1 |
| Cobalt | 11 | | 0.26 | 0.058 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:23 | 1 |
| Copper | 22 | | 0.51 | 0.11 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:23 | 1 |
| Iron | 18000 | B | 10 | 4.0 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:23 | 1 |
| Lead | 14 | | 0.26 | 0.13 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:23 | 1 |
| Magnesium | 22000 | | 5.1 | 2.1 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:23 | 1 |
| Manganese | 300 | | 0.51 | 0.10 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:23 | 1 |
| Nickel | 32 | | 0.51 | 0.14 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:23 | 1 |
| Potassium | 3200 | B | 26 | 4.2 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:23 | 1 |
| Selenium | 0.49 | J | 0.51 | 0.25 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:23 | 1 |
| Silver | <0.26 | | 0.26 | 0.060 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:23 | 1 |
| Sodium | 220 | B | 51 | 6.8 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:23 | 1 |
| Thallium | 0.36 | J | 0.51 | 0.25 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:23 | 1 |
| Vanadium | 20 | | 0.26 | 0.075 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:23 | 1 |
| Zinc | 54 | | 1.0 | 0.32 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:23 | 1 |

Method: 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 03/31/16 13:40 | 04/01/16 10:32 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 03/30/16 13:30 | 03/31/16 10:44 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Mercury | 17 | J | 18 | 9.6 | ug/Kg | ☼ | 03/29/16 16:30 | 03/30/16 09:48 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-------|-------|------|---|----------|----------------|---------|
| pH | 8.64 | | 0.200 | 0.200 | SU | | | 03/30/16 15:32 | 1 |

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109355-1

Client Sample ID: VL1-1(10-13.5)-032816

Lab Sample ID: 500-109355-4

Date Collected: 03/28/16 10:20

Matrix: Solid

Date Received: 03/28/16 15:45

Percent Solids: 84.4

Method: 8260B - VOC

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Acetone | <24 | | 24 | 4.6 | ug/Kg | ☼ | | 03/29/16 21:05 | 1 |
| Benzene | <5.9 | | 5.9 | 1.3 | ug/Kg | ☼ | | 03/29/16 21:05 | 1 |
| Bromodichloromethane | <5.9 | | 5.9 | 1.0 | ug/Kg | ☼ | | 03/29/16 21:05 | 1 |
| Bromoform | <5.9 | | 5.9 | 1.2 | ug/Kg | ☼ | | 03/29/16 21:05 | 1 |
| Bromomethane | <5.9 | | 5.9 | 2.2 | ug/Kg | ☼ | | 03/29/16 21:05 | 1 |
| Carbon disulfide | <5.9 | | 5.9 | 2.2 | ug/Kg | ☼ | | 03/29/16 21:05 | 1 |
| Carbon tetrachloride | <5.9 | | 5.9 | 1.3 | ug/Kg | ☼ | | 03/29/16 21:05 | 1 |
| Chlorobenzene | <5.9 | | 5.9 | 1.4 | ug/Kg | ☼ | | 03/29/16 21:05 | 1 |
| Chloroethane | <5.9 | | 5.9 | 2.5 | ug/Kg | ☼ | | 03/29/16 21:05 | 1 |
| Chloroform | <5.9 | | 5.9 | 1.2 | ug/Kg | ☼ | | 03/29/16 21:05 | 1 |
| Chloromethane | <5.9 | | 5.9 | 1.4 | ug/Kg | ☼ | | 03/29/16 21:05 | 1 |
| cis-1,2-Dichloroethene | <5.9 | | 5.9 | 1.2 | ug/Kg | ☼ | | 03/29/16 21:05 | 1 |
| cis-1,3-Dichloropropene | <5.9 | | 5.9 | 1.4 | ug/Kg | ☼ | | 03/29/16 21:05 | 1 |
| Dibromochloromethane | <5.9 | | 5.9 | 0.68 | ug/Kg | ☼ | | 03/29/16 21:05 | 1 |
| 1,1-Dichloroethane | <5.9 | | 5.9 | 1.2 | ug/Kg | ☼ | | 03/29/16 21:05 | 1 |
| 1,2-Dichloroethane | <5.9 | | 5.9 | 0.88 | ug/Kg | ☼ | | 03/29/16 21:05 | 1 |
| 1,1-Dichloroethene | <5.9 | | 5.9 | 2.2 | ug/Kg | ☼ | | 03/29/16 21:05 | 1 |
| 1,2-Dichloropropane | <5.9 | | 5.9 | 1.6 | ug/Kg | ☼ | | 03/29/16 21:05 | 1 |
| 1,3-Dichloropropene, Total | <5.9 | | 5.9 | 1.7 | ug/Kg | ☼ | | 03/29/16 21:05 | 1 |
| Ethylbenzene | <5.9 | | 5.9 | 1.5 | ug/Kg | ☼ | | 03/29/16 21:05 | 1 |
| 2-Hexanone | <5.9 | | 5.9 | 1.8 | ug/Kg | ☼ | | 03/29/16 21:05 | 1 |
| Methylene Chloride | <5.9 | | 5.9 | 4.5 | ug/Kg | ☼ | | 03/29/16 21:05 | 1 |
| Methyl Ethyl Ketone | <5.9 | | 5.9 | 2.1 | ug/Kg | ☼ | | 03/29/16 21:05 | 1 |
| methyl isobutyl ketone | <5.9 | | 5.9 | 1.2 | ug/Kg | ☼ | | 03/29/16 21:05 | 1 |
| Methyl tert-butyl ether | <5.9 | | 5.9 | 1.4 | ug/Kg | ☼ | | 03/29/16 21:05 | 1 |
| Styrene | <5.9 | | 5.9 | 1.4 | ug/Kg | ☼ | | 03/29/16 21:05 | 1 |
| 1,1,2,2-Tetrachloroethane | <5.9 | | 5.9 | 0.94 | ug/Kg | ☼ | | 03/29/16 21:05 | 1 |
| Tetrachloroethene | <5.9 | | 5.9 | 1.2 | ug/Kg | ☼ | | 03/29/16 21:05 | 1 |
| Toluene | <5.9 | | 5.9 | 2.1 | ug/Kg | ☼ | | 03/29/16 21:05 | 1 |
| trans-1,2-Dichloroethene | <5.9 | | 5.9 | 1.5 | ug/Kg | ☼ | | 03/29/16 21:05 | 1 |
| trans-1,3-Dichloropropene | <5.9 | | 5.9 | 1.7 | ug/Kg | ☼ | | 03/29/16 21:05 | 1 |
| 1,1,1-Trichloroethane | <5.9 | | 5.9 | 1.4 | ug/Kg | ☼ | | 03/29/16 21:05 | 1 |
| 1,1,2-Trichloroethane | <5.9 | | 5.9 | 1.1 | ug/Kg | ☼ | | 03/29/16 21:05 | 1 |
| Trichloroethene | <5.9 | | 5.9 | 1.6 | ug/Kg | ☼ | | 03/29/16 21:05 | 1 |
| Vinyl chloride | <5.9 | | 5.9 | 1.4 | ug/Kg | ☼ | | 03/29/16 21:05 | 1 |
| Xylenes, Total | <12 | | 12 | 2.2 | ug/Kg | ☼ | | 03/29/16 21:05 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 112 | | 70 - 120 | | 03/29/16 21:05 | 1 |
| Dibromofluoromethane | 118 | | 75 - 120 | | 03/29/16 21:05 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 116 | | 69 - 134 | | 03/29/16 21:05 | 1 |
| Toluene-d8 (Surr) | 119 | | 75 - 123 | | 03/29/16 21:05 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,2,4-Trichlorobenzene | <200 | | 200 | 42 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:49 | 1 |
| 1,2-Dichlorobenzene | <200 | | 200 | 47 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:49 | 1 |
| 1,3-Dichlorobenzene | <200 | | 200 | 44 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:49 | 1 |
| 1,4-Dichlorobenzene | <200 | | 200 | 50 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:49 | 1 |
| 2,2'-oxybis[1-chloropropane] | <200 | | 200 | 45 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:49 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109355-1

Client Sample ID: VL1-1(10-13.5)-032816

Lab Sample ID: 500-109355-4

Date Collected: 03/28/16 10:20

Matrix: Solid

Date Received: 03/28/16 15:45

Percent Solids: 84.4

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-------------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol | <390 | | 390 | 89 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:49 | 1 |
| 2,4,6-Trichlorophenol | <390 | | 390 | 130 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:49 | 1 |
| 2,4-Dichlorophenol | <390 | | 390 | 93 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:49 | 1 |
| 2,4-Dimethylphenol | <390 | | 390 | 150 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:49 | 1 |
| 2,4-Dinitrophenol | <790 | | 790 | 690 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:49 | 1 |
| 2,4-Dinitrotoluene | <200 | | 200 | 62 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:49 | 1 |
| 2,6-Dinitrotoluene | <200 | | 200 | 77 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:49 | 1 |
| 2-Chloronaphthalene | <200 | | 200 | 43 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:49 | 1 |
| 2-Chlorophenol | <200 | | 200 | 66 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:49 | 1 |
| 2-Methylnaphthalene | 43 | | 39 | 7.2 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:49 | 1 |
| 2-Methylphenol | <200 | | 200 | 62 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:49 | 1 |
| 2-Nitroaniline | <200 | | 200 | 52 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:49 | 1 |
| 2-Nitrophenol | <390 | | 390 | 92 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:49 | 1 |
| 3 & 4 Methylphenol | <200 | | 200 | 65 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:49 | 1 |
| 3,3'-Dichlorobenzidine | <200 | | 200 | 55 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:49 | 1 |
| 3-Nitroaniline | <390 | | 390 | 120 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:49 | 1 |
| 4,6-Dinitro-2-methylphenol | <790 | | 790 | 310 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:49 | 1 |
| 4-Bromophenyl phenyl ether | <200 | | 200 | 51 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:49 | 1 |
| 4-Chloro-3-methylphenol | <390 | | 390 | 130 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:49 | 1 |
| 4-Chloroaniline | <790 | | 790 | 180 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:49 | 1 |
| 4-Chlorophenyl phenyl ether | <200 | | 200 | 45 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:49 | 1 |
| 4-Nitroaniline | <390 | | 390 | 160 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:49 | 1 |
| 4-Nitrophenol | <790 | | 790 | 370 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:49 | 1 |
| Acenaphthene | <39 | | 39 | 7.0 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:49 | 1 |
| Acenaphthylene | <39 | | 39 | 5.1 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:49 | 1 |
| Anthracene | <39 | | 39 | 6.5 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:49 | 1 |
| Benzo[a]anthracene | 16 J | | 39 | 5.2 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:49 | 1 |
| Benzo[a]pyrene | 17 J | | 39 | 7.5 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:49 | 1 |
| Benzo[b]fluoranthene | 26 J | | 39 | 8.4 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:49 | 1 |
| Benzo[g,h,i]perylene | 24 J | | 39 | 13 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:49 | 1 |
| Benzo[k]fluoranthene | <39 | | 39 | 11 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:49 | 1 |
| Bis(2-chloroethoxy)methane | <200 | | 200 | 40 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:49 | 1 |
| Bis(2-chloroethyl)ether | <200 | | 200 | 58 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:49 | 1 |
| Bis(2-ethylhexyl) phthalate | <200 | | 200 | 71 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:49 | 1 |
| Butyl benzyl phthalate | <200 | | 200 | 74 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:49 | 1 |
| Carbazole | <200 | | 200 | 97 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:49 | 1 |
| Chrysene | 27 J | | 39 | 11 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:49 | 1 |
| Dibenz(a,h)anthracene | <39 | | 39 | 7.5 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:49 | 1 |
| Dibenzofuran | <200 | | 200 | 46 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:49 | 1 |
| Diethyl phthalate | <200 | | 200 | 66 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:49 | 1 |
| Dimethyl phthalate | <200 | | 200 | 51 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:49 | 1 |
| Di-n-butyl phthalate | <200 | | 200 | 59 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:49 | 1 |
| Di-n-octyl phthalate | <200 | | 200 | 64 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:49 | 1 |
| Fluoranthene | 35 J | | 39 | 7.2 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:49 | 1 |
| Fluorene | <39 | | 39 | 5.5 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:49 | 1 |
| Hexachlorobenzene | <79 | | 79 | 9.0 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:49 | 1 |
| Hexachlorobutadiene | <200 | | 200 | 61 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:49 | 1 |
| Hexachlorocyclopentadiene | <790 | | 790 | 220 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:49 | 1 |
| Hexachloroethane | <200 | | 200 | 59 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:49 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109355-1

Client Sample ID: VL1-1(10-13.5)-032816

Lab Sample ID: 500-109355-4

Date Collected: 03/28/16 10:20

Matrix: Solid

Date Received: 03/28/16 15:45

Percent Solids: 84.4

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| Indeno[1,2,3-cd]pyrene | 14 | J | 39 | 10 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:49 | 1 |
| Isophorone | <200 | | 200 | 44 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:49 | 1 |
| Naphthalene | <39 | | 39 | 6.0 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:49 | 1 |
| Nitrobenzene | <39 | | 39 | 9.7 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:49 | 1 |
| N-Nitrosodi-n-propylamine | <79 | | 79 | 48 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:49 | 1 |
| N-Nitrosodiphenylamine | <200 | | 200 | 46 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:49 | 1 |
| Pentachlorophenol | <790 | | 790 | 620 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:49 | 1 |
| Phenanthrene | 50 | | 39 | 5.4 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:49 | 1 |
| Phenol | <200 | | 200 | 87 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:49 | 1 |
| Pyrene | 31 | J | 39 | 7.7 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 15:49 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2,4,6-Tribromophenol | 92 | | 25 - 130 | | | | 03/29/16 08:11 | 04/01/16 15:49 | 1 |
| 2-Fluorobiphenyl | 75 | | 42 - 115 | | | | 03/29/16 08:11 | 04/01/16 15:49 | 1 |
| 2-Fluorophenol | 120 | | 40 - 130 | | | | 03/29/16 08:11 | 04/01/16 15:49 | 1 |
| Nitrobenzene-d5 | 67 | | 33 - 124 | | | | 03/29/16 08:11 | 04/01/16 15:49 | 1 |
| Phenol-d5 | 68 | | 36 - 123 | | | | 03/29/16 08:11 | 04/01/16 15:49 | 1 |
| Terphenyl-d14 | 74 | | 25 - 150 | | | | 03/29/16 08:11 | 04/01/16 15:49 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.050 | | 0.050 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 14:48 | 1 |
| Barium | 0.60 | | 0.50 | 0.050 | mg/L | | 03/31/16 15:12 | 04/01/16 14:48 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 03/31/16 15:12 | 04/01/16 14:48 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 03/31/16 15:12 | 04/01/16 14:48 | 1 |
| Chromium | <0.025 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 14:48 | 1 |
| Cobalt | 0.030 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 14:48 | 1 |
| Copper | <0.025 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 14:48 | 1 |
| Iron | <0.40 | | 0.40 | 0.20 | mg/L | | 03/31/16 15:12 | 04/01/16 14:48 | 1 |
| Lead | <0.0075 | | 0.0075 | 0.0075 | mg/L | | 03/31/16 15:12 | 04/01/16 14:48 | 1 |
| Manganese | 2.1 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 14:48 | 1 |
| Nickel | 0.073 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 14:48 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 03/31/16 15:12 | 04/01/16 14:48 | 1 |
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 14:48 | 1 |
| Zinc | 0.098 | J | 0.50 | 0.020 | mg/L | | 03/31/16 15:12 | 04/01/16 14:48 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|---------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.050 | | 0.050 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 16:45 | 1 |
| Barium | 0.33 | J | 0.50 | 0.050 | mg/L | | 03/30/16 15:14 | 03/31/16 16:45 | 1 |
| Beryllium | 0.0052 | | 0.0040 | 0.0040 | mg/L | | 03/30/16 15:14 | 03/31/16 16:45 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 03/30/16 15:14 | 03/31/16 16:45 | 1 |
| Chromium | 0.13 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 16:45 | 1 |
| Cobalt | 0.045 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 16:45 | 1 |
| Copper | 0.074 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 16:45 | 1 |
| Iron | 85 | | 0.40 | 0.20 | mg/L | | 03/30/16 15:14 | 03/31/16 16:45 | 1 |
| Lead | 0.068 | | 0.0075 | 0.0075 | mg/L | | 03/30/16 15:14 | 03/31/16 16:45 | 1 |
| Manganese | 0.75 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 16:45 | 1 |
| Nickel | 0.12 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 16:45 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 03/30/16 15:14 | 03/31/16 16:45 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109355-1

Client Sample ID: VL1-1(10-13.5)-032816

Lab Sample ID: 500-109355-4

Date Collected: 03/28/16 10:20

Matrix: Solid

Date Received: 03/28/16 15:45

Percent Solids: 84.4

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|-------------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 16:45 | 1 |
| Zinc | 0.22 | J | 0.50 | 0.020 | mg/L | | 03/30/16 15:14 | 03/31/16 16:45 | 1 |

Method: 6010B - Total Metals

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | <1.0 | | 1.0 | 0.21 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:28 | 1 |
| Arsenic | 4.5 | | 0.51 | 0.24 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:28 | 1 |
| Barium | 41 | | 0.51 | 0.094 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:28 | 1 |
| Beryllium | 0.59 | | 0.21 | 0.045 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:28 | 1 |
| Cadmium | 0.068 | J | 0.10 | 0.030 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:28 | 1 |
| Calcium | 77000 | B | 100 | 33 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 20:13 | 10 |
| Chromium | 16 | | 0.51 | 0.089 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:28 | 1 |
| Cobalt | 12 | | 0.26 | 0.058 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:28 | 1 |
| Copper | 17 | | 0.51 | 0.11 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:28 | 1 |
| Iron | 16000 | B | 10 | 4.0 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:28 | 1 |
| Lead | 12 | | 0.26 | 0.13 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:28 | 1 |
| Magnesium | 24000 | | 5.1 | 2.1 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:28 | 1 |
| Manganese | 290 | | 0.51 | 0.10 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:28 | 1 |
| Nickel | 30 | | 0.51 | 0.14 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:28 | 1 |
| Potassium | 2800 | B | 26 | 4.2 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:28 | 1 |
| Selenium | 0.39 | J | 0.51 | 0.25 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:28 | 1 |
| Silver | <0.26 | | 0.26 | 0.060 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:28 | 1 |
| Sodium | 210 | B | 51 | 6.8 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:28 | 1 |
| Thallium | 0.36 | J | 0.51 | 0.25 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:28 | 1 |
| Vanadium | 18 | | 0.26 | 0.075 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:28 | 1 |
| Zinc | 50 | | 1.0 | 0.33 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:28 | 1 |

Method: 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 03/31/16 13:40 | 04/01/16 10:34 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 03/30/16 13:30 | 03/31/16 10:50 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Mercury | 13 | J | 20 | 10 | ug/Kg | ☼ | 03/29/16 16:30 | 03/30/16 09:50 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-------------|-----------|-------|-------|------|---|----------|----------------|---------|
| pH | 8.71 | | 0.200 | 0.200 | SU | | | 03/30/16 15:34 | 1 |

Definitions/Glossary

Client: Environmental Design International, Inc.
Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109355-1

Qualifiers

GC/MS VOA

| Qualifier | Qualifier Description |
|-----------|--|
| F1 | MS and/or MSD Recovery is outside acceptance limits. |

GC/MS Semi VOA

| Qualifier | Qualifier Description |
|-----------|--|
| F2 | MS/MSD RPD exceeds control limits |
| F1 | MS and/or MSD Recovery is outside acceptance limits. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

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. |
| F5 | Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL. |
| F2 | MS/MSD RPD exceeds control limits |
| F1 | MS and/or MSD Recovery is outside acceptance limits. |
| F3 | Duplicate RPD exceeds the control limit |
| 4 | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |
| ^ | ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits. |

Glossary

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

Certification Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109355-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|-----------|---------|------------|------------------|-----------------|
| Illinois | NELAP | 5 | 100201 | 04-30-17 |

The following analytes are included in this report, but certification is not offered by the governing authority:

| Analysis Method | Prep Method | Matrix | Analyte |
|-----------------|-------------|--------|----------------------------|
| 8260B | | Solid | 1,3-Dichloropropene, Total |
| Moisture | | Solid | Percent Moisture |
| Moisture | | Solid | Percent Solids |



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

Bill To (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 PO#/Reference# 500-109355 COC

Chain of Custody Record

Lab Job #: 500-109355

Chain of Custody Number: _____

Page 1 of 2

Temperature °C of Cooler: 4.5



| Client | | Client Project # | | Preservative | | Parameter | | Matrix | | Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other | |
|--------------|--------|-----------------------|---------|--------------|---|-----------------|---|--------|----------|---|---|
| Project Name | | Lab Project # | | Sampling | | # of Containers | | Matrix | | | |
| Lab ID | MS/MSD | Sample ID | Date | Time | | | | | Comments | | |
| EDF | | 0295.022 | | | | | | | | | |
| IDOT Harvey | | | | | | | | | | | |
| Harvey IL | | Lab Project # | | | | | | | | | |
| Celia Penner | | Lab PM | | | | | | | | | |
| | | | | | | | | | | | |
| 1 | | JS-1(0-4)-032816 | 3/26/16 | 0945 | 2 | S | X | X | X | X | X |
| 2 | | VLI-1(0-5)-032816 | | 1010 | | | X | X | X | X | |
| 3 | | VLI-1(5-10)-032816 | | 1015 | | | X | X | X | X | |
| 4 | | VLI-1(10-13.5)-032816 | | 1020 | | | X | X | X | X | |
| 5 | | VLI-2(0-5)-032816 | | 1045 | | | X | X | X | X | |
| 6 | | VLI-2(5-10)-032816 | | 1050 | | | X | X | X | X | |
| 7 | | VLI-2(10-13.5)-032816 | | 1055 | | | X | X | X | X | |
| 8 | | R7-1(0-4)-032816 | | 1110 | | | X | X | X | X | |
| 9 | | R7-2(0-5)-032816 | | 1135 | | | X | X | X | X | |
| 10 | | R7-2(5-10)-032816 | | 1140 | | | X | X | X | X | |

Turnaround Time Required (Business Days)

1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other

Sample Disposal

Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

| | | | | | | | |
|--------------------|---------|---------|------|--------------------|---------|----------|------|
| Relinquished By | Company | Date | Time | Received By | Company | Date | Time |
| <i>[Signature]</i> | EDF | 3/26/16 | 1500 | <i>[Signature]</i> | TA | 3/28/16 | 1500 |
| Relinquished By | Company | Date | Time | Received By | Company | Date | Time |
| <i>[Signature]</i> | TA | 3/20/16 | 1545 | <i>[Signature]</i> | TAL | 03/28/16 | 1545 |
| Relinquished By | Company | Date | Time | Received By | Company | Date | Time |
| | | | | | | | |

Lab Courier

Shipped

Hand Delivered

Matrix Key
 WW - Wastewater SE - Sediment
 W - Water SO - Soil
 S - Soil L - Leachate
 SL - Sludge WI - Wipe
 MS - Miscellaneous DW - Drinking Water
 OL - Oil O - Other
 A - Air

Client Comments

Lab Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

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

Chain of Custody Record

Lab Job #: 500-109355
 Chain of Custody Number: _____
 Page 2 of 2
 Temperature °C of Cooler: 4.5

| Client | | Client Project # | | Preservative | | | | | | | Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other | |
|------------------------|--------|---------------------|---------|--------------|-----------------|--------|------|-------|--------------|-----------------|---|----------|
| Project Name | | Lab Project # | | Parameter | | | | | | | | |
| Project Location/State | | Lab PM | | | | | | | | | | |
| Sampler | | | | | | | | | | | | |
| Lab ID | MS/MSD | Sample ID | Date | Time | # of Containers | Matrix | VOCs | SVOCs | Total Metals | TEC/SPEC metals | pH | Comments |
| 11 | | R7-3(0-5)-032816 | 3/28/16 | 1210 | 2 | S | X | X | X | X | X | |
| 12 | | R7-3(5-8)-032816 | | 1215 | | | | | | | | |
| 13 | | R7-3(5-8)-032816 D | | 1220 | | | | | | | | |
| 14 | | CB8-1(0-6.8)-032816 | | 1250 | | | | | | | | |
| 15 | | CB8-2(0-4)-032816 | | 1305 | | | | | | | | |
| 16 | | CB8-3(0-4)-032816 | | 1320 | | | | | | | | |
| 17 | | CB8-4(0-4)-032816 | | 1340 | | | | | | | | |
| 18 | | CB8-5(0-4)-032816 | | 1400 | | | | | | | | |
| 19 | | CB8-6(0-6.8)-032816 | | 1415 | | | | | | | | |
| 20 | | CB8-7(0-6.8)-032816 | | 1430 | | | X | X | X | X | X | |

Turnaround Time Required (Business Days)

___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days ___ Other

Requested Due Date _____

Sample Disposal

Return to Client Disposal by Lab Archive for ___ Months (A fee may be assessed if samples are retained longer than 1 month)

| | | |
|--|---|--|
| Relinquished By: <u>[Signature]</u> Company: <u>EDJ</u> Date: <u>3/28/16</u> Time: <u>1500</u> | Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/28/16</u> Time: <u>1500</u> | Lab Courier: <input checked="" type="checkbox"/> |
| Relinquished By: <u>[Signature]</u> Company: <u>[Signature]</u> Date: <u>3/28/16</u> Time: <u>1545</u> | Received By: <u>[Signature]</u> Company: <u>TAL</u> Date: <u>03/28/16</u> Time: <u>1545</u> | Shipped: <input type="checkbox"/> |
| Relinquished By: _____ Company: _____ Date: _____ Time: _____ | Received By: _____ Company: _____ Date: _____ Time: _____ | Hand Delivered: <input type="checkbox"/> |

Matrix Key

WW - Wastewater SE - Sediment
 W - Water SO - Soil
 S - Soil L - Leachate
 SL - Sludge WI - Wipe
 MS - Miscellaneous DW - Drinking Water
 OL - Oil O - Other
 A - Air

Client Comments

Lab Comments:



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

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

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

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

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

I. Source Location Information

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

Project Name: FAU 3597: IL Route 1 (Halsted St) at Vincennes Rd Office Phone Number, if available: _____

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

15141 Vincennes Road, (ISGS Site No. 2553V-4)

City: Harvey State: IL Zip Code: _____

County: Cook Township: _____

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

Latitude: 41.6137 Longitude: -87.63680556

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

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

Project Name: FAU 3597: IL Route 1 (Halsted St) at Vincennes **F+**

Latitude: 41.6137 Longitude: -87.63680556

Uncontaminated Site Certification

III. Basis for Certification and Attachments

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

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

LOCATION BB-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2553V-4. SEE FIGURE 3-1 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

- 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]:

TEST AMERICA REPORTS - JOB ID: 500-109413-1.
ALSO SEE FIGURE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

I, William F. Karlovitz, P.E. (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: Weston Solutions, Inc.
 Street Address: 300 Circle Plaza; Suite 202
 City: Mundelein State: IL Zip Code: 60060
 Phone: (224) 864-7200

William F. Karlovitz, P.E.
 Printed Name:

William F. Karlovitz

Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

17 May 2016
 Date:



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

Summary Table of ISGS Site No. 2553V-4
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAU 3597: Illinois Route 1 (Halsted Street) at Vincennes Road
Harvey, Cook County, Illinois

| Field Sample ID | BB-1(0-5)-032916 | BB-1(5-10)-032916 | Soil Reference Concentrations ^A |
|-----------------------------|------------------|-------------------|--|
| Sample Date | 3/29/2016 | 3/29/2016 | |
| Location ID | BB-1 | BB-1 | |
| Depth | 0 - 5 | 5 - 10 | |
| Lab Sample ID | 500-109413-3 | 500-109413-4 | |
| ISGS Site No. | 2553V-4 | 2553V-4 | |
| Parameter | | | |
| Laboratory pH | 8.01 | 7.74 | <6.25,>9.0 |
| VOCs (ug/kg) | | | |
| Acetone | 28 | 28 | 25000 |
| SVOCs (ug/kg) | | | |
| 2-Methylnaphthalene | 16 J | ND | --- |
| Benzo(a)anthracene | 19 J | 15 J | 900 / 1100 / 1800 |
| Benzo(a)pyrene | 23 J | 17 J | 90 / 1300 / 2100 |
| Benzo(b)fluoranthene | 38 | 33 J | 900 / 1500 / 2100 |
| Benzo(g,h,i)perylene | 15 J | 22 J | --- |
| Benzo(k)fluoranthene | 16 J | 13 J | 9000 |
| Chrysene | 32 J | 29 J | 88000 |
| Fluoranthene | 34 J | 33 J | 3100000 |
| Indeno(1,2,3-cd)pyrene | 11 J | ND | 900 / 900 / 1600 |
| Naphthalene, SVOC | 9.1 J | ND | 1800 |
| Phenanthrene | 42 | 69 | --- |
| Pyrene | 46 | 50 | 2300000 |
| Total Metals (mg/kg) | | | |
| Arsenic, Total | 7.4 J | 6.6 J | 11.3 / 13.0 |
| Barium, Total | 42 J | 41 J | 1500 |
| Beryllium, Total | 0.84 | 0.66 | 22 |
| Cadmium, Total | 0.054 J | ND | 5.2 |
| Calcium, Total | 23000 J | 73000 J | --- |
| Chromium, Total | 18 J | 15 J | 21 |
| Cobalt, Total | 15 J | 12 J | 20 |
| Copper, Total | 32 J | 22 J | 2900 |
| Iron, Total | 22000 J | 19000 J | 15000 / 15900 |
| Lead, Total | 29 J | 21 J | 107 |
| Magnesium, Total | 15000 J | 25000 J | 325000 |
| Manganese, Total | 230 J | 250 J | 630 / 636 |
| Mercury, Total | 0.038 | 0.019 | 0.89 |
| Nickel, Total | 37 J | 33 J | 100 |
| Potassium, Total | 2500 J | 2100 J | --- |
| Selenium, Total | ND | 0.55 J | 1.3 |
| Sodium, Total | 1600 J | 780 J | --- |
| Vanadium, Total | 23 J | 21 J | 550 |
| Zinc, Total | 80 J | 64 J | 5100 |
| TCLP Metals (mg/l) | | | |
| Arsenic, TCLP | 0.01 J | ND | 0.05 |
| Barium, TCLP | 0.57 | 0.52 | 2 |
| Beryllium, TCLP | ND | ND | 0.004 |
| Cadmium, TCLP | ND | ND | 0.005 |
| Chromium, TCLP | ND | ND | 0.1 |
| Cobalt, TCLP | 0.018 J | 0.013 J | 1 |
| Copper, TCLP | ND | ND | 0.65 |
| Iron, TCLP | ND | ND | 5 |
| Lead, TCLP | ND | ND | 0.0075 |
| Manganese, TCLP | 3.9 | 3.9 | 0.15 |
| Mercury, TCLP | ND | ND | 0.002 |
| Nickel, TCLP | 0.021 J | 0.017 J | 0.1 |
| Selenium, TCLP | ND | ND | 0.05 |
| Zinc, TCLP | 0.025 J | 0.03 J | 5 |

Summary Table of ISGS Site No. 2553V-4
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAU 3597: Illinois Route 1 (Halsted Street) at Vincennes Road
Harvey, Cook County, Illinois

| Field Sample ID | BB-1(0-5)-032916 | BB-1(5-10)-032916 | Soil Reference Concentrations ^A |
|---------------------------|------------------|-------------------|--|
| Sample Date | 3/29/2016 | 3/29/2016 | |
| Location ID | BB-1 | BB-1 | |
| Depth | 0 - 5 | 5 - 10 | |
| Lab Sample ID | 500-109413-3 | 500-109413-4 | |
| ISGS Site No. | 2553V-4 | 2553V-4 | |
| Parameter | | | |
| SPLP Metals (mg/l) | | | |
| Arsenic, SPLP | 0.033 J | ND | 0.05 |
| Barium, SPLP | 0.42 J | 0.058 J | 2 |
| Beryllium, SPLP | 0.0054 | ND | 0.004 |
| Cadmium, SPLP | ND | ND | 0.005 |
| Chromium, SPLP | 0.12 | 0.014 J | 0.1 |
| Cobalt, SPLP | 0.057 | ND | 1 |
| Copper, SPLP | 0.12 | 0.012 J | 0.65 |
| Iron, SPLP | 170 | 13 | 5 |
| Lead, SPLP | 0.13 | 0.011 | 0.0075 |
| Manganese, SPLP | 1.1 | 0.083 | 0.15 |
| Mercury, SPLP | ND | ND | 0.002 |
| Nickel, SPLP | 0.14 | 0.011 J | 0.1 |
| Selenium, SPLP | ND | ND | 0.05 |
| Zinc, SPLP | 0.29 J | 0.03 J | 5 |

Notes:

--- - not applicable or value not available.

^A - Soil reference concentrations from MAC Table. Background values for MSA Counties and Chicago corporate limits are included, as applicable.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

Shaded values indicate concentration **exceeds** Reference Concentration.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-109413-1

Client Project/Site: IDOT - Harvey IL Route 113 - WO 041

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

Attn: Ms. Patricia Feeley

Jodie Bracken

Authorized for release by:
4/7/2016 3:38:11 PM

Jodie Bracken, Project Management Assistant II
jodie.bracken@testamericainc.com

Designee for

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.

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

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Client Sample ID: BB-1(0-5)-032916

Lab Sample ID: 500-109413-3

Date Collected: 03/29/16 08:55

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 83.9

Method: 8260B - VOC

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Acetone | 28 | | 24 | 4.6 | ug/Kg | ☼ | | 04/01/16 16:36 | 1 |
| Benzene | <6.0 | | 6.0 | 1.3 | ug/Kg | ☼ | | 04/01/16 16:36 | 1 |
| Bromodichloromethane | <6.0 | | 6.0 | 1.0 | ug/Kg | ☼ | | 04/01/16 16:36 | 1 |
| Bromoform | <6.0 | | 6.0 | 1.2 | ug/Kg | ☼ | | 04/01/16 16:36 | 1 |
| Bromomethane | <6.0 | | 6.0 | 2.2 | ug/Kg | ☼ | | 04/01/16 16:36 | 1 |
| Carbon disulfide | <6.0 | | 6.0 | 2.2 | ug/Kg | ☼ | | 04/01/16 16:36 | 1 |
| Carbon tetrachloride | <6.0 | | 6.0 | 1.3 | ug/Kg | ☼ | | 04/01/16 16:36 | 1 |
| Chlorobenzene | <6.0 | | 6.0 | 1.4 | ug/Kg | ☼ | | 04/01/16 16:36 | 1 |
| Chloroethane | <6.0 | | 6.0 | 2.5 | ug/Kg | ☼ | | 04/01/16 16:36 | 1 |
| Chloroform | <6.0 | | 6.0 | 1.2 | ug/Kg | ☼ | | 04/01/16 16:36 | 1 |
| Chloromethane | <6.0 | | 6.0 | 1.4 | ug/Kg | ☼ | | 04/01/16 16:36 | 1 |
| cis-1,2-Dichloroethene | <6.0 | | 6.0 | 1.2 | ug/Kg | ☼ | | 04/01/16 16:36 | 1 |
| cis-1,3-Dichloropropene | <6.0 | | 6.0 | 1.4 | ug/Kg | ☼ | | 04/01/16 16:36 | 1 |
| Dibromochloromethane | <6.0 | | 6.0 | 0.69 | ug/Kg | ☼ | | 04/01/16 16:36 | 1 |
| 1,1-Dichloroethane | <6.0 | | 6.0 | 1.2 | ug/Kg | ☼ | | 04/01/16 16:36 | 1 |
| 1,2-Dichloroethane | <6.0 | | 6.0 | 0.88 | ug/Kg | ☼ | | 04/01/16 16:36 | 1 |
| 1,1-Dichloroethene | <6.0 | | 6.0 | 2.2 | ug/Kg | ☼ | | 04/01/16 16:36 | 1 |
| 1,2-Dichloropropane | <6.0 | | 6.0 | 1.6 | ug/Kg | ☼ | | 04/01/16 16:36 | 1 |
| 1,3-Dichloropropene, Total | <6.0 | | 6.0 | 1.7 | ug/Kg | ☼ | | 04/01/16 16:36 | 1 |
| Ethylbenzene | <6.0 | | 6.0 | 1.5 | ug/Kg | ☼ | | 04/01/16 16:36 | 1 |
| 2-Hexanone | <6.0 | | 6.0 | 1.8 | ug/Kg | ☼ | | 04/01/16 16:36 | 1 |
| Methylene Chloride | <6.0 | | 6.0 | 4.5 | ug/Kg | ☼ | | 04/01/16 16:36 | 1 |
| Methyl Ethyl Ketone | <6.0 | | 6.0 | 2.1 | ug/Kg | ☼ | | 04/01/16 16:36 | 1 |
| methyl isobutyl ketone | <6.0 | | 6.0 | 1.2 | ug/Kg | ☼ | | 04/01/16 16:36 | 1 |
| Methyl tert-butyl ether | <6.0 | | 6.0 | 1.4 | ug/Kg | ☼ | | 04/01/16 16:36 | 1 |
| Styrene | <6.0 | | 6.0 | 1.4 | ug/Kg | ☼ | | 04/01/16 16:36 | 1 |
| 1,1,2,2-Tetrachloroethane | <6.0 | | 6.0 | 0.95 | ug/Kg | ☼ | | 04/01/16 16:36 | 1 |
| Tetrachloroethene | <6.0 | | 6.0 | 1.2 | ug/Kg | ☼ | | 04/01/16 16:36 | 1 |
| Toluene | <6.0 | | 6.0 | 2.1 | ug/Kg | ☼ | | 04/01/16 16:36 | 1 |
| trans-1,2-Dichloroethene | <6.0 | | 6.0 | 1.5 | ug/Kg | ☼ | | 04/01/16 16:36 | 1 |
| trans-1,3-Dichloropropene | <6.0 | | 6.0 | 1.7 | ug/Kg | ☼ | | 04/01/16 16:36 | 1 |
| 1,1,1-Trichloroethane | <6.0 | | 6.0 | 1.4 | ug/Kg | ☼ | | 04/01/16 16:36 | 1 |
| 1,1,2-Trichloroethane | <6.0 | | 6.0 | 1.2 | ug/Kg | ☼ | | 04/01/16 16:36 | 1 |
| Trichloroethene | <6.0 | | 6.0 | 1.6 | ug/Kg | ☼ | | 04/01/16 16:36 | 1 |
| Vinyl chloride | <6.0 | | 6.0 | 1.4 | ug/Kg | ☼ | | 04/01/16 16:36 | 1 |
| Xylenes, Total | <12 | | 12 | 2.2 | ug/Kg | ☼ | | 04/01/16 16:36 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 104 | | 70 - 120 | | 04/01/16 16:36 | 1 |
| Dibromofluoromethane | 113 | | 75 - 120 | | 04/01/16 16:36 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 117 | | 69 - 134 | | 04/01/16 16:36 | 1 |
| Toluene-d8 (Surr) | 115 | | 75 - 123 | | 04/01/16 16:36 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,2,4-Trichlorobenzene | <190 | | 190 | 41 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 17:57 | 1 |
| 1,2-Dichlorobenzene | <190 | | 190 | 46 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 17:57 | 1 |
| 1,3-Dichlorobenzene | <190 | | 190 | 43 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 17:57 | 1 |
| 1,4-Dichlorobenzene | <190 | | 190 | 49 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 17:57 | 1 |
| 2,2'-oxybis[1-chloropropane] | <190 | | 190 | 44 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 17:57 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Client Sample ID: BB-1(0-5)-032916

Lab Sample ID: 500-109413-3

Date Collected: 03/29/16 08:55

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 83.9

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol | <380 | | 380 | 87 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 17:57 | 1 |
| 2,4,6-Trichlorophenol | <380 | | 380 | 130 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 17:57 | 1 |
| 2,4-Dichlorophenol | <380 | | 380 | 91 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 17:57 | 1 |
| 2,4-Dimethylphenol | <380 | | 380 | 140 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 17:57 | 1 |
| 2,4-Dinitrophenol | <770 | | 770 | 670 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 17:57 | 1 |
| 2,4-Dinitrotoluene | <190 | | 190 | 61 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 17:57 | 1 |
| 2,6-Dinitrotoluene | <190 | | 190 | 75 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 17:57 | 1 |
| 2-Chloronaphthalene | <190 | | 190 | 42 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 17:57 | 1 |
| 2-Chlorophenol | <190 | | 190 | 65 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 17:57 | 1 |
| 2-Methylnaphthalene | 16 | J | 38 | 7.0 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 17:57 | 1 |
| 2-Methylphenol | <190 | | 190 | 61 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 17:57 | 1 |
| 2-Nitroaniline | <190 | | 190 | 51 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 17:57 | 1 |
| 2-Nitrophenol | <380 | | 380 | 90 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 17:57 | 1 |
| 3 & 4 Methylphenol | <190 | | 190 | 64 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 17:57 | 1 |
| 3,3'-Dichlorobenzidine | <190 | | 190 | 53 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 17:57 | 1 |
| 3-Nitroaniline | <380 | | 380 | 120 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 17:57 | 1 |
| 4,6-Dinitro-2-methylphenol | <770 | | 770 | 310 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 17:57 | 1 |
| 4-Bromophenyl phenyl ether | <190 | | 190 | 50 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 17:57 | 1 |
| 4-Chloro-3-methylphenol | <380 | | 380 | 130 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 17:57 | 1 |
| 4-Chloroaniline | <770 | | 770 | 180 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 17:57 | 1 |
| 4-Chlorophenyl phenyl ether | <190 | | 190 | 45 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 17:57 | 1 |
| 4-Nitroaniline | <380 | | 380 | 160 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 17:57 | 1 |
| 4-Nitrophenol | <770 | | 770 | 360 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 17:57 | 1 |
| Acenaphthene | <38 | | 38 | 6.9 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 17:57 | 1 |
| Acenaphthylene | <38 | | 38 | 5.0 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 17:57 | 1 |
| Anthracene | <38 | | 38 | 6.4 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 17:57 | 1 |
| Benzo[a]anthracene | 19 | J | 38 | 5.1 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 17:57 | 1 |
| Benzo[a]pyrene | 23 | J | 38 | 7.4 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 17:57 | 1 |
| Benzo[b]fluoranthene | 38 | | 38 | 8.2 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 17:57 | 1 |
| Benzo[g,h,i]perylene | 15 | J | 38 | 12 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 17:57 | 1 |
| Benzo[k]fluoranthene | 16 | J | 38 | 11 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 17:57 | 1 |
| Bis(2-chloroethoxy)methane | <190 | | 190 | 39 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 17:57 | 1 |
| Bis(2-chloroethyl)ether | <190 | | 190 | 57 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 17:57 | 1 |
| Bis(2-ethylhexyl) phthalate | <190 | | 190 | 70 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 17:57 | 1 |
| Butyl benzyl phthalate | <190 | | 190 | 73 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 17:57 | 1 |
| Carbazole | <190 | | 190 | 95 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 17:57 | 1 |
| Chrysene | 32 | J | 38 | 10 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 17:57 | 1 |
| Dibenz(a,h)anthracene | <38 | | 38 | 7.4 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 17:57 | 1 |
| Dibenzofuran | <190 | | 190 | 45 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 17:57 | 1 |
| Diethyl phthalate | <190 | | 190 | 65 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 17:57 | 1 |
| Dimethyl phthalate | <190 | | 190 | 50 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 17:57 | 1 |
| Di-n-butyl phthalate | <190 | | 190 | 58 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 17:57 | 1 |
| Di-n-octyl phthalate | <190 | | 190 | 62 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 17:57 | 1 |
| Fluoranthene | 34 | J | 38 | 7.1 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 17:57 | 1 |
| Fluorene | <38 | | 38 | 5.4 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 17:57 | 1 |
| Hexachlorobenzene | <77 | | 77 | 8.9 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 17:57 | 1 |
| Hexachlorobutadiene | <190 | | 190 | 60 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 17:57 | 1 |
| Hexachlorocyclopentadiene | <770 | | 770 | 220 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 17:57 | 1 |
| Hexachloroethane | <190 | | 190 | 58 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 17:57 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Client Sample ID: BB-1(0-5)-032916

Lab Sample ID: 500-109413-3

Date Collected: 03/29/16 08:55

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 83.9

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| Indeno[1,2,3-cd]pyrene | 11 | J | 38 | 9.9 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 17:57 | 1 |
| Isophorone | <190 | | 190 | 43 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 17:57 | 1 |
| Naphthalene | 9.1 | J | 38 | 5.9 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 17:57 | 1 |
| Nitrobenzene | <38 | | 38 | 9.5 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 17:57 | 1 |
| N-Nitrosodi-n-propylamine | <77 | | 77 | 47 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 17:57 | 1 |
| N-Nitrosodiphenylamine | <190 | | 190 | 45 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 17:57 | 1 |
| Pentachlorophenol | <770 | | 770 | 610 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 17:57 | 1 |
| Phenanthrene | 42 | | 38 | 5.3 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 17:57 | 1 |
| Phenol | <190 | | 190 | 85 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 17:57 | 1 |
| Pyrene | 46 | | 38 | 7.6 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 17:57 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2,4,6-Tribromophenol | 53 | | 25 - 130 | | | | 03/30/16 08:24 | 04/06/16 17:57 | 1 |
| 2-Fluorobiphenyl | 85 | | 42 - 115 | | | | 03/30/16 08:24 | 04/06/16 17:57 | 1 |
| 2-Fluorophenol | 86 | | 40 - 130 | | | | 03/30/16 08:24 | 04/06/16 17:57 | 1 |
| Nitrobenzene-d5 | 75 | | 33 - 124 | | | | 03/30/16 08:24 | 04/06/16 17:57 | 1 |
| Phenol-d5 | 84 | | 36 - 123 | | | | 03/30/16 08:24 | 04/06/16 17:57 | 1 |
| Terphenyl-d14 | 98 | | 25 - 150 | | | | 03/30/16 08:24 | 04/06/16 17:57 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.010 | J | 0.050 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 17:13 | 1 |
| Barium | 0.57 | | 0.50 | 0.050 | mg/L | | 04/01/16 14:34 | 04/02/16 17:13 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 04/01/16 14:34 | 04/02/16 17:13 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/01/16 14:34 | 04/02/16 17:13 | 1 |
| Chromium | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 17:13 | 1 |
| Cobalt | 0.018 | J | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 17:13 | 1 |
| Copper | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 17:13 | 1 |
| Iron | <0.40 | | 0.40 | 0.20 | mg/L | | 04/01/16 14:34 | 04/02/16 17:13 | 1 |
| Lead | <0.0075 | | 0.0075 | 0.0075 | mg/L | | 04/01/16 14:34 | 04/02/16 17:13 | 1 |
| Manganese | 3.9 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 17:13 | 1 |
| Nickel | 0.021 | J | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 17:13 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/01/16 14:34 | 04/02/16 17:13 | 1 |
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 17:13 | 1 |
| Zinc | 0.025 | J | 0.50 | 0.020 | mg/L | | 04/01/16 14:34 | 04/02/16 17:13 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|---------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.033 | J | 0.050 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 19:42 | 1 |
| Barium | 0.42 | J | 0.50 | 0.050 | mg/L | | 04/01/16 14:17 | 04/02/16 19:42 | 1 |
| Beryllium | 0.0054 | | 0.0040 | 0.0040 | mg/L | | 04/01/16 14:17 | 04/02/16 19:42 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/01/16 14:17 | 04/02/16 19:42 | 1 |
| Chromium | 0.12 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 19:42 | 1 |
| Cobalt | 0.057 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 19:42 | 1 |
| Copper | 0.12 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 19:42 | 1 |
| Iron | 170 | | 0.40 | 0.20 | mg/L | | 04/05/16 07:39 | 04/05/16 14:01 | 1 |
| Lead | 0.13 | | 0.0075 | 0.0075 | mg/L | | 04/01/16 14:17 | 04/02/16 19:42 | 1 |
| Manganese | 1.1 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 19:42 | 1 |
| Nickel | 0.14 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 19:42 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/01/16 14:17 | 04/02/16 19:42 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Client Sample ID: BB-1(0-5)-032916

Lab Sample ID: 500-109413-3

Date Collected: 03/29/16 08:55

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 83.9

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|-------------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 19:42 | 1 |
| Zinc | 0.29 | J | 0.50 | 0.020 | mg/L | | 04/01/16 14:17 | 04/02/16 19:42 | 1 |

Method: 6010B - Total Metals

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | <1.2 | | 1.2 | 0.25 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:23 | 1 |
| Arsenic | 7.4 | | 0.59 | 0.27 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:23 | 1 |
| Barium | 42 | B | 0.59 | 0.11 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:23 | 1 |
| Beryllium | 0.84 | | 0.24 | 0.051 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:23 | 1 |
| Cadmium | 0.054 | J | 0.12 | 0.034 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:23 | 1 |
| Calcium | 23000 | B | 12 | 3.8 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:23 | 1 |
| Chromium | 18 | | 0.59 | 0.10 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:23 | 1 |
| Cobalt | 15 | | 0.30 | 0.067 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:23 | 1 |
| Copper | 32 | | 0.59 | 0.13 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:23 | 1 |
| Iron | 22000 | | 12 | 4.6 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:23 | 1 |
| Lead | 29 | | 0.30 | 0.15 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:23 | 1 |
| Magnesium | 15000 | B | 5.9 | 2.4 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:23 | 1 |
| Manganese | 230 | | 0.59 | 0.12 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:23 | 1 |
| Nickel | 37 | | 0.59 | 0.16 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:23 | 1 |
| Potassium | 2500 | | 30 | 4.8 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:23 | 1 |
| Selenium | <0.59 | | 0.59 | 0.29 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:23 | 1 |
| Silver | <0.30 | | 0.30 | 0.069 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:23 | 1 |
| Sodium | 1600 | | 59 | 7.8 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:23 | 1 |
| Thallium | <0.59 | | 0.59 | 0.29 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:23 | 1 |
| Vanadium | 23 | | 0.30 | 0.086 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:23 | 1 |
| Zinc | 80 | | 1.2 | 0.37 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:23 | 1 |

Method: 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/01/16 15:45 | 04/04/16 13:23 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/01/16 15:45 | 04/04/16 12:23 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Mercury | 38 | | 19 | 10 | ug/Kg | ☼ | 03/30/16 16:15 | 03/31/16 09:53 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-------------|-----------|-------|-------|------|---|----------|----------------|---------|
| pH | 8.01 | | 0.200 | 0.200 | SU | | | 03/31/16 10:46 | 1 |

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Client Sample ID: BB-1(5-10)-032916

Lab Sample ID: 500-109413-4

Date Collected: 03/29/16 09:00

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 79.9

Method: 8260B - VOC

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|-----------|-----------|-----|------|-------|---|----------|----------------|---------|
| Acetone | 28 | | 25 | 4.8 | ug/Kg | ☼ | | 04/01/16 17:00 | 1 |
| Benzene | <6.3 | | 6.3 | 1.4 | ug/Kg | ☼ | | 04/01/16 17:00 | 1 |
| Bromodichloromethane | <6.3 | | 6.3 | 1.1 | ug/Kg | ☼ | | 04/01/16 17:00 | 1 |
| Bromoform | <6.3 | | 6.3 | 1.3 | ug/Kg | ☼ | | 04/01/16 17:00 | 1 |
| Bromomethane | <6.3 | | 6.3 | 2.3 | ug/Kg | ☼ | | 04/01/16 17:00 | 1 |
| Carbon disulfide | <6.3 | | 6.3 | 2.3 | ug/Kg | ☼ | | 04/01/16 17:00 | 1 |
| Carbon tetrachloride | <6.3 | | 6.3 | 1.3 | ug/Kg | ☼ | | 04/01/16 17:00 | 1 |
| Chlorobenzene | <6.3 | | 6.3 | 1.5 | ug/Kg | ☼ | | 04/01/16 17:00 | 1 |
| Chloroethane | <6.3 | | 6.3 | 2.6 | ug/Kg | ☼ | | 04/01/16 17:00 | 1 |
| Chloroform | <6.3 | | 6.3 | 1.2 | ug/Kg | ☼ | | 04/01/16 17:00 | 1 |
| Chloromethane | <6.3 | | 6.3 | 1.5 | ug/Kg | ☼ | | 04/01/16 17:00 | 1 |
| cis-1,2-Dichloroethene | <6.3 | | 6.3 | 1.3 | ug/Kg | ☼ | | 04/01/16 17:00 | 1 |
| cis-1,3-Dichloropropene | <6.3 | | 6.3 | 1.4 | ug/Kg | ☼ | | 04/01/16 17:00 | 1 |
| Dibromochloromethane | <6.3 | | 6.3 | 0.72 | ug/Kg | ☼ | | 04/01/16 17:00 | 1 |
| 1,1-Dichloroethane | <6.3 | | 6.3 | 1.3 | ug/Kg | ☼ | | 04/01/16 17:00 | 1 |
| 1,2-Dichloroethane | <6.3 | | 6.3 | 0.93 | ug/Kg | ☼ | | 04/01/16 17:00 | 1 |
| 1,1-Dichloroethene | <6.3 | | 6.3 | 2.3 | ug/Kg | ☼ | | 04/01/16 17:00 | 1 |
| 1,2-Dichloropropane | <6.3 | | 6.3 | 1.6 | ug/Kg | ☼ | | 04/01/16 17:00 | 1 |
| 1,3-Dichloropropene, Total | <6.3 | | 6.3 | 1.8 | ug/Kg | ☼ | | 04/01/16 17:00 | 1 |
| Ethylbenzene | <6.3 | | 6.3 | 1.6 | ug/Kg | ☼ | | 04/01/16 17:00 | 1 |
| 2-Hexanone | <6.3 | | 6.3 | 1.9 | ug/Kg | ☼ | | 04/01/16 17:00 | 1 |
| Methylene Chloride | <6.3 | | 6.3 | 4.7 | ug/Kg | ☼ | | 04/01/16 17:00 | 1 |
| Methyl Ethyl Ketone | <6.3 | | 6.3 | 2.2 | ug/Kg | ☼ | | 04/01/16 17:00 | 1 |
| methyl isobutyl ketone | <6.3 | | 6.3 | 1.3 | ug/Kg | ☼ | | 04/01/16 17:00 | 1 |
| Methyl tert-butyl ether | <6.3 | | 6.3 | 1.5 | ug/Kg | ☼ | | 04/01/16 17:00 | 1 |
| Styrene | <6.3 | | 6.3 | 1.5 | ug/Kg | ☼ | | 04/01/16 17:00 | 1 |
| 1,1,2,2-Tetrachloroethane | <6.3 | | 6.3 | 0.99 | ug/Kg | ☼ | | 04/01/16 17:00 | 1 |
| Tetrachloroethene | <6.3 | | 6.3 | 1.3 | ug/Kg | ☼ | | 04/01/16 17:00 | 1 |
| Toluene | <6.3 | | 6.3 | 2.2 | ug/Kg | ☼ | | 04/01/16 17:00 | 1 |
| trans-1,2-Dichloroethene | <6.3 | | 6.3 | 1.6 | ug/Kg | ☼ | | 04/01/16 17:00 | 1 |
| trans-1,3-Dichloropropene | <6.3 | | 6.3 | 1.8 | ug/Kg | ☼ | | 04/01/16 17:00 | 1 |
| 1,1,1-Trichloroethane | <6.3 | | 6.3 | 1.5 | ug/Kg | ☼ | | 04/01/16 17:00 | 1 |
| 1,1,2-Trichloroethane | <6.3 | | 6.3 | 1.2 | ug/Kg | ☼ | | 04/01/16 17:00 | 1 |
| Trichloroethene | <6.3 | | 6.3 | 1.7 | ug/Kg | ☼ | | 04/01/16 17:00 | 1 |
| Vinyl chloride | <6.3 | | 6.3 | 1.5 | ug/Kg | ☼ | | 04/01/16 17:00 | 1 |
| Xylenes, Total | <13 | | 13 | 2.3 | ug/Kg | ☼ | | 04/01/16 17:00 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 106 | | 70 - 120 | | 04/01/16 17:00 | 1 |
| Dibromofluoromethane | 114 | | 75 - 120 | | 04/01/16 17:00 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 115 | | 69 - 134 | | 04/01/16 17:00 | 1 |
| Toluene-d8 (Surr) | 115 | | 75 - 123 | | 04/01/16 17:00 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,2,4-Trichlorobenzene | <200 | | 200 | 43 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:26 | 1 |
| 1,2-Dichlorobenzene | <200 | | 200 | 47 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:26 | 1 |
| 1,3-Dichlorobenzene | <200 | | 200 | 45 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:26 | 1 |
| 1,4-Dichlorobenzene | <200 | | 200 | 51 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:26 | 1 |
| 2,2'-oxybis[1-chloropropane] | <200 | | 200 | 46 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:26 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Client Sample ID: BB-1(5-10)-032916

Lab Sample ID: 500-109413-4

Date Collected: 03/29/16 09:00

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 79.9

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-------------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol | <390 | | 390 | 91 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:26 | 1 |
| 2,4,6-Trichlorophenol | <390 | | 390 | 140 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:26 | 1 |
| 2,4-Dichlorophenol | <390 | | 390 | 94 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:26 | 1 |
| 2,4-Dimethylphenol | <390 | | 390 | 150 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:26 | 1 |
| 2,4-Dinitrophenol | <800 | | 800 | 700 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:26 | 1 |
| 2,4-Dinitrotoluene | <200 | | 200 | 63 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:26 | 1 |
| 2,6-Dinitrotoluene | <200 | | 200 | 78 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:26 | 1 |
| 2-Chloronaphthalene | <200 | | 200 | 44 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:26 | 1 |
| 2-Chlorophenol | <200 | | 200 | 68 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:26 | 1 |
| 2-Methylnaphthalene | <39 | | 39 | 7.3 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:26 | 1 |
| 2-Methylphenol | <200 | | 200 | 64 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:26 | 1 |
| 2-Nitroaniline | <200 | | 200 | 53 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:26 | 1 |
| 2-Nitrophenol | <390 | | 390 | 94 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:26 | 1 |
| 3 & 4 Methylphenol | <200 | | 200 | 66 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:26 | 1 |
| 3,3'-Dichlorobenzidine | <200 | | 200 | 56 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:26 | 1 |
| 3-Nitroaniline | <390 | | 390 | 120 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:26 | 1 |
| 4,6-Dinitro-2-methylphenol | <800 | | 800 | 320 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:26 | 1 |
| 4-Bromophenyl phenyl ether | <200 | | 200 | 52 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:26 | 1 |
| 4-Chloro-3-methylphenol | <390 | | 390 | 140 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:26 | 1 |
| 4-Chloroaniline | <800 | | 800 | 190 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:26 | 1 |
| 4-Chlorophenyl phenyl ether | <200 | | 200 | 46 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:26 | 1 |
| 4-Nitroaniline | <390 | | 390 | 170 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:26 | 1 |
| 4-Nitrophenol | <800 | | 800 | 380 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:26 | 1 |
| Acenaphthene | <39 | | 39 | 7.1 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:26 | 1 |
| Acenaphthylene | <39 | | 39 | 5.2 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:26 | 1 |
| Anthracene | <39 | | 39 | 6.6 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:26 | 1 |
| Benzo[a]anthracene | 15 J | | 39 | 5.3 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:26 | 1 |
| Benzo[a]pyrene | 17 J | | 39 | 7.7 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:26 | 1 |
| Benzo[b]fluoranthene | 33 J | | 39 | 8.6 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:26 | 1 |
| Benzo[g,h,i]perylene | 22 J | | 39 | 13 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:26 | 1 |
| Benzo[k]fluoranthene | 13 J | | 39 | 12 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:26 | 1 |
| Bis(2-chloroethoxy)methane | <200 | | 200 | 41 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:26 | 1 |
| Bis(2-chloroethyl)ether | <200 | | 200 | 60 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:26 | 1 |
| Bis(2-ethylhexyl) phthalate | <200 | | 200 | 73 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:26 | 1 |
| Butyl benzyl phthalate | <200 | | 200 | 76 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:26 | 1 |
| Carbazole | <200 | | 200 | 99 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:26 | 1 |
| Chrysene | 29 J | | 39 | 11 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:26 | 1 |
| Dibenz(a,h)anthracene | <39 | | 39 | 7.7 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:26 | 1 |
| Dibenzofuran | <200 | | 200 | 46 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:26 | 1 |
| Diethyl phthalate | <200 | | 200 | 67 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:26 | 1 |
| Dimethyl phthalate | <200 | | 200 | 52 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:26 | 1 |
| Di-n-butyl phthalate | <200 | | 200 | 60 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:26 | 1 |
| Di-n-octyl phthalate | <200 | | 200 | 65 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:26 | 1 |
| Fluoranthene | 33 J | | 39 | 7.4 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:26 | 1 |
| Fluorene | <39 | | 39 | 5.6 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:26 | 1 |
| Hexachlorobenzene | <80 | | 80 | 9.2 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:26 | 1 |
| Hexachlorobutadiene | <200 | | 200 | 62 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:26 | 1 |
| Hexachlorocyclopentadiene | <800 | | 800 | 230 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:26 | 1 |
| Hexachloroethane | <200 | | 200 | 60 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:26 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Client Sample ID: BB-1(5-10)-032916

Lab Sample ID: 500-109413-4

Date Collected: 03/29/16 09:00

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 79.9

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|-----------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Indeno[1,2,3-cd]pyrene | <39 | | 39 | 10 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:26 | 1 |
| Isophorone | <200 | | 200 | 45 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:26 | 1 |
| Naphthalene | <39 | | 39 | 6.1 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:26 | 1 |
| Nitrobenzene | <39 | | 39 | 9.9 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:26 | 1 |
| N-Nitrosodi-n-propylamine | <80 | | 80 | 49 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:26 | 1 |
| N-Nitrosodiphenylamine | <200 | | 200 | 47 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:26 | 1 |
| Pentachlorophenol | <800 | | 800 | 640 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:26 | 1 |
| Phenanthrene | 69 | | 39 | 5.5 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:26 | 1 |
| Phenol | <200 | | 200 | 88 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:26 | 1 |
| Pyrene | 50 | | 39 | 7.9 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:26 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2,4,6-Tribromophenol | 57 | | 25 - 130 | 03/30/16 08:24 | 04/06/16 18:26 | 1 |
| 2-Fluorobiphenyl | 87 | | 42 - 115 | 03/30/16 08:24 | 04/06/16 18:26 | 1 |
| 2-Fluorophenol | 83 | | 40 - 130 | 03/30/16 08:24 | 04/06/16 18:26 | 1 |
| Nitrobenzene-d5 | 71 | | 33 - 124 | 03/30/16 08:24 | 04/06/16 18:26 | 1 |
| Phenol-d5 | 79 | | 36 - 123 | 03/30/16 08:24 | 04/06/16 18:26 | 1 |
| Terphenyl-d14 | 116 | | 25 - 150 | 03/30/16 08:24 | 04/06/16 18:26 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.050 | | 0.050 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 17:18 | 1 |
| Barium | 0.52 | | 0.50 | 0.050 | mg/L | | 04/01/16 14:34 | 04/02/16 17:18 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 04/01/16 14:34 | 04/02/16 17:18 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/01/16 14:34 | 04/02/16 17:18 | 1 |
| Chromium | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 17:18 | 1 |
| Cobalt | 0.013 | J | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 17:18 | 1 |
| Copper | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 17:18 | 1 |
| Iron | <0.40 | | 0.40 | 0.20 | mg/L | | 04/01/16 14:34 | 04/02/16 17:18 | 1 |
| Lead | <0.0075 | | 0.0075 | 0.0075 | mg/L | | 04/01/16 14:34 | 04/02/16 17:18 | 1 |
| Manganese | 3.9 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 17:18 | 1 |
| Nickel | 0.017 | J | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 17:18 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/01/16 14:34 | 04/02/16 17:18 | 1 |
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 17:18 | 1 |
| Zinc | 0.030 | J | 0.50 | 0.020 | mg/L | | 04/01/16 14:34 | 04/02/16 17:18 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.050 | | 0.050 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 19:47 | 1 |
| Barium | 0.058 | J | 0.50 | 0.050 | mg/L | | 04/01/16 14:17 | 04/02/16 19:47 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 04/01/16 14:17 | 04/02/16 19:47 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/01/16 14:17 | 04/02/16 19:47 | 1 |
| Chromium | 0.014 | J | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 19:47 | 1 |
| Cobalt | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 19:47 | 1 |
| Copper | 0.012 | J | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 19:47 | 1 |
| Iron | 13 | | 0.40 | 0.20 | mg/L | | 04/05/16 07:39 | 04/05/16 14:06 | 1 |
| Lead | 0.011 | | 0.0075 | 0.0075 | mg/L | | 04/01/16 14:17 | 04/02/16 19:47 | 1 |
| Manganese | 0.083 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 19:47 | 1 |
| Nickel | 0.011 | J | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 19:47 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/01/16 14:17 | 04/02/16 19:47 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Client Sample ID: BB-1(5-10)-032916

Lab Sample ID: 500-109413-4

Date Collected: 03/29/16 09:00

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 79.9

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|--------------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 19:47 | 1 |
| Zinc | 0.030 | J | 0.50 | 0.020 | mg/L | | 04/01/16 14:17 | 04/02/16 19:47 | 1 |

Method: 6010B - Total Metals

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | <1.2 | | 1.2 | 0.24 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:28 | 1 |
| Arsenic | 6.6 | | 0.58 | 0.27 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:28 | 1 |
| Barium | 41 | B | 0.58 | 0.11 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:28 | 1 |
| Beryllium | 0.66 | | 0.23 | 0.050 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:28 | 1 |
| Cadmium | <0.12 | | 0.12 | 0.033 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:28 | 1 |
| Calcium | 73000 | B | 120 | 37 | mg/Kg | ☼ | 03/31/16 09:19 | 04/02/16 21:42 | 10 |
| Chromium | 15 | | 0.58 | 0.099 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:28 | 1 |
| Cobalt | 12 | | 0.29 | 0.065 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:28 | 1 |
| Copper | 22 | | 0.58 | 0.13 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:28 | 1 |
| Iron | 19000 | | 12 | 4.5 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:28 | 1 |
| Lead | 21 | | 0.29 | 0.14 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:28 | 1 |
| Magnesium | 25000 | B | 5.8 | 2.3 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:28 | 1 |
| Manganese | 250 | | 0.58 | 0.11 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:28 | 1 |
| Nickel | 33 | | 0.58 | 0.16 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:28 | 1 |
| Potassium | 2100 | | 29 | 4.7 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:28 | 1 |
| Selenium | 0.55 | J | 0.58 | 0.29 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:28 | 1 |
| Silver | <0.29 | | 0.29 | 0.068 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:28 | 1 |
| Sodium | 780 | | 58 | 7.6 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:28 | 1 |
| Thallium | <0.58 | | 0.58 | 0.28 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:28 | 1 |
| Vanadium | 21 | | 0.29 | 0.084 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:28 | 1 |
| Zinc | 64 | | 1.2 | 0.37 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:28 | 1 |

Method: 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/01/16 15:45 | 04/04/16 13:25 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/01/16 15:45 | 04/04/16 12:25 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Mercury | 19 | | 19 | 10 | ug/Kg | ☼ | 03/30/16 16:15 | 03/31/16 09:55 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-------------|-----------|-------|-------|------|---|----------|----------------|---------|
| pH | 7.74 | | 0.200 | 0.200 | SU | | | 03/31/16 10:50 | 1 |

Definitions/Glossary

Client: Environmental Design International, Inc.
Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Qualifiers

GC/MS VOA

| Qualifier | Qualifier Description |
|-----------|--|
| F1 | MS and/or MSD Recovery is outside acceptance limits. |

GC/MS Semi VOA

| Qualifier | Qualifier Description |
|-----------|--|
| F2 | MS/MSD RPD exceeds control limits |
| F1 | MS and/or MSD Recovery is outside acceptance limits. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| E | Result exceeded calibration range. |
| X | Surrogate is outside control limits |

Metals

| Qualifier | Qualifier Description |
|-----------|--|
| F1 | MS and/or MSD Recovery is outside acceptance limits. |
| F2 | MS/MSD RPD exceeds control limits |
| B | Compound was found in the blank and sample. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| ^ | ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits. |
| F5 | Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL. |
| F3 | Duplicate RPD exceeds the control limit |
| 4 | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |

Glossary

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

Certification Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|-----------|---------|------------|------------------|-----------------|
| Illinois | NELAP | 5 | 100201 | 04-30-17 |

The following analytes are included in this report, but certification is not offered by the governing authority:

| Analysis Method | Prep Method | Matrix | Analyte |
|-----------------|-------------|--------|----------------------------|
| 8260B | | Solid | 1,3-Dichloropropene, Total |
| 8260B | 5030B | Solid | 1,3-Dichloropropene, Total |
| Moisture | | Solid | Percent Moisture |
| Moisture | | Solid | Percent Solids |

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To _____ (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

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

Chain of Custody Record

Lab Job #: 500-109413
 Chain of Custody Number: _____
 Page 1 of 3
 Temperature °C of Cooler: 4.7, 5.4

| Client | | Client Project # | | Preservative | | Parameter | | Matrix | | Comments | | |
|---------------|--------|------------------------|----------|---------------|-----------------|-----------|------|--------|--------------|---|----|----------|
| EDJ | | 0795-022 | | | | | | | | Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. I to 4° 4. Cool to 4° | | |
| Project Name | | Project Location/State | | Lab Project # | | Parameter | | Matrix | | Comments | | |
| IDOT - Harvey | | Harvey, IL | | | | | | | | | | |
| Sampler | | Lab PM | | | | | | | | | | |
| Celia Powers | | | | | | | | | | | | |
| Lab ID | MS/MSD | Sample ID | Sampling | | # of Containers | Matrix | VOCs | SVOCs | Total Metals | TCMP / SPCL Metals | pH | Comments |
| | | | Date | Time | | | | | | | | |
| 1 | | BB-2(0-4)-032916 | 3/24/16 | 0810 | 2 | S | X | X | X | X | X | |
| 2 | | BB-2(0-4)-032916D | | 0815 | | | | | | | | |
| 3 | | BB-1(0-5)-032916 | | 0855 | | | | | | | | |
| 4 | | BB-1(5-10)-032916 | | 0900 | | | | | | | | |
| 5 | | VL12-2(0-5)-032916 | | 0915 | | | | | | | | |
| 6 | | VL12-2(5-10)-032916 | | 0920 | | | | | | | | |
| 7 | | VL12-1(0-5)-032916 | | 0940 | | | | | | | | |
| 8 | | VL12-1(5-10)-032916 | | 0945 | | | | | | | | |
| 9 | | VL16-1(0-4)-032916 | | 1005 | | | | | | | | |
| 10 | | R17-2(0-5)-032916 | | 1025 | | | X | X | X | X | X | |

Turnaround Time Required (Business Days)

1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other

Requested Due Date _____

Sample Disposal

Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

| | | |
|--|---|------------------------|
| Relinquished By: <u>[Signature]</u> Company: <u>EDJ</u> Date: <u>3/24/16</u> Time: <u>1530</u> | Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/29/16</u> Time: <u>1530</u> | Lab Courier: <u>TA</u> |
| Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/29/16</u> Time: <u>1003</u> | Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>03/29/16</u> Time: <u>10:03</u> | Shipped: _____ |
| Relinquished By: _____ Company: _____ Date: _____ Time: _____ | Received By: _____ Company: _____ Date: _____ Time: _____ | Hand Delivered: _____ |

- Matrix Key
- WW - Wastewater
 - W - Water
 - S - Soil
 - SL - Sludge
 - MS - Miscellaneous
 - OL - Oil
 - A - Air
 - SE - Sediment
 - SO - Soil
 - L - Leachate
 - WI - Wipe
 - DW - Drinking Water
 - O - Other

Client Comments:

Lab Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

| | |
|----------------------------|--------------------------|
| Report To _____ (optional) | Bill To _____ (optional) |
| Contact: _____ | Contact: _____ |
| Company: _____ | Company: _____ |
| Address: _____ | Address: _____ |
| Address: _____ | Address: _____ |
| Phone: _____ | Phone: _____ |
| Fax: _____ | Fax: _____ |
| E-Mail: _____ | PO#/Reference# _____ |

Chain of Custody Record

Lab Job #: 500-109413
 Chain of Custody Number: _____
 Page 2 of 3
 Temperature °C of Cooler: 4.7, 5.4

| Client | | Client Project # | | Preservative | | Parameter | | | | | Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other | |
|------------------------|--------|-----------------------|---------|--------------|-----------------|-----------|------|-------|--------------|-------------------|---|----------|
| Project Name | | Lab Project # | | Parameter | | Parameter | | | | | | |
| Project Location/State | | Lab Project # | | Parameter | | Parameter | | | | | | |
| Sampler | | Lab PM | | Parameter | | Parameter | | | | | | |
| Lab ID | MS/MSD | Sample ID | Date | Time | # of Containers | Matrix | VOCs | SVOCs | Total Metals | Trace/Semi Metals | PH | Comments |
| 11 | | R17-2(5-10)-032916 | 3/29/16 | 1030 | 2 | S | X | X | X | X | X | |
| 12 | | R17-2(10-15)-032916 | | 1035 | | | | | | | | |
| 13 | | R17-2(10-15)-032916 D | | 1040 | | | | | | | | |
| 14 | | R17-1(0-4)-032916 | | 1100 | | | | | | | | |
| 15 | | R17-1(4-8)-032916 | | 1105 | | | | | | | | |
| 16 | | PM-1(0-4)-032916 | | 1215 | | | | | | | | |
| 17 | | PM-1(4-7)-032916 | | 1220 | | | | | | | | |
| 18 | | PM-2(0-4)-032916 | | 1235 | | | | | | | | |
| 19 | | PM-3(0-4)-032916 | | 1245 | | | | | | | | |
| 20 | | PM-3(0-4)-032916 D | X | 1250 | | | X | X | X | X | X | |

Turnaround Time Required (Business Days)
 1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other

Requested Due Date _____

Sample Disposal
 Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

| | | |
|--|---|------------------------|
| Relinquished By: <u>[Signature]</u> Company: <u>EDI</u> Date: <u>3/29/16</u> Time: <u>1530</u> | Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/29/16</u> Time: <u>1530</u> | Lab Courier: <u>TA</u> |
| Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/29/16</u> Time: <u>1603</u> | Received By: <u>[Signature]</u> Company: <u>TA-CHT</u> Date: <u>03/29/16</u> Time: <u>16:03</u> | Shipped: _____ |
| Relinquished By: _____ Company: _____ Date: _____ Time: _____ | Received By: _____ Company: _____ Date: _____ Time: _____ | Hand Delivered: _____ |

| | | |
|--|-----------------|---------------|
| <p>Matrix Key</p> <p>WW - Wastewater SE - Sediment W - Water SO - Soil S - Soil L - Leachate SL - Sludge WI - Wipe MS - Miscellaneous DW - Drinking Water OL - Oil O - Other A - Air</p> | Client Comments | Lab Comments: |
|--|-----------------|---------------|



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

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

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

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

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

I. Source Location Information

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

Project Name: FAU 3597: IL Route 1 (Halsted St) at Vincennes Rd Office Phone Number, if available: _____

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

320 E. 152nd Street, (ISGS Site No. 2553V-6)

City: Harvey State: IL Zip Code: _____

County: Cook Township: _____

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

Latitude: 41.61351944 Longitude: -87.63715833

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

- GPS Map Interpolation Photo Interpolation Survey Other

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

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

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

Project Name: FAU 3597: IL Route 1 (Halsted St) at VincennesLatitude: 41.61351944 Longitude: -87.63715833Uncontaminated Site Certification**III. Basis for Certification and Attachments**

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

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

LOCATION JS-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2553V-6. SEE FIGURE 3-1 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

- 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]:

TEST AMERICA REPORTS - JOB ID: 500-109355-1.
ALSO SEE FIGURE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

I, William F. Karlovitz, P.E. (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: Weston Solutions, Inc.
Street Address: 300 Circle Plaza; Suite 202
City: Mundelein State: IL Zip Code: 60060
Phone: (224) 864-7200

William F. Karlovitz, P.E.

Printed Name:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

17 MAY 2016

Date:



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

Summary Table of ISGS Site No. 2553V-6
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAU 3597: Illinois Route 1 (Halsted Street) at Vincennes Road
Harvey, Cook County, Illinois

| Field Sample ID | JS-1(0-4)-032816 | Soil Reference Concentrations^A |
|-----------------------------|------------------|--|
| Sample Date | 3/28/2016 | |
| Location ID | JS-1 | |
| Depth | 0 - 4 | |
| Lab Sample ID | 500-109355-1 | |
| ISGS Site No. | 2553V-6 | |
| Parameter | | |
| Laboratory pH | 8.57 | <6.25,>9.0 |
| VOCs (ug/kg) | None Detected | |
| SVOCs (ug/kg) | | |
| Benzo(a)anthracene | 8.1 J | 900 / 1100 / 1800 |
| Benzo(a)pyrene | 8.5 J | 90 / 1300 / 2100 |
| Benzo(b)fluoranthene | 16 J | 900 / 1500 / 2100 |
| Fluoranthene | 15 J | 3100000 |
| Phenanthrene | 7.3 J | --- |
| Pyrene | 13 J | 2300000 |
| Total Metals (mg/kg) | | |
| Arsenic, Total | 4.3 | 11.3 / 13.0 |
| Barium, Total | 51 J | 1500 |
| Beryllium, Total | 0.87 | 22 |
| Cadmium, Total | 0.15 J- | 5.2 |
| Calcium, Total | 2800 J | --- |
| Chromium, Total | 20 J- | 21 |
| Cobalt, Total | 13 J | 20 |
| Copper, Total | 27 | 2900 |
| Iron, Total | 18000 J- | 15000 / 15900 |
| Lead, Total | 21 J+ | 107 |
| Magnesium, Total | 4100 J | 325000 |
| Manganese, Total | 100 J | 630 / 636 |
| Mercury, Total | 0.023 | 0.89 |
| Nickel, Total | 37 J | 100 |
| Potassium, Total | 2100 J+ | --- |
| Selenium, Total | 0.52 J | 1.3 |
| Sodium, Total | 1300 J- | --- |
| Thallium, Total | 0.3 J | 2.6 |
| Vanadium, Total | 21 | 550 |
| Zinc, Total | 72 J- | 5100 |
| TCLP Metals (mg/l) | | |
| Arsenic, TCLP | ND | 0.05 |
| Barium, TCLP | 0.11 J | 2 |
| Beryllium, TCLP | ND | 0.004 |
| Cadmium, TCLP | ND | 0.005 |
| Chromium, TCLP | ND | 0.1 |
| Cobalt, TCLP | ND | 1 |
| Copper, TCLP | ND | 0.65 |
| Iron, TCLP | 1.2 | 5 |
| Lead, TCLP | ND | 0.0075 |
| Manganese, TCLP | 0.075 | 0.15 |
| Mercury, TCLP | ND | 0.002 |
| Nickel, TCLP | ND | 0.1 |
| Selenium, TCLP | ND | 0.05 |
| Zinc, TCLP | 0.68 | 5 |
| SPLP Metals (mg/l) | | |
| Arsenic, SPLP | 0.11 | 0.05 |
| Barium, SPLP | 0.76 | 2 |
| Beryllium, SPLP | 0.015 | 0.004 |
| Cadmium, SPLP | ND | 0.005 |
| Chromium, SPLP | 0.34 | 0.1 |
| Cobalt, SPLP | 0.15 | 1 |
| Copper, SPLP | 0.34 | 0.65 |
| Iron, SPLP | 340 J+ | 5 |
| Lead, SPLP | 0.3 | 0.0075 |
| Manganese, SPLP | 1 | 0.15 |
| Mercury, SPLP | 0.00031 | 0.002 |
| Nickel, SPLP | 0.43 | 0.1 |
| Selenium, SPLP | ND | 0.05 |
| Zinc, SPLP | 2.2 | 5 |

Summary Table of ISGS Site No. 2553V-6
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAU 3597: Illinois Route 1 (Halsted Street) at Vincennes Road
Harvey, Cook County, Illinois

Notes:

--- - not applicable or value not available.

^A - Soil reference concentrations from MAC Table. Background values for MSA Counties and Chicago corporate limits are included, as applicable.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J+ - Estimated concentration; biased high.

J- - Estimated concentration; biased low.

 Shaded values indicate concentration **exceeds** Reference Concentration.

TestAmerica

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ANALYTICAL REPORT

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

TestAmerica Job ID: 500-109355-1

Client Project/Site: IDOT - Harvey IL Route 113 - WO 041

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

Attn: Ms. Patricia Feeley



Authorized for release by:
4/5/2016 2:37:47 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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Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109355-1

Client Sample ID: JS-1(0-4)-032816

Lab Sample ID: 500-109355-1

Date Collected: 03/28/16 09:45

Matrix: Solid

Date Received: 03/28/16 15:45

Percent Solids: 79.3

Method: 8260B - VOC

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Acetone | <25 | | 25 | 4.9 | ug/Kg | ☼ | | 03/30/16 17:50 | 1 |
| Benzene | <6.3 | | 6.3 | 1.4 | ug/Kg | ☼ | | 03/30/16 17:50 | 1 |
| Bromodichloromethane | <6.3 | | 6.3 | 1.1 | ug/Kg | ☼ | | 03/30/16 17:50 | 1 |
| Bromoform | <6.3 | | 6.3 | 1.3 | ug/Kg | ☼ | | 03/30/16 17:50 | 1 |
| Bromomethane | <6.3 | | 6.3 | 2.3 | ug/Kg | ☼ | | 03/30/16 17:50 | 1 |
| Carbon disulfide | <6.3 | | 6.3 | 2.3 | ug/Kg | ☼ | | 03/30/16 17:50 | 1 |
| Carbon tetrachloride | <6.3 | | 6.3 | 1.3 | ug/Kg | ☼ | | 03/30/16 17:50 | 1 |
| Chlorobenzene | <6.3 | | 6.3 | 1.5 | ug/Kg | ☼ | | 03/30/16 17:50 | 1 |
| Chloroethane | <6.3 | | 6.3 | 2.6 | ug/Kg | ☼ | | 03/30/16 17:50 | 1 |
| Chloroform | <6.3 | | 6.3 | 1.2 | ug/Kg | ☼ | | 03/30/16 17:50 | 1 |
| Chloromethane | <6.3 | | 6.3 | 1.5 | ug/Kg | ☼ | | 03/30/16 17:50 | 1 |
| cis-1,2-Dichloroethene | <6.3 | | 6.3 | 1.3 | ug/Kg | ☼ | | 03/30/16 17:50 | 1 |
| cis-1,3-Dichloropropene | <6.3 | | 6.3 | 1.4 | ug/Kg | ☼ | | 03/30/16 17:50 | 1 |
| Dibromochloromethane | <6.3 | | 6.3 | 0.73 | ug/Kg | ☼ | | 03/30/16 17:50 | 1 |
| 1,1-Dichloroethane | <6.3 | | 6.3 | 1.3 | ug/Kg | ☼ | | 03/30/16 17:50 | 1 |
| 1,2-Dichloroethane | <6.3 | | 6.3 | 0.93 | ug/Kg | ☼ | | 03/30/16 17:50 | 1 |
| 1,1-Dichloroethene | <6.3 | | 6.3 | 2.3 | ug/Kg | ☼ | | 03/30/16 17:50 | 1 |
| 1,2-Dichloropropane | <6.3 | | 6.3 | 1.7 | ug/Kg | ☼ | | 03/30/16 17:50 | 1 |
| 1,3-Dichloropropene, Total | <6.3 | | 6.3 | 1.8 | ug/Kg | ☼ | | 03/30/16 17:50 | 1 |
| Ethylbenzene | <6.3 | | 6.3 | 1.6 | ug/Kg | ☼ | | 03/30/16 17:50 | 1 |
| 2-Hexanone | <6.3 | | 6.3 | 2.0 | ug/Kg | ☼ | | 03/30/16 17:50 | 1 |
| Methylene Chloride | <6.3 | | 6.3 | 4.8 | ug/Kg | ☼ | | 03/30/16 17:50 | 1 |
| Methyl Ethyl Ketone | <6.3 | | 6.3 | 2.2 | ug/Kg | ☼ | | 03/30/16 17:50 | 1 |
| methyl isobutyl ketone | <6.3 | | 6.3 | 1.3 | ug/Kg | ☼ | | 03/30/16 17:50 | 1 |
| Methyl tert-butyl ether | <6.3 | | 6.3 | 1.5 | ug/Kg | ☼ | | 03/30/16 17:50 | 1 |
| Styrene | <6.3 | | 6.3 | 1.5 | ug/Kg | ☼ | | 03/30/16 17:50 | 1 |
| 1,1,2,2-Tetrachloroethane | <6.3 | | 6.3 | 1.0 | ug/Kg | ☼ | | 03/30/16 17:50 | 1 |
| Tetrachloroethene | <6.3 | | 6.3 | 1.3 | ug/Kg | ☼ | | 03/30/16 17:50 | 1 |
| Toluene | <6.3 | | 6.3 | 2.2 | ug/Kg | ☼ | | 03/30/16 17:50 | 1 |
| trans-1,2-Dichloroethene | <6.3 | | 6.3 | 1.6 | ug/Kg | ☼ | | 03/30/16 17:50 | 1 |
| trans-1,3-Dichloropropene | <6.3 | | 6.3 | 1.8 | ug/Kg | ☼ | | 03/30/16 17:50 | 1 |
| 1,1,1-Trichloroethane | <6.3 | | 6.3 | 1.5 | ug/Kg | ☼ | | 03/30/16 17:50 | 1 |
| 1,1,2-Trichloroethane | <6.3 | | 6.3 | 1.2 | ug/Kg | ☼ | | 03/30/16 17:50 | 1 |
| Trichloroethene | <6.3 | | 6.3 | 1.7 | ug/Kg | ☼ | | 03/30/16 17:50 | 1 |
| Vinyl chloride | <6.3 | | 6.3 | 1.5 | ug/Kg | ☼ | | 03/30/16 17:50 | 1 |
| Xylenes, Total | <13 | | 13 | 2.3 | ug/Kg | ☼ | | 03/30/16 17:50 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 103 | | 70 - 120 | | 03/30/16 17:50 | 1 |
| Dibromofluoromethane | 104 | | 75 - 120 | | 03/30/16 17:50 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 107 | | 69 - 134 | | 03/30/16 17:50 | 1 |
| Toluene-d8 (Surr) | 116 | | 75 - 123 | | 03/30/16 17:50 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,2,4-Trichlorobenzene | <210 | | 210 | 45 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:33 | 1 |
| 1,2-Dichlorobenzene | <210 | | 210 | 50 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:33 | 1 |
| 1,3-Dichlorobenzene | <210 | | 210 | 47 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:33 | 1 |
| 1,4-Dichlorobenzene | <210 | | 210 | 53 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:33 | 1 |
| 2,2'-oxybis[1-chloropropane] | <210 | | 210 | 48 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:33 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109355-1

Client Sample ID: JS-1(0-4)-032816

Lab Sample ID: 500-109355-1

Date Collected: 03/28/16 09:45

Matrix: Solid

Date Received: 03/28/16 15:45

Percent Solids: 79.3

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|------------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol | <410 | F2 | 410 | 95 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:33 | 1 |
| 2,4,6-Trichlorophenol | <410 | | 410 | 140 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:33 | 1 |
| 2,4-Dichlorophenol | <410 | | 410 | 99 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:33 | 1 |
| 2,4-Dimethylphenol | <410 | | 410 | 160 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:33 | 1 |
| 2,4-Dinitrophenol | <840 | F1 | 840 | 730 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:33 | 1 |
| 2,4-Dinitrotoluene | <210 | | 210 | 66 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:33 | 1 |
| 2,6-Dinitrotoluene | <210 | | 210 | 82 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:33 | 1 |
| 2-Chloronaphthalene | <210 | | 210 | 46 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:33 | 1 |
| 2-Chlorophenol | <210 | F2 | 210 | 71 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:33 | 1 |
| 2-Methylnaphthalene | <41 | | 41 | 7.7 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:33 | 1 |
| 2-Methylphenol | <210 | F2 | 210 | 67 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:33 | 1 |
| 2-Nitroaniline | <210 | | 210 | 56 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:33 | 1 |
| 2-Nitrophenol | <410 | | 410 | 98 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:33 | 1 |
| 3 & 4 Methylphenol | <210 | | 210 | 69 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:33 | 1 |
| 3,3'-Dichlorobenzidine | <210 | F2 | 210 | 58 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:33 | 1 |
| 3-Nitroaniline | <410 | | 410 | 130 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:33 | 1 |
| 4,6-Dinitro-2-methylphenol | <840 | | 840 | 330 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:33 | 1 |
| 4-Bromophenyl phenyl ether | <210 | | 210 | 55 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:33 | 1 |
| 4-Chloro-3-methylphenol | <410 | F1 F2 | 410 | 140 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:33 | 1 |
| 4-Chloroaniline | <840 | | 840 | 200 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:33 | 1 |
| 4-Chlorophenyl phenyl ether | <210 | | 210 | 49 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:33 | 1 |
| 4-Nitroaniline | <410 | | 410 | 170 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:33 | 1 |
| 4-Nitrophenol | <840 | F2 | 840 | 400 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:33 | 1 |
| Acenaphthene | <41 | | 41 | 7.5 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:33 | 1 |
| Acenaphthylene | <41 | | 41 | 5.5 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:33 | 1 |
| Anthracene | <41 | | 41 | 7.0 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:33 | 1 |
| Benzo[a]anthracene | 8.1 | J | 41 | 5.6 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:33 | 1 |
| Benzo[a]pyrene | 8.5 | J | 41 | 8.1 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:33 | 1 |
| Benzo[b]fluoranthene | 16 | J | 41 | 9.0 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:33 | 1 |
| Benzo[g,h,i]perylene | <41 | F1 | 41 | 13 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:33 | 1 |
| Benzo[k]fluoranthene | <41 | | 41 | 12 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:33 | 1 |
| Bis(2-chloroethoxy)methane | <210 | | 210 | 42 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:33 | 1 |
| Bis(2-chloroethyl)ether | <210 | | 210 | 62 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:33 | 1 |
| Bis(2-ethylhexyl) phthalate | <210 | | 210 | 76 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:33 | 1 |
| Butyl benzyl phthalate | <210 | | 210 | 79 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:33 | 1 |
| Carbazole | <210 | | 210 | 100 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:33 | 1 |
| Chrysene | <41 | | 41 | 11 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:33 | 1 |
| Dibenz(a,h)anthracene | <41 | F1 | 41 | 8.0 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:33 | 1 |
| Dibenzofuran | <210 | | 210 | 49 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:33 | 1 |
| Diethyl phthalate | <210 | | 210 | 71 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:33 | 1 |
| Dimethyl phthalate | <210 | | 210 | 54 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:33 | 1 |
| Di-n-butyl phthalate | <210 | | 210 | 63 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:33 | 1 |
| Di-n-octyl phthalate | <210 | | 210 | 68 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:33 | 1 |
| Fluoranthene | 15 | J | 41 | 7.7 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:33 | 1 |
| Fluorene | <41 | | 41 | 5.9 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:33 | 1 |
| Hexachlorobenzene | <84 | | 84 | 9.7 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:33 | 1 |
| Hexachlorobutadiene | <210 | | 210 | 65 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:33 | 1 |
| Hexachlorocyclopentadiene | <840 | F1 | 840 | 240 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:33 | 1 |
| Hexachloroethane | <210 | | 210 | 63 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:33 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109355-1

Client Sample ID: JS-1(0-4)-032816

Lab Sample ID: 500-109355-1

Date Collected: 03/28/16 09:45

Matrix: Solid

Date Received: 03/28/16 15:45

Percent Solids: 79.3

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|------------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Indeno[1,2,3-cd]pyrene | <41 | | 41 | 11 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:33 | 1 |
| Isophorone | <210 | | 210 | 47 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:33 | 1 |
| Naphthalene | <41 | | 41 | 6.4 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:33 | 1 |
| Nitrobenzene | <41 | | 41 | 10 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:33 | 1 |
| N-Nitrosodi-n-propylamine | <84 | | 84 | 51 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:33 | 1 |
| N-Nitrosodiphenylamine | <210 | | 210 | 49 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:33 | 1 |
| Pentachlorophenol | <840 | | 840 | 670 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:33 | 1 |
| Phenanthrene | 7.3 | J | 41 | 5.8 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:33 | 1 |
| Phenol | <210 | | 210 | 93 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:33 | 1 |
| Pyrene | 13 | J | 41 | 8.3 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 14:33 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2,4,6-Tribromophenol | 71 | | 25 - 130 | | | | 03/29/16 08:11 | 04/01/16 14:33 | 1 |
| 2-Fluorobiphenyl | 75 | | 42 - 115 | | | | 03/29/16 08:11 | 04/01/16 14:33 | 1 |
| 2-Fluorophenol | 73 | | 40 - 130 | | | | 03/29/16 08:11 | 04/01/16 14:33 | 1 |
| Nitrobenzene-d5 | 61 | | 33 - 124 | | | | 03/29/16 08:11 | 04/01/16 14:33 | 1 |
| Phenol-d5 | 54 | | 36 - 123 | | | | 03/29/16 08:11 | 04/01/16 14:33 | 1 |
| Terphenyl-d14 | 77 | | 25 - 150 | | | | 03/29/16 08:11 | 04/01/16 14:33 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.050 | | 0.050 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 14:32 | 1 |
| Barium | 0.11 | J | 0.50 | 0.050 | mg/L | | 03/31/16 15:12 | 04/01/16 14:32 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 03/31/16 15:12 | 04/01/16 14:32 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 03/31/16 15:12 | 04/01/16 14:32 | 1 |
| Chromium | <0.025 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 14:32 | 1 |
| Cobalt | <0.025 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 14:32 | 1 |
| Copper | <0.025 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 14:32 | 1 |
| Iron | 1.2 | | 0.40 | 0.20 | mg/L | | 03/31/16 15:12 | 04/01/16 14:32 | 1 |
| Lead | <0.0075 | | 0.0075 | 0.0075 | mg/L | | 03/31/16 15:12 | 04/01/16 14:32 | 1 |
| Manganese | 0.075 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 14:32 | 1 |
| Nickel | <0.025 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 14:32 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 03/31/16 15:12 | 04/01/16 14:32 | 1 |
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 14:32 | 1 |
| Zinc | 0.68 | | 0.50 | 0.020 | mg/L | | 03/31/16 15:12 | 04/01/16 14:32 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.11 | | 0.050 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 16:23 | 1 |
| Barium | 0.76 | | 0.50 | 0.050 | mg/L | | 03/30/16 15:14 | 03/31/16 16:23 | 1 |
| Beryllium | 0.015 | | 0.0040 | 0.0040 | mg/L | | 03/30/16 15:14 | 03/31/16 16:23 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 03/30/16 15:14 | 03/31/16 16:23 | 1 |
| Chromium | 0.34 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 16:23 | 1 |
| Cobalt | 0.15 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 16:23 | 1 |
| Copper | 0.34 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 16:23 | 1 |
| Iron | 340 | | 0.40 | 0.20 | mg/L | | 03/30/16 15:14 | 03/31/16 16:23 | 1 |
| Lead | 0.30 | | 0.0075 | 0.0075 | mg/L | | 03/30/16 15:14 | 03/31/16 16:23 | 1 |
| Manganese | 1.0 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 16:23 | 1 |
| Nickel | 0.43 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 16:23 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 03/30/16 15:14 | 03/31/16 16:23 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109355-1

Client Sample ID: JS-1(0-4)-032816

Lab Sample ID: 500-109355-1

Date Collected: 03/28/16 09:45

Matrix: Solid

Date Received: 03/28/16 15:45

Percent Solids: 79.3

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|------------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 16:23 | 1 |
| Zinc | 2.2 | | 0.50 | 0.020 | mg/L | | 03/30/16 15:14 | 04/01/16 14:11 | 1 |

Method: 6010B - Total Metals

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | <1.2 | | 1.2 | 0.25 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:13 | 1 |
| Arsenic | 4.3 | | 0.59 | 0.27 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:13 | 1 |
| Barium | 51 | | 0.59 | 0.11 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:13 | 1 |
| Beryllium | 0.87 | | 0.24 | 0.051 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:13 | 1 |
| Cadmium | 0.15 | | 0.12 | 0.034 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:13 | 1 |
| Calcium | 2800 | B | 12 | 3.8 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:13 | 1 |
| Chromium | 20 | | 0.59 | 0.10 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:13 | 1 |
| Cobalt | 13 | | 0.30 | 0.067 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:13 | 1 |
| Copper | 27 | | 0.59 | 0.13 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:13 | 1 |
| Iron | 18000 | B | 12 | 4.6 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:13 | 1 |
| Lead | 21 | | 0.30 | 0.15 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:13 | 1 |
| Magnesium | 4100 | | 5.9 | 2.4 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:13 | 1 |
| Manganese | 100 | | 0.59 | 0.12 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:13 | 1 |
| Nickel | 37 | | 0.59 | 0.16 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:13 | 1 |
| Potassium | 2100 | B | 30 | 4.8 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:13 | 1 |
| Selenium | 0.52 | J | 0.59 | 0.29 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:13 | 1 |
| Silver | <0.30 | | 0.30 | 0.069 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:13 | 1 |
| Sodium | 1300 | B | 59 | 7.8 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:13 | 1 |
| Thallium | 0.30 | J | 0.59 | 0.29 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:13 | 1 |
| Vanadium | 21 | | 0.30 | 0.086 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:13 | 1 |
| Zinc | 72 | | 1.2 | 0.37 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 17:13 | 1 |

Method: 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 03/31/16 13:40 | 04/01/16 10:20 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|-------------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | 0.31 | | 0.20 | 0.20 | ug/L | | 03/30/16 13:30 | 04/04/16 14:21 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Mercury | 23 | | 20 | 11 | ug/Kg | ☼ | 03/29/16 16:30 | 03/30/16 09:35 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-------------|-----------|-------|-------|------|---|----------|----------------|---------|
| pH | 8.57 | | 0.200 | 0.200 | SU | | | 03/30/16 15:28 | 1 |

Definitions/Glossary

Client: Environmental Design International, Inc.
Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109355-1

Qualifiers

GC/MS VOA

| Qualifier | Qualifier Description |
|-----------|--|
| F1 | MS and/or MSD Recovery is outside acceptance limits. |

GC/MS Semi VOA

| Qualifier | Qualifier Description |
|-----------|--|
| F2 | MS/MSD RPD exceeds control limits |
| F1 | MS and/or MSD Recovery is outside acceptance limits. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

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. |
| F5 | Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL. |
| F2 | MS/MSD RPD exceeds control limits |
| F1 | MS and/or MSD Recovery is outside acceptance limits. |
| F3 | Duplicate RPD exceeds the control limit |
| 4 | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |
| ^ | ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits. |

Glossary

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

Certification Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109355-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|-----------|---------|------------|------------------|-----------------|
| Illinois | NELAP | 5 | 100201 | 04-30-17 |

The following analytes are included in this report, but certification is not offered by the governing authority:

| Analysis Method | Prep Method | Matrix | Analyte |
|-----------------|-------------|--------|----------------------------|
| 8260B | | Solid | 1,3-Dichloropropene, Total |
| Moisture | | Solid | Percent Moisture |
| Moisture | | Solid | Percent Solids |

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

Bill To (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 PO#/Reference# 500-109355 COC

Chain of Custody Record

Lab Job #: 500-109355

Chain of Custody Number: _____

Page 1 of 2

Temperature °C of Cooler: 4.5



| Client | | Client Project # | | Preservative | | Parameter | | Matrix | | Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other | |
|--------------|--------|-----------------------|---------|--------------|---|-----------------|---|--------|----------|---|---|
| Project Name | | Lab Project # | | Sampling | | # of Containers | | Matrix | | | |
| Lab ID | MS/MSD | Sample ID | Date | Time | | | | | Comments | | |
| EDF | | 0295.022 | | | | | | | | | |
| IDOT Harvey | | | | | | | | | | | |
| Harvey IL | | | | | | | | | | | |
| Celia Penner | | | | | | | | | | | |
| | | | | | | | | | | | |
| 1 | | JS-1(0-4)-032816 | 3/26/16 | 0945 | 2 | S | X | X | X | X | X |
| 2 | | VLI-1(0-5)-032816 | | 1010 | | | X | X | X | X | X |
| 3 | | VLI-1(5-10)-032816 | | 1015 | | | X | X | X | X | X |
| 4 | | VLI-1(10-13.5)-032816 | | 1020 | | | X | X | X | X | X |
| 5 | | VLI-2(0-5)-032816 | | 1045 | | | X | X | X | X | X |
| 6 | | VLI-2(5-10)-032816 | | 1050 | | | X | X | X | X | X |
| 7 | | VLI-2(10-13.5)-032816 | | 1055 | | | X | X | X | X | X |
| 8 | | R7-1(0-4)-032816 | | 1110 | | | X | X | X | X | X |
| 9 | | R7-2(0-5)-032816 | | 1135 | | | X | X | X | X | X |
| 10 | | R7-2(5-10)-032816 | | 1140 | | | X | X | X | X | X |

Turnaround Time Required (Business Days)

1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other

Sample Disposal

Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

| | | | | | | | |
|--------------------|---------|---------|------|--------------------|---------|----------|------|
| Relinquished By | Company | Date | Time | Received By | Company | Date | Time |
| <i>[Signature]</i> | EDF | 3/26/16 | 1500 | <i>[Signature]</i> | TA | 3/28/16 | 1500 |
| Relinquished By | Company | Date | Time | Received By | Company | Date | Time |
| <i>[Signature]</i> | TA | 3/26/16 | 1545 | <i>[Signature]</i> | TAL | 03/28/16 | 1545 |
| Relinquished By | Company | Date | Time | Received By | Company | Date | Time |

Lab Courier:

Shipped: _____

Hand Delivered: _____

Matrix Key
 WW - Wastewater SE - Sediment
 W - Water SO - Soil
 S - Soil L - Leachate
 SL - Sludge WI - Wipe
 MS - Miscellaneous DW - Drinking Water
 OL - Oil O - Other
 A - Air

Client Comments

Lab Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

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

Chain of Custody Record

Lab Job #: 500-109355
 Chain of Custody Number: _____
 Page 2 of 2
 Temperature °C of Cooler: 4.5

| Client | | Client Project # | | Preservative | | | | | | | Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other | |
|------------------------|--------|---------------------|---------|--------------|-----------------|--------|------|-------|--------------|-----------------|---|----------|
| Project Name | | Lab Project # | | Parameter | | | | | | | | |
| Project Location/State | | Lab PM | | | | | | | | | | |
| Sampler | | | | | | | | | | | | |
| Lab ID | MS/MSD | Sample ID | Date | Time | # of Containers | Matrix | VOCs | SVOCs | Total Metals | TEC/SPEC metals | pH | Comments |
| 11 | | R7-3(0-5)-032816 | 3/28/16 | 1210 | 2 | S | X | X | X | X | X | |
| 12 | | R7-3(5-8)-032816 | | 1215 | | | | | | | | |
| 13 | | R7-3(5-8)-032816 D | | 1220 | | | | | | | | |
| 14 | | CB8-1(0-6.8)-032816 | | 1250 | | | | | | | | |
| 15 | | CB8-2(0-4)-032816 | | 1305 | | | | | | | | |
| 16 | | CB8-3(0-4)-032816 | | 1320 | | | | | | | | |
| 17 | | CB8-4(0-4)-032816 | | 1340 | | | | | | | | |
| 18 | | CB8-5(0-4)-032816 | | 1400 | | | | | | | | |
| 19 | | CB8-6(0-6.8)-032816 | | 1415 | | | | | | | | |
| 20 | | CB8-7(0-6.8)-032816 | | 1430 | | | X | X | X | X | X | |

Turnaround Time Required (Business Days)

___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days ___ Other

Requested Due Date _____

Sample Disposal

Return to Client Disposal by Lab Archive for ___ Months (A fee may be assessed if samples are retained longer than 1 month)

| | | |
|--|---|--|
| Relinquished By: <u>[Signature]</u> Company: <u>EDJ</u> Date: <u>3/28/16</u> Time: <u>1500</u> | Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/28/16</u> Time: <u>1500</u> | Lab Courier: <input checked="" type="checkbox"/> |
| Relinquished By: <u>[Signature]</u> Company: <u>[Signature]</u> Date: <u>3/28/16</u> Time: <u>1545</u> | Received By: <u>[Signature]</u> Company: <u>TAL</u> Date: <u>03/28/16</u> Time: <u>1545</u> | Shipped: <input type="checkbox"/> |
| Relinquished By: _____ Company: _____ Date: _____ Time: _____ | Received By: _____ Company: _____ Date: _____ Time: _____ | Hand Delivered: <input type="checkbox"/> |

Matrix Key

WW - Wastewater SE - Sediment
 W - Water SO - Soil
 S - Soil L - Leachate
 SL - Sludge WI - Wipe
 MS - Miscellaneous DW - Drinking Water
 OL - Oil O - Other
 A - Air

Client Comments

Lab Comments:



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

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

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

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

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

I. Source Location Information

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

Project Name: FAU 3597: IL Route 1 (Halsted St) at Vincennes Rd Office Phone Number, if available: _____

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

430 E. 152nd Street, (ISGS Site No. 2553V-7)

City: Harvey State: IL Zip Code: _____

County: Cook Township: _____

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

Latitude: 41.61319722 Longitude: -87.63669167

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

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

Project Name: FAU 3597: IL Route 1 (Halsted St) at Vincennes **R+**

Latitude: 41.61319722 Longitude: -87.63669167

Uncontaminated Site Certification

III. Basis for Certification and Attachments

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

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

LOCATION R7-3 WAS SAMPLED ADJACENT TO ISGS SITE No. 2553V-7. SEE FIGURE 3-1 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

- 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]:

TEST AMERICA REPORTS - JOB ID: 500-109355-1.
ALSO SEE FIGURE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

I, William F. Karlovitz, P.E. (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: Weston Solutions, Inc.
 Street Address: 300 Circle Plaza; Suite 202
 City: Mundelein State: IL Zip Code: 60060
 Phone: (224) 864-7200

William F. Karlovitz, P.E.
 Printed Name:

William F. Karlovitz
 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

17 MAY 2016
 Date:



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

Summary Table of ISGS Site No. 2553V-7
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAU 3597: Illinois Route 1 (Halsted Street) at Vincennes Road
Harvey, Cook County, Illinois

| Field Sample ID | R7-3(0-5)-032816 | R7-3(5-8)-032816 | R7-3(5-8)-032816D | Soil Reference Concentrations ^A |
|-----------------------------|------------------|------------------|-------------------|--|
| Sample Date | 3/28/2016 | 3/28/2016 | 3/28/2016 | |
| Location ID | R7-3 | R7-3 | R7-3 | |
| Depth | 0 - 5 | 5 - 8 | 5 - 8 | |
| Lab Sample ID | 500-109355-11 | 500-109355-12 | 500-109355-13 | |
| ISGS Site No. | 2553V-7 | 2553V-7 | 2553V-7 | |
| Parameter | | | | |
| Laboratory pH | 8.67 | 8.25 | 8.69 | <6.25,>9.0 |
| VOCs (ug/kg) | None Detected | | | |
| SVOCs (ug/kg) | | | | |
| 2-Methylnaphthalene | ND | 8.4 J | ND | --- |
| Benzo(a)anthracene | 5.6 J | ND | ND | 900 / 1100 / 1800 |
| Benzo(b)fluoranthene | 8.8 J | ND | ND | 900 / 1500 / 2100 |
| Fluoranthene | 10 J | ND | ND | 3100000 |
| Phenanthrene | 7.7 J | 18 J | 12 J | --- |
| Pyrene | 12 J | 8.9 J | 11 J | 2300000 |
| Total Metals (mg/kg) | | | | |
| Arsenic, Total | 7.9 | 7.8 | 5.3 | 11.3 / 13.0 |
| Barium, Total | 37 J | 69 J | 36 J | 1500 |
| Beryllium, Total | 0.81 | 0.74 | 0.69 | 22 |
| Cadmium, Total | ND | ND | 0.087 J | 5.2 |
| Calcium, Total | 11000 J | 68000 J | 61000 J | --- |
| Chromium, Total | 19 J- | 16 J- | 17 J- | 21 |
| Cobalt, Total | 11 J | 23 J | 12 J | 20 |
| Copper, Total | 28 | 25 | 22 | 2900 |
| Iron, Total | 22000 J- | 22000 J- | 19000 J- | 15000 / 15900 |
| Lead, Total | 19 J+ | 15 J+ | 13 J+ | 107 |
| Magnesium, Total | 10000 J | 21000 J | 20000 J | 325000 |
| Manganese, Total | 140 J | 490 J | 230 J | 630 / 636 |
| Mercury, Total | 0.017 J | 0.013 J | 0.011 J | 0.89 |
| Nickel, Total | 34 J | 39 J | 33 J | 100 |
| Potassium, Total | 2500 J+ | 2700 J+ | 2700 J+ | --- |
| Selenium, Total | 0.64 J- | 0.64 J- | 0.46 J | 1.3 |
| Sodium, Total | 640 J- | 270 J- | 260 J- | --- |
| Thallium, Total | 0.32 J | ND | 0.29 J | 2.6 |
| Vanadium, Total | 24 | 19 | 19 | 550 |
| Zinc, Total | 67 J- | 56 J- | 56 J- | 5100 |
| TCLP Metals (mg/l) | | | | |
| Arsenic, TCLP | ND | ND | ND | 0.05 |
| Barium, TCLP | 0.21 J | 0.34 J | 0.32 J | 2 |
| Beryllium, TCLP | ND | ND | ND | 0.004 |
| Cadmium, TCLP | ND | ND | ND | 0.005 |
| Chromium, TCLP | ND | ND | ND | 0.1 |
| Cobalt, TCLP | ND | ND | ND | 1 |
| Copper, TCLP | ND | ND | ND | 0.65 |
| Iron, TCLP | 0.2 J | ND | ND | 5 |
| Lead, TCLP | ND | ND | ND | 0.0075 |
| Manganese, TCLP | 0.43 | 0.87 | 0.95 | 0.15 |
| Mercury, TCLP | ND | ND | ND | 0.002 |
| Nickel, TCLP | ND | ND | ND | 0.1 |
| Selenium, TCLP | ND | ND | ND | 0.05 |
| Zinc, TCLP | 2.1 | 0.11 J | 1.5 J | 5 |
| SPLP Metals (mg/l) | | | | |
| Arsenic, SPLP | 0.11 | ND | ND | 0.05 |
| Barium, SPLP | 0.84 | ND | ND | 2 |
| Beryllium, SPLP | 0.016 | ND | ND | 0.004 |
| Cadmium, SPLP | ND | ND | ND | 0.005 |
| Chromium, SPLP | 0.37 | ND | ND | 0.1 |
| Cobalt, SPLP | 0.15 | ND | ND | 1 |
| Copper, SPLP | 0.33 | ND | ND | 0.65 |
| Iron, SPLP | 340 J+ | 1 J+ | 1.4 J+ | 5 |
| Lead, SPLP | 0.26 | ND | ND | 0.0075 |
| Manganese, SPLP | 1.1 | ND | ND | 0.15 |
| Mercury, SPLP | 0.00033 | ND | ND | 0.002 |
| Nickel, SPLP | 0.45 | ND | ND | 0.1 |
| Selenium, SPLP | ND | ND | ND | 0.05 |
| Zinc, SPLP | 1.9 | 0.51 | 0.36 J | 5 |

Summary Table of ISGS Site No. 2553V-7
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAU 3597: Illinois Route 1 (Halsted Street) at Vincennes Road
Harvey, Cook County, Illinois

Notes:

--- - not applicable or value not available.


^A - Soil reference concentrations from MAC Table. Background values for MSA Counties and Chicago corporate limits are included, as applicable.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J+ - Estimated concentration; biased high.

J- - Estimated concentration; biased low.

 Shaded values indicate concentration **exceeds** Reference Concentration.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-109355-1

Client Project/Site: IDOT - Harvey IL Route 113 - WO 041

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

Attn: Ms. Patricia Feeley



Authorized for release by:
4/5/2016 2:37:47 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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Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109355-1

Client Sample ID: R7-3(0-5)-032816

Lab Sample ID: 500-109355-11

Date Collected: 03/28/16 12:10

Matrix: Solid

Date Received: 03/28/16 15:45

Percent Solids: 80.8

Method: 8260B - VOC

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Acetone | <25 | | 25 | 4.8 | ug/Kg | ☼ | | 03/31/16 13:30 | 1 |
| Benzene | <6.2 | | 6.2 | 1.4 | ug/Kg | ☼ | | 03/31/16 13:30 | 1 |
| Bromodichloromethane | <6.2 | | 6.2 | 1.0 | ug/Kg | ☼ | | 03/31/16 13:30 | 1 |
| Bromoform | <6.2 | | 6.2 | 1.3 | ug/Kg | ☼ | | 03/31/16 13:30 | 1 |
| Bromomethane | <6.2 | | 6.2 | 2.3 | ug/Kg | ☼ | | 03/31/16 13:30 | 1 |
| Carbon disulfide | <6.2 | | 6.2 | 2.3 | ug/Kg | ☼ | | 03/31/16 13:30 | 1 |
| Carbon tetrachloride | <6.2 | | 6.2 | 1.3 | ug/Kg | ☼ | | 03/31/16 13:30 | 1 |
| Chlorobenzene | <6.2 | | 6.2 | 1.5 | ug/Kg | ☼ | | 03/31/16 13:30 | 1 |
| Chloroethane | <6.2 | | 6.2 | 2.6 | ug/Kg | ☼ | | 03/31/16 13:30 | 1 |
| Chloroform | <6.2 | | 6.2 | 1.2 | ug/Kg | ☼ | | 03/31/16 13:30 | 1 |
| Chloromethane | <6.2 | | 6.2 | 1.5 | ug/Kg | ☼ | | 03/31/16 13:30 | 1 |
| cis-1,2-Dichloroethene | <6.2 | | 6.2 | 1.3 | ug/Kg | ☼ | | 03/31/16 13:30 | 1 |
| cis-1,3-Dichloropropene | <6.2 | | 6.2 | 1.4 | ug/Kg | ☼ | | 03/31/16 13:30 | 1 |
| Dibromochloromethane | <6.2 | | 6.2 | 0.71 | ug/Kg | ☼ | | 03/31/16 13:30 | 1 |
| 1,1-Dichloroethane | <6.2 | | 6.2 | 1.3 | ug/Kg | ☼ | | 03/31/16 13:30 | 1 |
| 1,2-Dichloroethane | <6.2 | | 6.2 | 0.92 | ug/Kg | ☼ | | 03/31/16 13:30 | 1 |
| 1,1-Dichloroethene | <6.2 | | 6.2 | 2.3 | ug/Kg | ☼ | | 03/31/16 13:30 | 1 |
| 1,2-Dichloropropane | <6.2 | | 6.2 | 1.6 | ug/Kg | ☼ | | 03/31/16 13:30 | 1 |
| 1,3-Dichloropropene, Total | <6.2 | | 6.2 | 1.7 | ug/Kg | ☼ | | 03/31/16 13:30 | 1 |
| Ethylbenzene | <6.2 | | 6.2 | 1.5 | ug/Kg | ☼ | | 03/31/16 13:30 | 1 |
| 2-Hexanone | <6.2 | | 6.2 | 1.9 | ug/Kg | ☼ | | 03/31/16 13:30 | 1 |
| Methylene Chloride | <6.2 | | 6.2 | 4.7 | ug/Kg | ☼ | | 03/31/16 13:30 | 1 |
| Methyl Ethyl Ketone | <6.2 | | 6.2 | 2.2 | ug/Kg | ☼ | | 03/31/16 13:30 | 1 |
| methyl isobutyl ketone | <6.2 | | 6.2 | 1.3 | ug/Kg | ☼ | | 03/31/16 13:30 | 1 |
| Methyl tert-butyl ether | <6.2 | | 6.2 | 1.5 | ug/Kg | ☼ | | 03/31/16 13:30 | 1 |
| Styrene | <6.2 | | 6.2 | 1.4 | ug/Kg | ☼ | | 03/31/16 13:30 | 1 |
| 1,1,1,2-Tetrachloroethane | <6.2 | | 6.2 | 0.98 | ug/Kg | ☼ | | 03/31/16 13:30 | 1 |
| Tetrachloroethene | <6.2 | | 6.2 | 1.3 | ug/Kg | ☼ | | 03/31/16 13:30 | 1 |
| Toluene | <6.2 | | 6.2 | 2.2 | ug/Kg | ☼ | | 03/31/16 13:30 | 1 |
| trans-1,2-Dichloroethene | <6.2 | | 6.2 | 1.5 | ug/Kg | ☼ | | 03/31/16 13:30 | 1 |
| trans-1,3-Dichloropropene | <6.2 | | 6.2 | 1.7 | ug/Kg | ☼ | | 03/31/16 13:30 | 1 |
| 1,1,1-Trichloroethane | <6.2 | | 6.2 | 1.4 | ug/Kg | ☼ | | 03/31/16 13:30 | 1 |
| 1,1,2-Trichloroethane | <6.2 | | 6.2 | 1.2 | ug/Kg | ☼ | | 03/31/16 13:30 | 1 |
| Trichloroethene | <6.2 | | 6.2 | 1.7 | ug/Kg | ☼ | | 03/31/16 13:30 | 1 |
| Vinyl chloride | <6.2 | | 6.2 | 1.5 | ug/Kg | ☼ | | 03/31/16 13:30 | 1 |
| Xylenes, Total | <12 | | 12 | 2.3 | ug/Kg | ☼ | | 03/31/16 13:30 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 106 | | 70 - 120 | | 03/31/16 13:30 | 1 |
| Dibromofluoromethane | 112 | | 75 - 120 | | 03/31/16 13:30 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 113 | | 69 - 134 | | 03/31/16 13:30 | 1 |
| Toluene-d8 (Surr) | 115 | | 75 - 123 | | 03/31/16 13:30 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,2,4-Trichlorobenzene | <200 | | 200 | 43 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 18:45 | 1 |
| 1,2-Dichlorobenzene | <200 | | 200 | 47 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 18:45 | 1 |
| 1,3-Dichlorobenzene | <200 | | 200 | 45 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 18:45 | 1 |
| 1,4-Dichlorobenzene | <200 | | 200 | 51 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 18:45 | 1 |
| 2,2'-oxybis[1-chloropropane] | <200 | | 200 | 46 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 18:45 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109355-1

Client Sample ID: R7-3(0-5)-032816

Lab Sample ID: 500-109355-11

Date Collected: 03/28/16 12:10

Matrix: Solid

Date Received: 03/28/16 15:45

Percent Solids: 80.8

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol | <390 | | 390 | 90 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 18:45 | 1 |
| 2,4,6-Trichlorophenol | <390 | | 390 | 140 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 18:45 | 1 |
| 2,4-Dichlorophenol | <390 | | 390 | 94 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 18:45 | 1 |
| 2,4-Dimethylphenol | <390 | | 390 | 150 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 18:45 | 1 |
| 2,4-Dinitrophenol | <800 | | 800 | 700 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 18:45 | 1 |
| 2,4-Dinitrotoluene | <200 | | 200 | 63 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 18:45 | 1 |
| 2,6-Dinitrotoluene | <200 | | 200 | 78 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 18:45 | 1 |
| 2-Chloronaphthalene | <200 | | 200 | 44 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 18:45 | 1 |
| 2-Chlorophenol | <200 | | 200 | 68 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 18:45 | 1 |
| 2-Methylnaphthalene | <39 | | 39 | 7.3 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 18:45 | 1 |
| 2-Methylphenol | <200 | | 200 | 63 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 18:45 | 1 |
| 2-Nitroaniline | <200 | | 200 | 53 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 18:45 | 1 |
| 2-Nitrophenol | <390 | | 390 | 93 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 18:45 | 1 |
| 3 & 4 Methylphenol | <200 | | 200 | 66 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 18:45 | 1 |
| 3,3'-Dichlorobenzidine | <200 | | 200 | 55 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 18:45 | 1 |
| 3-Nitroaniline | <390 | | 390 | 120 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 18:45 | 1 |
| 4,6-Dinitro-2-methylphenol | <800 | | 800 | 320 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 18:45 | 1 |
| 4-Bromophenyl phenyl ether | <200 | | 200 | 52 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 18:45 | 1 |
| 4-Chloro-3-methylphenol | <390 | | 390 | 130 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 18:45 | 1 |
| 4-Chloroaniline | <800 | | 800 | 190 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 18:45 | 1 |
| 4-Chlorophenyl phenyl ether | <200 | | 200 | 46 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 18:45 | 1 |
| 4-Nitroaniline | <390 | | 390 | 170 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 18:45 | 1 |
| 4-Nitrophenol | <800 | | 800 | 380 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 18:45 | 1 |
| Acenaphthene | <39 | | 39 | 7.1 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 18:45 | 1 |
| Acenaphthylene | <39 | | 39 | 5.2 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 18:45 | 1 |
| Anthracene | <39 | | 39 | 6.6 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 18:45 | 1 |
| Benzo[a]anthracene | 5.6 J | | 39 | 5.3 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 18:45 | 1 |
| Benzo[a]pyrene | <39 | | 39 | 7.7 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 18:45 | 1 |
| Benzo[b]fluoranthene | 8.8 J | | 39 | 8.5 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 18:45 | 1 |
| Benzo[g,h,i]perylene | <39 | | 39 | 13 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 18:45 | 1 |
| Benzo[k]fluoranthene | <39 | | 39 | 12 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 18:45 | 1 |
| Bis(2-chloroethoxy)methane | <200 | | 200 | 40 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 18:45 | 1 |
| Bis(2-chloroethyl)ether | <200 | | 200 | 59 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 18:45 | 1 |
| Bis(2-ethylhexyl) phthalate | <200 | | 200 | 72 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 18:45 | 1 |
| Butyl benzyl phthalate | <200 | | 200 | 75 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 18:45 | 1 |
| Carbazole | <200 | | 200 | 99 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 18:45 | 1 |
| Chrysene | <39 | | 39 | 11 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 18:45 | 1 |
| Dibenz(a,h)anthracene | <39 | | 39 | 7.6 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 18:45 | 1 |
| Dibenzofuran | <200 | | 200 | 46 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 18:45 | 1 |
| Diethyl phthalate | <200 | | 200 | 67 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 18:45 | 1 |
| Dimethyl phthalate | <200 | | 200 | 52 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 18:45 | 1 |
| Di-n-butyl phthalate | <200 | | 200 | 60 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 18:45 | 1 |
| Di-n-octyl phthalate | <200 | | 200 | 65 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 18:45 | 1 |
| Fluoranthene | 10 J | | 39 | 7.3 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 18:45 | 1 |
| Fluorene | <39 | | 39 | 5.6 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 18:45 | 1 |
| Hexachlorobenzene | <80 | | 80 | 9.2 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 18:45 | 1 |
| Hexachlorobutadiene | <200 | | 200 | 62 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 18:45 | 1 |
| Hexachlorocyclopentadiene | <800 | | 800 | 230 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 18:45 | 1 |
| Hexachloroethane | <200 | | 200 | 60 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 18:45 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109355-1

Client Sample ID: R7-3(0-5)-032816

Lab Sample ID: 500-109355-11

Date Collected: 03/28/16 12:10

Matrix: Solid

Date Received: 03/28/16 15:45

Percent Solids: 80.8

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|------------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Indeno[1,2,3-cd]pyrene | <39 | | 39 | 10 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 18:45 | 1 |
| Isophorone | <200 | | 200 | 44 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 18:45 | 1 |
| Naphthalene | <39 | | 39 | 6.1 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 18:45 | 1 |
| Nitrobenzene | <39 | | 39 | 9.9 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 18:45 | 1 |
| N-Nitrosodi-n-propylamine | <80 | | 80 | 48 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 18:45 | 1 |
| N-Nitrosodiphenylamine | <200 | | 200 | 47 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 18:45 | 1 |
| Pentachlorophenol | <800 | | 800 | 630 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 18:45 | 1 |
| Phenanthrene | 7.7 | J | 39 | 5.5 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 18:45 | 1 |
| Phenol | <200 | | 200 | 88 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 18:45 | 1 |
| Pyrene | 12 | J | 39 | 7.9 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 18:45 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2,4,6-Tribromophenol | 58 | | 25 - 130 | 03/29/16 08:11 | 04/01/16 18:45 | 1 |
| 2-Fluorobiphenyl | 73 | | 42 - 115 | 03/29/16 08:11 | 04/01/16 18:45 | 1 |
| 2-Fluorophenol | 73 | | 40 - 130 | 03/29/16 08:11 | 04/01/16 18:45 | 1 |
| Nitrobenzene-d5 | 58 | | 33 - 124 | 03/29/16 08:11 | 04/01/16 18:45 | 1 |
| Phenol-d5 | 58 | | 36 - 123 | 03/29/16 08:11 | 04/01/16 18:45 | 1 |
| Terphenyl-d14 | 74 | | 25 - 150 | 03/29/16 08:11 | 04/01/16 18:45 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|-------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.050 | | 0.050 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 15:40 | 1 |
| Barium | 0.21 | J | 0.50 | 0.050 | mg/L | | 03/31/16 15:12 | 04/01/16 15:40 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 03/31/16 15:12 | 04/01/16 15:40 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 03/31/16 15:12 | 04/01/16 15:40 | 1 |
| Chromium | <0.025 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 15:40 | 1 |
| Cobalt | <0.025 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 15:40 | 1 |
| Copper | <0.025 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 15:40 | 1 |
| Iron | 0.20 | J | 0.40 | 0.20 | mg/L | | 03/31/16 15:12 | 04/01/16 15:40 | 1 |
| Lead | <0.0075 | | 0.0075 | 0.0075 | mg/L | | 03/31/16 15:12 | 04/01/16 15:40 | 1 |
| Manganese | 0.43 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 15:40 | 1 |
| Nickel | <0.025 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 15:40 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 03/31/16 15:12 | 04/01/16 15:40 | 1 |
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 15:40 | 1 |
| Zinc | 2.1 | | 0.50 | 0.020 | mg/L | | 03/31/16 15:12 | 04/01/16 15:40 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.11 | | 0.050 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 17:16 | 1 |
| Barium | 0.84 | | 0.50 | 0.050 | mg/L | | 03/30/16 15:14 | 03/31/16 17:16 | 1 |
| Beryllium | 0.016 | | 0.0040 | 0.0040 | mg/L | | 03/30/16 15:14 | 03/31/16 17:16 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 03/30/16 15:14 | 03/31/16 17:16 | 1 |
| Chromium | 0.37 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 17:16 | 1 |
| Cobalt | 0.15 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 17:16 | 1 |
| Copper | 0.33 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 17:16 | 1 |
| Iron | 340 | | 0.40 | 0.20 | mg/L | | 03/30/16 15:14 | 03/31/16 17:16 | 1 |
| Lead | 0.26 | | 0.0075 | 0.0075 | mg/L | | 03/30/16 15:14 | 03/31/16 17:16 | 1 |
| Manganese | 1.1 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 17:16 | 1 |
| Nickel | 0.45 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 17:16 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 03/30/16 15:14 | 03/31/16 17:16 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109355-1

Client Sample ID: R7-3(0-5)-032816

Lab Sample ID: 500-109355-11

Date Collected: 03/28/16 12:10

Matrix: Solid

Date Received: 03/28/16 15:45

Percent Solids: 80.8

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|------------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 17:16 | 1 |
| Zinc | 1.9 | | 0.50 | 0.020 | mg/L | | 03/30/16 15:14 | 03/31/16 17:16 | 1 |

Method: 6010B - Total Metals

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | <1.1 | | 1.1 | 0.23 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:11 | 1 |
| Arsenic | 7.9 | | 0.56 | 0.26 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:11 | 1 |
| Barium | 37 | | 0.56 | 0.10 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:11 | 1 |
| Beryllium | 0.81 | | 0.22 | 0.048 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:11 | 1 |
| Cadmium | <0.11 | | 0.11 | 0.032 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:11 | 1 |
| Calcium | 11000 | B | 11 | 3.6 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:11 | 1 |
| Chromium | 19 | | 0.56 | 0.096 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:11 | 1 |
| Cobalt | 11 | | 0.28 | 0.063 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:11 | 1 |
| Copper | 28 | | 0.56 | 0.12 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:11 | 1 |
| Iron | 22000 | B | 11 | 4.3 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:11 | 1 |
| Lead | 19 | | 0.28 | 0.14 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:11 | 1 |
| Magnesium | 10000 | | 5.6 | 2.3 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:11 | 1 |
| Manganese | 140 | | 0.56 | 0.11 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:11 | 1 |
| Nickel | 34 | | 0.56 | 0.15 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:11 | 1 |
| Potassium | 2500 | B | 28 | 4.6 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:11 | 1 |
| Selenium | 0.64 | | 0.56 | 0.28 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:11 | 1 |
| Silver | <0.28 | | 0.28 | 0.065 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:11 | 1 |
| Sodium | 640 | B | 56 | 7.4 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:11 | 1 |
| Thallium | 0.32 | J | 0.56 | 0.28 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:11 | 1 |
| Vanadium | 24 | | 0.28 | 0.082 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:11 | 1 |
| Zinc | 67 | | 1.1 | 0.35 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:11 | 1 |

Method: 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 03/31/16 13:40 | 04/01/16 10:51 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|-------------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | 0.33 | | 0.20 | 0.20 | ug/L | | 03/30/16 13:30 | 04/04/16 14:27 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Mercury | 17 | J | 18 | 9.5 | ug/Kg | ☼ | 03/29/16 16:30 | 03/30/16 10:13 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-------------|-----------|-------|-------|------|---|----------|----------------|---------|
| pH | 8.67 | | 0.200 | 0.200 | SU | | | 03/30/16 15:47 | 1 |

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109355-1

Client Sample ID: R7-3(5-8)-032816

Lab Sample ID: 500-109355-12

Date Collected: 03/28/16 12:15

Matrix: Solid

Date Received: 03/28/16 15:45

Percent Solids: 82.4

Method: 8260B - VOC

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Acetone | <24 | | 24 | 4.7 | ug/Kg | ☼ | | 03/31/16 13:54 | 1 |
| Benzene | <6.1 | | 6.1 | 1.3 | ug/Kg | ☼ | | 03/31/16 13:54 | 1 |
| Bromodichloromethane | <6.1 | | 6.1 | 1.0 | ug/Kg | ☼ | | 03/31/16 13:54 | 1 |
| Bromoform | <6.1 | | 6.1 | 1.2 | ug/Kg | ☼ | | 03/31/16 13:54 | 1 |
| Bromomethane | <6.1 | | 6.1 | 2.2 | ug/Kg | ☼ | | 03/31/16 13:54 | 1 |
| Carbon disulfide | <6.1 | | 6.1 | 2.2 | ug/Kg | ☼ | | 03/31/16 13:54 | 1 |
| Carbon tetrachloride | <6.1 | | 6.1 | 1.3 | ug/Kg | ☼ | | 03/31/16 13:54 | 1 |
| Chlorobenzene | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 03/31/16 13:54 | 1 |
| Chloroethane | <6.1 | | 6.1 | 2.5 | ug/Kg | ☼ | | 03/31/16 13:54 | 1 |
| Chloroform | <6.1 | | 6.1 | 1.2 | ug/Kg | ☼ | | 03/31/16 13:54 | 1 |
| Chloromethane | <6.1 | | 6.1 | 1.5 | ug/Kg | ☼ | | 03/31/16 13:54 | 1 |
| cis-1,2-Dichloroethene | <6.1 | | 6.1 | 1.2 | ug/Kg | ☼ | | 03/31/16 13:54 | 1 |
| cis-1,3-Dichloropropene | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 03/31/16 13:54 | 1 |
| Dibromochloromethane | <6.1 | | 6.1 | 0.70 | ug/Kg | ☼ | | 03/31/16 13:54 | 1 |
| 1,1-Dichloroethane | <6.1 | | 6.1 | 1.2 | ug/Kg | ☼ | | 03/31/16 13:54 | 1 |
| 1,2-Dichloroethane | <6.1 | | 6.1 | 0.90 | ug/Kg | ☼ | | 03/31/16 13:54 | 1 |
| 1,1-Dichloroethene | <6.1 | | 6.1 | 2.2 | ug/Kg | ☼ | | 03/31/16 13:54 | 1 |
| 1,2-Dichloropropane | <6.1 | | 6.1 | 1.6 | ug/Kg | ☼ | | 03/31/16 13:54 | 1 |
| 1,3-Dichloropropene, Total | <6.1 | | 6.1 | 1.7 | ug/Kg | ☼ | | 03/31/16 13:54 | 1 |
| Ethylbenzene | <6.1 | | 6.1 | 1.5 | ug/Kg | ☼ | | 03/31/16 13:54 | 1 |
| 2-Hexanone | <6.1 | | 6.1 | 1.9 | ug/Kg | ☼ | | 03/31/16 13:54 | 1 |
| Methylene Chloride | <6.1 | | 6.1 | 4.6 | ug/Kg | ☼ | | 03/31/16 13:54 | 1 |
| Methyl Ethyl Ketone | <6.1 | | 6.1 | 2.2 | ug/Kg | ☼ | | 03/31/16 13:54 | 1 |
| methyl isobutyl ketone | <6.1 | | 6.1 | 1.2 | ug/Kg | ☼ | | 03/31/16 13:54 | 1 |
| Methyl tert-butyl ether | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 03/31/16 13:54 | 1 |
| Styrene | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 03/31/16 13:54 | 1 |
| 1,1,2,2-Tetrachloroethane | <6.1 | | 6.1 | 0.96 | ug/Kg | ☼ | | 03/31/16 13:54 | 1 |
| Tetrachloroethene | <6.1 | | 6.1 | 1.3 | ug/Kg | ☼ | | 03/31/16 13:54 | 1 |
| Toluene | <6.1 | | 6.1 | 2.1 | ug/Kg | ☼ | | 03/31/16 13:54 | 1 |
| trans-1,2-Dichloroethene | <6.1 | | 6.1 | 1.5 | ug/Kg | ☼ | | 03/31/16 13:54 | 1 |
| trans-1,3-Dichloropropene | <6.1 | | 6.1 | 1.7 | ug/Kg | ☼ | | 03/31/16 13:54 | 1 |
| 1,1,1-Trichloroethane | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 03/31/16 13:54 | 1 |
| 1,1,2-Trichloroethane | <6.1 | | 6.1 | 1.2 | ug/Kg | ☼ | | 03/31/16 13:54 | 1 |
| Trichloroethene | <6.1 | | 6.1 | 1.6 | ug/Kg | ☼ | | 03/31/16 13:54 | 1 |
| Vinyl chloride | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 03/31/16 13:54 | 1 |
| Xylenes, Total | <12 | | 12 | 2.2 | ug/Kg | ☼ | | 03/31/16 13:54 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 104 | | 70 - 120 | | 03/31/16 13:54 | 1 |
| Dibromofluoromethane | 112 | | 75 - 120 | | 03/31/16 13:54 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 111 | | 69 - 134 | | 03/31/16 13:54 | 1 |
| Toluene-d8 (Surr) | 116 | | 75 - 123 | | 03/31/16 13:54 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,2,4-Trichlorobenzene | <200 | | 200 | 43 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:10 | 1 |
| 1,2-Dichlorobenzene | <200 | | 200 | 48 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:10 | 1 |
| 1,3-Dichlorobenzene | <200 | | 200 | 45 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:10 | 1 |
| 1,4-Dichlorobenzene | <200 | | 200 | 51 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:10 | 1 |
| 2,2'-oxybis[1-chloropropane] | <200 | | 200 | 46 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:10 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109355-1

Client Sample ID: R7-3(5-8)-032816

Lab Sample ID: 500-109355-12

Date Collected: 03/28/16 12:15

Matrix: Solid

Date Received: 03/28/16 15:45

Percent Solids: 82.4

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|------------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol | <400 | | 400 | 91 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:10 | 1 |
| 2,4,6-Trichlorophenol | <400 | | 400 | 140 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:10 | 1 |
| 2,4-Dichlorophenol | <400 | | 400 | 95 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:10 | 1 |
| 2,4-Dimethylphenol | <400 | | 400 | 150 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:10 | 1 |
| 2,4-Dinitrophenol | <800 | | 800 | 700 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:10 | 1 |
| 2,4-Dinitrotoluene | <200 | | 200 | 63 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:10 | 1 |
| 2,6-Dinitrotoluene | <200 | | 200 | 78 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:10 | 1 |
| 2-Chloronaphthalene | <200 | | 200 | 44 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:10 | 1 |
| 2-Chlorophenol | <200 | | 200 | 68 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:10 | 1 |
| 2-Methylnaphthalene | 8.4 | J | 40 | 7.3 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:10 | 1 |
| 2-Methylphenol | <200 | | 200 | 64 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:10 | 1 |
| 2-Nitroaniline | <200 | | 200 | 54 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:10 | 1 |
| 2-Nitrophenol | <400 | | 400 | 94 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:10 | 1 |
| 3 & 4 Methylphenol | <200 | | 200 | 67 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:10 | 1 |
| 3,3'-Dichlorobenzidine | <200 | | 200 | 56 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:10 | 1 |
| 3-Nitroaniline | <400 | | 400 | 120 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:10 | 1 |
| 4,6-Dinitro-2-methylphenol | <800 | | 800 | 320 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:10 | 1 |
| 4-Bromophenyl phenyl ether | <200 | | 200 | 53 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:10 | 1 |
| 4-Chloro-3-methylphenol | <400 | | 400 | 140 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:10 | 1 |
| 4-Chloroaniline | <800 | | 800 | 190 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:10 | 1 |
| 4-Chlorophenyl phenyl ether | <200 | | 200 | 47 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:10 | 1 |
| 4-Nitroaniline | <400 | | 400 | 170 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:10 | 1 |
| 4-Nitrophenol | <800 | | 800 | 380 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:10 | 1 |
| Acenaphthene | <40 | | 40 | 7.2 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:10 | 1 |
| Acenaphthylene | <40 | | 40 | 5.3 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:10 | 1 |
| Anthracene | <40 | | 40 | 6.7 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:10 | 1 |
| Benzo[a]anthracene | <40 | | 40 | 5.4 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:10 | 1 |
| Benzo[a]pyrene | <40 | | 40 | 7.7 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:10 | 1 |
| Benzo[b]fluoranthene | <40 | | 40 | 8.6 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:10 | 1 |
| Benzo[g,h,i]perylene | <40 | | 40 | 13 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:10 | 1 |
| Benzo[k]fluoranthene | <40 | | 40 | 12 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:10 | 1 |
| Bis(2-chloroethoxy)methane | <200 | | 200 | 41 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:10 | 1 |
| Bis(2-chloroethyl)ether | <200 | | 200 | 60 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:10 | 1 |
| Bis(2-ethylhexyl) phthalate | <200 | | 200 | 73 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:10 | 1 |
| Butyl benzyl phthalate | <200 | | 200 | 76 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:10 | 1 |
| Carbazole | <200 | | 200 | 100 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:10 | 1 |
| Chrysene | <40 | | 40 | 11 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:10 | 1 |
| Dibenz(a,h)anthracene | <40 | | 40 | 7.7 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:10 | 1 |
| Dibenzofuran | <200 | | 200 | 47 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:10 | 1 |
| Diethyl phthalate | <200 | | 200 | 68 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:10 | 1 |
| Dimethyl phthalate | <200 | | 200 | 52 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:10 | 1 |
| Di-n-butyl phthalate | <200 | | 200 | 61 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:10 | 1 |
| Di-n-octyl phthalate | <200 | | 200 | 65 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:10 | 1 |
| Fluoranthene | <40 | | 40 | 7.4 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:10 | 1 |
| Fluorene | <40 | | 40 | 5.6 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:10 | 1 |
| Hexachlorobenzene | <80 | | 80 | 9.2 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:10 | 1 |
| Hexachlorobutadiene | <200 | | 200 | 63 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:10 | 1 |
| Hexachlorocyclopentadiene | <800 | | 800 | 230 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:10 | 1 |
| Hexachloroethane | <200 | | 200 | 61 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:10 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109355-1

Client Sample ID: R7-3(5-8)-032816

Lab Sample ID: 500-109355-12

Date Collected: 03/28/16 12:15

Matrix: Solid

Date Received: 03/28/16 15:45

Percent Solids: 82.4

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|------------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Indeno[1,2,3-cd]pyrene | <40 | | 40 | 10 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:10 | 1 |
| Isophorone | <200 | | 200 | 45 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:10 | 1 |
| Naphthalene | <40 | | 40 | 6.1 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:10 | 1 |
| Nitrobenzene | <40 | | 40 | 10 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:10 | 1 |
| N-Nitrosodi-n-propylamine | <80 | | 80 | 49 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:10 | 1 |
| N-Nitrosodiphenylamine | <200 | | 200 | 47 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:10 | 1 |
| Pentachlorophenol | <800 | | 800 | 640 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:10 | 1 |
| Phenanthrene | 18 | J | 40 | 5.6 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:10 | 1 |
| Phenol | <200 | | 200 | 89 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:10 | 1 |
| Pyrene | 8.9 | J | 40 | 7.9 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:10 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2,4,6-Tribromophenol | 71 | | 25 - 130 | 03/29/16 08:11 | 04/01/16 19:10 | 1 |
| 2-Fluorobiphenyl | 75 | | 42 - 115 | 03/29/16 08:11 | 04/01/16 19:10 | 1 |
| 2-Fluorophenol | 85 | | 40 - 130 | 03/29/16 08:11 | 04/01/16 19:10 | 1 |
| Nitrobenzene-d5 | 63 | | 33 - 124 | 03/29/16 08:11 | 04/01/16 19:10 | 1 |
| Phenol-d5 | 67 | | 36 - 123 | 03/29/16 08:11 | 04/01/16 19:10 | 1 |
| Terphenyl-d14 | 78 | | 25 - 150 | 03/29/16 08:11 | 04/01/16 19:10 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|-------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.050 | | 0.050 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 15:45 | 1 |
| Barium | 0.34 | J | 0.50 | 0.050 | mg/L | | 03/31/16 15:12 | 04/01/16 15:45 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 03/31/16 15:12 | 04/01/16 15:45 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 03/31/16 15:12 | 04/01/16 15:45 | 1 |
| Chromium | <0.025 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 15:45 | 1 |
| Cobalt | <0.025 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 15:45 | 1 |
| Copper | <0.025 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 15:45 | 1 |
| Iron | <0.40 | | 0.40 | 0.20 | mg/L | | 03/31/16 15:12 | 04/01/16 15:45 | 1 |
| Lead | <0.0075 | | 0.0075 | 0.0075 | mg/L | | 03/31/16 15:12 | 04/01/16 15:45 | 1 |
| Manganese | 0.87 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 15:45 | 1 |
| Nickel | <0.025 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 15:45 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 03/31/16 15:12 | 04/01/16 15:45 | 1 |
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 15:45 | 1 |
| Zinc | 0.11 | J | 0.50 | 0.020 | mg/L | | 03/31/16 15:12 | 04/01/16 15:45 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.050 | | 0.050 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 17:21 | 1 |
| Barium | <0.50 | | 0.50 | 0.050 | mg/L | | 03/30/16 15:14 | 03/31/16 17:21 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 03/30/16 15:14 | 03/31/16 17:21 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 03/30/16 15:14 | 03/31/16 17:21 | 1 |
| Chromium | <0.025 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 17:21 | 1 |
| Cobalt | <0.025 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 17:21 | 1 |
| Copper | <0.025 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 17:21 | 1 |
| Iron | 1.0 | | 0.40 | 0.20 | mg/L | | 03/30/16 15:14 | 03/31/16 17:21 | 1 |
| Lead | <0.0075 | | 0.0075 | 0.0075 | mg/L | | 03/30/16 15:14 | 03/31/16 17:21 | 1 |
| Manganese | <0.025 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 17:21 | 1 |
| Nickel | <0.025 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 17:21 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 03/30/16 15:14 | 03/31/16 17:21 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109355-1

Client Sample ID: R7-3(5-8)-032816

Lab Sample ID: 500-109355-12

Date Collected: 03/28/16 12:15

Matrix: Solid

Date Received: 03/28/16 15:45

Percent Solids: 82.4

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|-------------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 17:21 | 1 |
| Zinc | 0.51 | | 0.50 | 0.020 | mg/L | | 03/30/16 15:14 | 03/31/16 17:21 | 1 |

Method: 6010B - Total Metals

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | <1.1 | | 1.1 | 0.24 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:16 | 1 |
| Arsenic | 7.8 | | 0.57 | 0.26 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:16 | 1 |
| Barium | 69 | | 0.57 | 0.10 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:16 | 1 |
| Beryllium | 0.74 | | 0.23 | 0.049 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:16 | 1 |
| Cadmium | <0.11 | | 0.11 | 0.033 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:16 | 1 |
| Calcium | 68000 | B | 110 | 37 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 20:55 | 10 |
| Chromium | 16 | | 0.57 | 0.098 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:16 | 1 |
| Cobalt | 23 | | 0.29 | 0.065 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:16 | 1 |
| Copper | 25 | | 0.57 | 0.12 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:16 | 1 |
| Iron | 22000 | B | 11 | 4.4 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:16 | 1 |
| Lead | 15 | | 0.29 | 0.14 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:16 | 1 |
| Magnesium | 21000 | | 5.7 | 2.3 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:16 | 1 |
| Manganese | 490 | | 0.57 | 0.11 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:16 | 1 |
| Nickel | 39 | | 0.57 | 0.15 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:16 | 1 |
| Potassium | 2700 | B | 29 | 4.7 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:16 | 1 |
| Selenium | 0.64 | | 0.57 | 0.28 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:16 | 1 |
| Silver | <0.29 | | 0.29 | 0.067 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:16 | 1 |
| Sodium | 270 | B | 57 | 7.5 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:16 | 1 |
| Thallium | <0.57 | | 0.57 | 0.28 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:16 | 1 |
| Vanadium | 19 | | 0.29 | 0.083 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:16 | 1 |
| Zinc | 56 | | 1.1 | 0.36 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:16 | 1 |

Method: 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 03/31/16 13:40 | 04/01/16 10:53 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 03/30/16 13:30 | 03/31/16 11:09 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Mercury | 13 | J | 20 | 10 | ug/Kg | ☼ | 03/29/16 16:30 | 03/30/16 10:15 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-------------|-----------|-------|-------|------|---|----------|----------------|---------|
| pH | 8.25 | | 0.200 | 0.200 | SU | | | 03/30/16 15:49 | 1 |

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109355-1

Client Sample ID: R7-3(5-8)-032816D

Lab Sample ID: 500-109355-13

Date Collected: 03/28/16 12:20

Matrix: Solid

Date Received: 03/28/16 15:45

Percent Solids: 81.1

Method: 8260B - VOC

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Acetone | <25 | | 25 | 4.8 | ug/Kg | ☼ | | 03/31/16 14:19 | 1 |
| Benzene | <6.2 | | 6.2 | 1.4 | ug/Kg | ☼ | | 03/31/16 14:19 | 1 |
| Bromodichloromethane | <6.2 | | 6.2 | 1.0 | ug/Kg | ☼ | | 03/31/16 14:19 | 1 |
| Bromoform | <6.2 | | 6.2 | 1.3 | ug/Kg | ☼ | | 03/31/16 14:19 | 1 |
| Bromomethane | <6.2 | | 6.2 | 2.3 | ug/Kg | ☼ | | 03/31/16 14:19 | 1 |
| Carbon disulfide | <6.2 | | 6.2 | 2.3 | ug/Kg | ☼ | | 03/31/16 14:19 | 1 |
| Carbon tetrachloride | <6.2 | | 6.2 | 1.3 | ug/Kg | ☼ | | 03/31/16 14:19 | 1 |
| Chlorobenzene | <6.2 | | 6.2 | 1.5 | ug/Kg | ☼ | | 03/31/16 14:19 | 1 |
| Chloroethane | <6.2 | | 6.2 | 2.6 | ug/Kg | ☼ | | 03/31/16 14:19 | 1 |
| Chloroform | <6.2 | | 6.2 | 1.2 | ug/Kg | ☼ | | 03/31/16 14:19 | 1 |
| Chloromethane | <6.2 | | 6.2 | 1.5 | ug/Kg | ☼ | | 03/31/16 14:19 | 1 |
| cis-1,2-Dichloroethene | <6.2 | | 6.2 | 1.3 | ug/Kg | ☼ | | 03/31/16 14:19 | 1 |
| cis-1,3-Dichloropropene | <6.2 | | 6.2 | 1.4 | ug/Kg | ☼ | | 03/31/16 14:19 | 1 |
| Dibromochloromethane | <6.2 | | 6.2 | 0.71 | ug/Kg | ☼ | | 03/31/16 14:19 | 1 |
| 1,1-Dichloroethane | <6.2 | | 6.2 | 1.3 | ug/Kg | ☼ | | 03/31/16 14:19 | 1 |
| 1,2-Dichloroethane | <6.2 | | 6.2 | 0.91 | ug/Kg | ☼ | | 03/31/16 14:19 | 1 |
| 1,1-Dichloroethene | <6.2 | | 6.2 | 2.2 | ug/Kg | ☼ | | 03/31/16 14:19 | 1 |
| 1,2-Dichloropropane | <6.2 | | 6.2 | 1.6 | ug/Kg | ☼ | | 03/31/16 14:19 | 1 |
| 1,3-Dichloropropene, Total | <6.2 | | 6.2 | 1.7 | ug/Kg | ☼ | | 03/31/16 14:19 | 1 |
| Ethylbenzene | <6.2 | | 6.2 | 1.5 | ug/Kg | ☼ | | 03/31/16 14:19 | 1 |
| 2-Hexanone | <6.2 | | 6.2 | 1.9 | ug/Kg | ☼ | | 03/31/16 14:19 | 1 |
| Methylene Chloride | <6.2 | | 6.2 | 4.7 | ug/Kg | ☼ | | 03/31/16 14:19 | 1 |
| Methyl Ethyl Ketone | <6.2 | | 6.2 | 2.2 | ug/Kg | ☼ | | 03/31/16 14:19 | 1 |
| methyl isobutyl ketone | <6.2 | | 6.2 | 1.3 | ug/Kg | ☼ | | 03/31/16 14:19 | 1 |
| Methyl tert-butyl ether | <6.2 | | 6.2 | 1.5 | ug/Kg | ☼ | | 03/31/16 14:19 | 1 |
| Styrene | <6.2 | | 6.2 | 1.4 | ug/Kg | ☼ | | 03/31/16 14:19 | 1 |
| 1,1,1,2-Tetrachloroethane | <6.2 | | 6.2 | 0.98 | ug/Kg | ☼ | | 03/31/16 14:19 | 1 |
| Tetrachloroethene | <6.2 | | 6.2 | 1.3 | ug/Kg | ☼ | | 03/31/16 14:19 | 1 |
| Toluene | <6.2 | | 6.2 | 2.1 | ug/Kg | ☼ | | 03/31/16 14:19 | 1 |
| trans-1,2-Dichloroethene | <6.2 | | 6.2 | 1.5 | ug/Kg | ☼ | | 03/31/16 14:19 | 1 |
| trans-1,3-Dichloropropene | <6.2 | | 6.2 | 1.7 | ug/Kg | ☼ | | 03/31/16 14:19 | 1 |
| 1,1,1-Trichloroethane | <6.2 | | 6.2 | 1.4 | ug/Kg | ☼ | | 03/31/16 14:19 | 1 |
| 1,1,2-Trichloroethane | <6.2 | | 6.2 | 1.2 | ug/Kg | ☼ | | 03/31/16 14:19 | 1 |
| Trichloroethene | <6.2 | | 6.2 | 1.7 | ug/Kg | ☼ | | 03/31/16 14:19 | 1 |
| Vinyl chloride | <6.2 | | 6.2 | 1.5 | ug/Kg | ☼ | | 03/31/16 14:19 | 1 |
| Xylenes, Total | <12 | | 12 | 2.3 | ug/Kg | ☼ | | 03/31/16 14:19 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 104 | | 70 - 120 | | 03/31/16 14:19 | 1 |
| Dibromofluoromethane | 112 | | 75 - 120 | | 03/31/16 14:19 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 109 | | 69 - 134 | | 03/31/16 14:19 | 1 |
| Toluene-d8 (Surr) | 114 | | 75 - 123 | | 03/31/16 14:19 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,2,4-Trichlorobenzene | <200 | | 200 | 43 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:36 | 1 |
| 1,2-Dichlorobenzene | <200 | | 200 | 48 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:36 | 1 |
| 1,3-Dichlorobenzene | <200 | | 200 | 45 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:36 | 1 |
| 1,4-Dichlorobenzene | <200 | | 200 | 51 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:36 | 1 |
| 2,2'-oxybis[1-chloropropane] | <200 | | 200 | 46 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:36 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109355-1

Client Sample ID: R7-3(5-8)-032816D

Lab Sample ID: 500-109355-13

Date Collected: 03/28/16 12:20

Matrix: Solid

Date Received: 03/28/16 15:45

Percent Solids: 81.1

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol | <400 | | 400 | 91 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:36 | 1 |
| 2,4,6-Trichlorophenol | <400 | | 400 | 140 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:36 | 1 |
| 2,4-Dichlorophenol | <400 | | 400 | 95 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:36 | 1 |
| 2,4-Dimethylphenol | <400 | | 400 | 150 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:36 | 1 |
| 2,4-Dinitrophenol | <810 | | 810 | 710 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:36 | 1 |
| 2,4-Dinitrotoluene | <200 | | 200 | 64 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:36 | 1 |
| 2,6-Dinitrotoluene | <200 | | 200 | 79 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:36 | 1 |
| 2-Chloronaphthalene | <200 | | 200 | 44 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:36 | 1 |
| 2-Chlorophenol | <200 | | 200 | 68 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:36 | 1 |
| 2-Methylnaphthalene | <40 | | 40 | 7.4 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:36 | 1 |
| 2-Methylphenol | <200 | | 200 | 64 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:36 | 1 |
| 2-Nitroaniline | <200 | | 200 | 54 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:36 | 1 |
| 2-Nitrophenol | <400 | | 400 | 95 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:36 | 1 |
| 3 & 4 Methylphenol | <200 | | 200 | 67 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:36 | 1 |
| 3,3'-Dichlorobenzidine | <200 | | 200 | 56 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:36 | 1 |
| 3-Nitroaniline | <400 | | 400 | 120 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:36 | 1 |
| 4,6-Dinitro-2-methylphenol | <810 | | 810 | 320 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:36 | 1 |
| 4-Bromophenyl phenyl ether | <200 | | 200 | 53 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:36 | 1 |
| 4-Chloro-3-methylphenol | <400 | | 400 | 140 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:36 | 1 |
| 4-Chloroaniline | <810 | | 810 | 190 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:36 | 1 |
| 4-Chlorophenyl phenyl ether | <200 | | 200 | 47 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:36 | 1 |
| 4-Nitroaniline | <400 | | 400 | 170 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:36 | 1 |
| 4-Nitrophenol | <810 | | 810 | 380 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:36 | 1 |
| Acenaphthene | <40 | | 40 | 7.2 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:36 | 1 |
| Acenaphthylene | <40 | | 40 | 5.3 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:36 | 1 |
| Anthracene | <40 | | 40 | 6.7 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:36 | 1 |
| Benzo[a]anthracene | <40 | | 40 | 5.4 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:36 | 1 |
| Benzo[a]pyrene | <40 | | 40 | 7.8 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:36 | 1 |
| Benzo[b]fluoranthene | <40 | | 40 | 8.7 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:36 | 1 |
| Benzo[g,h,i]perylene | <40 | | 40 | 13 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:36 | 1 |
| Benzo[k]fluoranthene | <40 | | 40 | 12 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:36 | 1 |
| Bis(2-chloroethoxy)methane | <200 | | 200 | 41 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:36 | 1 |
| Bis(2-chloroethyl)ether | <200 | | 200 | 60 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:36 | 1 |
| Bis(2-ethylhexyl) phthalate | <200 | | 200 | 73 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:36 | 1 |
| Butyl benzyl phthalate | <200 | | 200 | 76 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:36 | 1 |
| Carbazole | <200 | | 200 | 100 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:36 | 1 |
| Chrysene | <40 | | 40 | 11 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:36 | 1 |
| Dibenz(a,h)anthracene | <40 | | 40 | 7.7 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:36 | 1 |
| Dibenzofuran | <200 | | 200 | 47 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:36 | 1 |
| Diethyl phthalate | <200 | | 200 | 68 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:36 | 1 |
| Dimethyl phthalate | <200 | | 200 | 52 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:36 | 1 |
| Di-n-butyl phthalate | <200 | | 200 | 61 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:36 | 1 |
| Di-n-octyl phthalate | <200 | | 200 | 65 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:36 | 1 |
| Fluoranthene | <40 | | 40 | 7.4 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:36 | 1 |
| Fluorene | <40 | | 40 | 5.6 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:36 | 1 |
| Hexachlorobenzene | <81 | | 81 | 9.3 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:36 | 1 |
| Hexachlorobutadiene | <200 | | 200 | 63 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:36 | 1 |
| Hexachlorocyclopentadiene | <810 | | 810 | 230 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:36 | 1 |
| Hexachloroethane | <200 | | 200 | 61 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:36 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109355-1

Client Sample ID: R7-3(5-8)-032816D

Lab Sample ID: 500-109355-13

Date Collected: 03/28/16 12:20

Matrix: Solid

Date Received: 03/28/16 15:45

Percent Solids: 81.1

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Indeno[1,2,3-cd]pyrene | <40 | | 40 | 10 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:36 | 1 |
| Isophorone | <200 | | 200 | 45 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:36 | 1 |
| Naphthalene | <40 | | 40 | 6.2 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:36 | 1 |
| Nitrobenzene | <40 | | 40 | 10 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:36 | 1 |
| N-Nitrosodi-n-propylamine | <81 | | 81 | 49 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:36 | 1 |
| N-Nitrosodiphenylamine | <200 | | 200 | 47 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:36 | 1 |
| Pentachlorophenol | <810 | | 810 | 640 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:36 | 1 |
| Phenanthrene | 12 | J | 40 | 5.6 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:36 | 1 |
| Phenol | <200 | | 200 | 89 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:36 | 1 |
| Pyrene | 11 | J | 40 | 8.0 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 19:36 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2,4,6-Tribromophenol | 66 | | 25 - 130 | | | | 03/29/16 08:11 | 04/01/16 19:36 | 1 |
| 2-Fluorobiphenyl | 65 | | 42 - 115 | | | | 03/29/16 08:11 | 04/01/16 19:36 | 1 |
| 2-Fluorophenol | 81 | | 40 - 130 | | | | 03/29/16 08:11 | 04/01/16 19:36 | 1 |
| Nitrobenzene-d5 | 55 | | 33 - 124 | | | | 03/29/16 08:11 | 04/01/16 19:36 | 1 |
| Phenol-d5 | 62 | | 36 - 123 | | | | 03/29/16 08:11 | 04/01/16 19:36 | 1 |
| Terphenyl-d14 | 77 | | 25 - 150 | | | | 03/29/16 08:11 | 04/01/16 19:36 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|-------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.050 | | 0.050 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 15:51 | 1 |
| Barium | 0.32 | J | 0.50 | 0.050 | mg/L | | 03/31/16 15:12 | 04/01/16 15:51 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 03/31/16 15:12 | 04/01/16 15:51 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 03/31/16 15:12 | 04/01/16 15:51 | 1 |
| Chromium | <0.025 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 15:51 | 1 |
| Cobalt | <0.025 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 15:51 | 1 |
| Copper | <0.025 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 15:51 | 1 |
| Iron | <0.40 | | 0.40 | 0.20 | mg/L | | 03/31/16 15:12 | 04/01/16 15:51 | 1 |
| Lead | <0.0075 | | 0.0075 | 0.0075 | mg/L | | 03/31/16 15:12 | 04/01/16 15:51 | 1 |
| Manganese | 0.95 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 15:51 | 1 |
| Nickel | <0.025 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 15:51 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 03/31/16 15:12 | 04/01/16 15:51 | 1 |
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 15:51 | 1 |
| Zinc | 1.5 | | 0.50 | 0.020 | mg/L | | 03/31/16 15:12 | 04/01/16 15:51 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.050 | | 0.050 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 17:25 | 1 |
| Barium | <0.50 | | 0.50 | 0.050 | mg/L | | 03/30/16 15:14 | 03/31/16 17:25 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 03/30/16 15:14 | 03/31/16 17:25 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 03/30/16 15:14 | 03/31/16 17:25 | 1 |
| Chromium | <0.025 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 17:25 | 1 |
| Cobalt | <0.025 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 17:25 | 1 |
| Copper | <0.025 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 17:25 | 1 |
| Iron | 1.4 | | 0.40 | 0.20 | mg/L | | 03/30/16 15:14 | 03/31/16 17:25 | 1 |
| Lead | <0.0075 | | 0.0075 | 0.0075 | mg/L | | 03/30/16 15:14 | 03/31/16 17:25 | 1 |
| Manganese | <0.025 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 17:25 | 1 |
| Nickel | <0.025 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 17:25 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 03/30/16 15:14 | 03/31/16 17:25 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109355-1

Client Sample ID: R7-3(5-8)-032816D

Lab Sample ID: 500-109355-13

Date Collected: 03/28/16 12:20

Matrix: Solid

Date Received: 03/28/16 15:45

Percent Solids: 81.1

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|-------------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 17:25 | 1 |
| Zinc | 0.36 | J | 0.50 | 0.020 | mg/L | | 03/30/16 15:14 | 03/31/16 17:25 | 1 |

Method: 6010B - Total Metals

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | <1.0 | | 1.0 | 0.22 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:21 | 1 |
| Arsenic | 5.3 | | 0.52 | 0.24 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:21 | 1 |
| Barium | 36 | | 0.52 | 0.096 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:21 | 1 |
| Beryllium | 0.69 | | 0.21 | 0.045 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:21 | 1 |
| Cadmium | 0.087 | J | 0.10 | 0.030 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:21 | 1 |
| Calcium | 61000 | B | 100 | 34 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 20:59 | 10 |
| Chromium | 17 | | 0.52 | 0.090 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:21 | 1 |
| Cobalt | 12 | | 0.26 | 0.059 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:21 | 1 |
| Copper | 22 | | 0.52 | 0.11 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:21 | 1 |
| Iron | 19000 | B | 10 | 4.0 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:21 | 1 |
| Lead | 13 | | 0.26 | 0.13 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:21 | 1 |
| Magnesium | 20000 | | 5.2 | 2.1 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:21 | 1 |
| Manganese | 230 | | 0.52 | 0.10 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:21 | 1 |
| Nickel | 33 | | 0.52 | 0.14 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:21 | 1 |
| Potassium | 2700 | B | 26 | 4.3 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:21 | 1 |
| Selenium | 0.46 | J | 0.52 | 0.26 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:21 | 1 |
| Silver | <0.26 | | 0.26 | 0.061 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:21 | 1 |
| Sodium | 260 | B | 52 | 6.9 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:21 | 1 |
| Thallium | 0.29 | J | 0.52 | 0.26 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:21 | 1 |
| Vanadium | 19 | | 0.26 | 0.077 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:21 | 1 |
| Zinc | 56 | | 1.0 | 0.33 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:21 | 1 |

Method: 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 03/31/16 13:40 | 04/01/16 10:55 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 03/30/16 13:30 | 03/31/16 11:11 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Mercury | 11 | J | 20 | 11 | ug/Kg | ☼ | 03/29/16 16:30 | 03/30/16 10:18 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-------------|-----------|-------|-------|------|---|----------|----------------|---------|
| pH | 8.69 | | 0.200 | 0.200 | SU | | | 03/30/16 15:51 | 1 |

Definitions/Glossary

Client: Environmental Design International, Inc.
Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109355-1

Qualifiers

GC/MS VOA

| Qualifier | Qualifier Description |
|-----------|--|
| F1 | MS and/or MSD Recovery is outside acceptance limits. |

GC/MS Semi VOA

| Qualifier | Qualifier Description |
|-----------|--|
| F2 | MS/MSD RPD exceeds control limits |
| F1 | MS and/or MSD Recovery is outside acceptance limits. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

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. |
| F5 | Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL. |
| F2 | MS/MSD RPD exceeds control limits |
| F1 | MS and/or MSD Recovery is outside acceptance limits. |
| F3 | Duplicate RPD exceeds the control limit |
| 4 | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |
| ^ | ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits. |

Glossary

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

Certification Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109355-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|-----------|---------|------------|------------------|-----------------|
| Illinois | NELAP | 5 | 100201 | 04-30-17 |

The following analytes are included in this report, but certification is not offered by the governing authority:

| Analysis Method | Prep Method | Matrix | Analyte |
|-----------------|-------------|--------|----------------------------|
| 8260B | | Solid | 1,3-Dichloropropene, Total |
| Moisture | | Solid | Percent Moisture |
| Moisture | | Solid | Percent Solids |

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

Bill To (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 PO#/Reference# 500-109355 COC

Chain of Custody Record

Lab Job #: 500-109355

Chain of Custody Number: _____

Page 1 of 2

Temperature °C of Cooler: 4.5



| Client | | Client Project # | | Preservative | | Parameter | | Matrix | | Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other | |
|--------------|--------|-----------------------|---------|--------------|---|-----------------|---|--------|----------|---|---|
| Project Name | | Lab Project # | | Sampling | | # of Containers | | Matrix | | | |
| Lab ID | MS/MSD | Sample ID | Date | Time | | | | | Comments | | |
| EDF | | 0295.022 | | | | | | | | | |
| IDOT Harvey | | | | | | | | | | | |
| Harvey IL | | | | | | | | | | | |
| Celia Penner | | | | | | | | | | | |
| | | | | | | | | | | | |
| 1 | | JS-1(0-4)-032816 | 3/26/16 | 0945 | 2 | S | X | X | X | X | X |
| 2 | | VLI-1(0-5)-032816 | | 1010 | | | X | X | X | X | X |
| 3 | | VLI-1(5-10)-032816 | | 1015 | | | X | X | X | X | X |
| 4 | | VLI-1(10-13.5)-032816 | | 1020 | | | X | X | X | X | X |
| 5 | | VLI-2(0-5)-032816 | | 1045 | | | X | X | X | X | X |
| 6 | | VLI-2(5-10)-032816 | | 1050 | | | X | X | X | X | X |
| 7 | | VLI-2(10-13.5)-032816 | | 1055 | | | X | X | X | X | X |
| 8 | | R7-1(0-4)-032816 | | 1110 | | | X | X | X | X | X |
| 9 | | R7-2(0-5)-032816 | | 1135 | | | X | X | X | X | X |
| 10 | | R7-2(5-10)-032816 | | 1140 | | | X | X | X | X | X |

Turnaround Time Required (Business Days)

1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other

Sample Disposal

Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

| | | | | | | | |
|--------------------|---------|---------|------|--------------------|---------|----------|------|
| Relinquished By | Company | Date | Time | Received By | Company | Date | Time |
| <i>[Signature]</i> | EDF | 3/26/16 | 1500 | <i>[Signature]</i> | TA | 3/28/16 | 1500 |
| Relinquished By | Company | Date | Time | Received By | Company | Date | Time |
| <i>[Signature]</i> | TA | 3/26/16 | 1545 | <i>[Signature]</i> | TAL | 03/28/16 | 1545 |
| Relinquished By | Company | Date | Time | Received By | Company | Date | Time |
| | | | | | | | |

Lab Courier

Shipped

Hand Delivered

Matrix Key
 WW - Wastewater SE - Sediment
 W - Water SO - Soil
 S - Soil L - Leachate
 SL - Sludge WI - Wipe
 MS - Miscellaneous DW - Drinking Water
 OL - Oil O - Other
 A - Air

Client Comments

Lab Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

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

Chain of Custody Record

Lab Job #: 500-109355
Chain of Custody Number: _____
Page 2 of 2
Temperature °C of Cooler: 4.5

| Client | | Client Project # | | Preservative | | | | | | | Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other | |
|------------------------|--------|---------------------|---------|--------------|-----------------|--------|------|-------|--------------|-----------------|---|----------|
| Project Name | | Lab Project # | | Parameter | | | | | | | | |
| Project Location/State | | Lab PM | | | | | | | | | | |
| Sampler | | | | | | | | | | | | |
| Lab ID | MS/MSD | Sample ID | Date | Time | # of Containers | Matrix | VOCs | SVOCs | Total Metals | TEC/SPEC metals | pH | Comments |
| 11 | | R7-3(0-5)-032816 | 3/28/16 | 1210 | 2 | S | X | X | X | X | X | |
| 12 | | R7-3(5-8)-032816 | | 1215 | | | | | | | | |
| 13 | | R7-3(5-8)-032816 D | | 1220 | | | | | | | | |
| 14 | | CB8-1(0-6.8)-032816 | | 1250 | | | | | | | | |
| 15 | | CB8-2(0-4)-032816 | | 1305 | | | | | | | | |
| 16 | | CB8-3(0-4)-032816 | | 1320 | | | | | | | | |
| 17 | | CB8-4(0-4)-032816 | | 1340 | | | | | | | | |
| 18 | | CB8-5(0-4)-032816 | | 1400 | | | | | | | | |
| 19 | | CB8-6(0-6.8)-032816 | | 1415 | | | | | | | | |
| 20 | | CB8-7(0-6.8)-032816 | | 1430 | | | X | X | X | X | X | |

Turnaround Time Required (Business Days)

___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days ___ Other

Requested Due Date _____

Sample Disposal

Return to Client Disposal by Lab Archive for ___ Months (A fee may be assessed if samples are retained longer than 1 month)

| | | |
|--|---|--|
| Relinquished By: <u>[Signature]</u> Company: <u>EDJ</u> Date: <u>3/28/16</u> Time: <u>1500</u> | Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/28/16</u> Time: <u>1500</u> | Lab Courier: <input checked="" type="checkbox"/> |
| Relinquished By: <u>[Signature]</u> Company: <u>[Signature]</u> Date: <u>3/28/16</u> Time: <u>1545</u> | Received By: <u>[Signature]</u> Company: <u>TAL</u> Date: <u>03/28/16</u> Time: <u>1545</u> | Shipped: <input type="checkbox"/> |
| Relinquished By: _____ Company: _____ Date: _____ Time: _____ | Received By: _____ Company: _____ Date: _____ Time: _____ | Hand Delivered: <input type="checkbox"/> |

Matrix Key

WW - Wastewater SE - Sediment
W - Water SO - Soil
S - Soil L - Leachate
SL - Sludge WI - Wipe
MS - Miscellaneous DW - Drinking Water
OL - Oil O - Other
A - Air

Client Comments

Lab Comments:



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

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

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

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

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

I. Source Location Information

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

Project Name: FAU 3597: IL Route 1 (Halsted St) at Vincennes Rd Office Phone Number, if available: _____

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

15220 S. Halsted Street (ISGS Site No. 2553V-8)

City: Harvey State: IL Zip Code: _____

County: Cook Township: _____

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

Latitude: 41.61264444 Longitude: -87.63655278

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

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

Project Name: FAU 3597: IL Route 1 (Halsted St) at VincennesLatitude: 41.61264444 Longitude: -87.63655278Uncontaminated Site Certification**III. Basis for Certification and Attachments**

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

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

LOCATIONS CB8-1 THROUGH CB8-6 WERE SAMPLED ADJACENT TO ISGS SITE No. 2553V-8. SEE FIGURE 3-1 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

- 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]:

TEST AMERICA REPORTS - JOB ID: 500-109355-1.
ALSO SEE FIGURE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

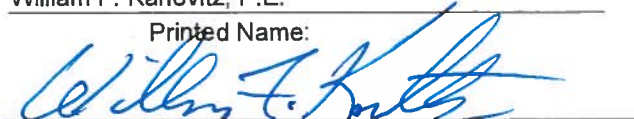
I, William F. Karlovitz, P.E. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with 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: Weston Solutions, Inc.Street Address: 300 Circle Plaza; Suite 202City: Mundelein State: IL Zip Code: 60060Phone: (224) 864-7200

William F. Karlovitz, P.E.

Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

17 May 2016

Date:



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

Summary Table of ISGS Site No. 2553V-8
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAU 3597: Illinois Route 1 (Halsted Street) at Vincennes Road
Harvey, Cook County, Illinois

| Field Sample ID | CB8-1(0-6.8)-032816 | CB8-2(0-4)-032816 | CB8-3(0-4)-032816 | CB8-4(0-4)-032816 | CB8-5(0-4)-032816 | CB8-6(0-6.8)-032816 | Soil Reference Concentrations ^A |
|----------------------------|---------------------|-------------------|-------------------|-------------------|-------------------|---------------------|--|
| Sample Date | 3/28/2016 | 3/28/2016 | 3/28/2016 | 3/28/2016 | 3/28/2016 | 3/28/2016 | |
| Location ID | CB8-1 | CB8-2 | CB8-3 | CB8-4 | CB8-5 | CB8-6 | |
| Depth | 0 - 6.8 | 0 - 4 | 0 - 4 | 0 - 4 | 0 - 4 | 0 - 6.8 | |
| Lab Sample ID | 500-109355-14 | 500-109355-15 | 500-109355-16 | 500-109355-17 | 500-109355-18 | 500-109355-19 | |
| ISGS Site No. | 2553V-8 | 2553V-8 | 2553V-8 | 2553V-8 | 2553V-8 | 2553V-8 | |
| Parameter | | | | | | | |
| Laboratory pH | 8.74 | 8.44 | 8.56 | 8.17 | 8.18 | 8.19 | <6.25,>9.0 |
| VOCs (ug/kg) | | | | | | | |
| Acetone | ND | ND | 70 | ND | 38 | ND | 25000 |
| Methyl ethyl ketone | ND | ND | 7.9 | ND | ND | ND | --- |
| SVOCs (ug/kg) | | | | | | | |
| 2-Methylnaphthalene | ND | 15 J | ND | ND | ND | ND | --- |
| Acenaphthene | 8.7 J | 19 J | ND | ND | ND | 8.3 J | 570000 |
| Acenaphthylene | ND | 13 J | ND | ND | ND | ND | --- |
| Anthracene | 26 J | 100 | 8 J | ND | 13 J | 110 | 1.20E+07 |
| Benzo(a)anthracene | 71 | 660 | 29 J | 40 | 110 | 530 | 900 / 1100 / 1800 |
| Benzo(a)pyrene | 68 | 730 | 34 J | 55 | 140 | 440 | 90 / 1300 / 2100 |
| Benzo(b)fluoranthene | 94 | 1300 | 62 | 80 | 250 | 900 | 900 / 1500 / 2100 |
| Benzo(g,h,i)perylene | 24 J | 290 | 15 J | 23 J | 70 | 200 | --- |
| Benzo(k)fluoranthene | 44 | 470 | 29 J | 31 J | 110 | 330 | 9000 |
| bis(2-Ethylhexyl)phthalate | ND | 87 J | ND | ND | ND | ND | 46000 |
| Chrysene | 79 | 780 | 39 | 54 | 150 | 570 | 88000 |
| Dibenzo(a,h)anthracene | ND | 67 | ND | ND | ND | 63 | 90 / 200 / 420 |
| Fluoranthene | 130 | 1500 | 61 | 56 | 230 | 1300 | 3100000 |
| Fluorene | 8.9 J | 20 J | ND | ND | ND | 11 J | 560000 |
| Indeno(1,2,3-cd)pyrene | 28 J | 370 | 19 J | 27 J | 73 | 210 | 900 / 900 / 1600 |
| Naphthalene, SVOC | ND | 9.9 J | ND | ND | ND | ND | 1800 |
| Phenanthrene | 100 | 470 | 38 J | 60 | 66 | 440 | --- |
| Pyrene | 120 | 1500 | 62 | 67 | 280 | 1500 | 2300000 |

Summary Table of ISGS Site No. 2553V-8
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAU 3597: Illinois Route 1 (Halsted Street) at Vincennes Road
Harvey, Cook County, Illinois

| Field Sample ID | CB8-1(0-6.8)-032816 | CB8-2(0-4)-032816 | CB8-3(0-4)-032816 | CB8-4(0-4)-032816 | CB8-5(0-4)-032816 | CB8-6(0-6.8)-032816 | Soil Reference Concentrations ^A |
|-----------------------------|---------------------|-------------------|-------------------|-------------------|-------------------|---------------------|--|
| Sample Date | 3/28/2016 | 3/28/2016 | 3/28/2016 | 3/28/2016 | 3/28/2016 | 3/28/2016 | |
| Location ID | CB8-1 | CB8-2 | CB8-3 | CB8-4 | CB8-5 | CB8-6 | |
| Depth | 0 - 6.8 | 0 - 4 | 0 - 4 | 0 - 4 | 0 - 4 | 0 - 6.8 | |
| Lab Sample ID | 500-109355-14 | 500-109355-15 | 500-109355-16 | 500-109355-17 | 500-109355-18 | 500-109355-19 | |
| ISGS Site No. | 2553V-8 | 2553V-8 | 2553V-8 | 2553V-8 | 2553V-8 | 2553V-8 | |
| Parameter | | | | | | | |
| Total Metals (mg/kg) | | | | | | | |
| Arsenic, Total | 7.9 | 5.5 | 4.4 | 3.2 | 9.8 | 4.5 | 11.3 / 13.0 |
| Barium, Total | 71 J | 56 J | 66 J | 71 J | 58 J | 190 J | 1500 |
| Beryllium, Total | 0.78 | 0.86 | 0.94 | 1 | 0.94 | 1.1 | 22 |
| Cadmium, Total | 0.12 J- | 0.094 J | 0.35 J- | 0.14 J- | ND | 0.23 J- | 5.2 |
| Calcium, Total | 27000 J | 8600 J | 4500 J | 5200 J | 17000 J | 17000 J | --- |
| Chromium, Total | 19 J- | 22 J- | 19 J- | 23 J- | 22 J- | 21 J- | 21 |
| Cobalt, Total | 15 J | 15 J | 12 J | 12 J | 16 J | 14 J | 20 |
| Copper, Total | 23 | 25 | 35 | 22 | 29 | 23 | 2900 |
| Iron, Total | 24000 J- | 21000 J- | 19000 J- | 18000 J- | 25000 J- | 18000 J- | 15000 / 15900 |
| Lead, Total | 15 J+ | 52 J+ | 38 J+ | 29 J+ | 32 J+ | 26 J+ | 107 |
| Magnesium, Total | 18000 J | 8400 J | 5000 J | 6400 J | 14000 J | 9600 J | 325000 |
| Manganese, Total | 510 J | 220 J | 130 J | 130 J | 220 J | 270 J | 630 / 636 |
| Mercury, Total | ND | 0.019 | 0.034 | 0.031 | 0.036 | 0.045 | 0.89 |
| Nickel, Total | 39 J | 39 J | 36 J | 37 J | 39 J | 36 J | 100 |
| Potassium, Total | 3200 J+ | 2100 J+ | 2600 J+ | 2400 J+ | 1900 J+ | 2000 J+ | --- |
| Selenium, Total | 0.97 J- | 0.78 J- | 0.95 J- | 0.78 J- | 0.66 J- | 0.66 J- | 1.3 |
| Sodium, Total | 680 J- | 1400 J- | 1800 J- | 880 J- | 880 J- | 830 J- | --- |
| Thallium, Total | 0.48 J | 0.36 J | ND | ND | 0.38 J | ND | 2.6 |
| Vanadium, Total | 22 | 23 | 22 | 24 | 27 | 18 | 550 |
| Zinc, Total | 63 J- | 100 J- | 89 J- | 71 J- | 120 J- | 120 J- | 5100 |
| TCLP Metals (mg/l) | | | | | | | |
| Arsenic, TCLP | ND | ND | ND | ND | ND | ND | 0.05 |
| Barium, TCLP | 0.4 J | 0.35 J | 0.28 J | 0.3 J | 0.29 J | 0.37 J | 2 |
| Beryllium, TCLP | ND | ND | ND | ND | ND | ND | 0.004 |
| Cadmium, TCLP | ND | ND | ND | ND | 0.002 J | 0.0036 J | 0.005 |
| Chromium, TCLP | ND | ND | ND | ND | ND | ND | 0.1 |
| Cobalt, TCLP | ND | ND | 0.014 J | ND | 0.012 J | 0.011 J | 1 |
| Copper, TCLP | ND | ND | ND | ND | ND | ND | 0.65 |
| Iron, TCLP | ND | ND | 0.68 | ND | ND | ND | 5 |
| Lead, TCLP | ND | 0.02 | 0.01 | 0.013 | 0.013 | 0.012 | 0.0075 |
| Manganese, TCLP | 1.4 | 0.68 | 2.9 | 0.69 | 1.4 | 2.6 | 0.15 |
| Mercury, TCLP | ND | ND | ND | ND | ND | ND | 0.002 |
| Nickel, TCLP | ND | ND | 0.012 J | ND | ND | 0.01 J | 0.1 |
| Selenium, TCLP | ND | ND | ND | ND | ND | ND | 0.05 |
| Zinc, TCLP | 0.14 J | 0.61 | 0.21 J | 1.8 | 0.28 J | 0.63 | 5 |

Summary Table of ISGS Site No. 2553V-8
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAU 3597: Illinois Route 1 (Halsted Street) at Vincennes Road
Harvey, Cook County, Illinois

| Field Sample ID | CB8-1(0-6.8)-032816 | CB8-2(0-4)-032816 | CB8-3(0-4)-032816 | CB8-4(0-4)-032816 | CB8-5(0-4)-032816 | CB8-6(0-6.8)-032816 | Soil Reference Concentrations ^A |
|---------------------------|---------------------|-------------------|-------------------|-------------------|-------------------|---------------------|--|
| Sample Date | 3/28/2016 | 3/28/2016 | 3/28/2016 | 3/28/2016 | 3/28/2016 | 3/28/2016 | |
| Location ID | CB8-1 | CB8-2 | CB8-3 | CB8-4 | CB8-5 | CB8-6 | |
| Depth | 0 - 6.8 | 0 - 4 | 0 - 4 | 0 - 4 | 0 - 4 | 0 - 6.8 | |
| Lab Sample ID | 500-109355-14 | 500-109355-15 | 500-109355-16 | 500-109355-17 | 500-109355-18 | 500-109355-19 | |
| ISGS Site No. | 2553V-8 | 2553V-8 | 2553V-8 | 2553V-8 | 2553V-8 | 2553V-8 | |
| Parameter | | | | | | | |
| SPLP Metals (mg/l) | | | | | | | |
| Arsenic, SPLP | 0.091 | 0.04 J | 0.075 | 0.04 J | ND | 0.055 | 0.05 |
| Barium, SPLP | 0.6 | 0.71 | 0.67 | 0.8 | 0.07 J | 0.57 | 2 |
| Beryllium, SPLP | 0.01 | 0.011 | 0.012 | 0.012 | ND | 0.009 | 0.004 |
| Cadmium, SPLP | ND | ND | ND | ND | ND | ND | 0.005 |
| Chromium, SPLP | 0.24 | 0.26 | 0.29 | 0.3 | 0.026 | 0.22 | 0.1 |
| Cobalt, SPLP | 0.096 | 0.082 | 0.13 | 0.092 | ND | 0.083 | 1 |
| Copper, SPLP | 0.22 | 0.29 | 0.33 | 0.19 | 0.015 J | 0.2 | 0.65 |
| Iron, SPLP | 280 J+ | 190 J+ | 260 J+ | 200 J+ | 17 J+ | 200 J+ | 5 |
| Lead, SPLP | 0.26 | 0.33 | 0.23 | 0.26 | 0.014 | 0.25 | 0.0075 |
| Manganese, SPLP | 1 | 0.8 | 1.9 | 0.76 | 0.081 | 1 | 0.15 |
| Mercury, SPLP | ND | ND | ND | ND | ND | ND | 0.002 |
| Nickel, SPLP | 0.28 | 0.27 | 0.35 | 0.29 | 0.021 J | 0.22 | 0.1 |
| Selenium, SPLP | ND | ND | ND | ND | ND | ND | 0.05 |
| Zinc, SPLP | 0.8 | 1.7 | 0.89 | 0.91 | 0.1 J | 1.6 | 5 |

Notes:

--- - not applicable or value not available.

^A - Soil reference concentrations from MAC Table. Background values for MSA Counties and Chicago corporate limits are included, as applicable.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J+ - Estimated concentration; biased high.

J- - Estimated concentration; biased low.

Shaded values indicate concentration **exceeds** Reference Concentration.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-109355-1

Client Project/Site: IDOT - Harvey IL Route 113 - WO 041

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

Attn: Ms. Patricia Feeley



Authorized for release by:
4/5/2016 2:37:47 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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15

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109355-1

Client Sample ID: CB8-1(0-6.8)-032816

Lab Sample ID: 500-109355-14

Date Collected: 03/28/16 12:50

Matrix: Solid

Date Received: 03/28/16 15:45

Percent Solids: 79.9

Method: 8260B - VOC

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Acetone | <25 | | 25 | 4.8 | ug/Kg | ☼ | | 03/31/16 14:43 | 1 |
| Benzene | <6.3 | | 6.3 | 1.4 | ug/Kg | ☼ | | 03/31/16 14:43 | 1 |
| Bromodichloromethane | <6.3 | | 6.3 | 1.1 | ug/Kg | ☼ | | 03/31/16 14:43 | 1 |
| Bromoform | <6.3 | | 6.3 | 1.3 | ug/Kg | ☼ | | 03/31/16 14:43 | 1 |
| Bromomethane | <6.3 | | 6.3 | 2.3 | ug/Kg | ☼ | | 03/31/16 14:43 | 1 |
| Carbon disulfide | <6.3 | | 6.3 | 2.3 | ug/Kg | ☼ | | 03/31/16 14:43 | 1 |
| Carbon tetrachloride | <6.3 | | 6.3 | 1.3 | ug/Kg | ☼ | | 03/31/16 14:43 | 1 |
| Chlorobenzene | <6.3 | | 6.3 | 1.5 | ug/Kg | ☼ | | 03/31/16 14:43 | 1 |
| Chloroethane | <6.3 | | 6.3 | 2.6 | ug/Kg | ☼ | | 03/31/16 14:43 | 1 |
| Chloroform | <6.3 | | 6.3 | 1.2 | ug/Kg | ☼ | | 03/31/16 14:43 | 1 |
| Chloromethane | <6.3 | | 6.3 | 1.5 | ug/Kg | ☼ | | 03/31/16 14:43 | 1 |
| cis-1,2-Dichloroethene | <6.3 | | 6.3 | 1.3 | ug/Kg | ☼ | | 03/31/16 14:43 | 1 |
| cis-1,3-Dichloropropene | <6.3 | | 6.3 | 1.4 | ug/Kg | ☼ | | 03/31/16 14:43 | 1 |
| Dibromochloromethane | <6.3 | | 6.3 | 0.72 | ug/Kg | ☼ | | 03/31/16 14:43 | 1 |
| 1,1-Dichloroethane | <6.3 | | 6.3 | 1.3 | ug/Kg | ☼ | | 03/31/16 14:43 | 1 |
| 1,2-Dichloroethane | <6.3 | | 6.3 | 0.93 | ug/Kg | ☼ | | 03/31/16 14:43 | 1 |
| 1,1-Dichloroethene | <6.3 | | 6.3 | 2.3 | ug/Kg | ☼ | | 03/31/16 14:43 | 1 |
| 1,2-Dichloropropane | <6.3 | | 6.3 | 1.6 | ug/Kg | ☼ | | 03/31/16 14:43 | 1 |
| 1,3-Dichloropropene, Total | <6.3 | | 6.3 | 1.8 | ug/Kg | ☼ | | 03/31/16 14:43 | 1 |
| Ethylbenzene | <6.3 | | 6.3 | 1.6 | ug/Kg | ☼ | | 03/31/16 14:43 | 1 |
| 2-Hexanone | <6.3 | | 6.3 | 1.9 | ug/Kg | ☼ | | 03/31/16 14:43 | 1 |
| Methylene Chloride | <6.3 | | 6.3 | 4.7 | ug/Kg | ☼ | | 03/31/16 14:43 | 1 |
| Methyl Ethyl Ketone | <6.3 | | 6.3 | 2.2 | ug/Kg | ☼ | | 03/31/16 14:43 | 1 |
| methyl isobutyl ketone | <6.3 | | 6.3 | 1.3 | ug/Kg | ☼ | | 03/31/16 14:43 | 1 |
| Methyl tert-butyl ether | <6.3 | | 6.3 | 1.5 | ug/Kg | ☼ | | 03/31/16 14:43 | 1 |
| Styrene | <6.3 | | 6.3 | 1.5 | ug/Kg | ☼ | | 03/31/16 14:43 | 1 |
| 1,1,2,2-Tetrachloroethane | <6.3 | | 6.3 | 0.99 | ug/Kg | ☼ | | 03/31/16 14:43 | 1 |
| Tetrachloroethene | <6.3 | | 6.3 | 1.3 | ug/Kg | ☼ | | 03/31/16 14:43 | 1 |
| Toluene | <6.3 | | 6.3 | 2.2 | ug/Kg | ☼ | | 03/31/16 14:43 | 1 |
| trans-1,2-Dichloroethene | <6.3 | | 6.3 | 1.6 | ug/Kg | ☼ | | 03/31/16 14:43 | 1 |
| trans-1,3-Dichloropropene | <6.3 | | 6.3 | 1.8 | ug/Kg | ☼ | | 03/31/16 14:43 | 1 |
| 1,1,1-Trichloroethane | <6.3 | | 6.3 | 1.5 | ug/Kg | ☼ | | 03/31/16 14:43 | 1 |
| 1,1,2-Trichloroethane | <6.3 | | 6.3 | 1.2 | ug/Kg | ☼ | | 03/31/16 14:43 | 1 |
| Trichloroethene | <6.3 | | 6.3 | 1.7 | ug/Kg | ☼ | | 03/31/16 14:43 | 1 |
| Vinyl chloride | <6.3 | | 6.3 | 1.5 | ug/Kg | ☼ | | 03/31/16 14:43 | 1 |
| Xylenes, Total | <13 | | 13 | 2.3 | ug/Kg | ☼ | | 03/31/16 14:43 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 106 | | 70 - 120 | | 03/31/16 14:43 | 1 |
| Dibromofluoromethane | 112 | | 75 - 120 | | 03/31/16 14:43 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 111 | | 69 - 134 | | 03/31/16 14:43 | 1 |
| Toluene-d8 (Surr) | 116 | | 75 - 123 | | 03/31/16 14:43 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,2,4-Trichlorobenzene | <200 | | 200 | 43 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:01 | 1 |
| 1,2-Dichlorobenzene | <200 | | 200 | 48 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:01 | 1 |
| 1,3-Dichlorobenzene | <200 | | 200 | 45 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:01 | 1 |
| 1,4-Dichlorobenzene | <200 | | 200 | 52 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:01 | 1 |
| 2,2'-oxybis[1-chloropropane] | <200 | | 200 | 47 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:01 | 1 |

TestAmerica Chicago

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TestAmerica Job ID: 500-109355-1

Client Sample ID: CB8-1(0-6.8)-032816

Lab Sample ID: 500-109355-14

Date Collected: 03/28/16 12:50

Matrix: Solid

Date Received: 03/28/16 15:45

Percent Solids: 79.9

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol | <400 | | 400 | 92 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:01 | 1 |
| 2,4,6-Trichlorophenol | <400 | | 400 | 140 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:01 | 1 |
| 2,4-Dichlorophenol | <400 | | 400 | 96 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:01 | 1 |
| 2,4-Dimethylphenol | <400 | | 400 | 150 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:01 | 1 |
| 2,4-Dinitrophenol | <810 | | 810 | 710 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:01 | 1 |
| 2,4-Dinitrotoluene | <200 | | 200 | 64 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:01 | 1 |
| 2,6-Dinitrotoluene | <200 | | 200 | 79 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:01 | 1 |
| 2-Chloronaphthalene | <200 | | 200 | 44 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:01 | 1 |
| 2-Chlorophenol | <200 | | 200 | 69 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:01 | 1 |
| 2-Methylnaphthalene | <40 | | 40 | 7.4 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:01 | 1 |
| 2-Methylphenol | <200 | | 200 | 65 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:01 | 1 |
| 2-Nitroaniline | <200 | | 200 | 54 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:01 | 1 |
| 2-Nitrophenol | <400 | | 400 | 95 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:01 | 1 |
| 3 & 4 Methylphenol | <200 | | 200 | 67 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:01 | 1 |
| 3,3'-Dichlorobenzidine | <200 | | 200 | 56 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:01 | 1 |
| 3-Nitroaniline | <400 | | 400 | 120 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:01 | 1 |
| 4,6-Dinitro-2-methylphenol | <810 | | 810 | 320 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:01 | 1 |
| 4-Bromophenyl phenyl ether | <200 | | 200 | 53 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:01 | 1 |
| 4-Chloro-3-methylphenol | <400 | | 400 | 140 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:01 | 1 |
| 4-Chloroaniline | <810 | | 810 | 190 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:01 | 1 |
| 4-Chlorophenyl phenyl ether | <200 | | 200 | 47 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:01 | 1 |
| 4-Nitroaniline | <400 | | 400 | 170 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:01 | 1 |
| 4-Nitrophenol | <810 | | 810 | 380 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:01 | 1 |
| Acenaphthene | 8.7 J | | 40 | 7.2 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:01 | 1 |
| Acenaphthylene | <40 | | 40 | 5.3 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:01 | 1 |
| Anthracene | 26 J | | 40 | 6.7 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:01 | 1 |
| Benzo[a]anthracene | 71 | | 40 | 5.4 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:01 | 1 |
| Benzo[a]pyrene | 68 | | 40 | 7.8 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:01 | 1 |
| Benzo[b]fluoranthene | 94 | | 40 | 8.7 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:01 | 1 |
| Benzo[g,h,i]perylene | 24 J | | 40 | 13 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:01 | 1 |
| Benzo[k]fluoranthene | 44 | | 40 | 12 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:01 | 1 |
| Bis(2-chloroethoxy)methane | <200 | | 200 | 41 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:01 | 1 |
| Bis(2-chloroethyl)ether | <200 | | 200 | 60 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:01 | 1 |
| Bis(2-ethylhexyl) phthalate | <200 | | 200 | 74 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:01 | 1 |
| Butyl benzyl phthalate | <200 | | 200 | 77 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:01 | 1 |
| Carbazole | <200 | | 200 | 100 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:01 | 1 |
| Chrysene | 79 | | 40 | 11 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:01 | 1 |
| Dibenz(a,h)anthracene | <40 | | 40 | 7.8 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:01 | 1 |
| Dibenzofuran | <200 | | 200 | 47 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:01 | 1 |
| Diethyl phthalate | <200 | | 200 | 68 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:01 | 1 |
| Dimethyl phthalate | <200 | | 200 | 53 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:01 | 1 |
| Di-n-butyl phthalate | <200 | | 200 | 61 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:01 | 1 |
| Di-n-octyl phthalate | <200 | | 200 | 66 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:01 | 1 |
| Fluoranthene | 130 | | 40 | 7.5 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:01 | 1 |
| Fluorene | 8.9 J | | 40 | 5.7 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:01 | 1 |
| Hexachlorobenzene | <81 | | 81 | 9.3 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:01 | 1 |
| Hexachlorobutadiene | <200 | | 200 | 63 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:01 | 1 |
| Hexachlorocyclopentadiene | <810 | | 810 | 230 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:01 | 1 |
| Hexachloroethane | <200 | | 200 | 61 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:01 | 1 |

TestAmerica Chicago

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TestAmerica Job ID: 500-109355-1

Client Sample ID: CB8-1(0-6.8)-032816

Lab Sample ID: 500-109355-14

Date Collected: 03/28/16 12:50

Matrix: Solid

Date Received: 03/28/16 15:45

Percent Solids: 79.9

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| Indeno[1,2,3-cd]pyrene | 28 | J | 40 | 10 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:01 | 1 |
| Isophorone | <200 | | 200 | 45 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:01 | 1 |
| Naphthalene | <40 | | 40 | 6.2 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:01 | 1 |
| Nitrobenzene | <40 | | 40 | 10 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:01 | 1 |
| N-Nitrosodi-n-propylamine | <81 | | 81 | 49 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:01 | 1 |
| N-Nitrosodiphenylamine | <200 | | 200 | 48 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:01 | 1 |
| Pentachlorophenol | <810 | | 810 | 650 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:01 | 1 |
| Phenanthrene | 100 | | 40 | 5.6 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:01 | 1 |
| Phenol | <200 | | 200 | 89 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:01 | 1 |
| Pyrene | 120 | | 40 | 8.0 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:01 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| <i>2,4,6-Tribromophenol</i> | 52 | | 25 - 130 | | | | 03/29/16 08:11 | 04/01/16 20:01 | 1 |
| <i>2-Fluorobiphenyl</i> | 67 | | 42 - 115 | | | | 03/29/16 08:11 | 04/01/16 20:01 | 1 |
| <i>2-Fluorophenol</i> | 70 | | 40 - 130 | | | | 03/29/16 08:11 | 04/01/16 20:01 | 1 |
| <i>Nitrobenzene-d5</i> | 59 | | 33 - 124 | | | | 03/29/16 08:11 | 04/01/16 20:01 | 1 |
| <i>Phenol-d5</i> | 54 | | 36 - 123 | | | | 03/29/16 08:11 | 04/01/16 20:01 | 1 |
| <i>Terphenyl-d14</i> | 78 | | 25 - 150 | | | | 03/29/16 08:11 | 04/01/16 20:01 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|-------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.050 | | 0.050 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 15:56 | 1 |
| Barium | 0.40 | J | 0.50 | 0.050 | mg/L | | 03/31/16 15:12 | 04/01/16 15:56 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 03/31/16 15:12 | 04/01/16 15:56 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 03/31/16 15:12 | 04/01/16 15:56 | 1 |
| Chromium | <0.025 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 15:56 | 1 |
| Cobalt | <0.025 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 15:56 | 1 |
| Copper | <0.025 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 15:56 | 1 |
| Iron | <0.40 | | 0.40 | 0.20 | mg/L | | 03/31/16 15:12 | 04/01/16 15:56 | 1 |
| Lead | <0.0075 | | 0.0075 | 0.0075 | mg/L | | 03/31/16 15:12 | 04/01/16 15:56 | 1 |
| Manganese | 1.4 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 15:56 | 1 |
| Nickel | <0.025 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 15:56 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 03/31/16 15:12 | 04/01/16 15:56 | 1 |
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 15:56 | 1 |
| Zinc | 0.14 | J | 0.50 | 0.020 | mg/L | | 03/31/16 15:12 | 04/01/16 15:56 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.091 | | 0.050 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 17:38 | 1 |
| Barium | 0.60 | | 0.50 | 0.050 | mg/L | | 03/30/16 15:14 | 03/31/16 17:38 | 1 |
| Beryllium | 0.010 | | 0.0040 | 0.0040 | mg/L | | 03/30/16 15:14 | 03/31/16 17:38 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 03/30/16 15:14 | 03/31/16 17:38 | 1 |
| Chromium | 0.24 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 17:38 | 1 |
| Cobalt | 0.096 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 17:38 | 1 |
| Copper | 0.22 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 17:38 | 1 |
| Iron | 280 | | 0.40 | 0.20 | mg/L | | 03/30/16 15:14 | 03/31/16 17:38 | 1 |
| Lead | 0.26 | | 0.0075 | 0.0075 | mg/L | | 03/30/16 15:14 | 03/31/16 17:38 | 1 |
| Manganese | 1.0 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 17:38 | 1 |
| Nickel | 0.28 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 17:38 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 03/30/16 15:14 | 03/31/16 17:38 | 1 |

TestAmerica Chicago

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 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109355-1

Client Sample ID: CB8-1(0-6.8)-032816

Lab Sample ID: 500-109355-14

Date Collected: 03/28/16 12:50

Matrix: Solid

Date Received: 03/28/16 15:45

Percent Solids: 79.9

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|-------------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 17:38 | 1 |
| Zinc | 0.80 | | 0.50 | 0.020 | mg/L | | 03/30/16 15:14 | 03/31/16 17:38 | 1 |

Method: 6010B - Total Metals

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | <1.2 | | 1.2 | 0.24 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:27 | 1 |
| Arsenic | 7.9 | | 0.58 | 0.27 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:27 | 1 |
| Barium | 71 | | 0.58 | 0.11 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:27 | 1 |
| Beryllium | 0.78 | | 0.23 | 0.050 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:27 | 1 |
| Cadmium | 0.12 | | 0.12 | 0.033 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:27 | 1 |
| Calcium | 27000 | B | 12 | 3.7 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:27 | 1 |
| Chromium | 19 | | 0.58 | 0.099 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:27 | 1 |
| Cobalt | 15 | | 0.29 | 0.065 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:27 | 1 |
| Copper | 23 | | 0.58 | 0.13 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:27 | 1 |
| Iron | 24000 | B | 12 | 4.4 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:27 | 1 |
| Lead | 15 | | 0.29 | 0.14 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:27 | 1 |
| Magnesium | 18000 | | 5.8 | 2.3 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:27 | 1 |
| Manganese | 510 | | 0.58 | 0.11 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:27 | 1 |
| Nickel | 39 | | 0.58 | 0.16 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:27 | 1 |
| Potassium | 3200 | B | 29 | 4.7 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:27 | 1 |
| Selenium | 0.97 | | 0.58 | 0.29 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:27 | 1 |
| Silver | <0.29 | | 0.29 | 0.067 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:27 | 1 |
| Sodium | 680 | B | 58 | 7.6 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:27 | 1 |
| Thallium | 0.48 | J | 0.58 | 0.28 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:27 | 1 |
| Vanadium | 22 | | 0.29 | 0.084 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:27 | 1 |
| Zinc | 63 | | 1.2 | 0.37 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:27 | 1 |

Method: 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 03/31/16 13:40 | 04/01/16 10:57 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 03/30/16 13:30 | 03/31/16 11:13 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Mercury | <20 | | 20 | 11 | ug/Kg | ☼ | 03/29/16 16:30 | 03/30/16 10:20 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-------------|-----------|-------|-------|------|---|----------|----------------|---------|
| pH | 8.74 | | 0.200 | 0.200 | SU | | | 03/30/16 15:53 | 1 |

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109355-1

Client Sample ID: CB8-2(0-4)-032816

Lab Sample ID: 500-109355-15

Date Collected: 03/28/16 13:05

Matrix: Solid

Date Received: 03/28/16 15:45

Percent Solids: 85.1

Method: 8260B - VOC

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Acetone | <24 | | 24 | 4.5 | ug/Kg | ☼ | | 03/31/16 15:08 | 1 |
| Benzene | <5.9 | | 5.9 | 1.3 | ug/Kg | ☼ | | 03/31/16 15:08 | 1 |
| Bromodichloromethane | <5.9 | | 5.9 | 0.99 | ug/Kg | ☼ | | 03/31/16 15:08 | 1 |
| Bromoform | <5.9 | | 5.9 | 1.2 | ug/Kg | ☼ | | 03/31/16 15:08 | 1 |
| Bromomethane | <5.9 | | 5.9 | 2.2 | ug/Kg | ☼ | | 03/31/16 15:08 | 1 |
| Carbon disulfide | <5.9 | | 5.9 | 2.2 | ug/Kg | ☼ | | 03/31/16 15:08 | 1 |
| Carbon tetrachloride | <5.9 | | 5.9 | 1.3 | ug/Kg | ☼ | | 03/31/16 15:08 | 1 |
| Chlorobenzene | <5.9 | | 5.9 | 1.4 | ug/Kg | ☼ | | 03/31/16 15:08 | 1 |
| Chloroethane | <5.9 | | 5.9 | 2.5 | ug/Kg | ☼ | | 03/31/16 15:08 | 1 |
| Chloroform | <5.9 | | 5.9 | 1.1 | ug/Kg | ☼ | | 03/31/16 15:08 | 1 |
| Chloromethane | <5.9 | | 5.9 | 1.4 | ug/Kg | ☼ | | 03/31/16 15:08 | 1 |
| cis-1,2-Dichloroethene | <5.9 | | 5.9 | 1.2 | ug/Kg | ☼ | | 03/31/16 15:08 | 1 |
| cis-1,3-Dichloropropene | <5.9 | | 5.9 | 1.3 | ug/Kg | ☼ | | 03/31/16 15:08 | 1 |
| Dibromochloromethane | <5.9 | | 5.9 | 0.68 | ug/Kg | ☼ | | 03/31/16 15:08 | 1 |
| 1,1-Dichloroethane | <5.9 | | 5.9 | 1.2 | ug/Kg | ☼ | | 03/31/16 15:08 | 1 |
| 1,2-Dichloroethane | <5.9 | | 5.9 | 0.87 | ug/Kg | ☼ | | 03/31/16 15:08 | 1 |
| 1,1-Dichloroethene | <5.9 | | 5.9 | 2.1 | ug/Kg | ☼ | | 03/31/16 15:08 | 1 |
| 1,2-Dichloropropane | <5.9 | | 5.9 | 1.5 | ug/Kg | ☼ | | 03/31/16 15:08 | 1 |
| 1,3-Dichloropropene, Total | <5.9 | | 5.9 | 1.7 | ug/Kg | ☼ | | 03/31/16 15:08 | 1 |
| Ethylbenzene | <5.9 | | 5.9 | 1.5 | ug/Kg | ☼ | | 03/31/16 15:08 | 1 |
| 2-Hexanone | <5.9 | | 5.9 | 1.8 | ug/Kg | ☼ | | 03/31/16 15:08 | 1 |
| Methylene Chloride | <5.9 | | 5.9 | 4.4 | ug/Kg | ☼ | | 03/31/16 15:08 | 1 |
| Methyl Ethyl Ketone | <5.9 | | 5.9 | 2.1 | ug/Kg | ☼ | | 03/31/16 15:08 | 1 |
| methyl isobutyl ketone | <5.9 | | 5.9 | 1.2 | ug/Kg | ☼ | | 03/31/16 15:08 | 1 |
| Methyl tert-butyl ether | <5.9 | | 5.9 | 1.4 | ug/Kg | ☼ | | 03/31/16 15:08 | 1 |
| Styrene | <5.9 | | 5.9 | 1.4 | ug/Kg | ☼ | | 03/31/16 15:08 | 1 |
| 1,1,2,2-Tetrachloroethane | <5.9 | | 5.9 | 0.93 | ug/Kg | ☼ | | 03/31/16 15:08 | 1 |
| Tetrachloroethene | <5.9 | | 5.9 | 1.2 | ug/Kg | ☼ | | 03/31/16 15:08 | 1 |
| Toluene | <5.9 | | 5.9 | 2.0 | ug/Kg | ☼ | | 03/31/16 15:08 | 1 |
| trans-1,2-Dichloroethene | <5.9 | | 5.9 | 1.5 | ug/Kg | ☼ | | 03/31/16 15:08 | 1 |
| trans-1,3-Dichloropropene | <5.9 | | 5.9 | 1.7 | ug/Kg | ☼ | | 03/31/16 15:08 | 1 |
| 1,1,1-Trichloroethane | <5.9 | | 5.9 | 1.4 | ug/Kg | ☼ | | 03/31/16 15:08 | 1 |
| 1,1,2-Trichloroethane | <5.9 | | 5.9 | 1.1 | ug/Kg | ☼ | | 03/31/16 15:08 | 1 |
| Trichloroethene | <5.9 | | 5.9 | 1.6 | ug/Kg | ☼ | | 03/31/16 15:08 | 1 |
| Vinyl chloride | <5.9 | | 5.9 | 1.4 | ug/Kg | ☼ | | 03/31/16 15:08 | 1 |
| Xylenes, Total | <12 | | 12 | 2.2 | ug/Kg | ☼ | | 03/31/16 15:08 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 106 | | 70 - 120 | | 03/31/16 15:08 | 1 |
| Dibromofluoromethane | 114 | | 75 - 120 | | 03/31/16 15:08 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 113 | | 69 - 134 | | 03/31/16 15:08 | 1 |
| Toluene-d8 (Surr) | 114 | | 75 - 123 | | 03/31/16 15:08 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,2,4-Trichlorobenzene | <190 | | 190 | 40 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:26 | 1 |
| 1,2-Dichlorobenzene | <190 | | 190 | 45 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:26 | 1 |
| 1,3-Dichlorobenzene | <190 | | 190 | 42 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:26 | 1 |
| 1,4-Dichlorobenzene | <190 | | 190 | 48 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:26 | 1 |
| 2,2'-oxybis[1-chloropropane] | <190 | | 190 | 43 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:26 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109355-1

Client Sample ID: CB8-2(0-4)-032816

Lab Sample ID: 500-109355-15

Date Collected: 03/28/16 13:05

Matrix: Solid

Date Received: 03/28/16 15:45

Percent Solids: 85.1

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|-------------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol | <370 | | 370 | 86 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:26 | 1 |
| 2,4,6-Trichlorophenol | <370 | | 370 | 130 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:26 | 1 |
| 2,4-Dichlorophenol | <370 | | 370 | 89 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:26 | 1 |
| 2,4-Dimethylphenol | <370 | | 370 | 140 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:26 | 1 |
| 2,4-Dinitrophenol | <760 | | 760 | 660 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:26 | 1 |
| 2,4-Dinitrotoluene | <190 | | 190 | 60 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:26 | 1 |
| 2,6-Dinitrotoluene | <190 | | 190 | 74 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:26 | 1 |
| 2-Chloronaphthalene | <190 | | 190 | 41 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:26 | 1 |
| 2-Chlorophenol | <190 | | 190 | 64 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:26 | 1 |
| 2-Methylnaphthalene | 15 | J | 37 | 6.9 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:26 | 1 |
| 2-Methylphenol | <190 | | 190 | 60 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:26 | 1 |
| 2-Nitroaniline | <190 | | 190 | 50 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:26 | 1 |
| 2-Nitrophenol | <370 | | 370 | 89 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:26 | 1 |
| 3 & 4 Methylphenol | <190 | | 190 | 62 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:26 | 1 |
| 3,3'-Dichlorobenzidine | <190 | | 190 | 52 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:26 | 1 |
| 3-Nitroaniline | <370 | | 370 | 120 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:26 | 1 |
| 4,6-Dinitro-2-methylphenol | <760 | | 760 | 300 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:26 | 1 |
| 4-Bromophenyl phenyl ether | <190 | | 190 | 49 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:26 | 1 |
| 4-Chloro-3-methylphenol | <370 | | 370 | 130 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:26 | 1 |
| 4-Chloroaniline | <760 | | 760 | 180 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:26 | 1 |
| 4-Chlorophenyl phenyl ether | <190 | | 190 | 44 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:26 | 1 |
| 4-Nitroaniline | <370 | | 370 | 160 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:26 | 1 |
| 4-Nitrophenol | <760 | | 760 | 360 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:26 | 1 |
| Acenaphthene | 19 | J | 37 | 6.7 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:26 | 1 |
| Acenaphthylene | 13 | J | 37 | 4.9 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:26 | 1 |
| Anthracene | 100 | | 37 | 6.3 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:26 | 1 |
| Benzo[a]anthracene | 660 | | 37 | 5.0 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:26 | 1 |
| Benzo[a]pyrene | 730 | | 37 | 7.3 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:26 | 1 |
| Benzo[b]fluoranthene | 1300 | | 37 | 8.1 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:26 | 1 |
| Benzo[g,h,i]perylene | 290 | | 37 | 12 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:26 | 1 |
| Benzo[k]fluoranthene | 470 | | 37 | 11 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:26 | 1 |
| Bis(2-chloroethoxy)methane | <190 | | 190 | 38 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:26 | 1 |
| Bis(2-chloroethyl)ether | <190 | | 190 | 56 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:26 | 1 |
| Bis(2-ethylhexyl) phthalate | 87 | J | 190 | 68 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:26 | 1 |
| Butyl benzyl phthalate | <190 | | 190 | 71 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:26 | 1 |
| Carbazole | <190 | | 190 | 94 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:26 | 1 |
| Chrysene | 780 | | 37 | 10 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:26 | 1 |
| Dibenz(a,h)anthracene | 67 | | 37 | 7.2 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:26 | 1 |
| Dibenzofuran | <190 | | 190 | 44 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:26 | 1 |
| Diethyl phthalate | <190 | | 190 | 64 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:26 | 1 |
| Dimethyl phthalate | <190 | | 190 | 49 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:26 | 1 |
| Di-n-butyl phthalate | <190 | | 190 | 57 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:26 | 1 |
| Di-n-octyl phthalate | <190 | | 190 | 61 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:26 | 1 |
| Fluoranthene | 1500 | | 37 | 6.9 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:26 | 1 |
| Fluorene | 20 | J | 37 | 5.3 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:26 | 1 |
| Hexachlorobenzene | <76 | | 76 | 8.7 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:26 | 1 |
| Hexachlorobutadiene | <190 | | 190 | 59 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:26 | 1 |
| Hexachlorocyclopentadiene | <760 | | 760 | 220 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:26 | 1 |
| Hexachloroethane | <190 | | 190 | 57 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:26 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109355-1

Client Sample ID: CB8-2(0-4)-032816

Lab Sample ID: 500-109355-15

Date Collected: 03/28/16 13:05

Matrix: Solid

Date Received: 03/28/16 15:45

Percent Solids: 85.1

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| Indeno[1,2,3-cd]pyrene | 370 | | 37 | 9.7 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:26 | 1 |
| Isophorone | <190 | | 190 | 42 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:26 | 1 |
| Naphthalene | 9.9 J | | 37 | 5.8 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:26 | 1 |
| Nitrobenzene | <37 | | 37 | 9.4 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:26 | 1 |
| N-Nitrosodi-n-propylamine | <76 | | 76 | 46 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:26 | 1 |
| N-Nitrosodiphenylamine | <190 | | 190 | 44 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:26 | 1 |
| Pentachlorophenol | <760 | | 760 | 600 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:26 | 1 |
| Phenanthrene | 470 | | 37 | 5.2 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:26 | 1 |
| Phenol | <190 | | 190 | 83 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:26 | 1 |
| Pyrene | 1500 | | 37 | 7.4 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:26 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2,4,6-Tribromophenol | 71 | | 25 - 130 | | | | 03/29/16 08:11 | 04/01/16 20:26 | 1 |
| 2-Fluorobiphenyl | 76 | | 42 - 115 | | | | 03/29/16 08:11 | 04/01/16 20:26 | 1 |
| 2-Fluorophenol | 70 | | 40 - 130 | | | | 03/29/16 08:11 | 04/01/16 20:26 | 1 |
| Nitrobenzene-d5 | 58 | | 33 - 124 | | | | 03/29/16 08:11 | 04/01/16 20:26 | 1 |
| Phenol-d5 | 63 | | 36 - 123 | | | | 03/29/16 08:11 | 04/01/16 20:26 | 1 |
| Terphenyl-d14 | 97 | | 25 - 150 | | | | 03/29/16 08:11 | 04/01/16 20:26 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|---------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.050 | | 0.050 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 16:01 | 1 |
| Barium | 0.35 J | | 0.50 | 0.050 | mg/L | | 03/31/16 15:12 | 04/01/16 16:01 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 03/31/16 15:12 | 04/01/16 16:01 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 03/31/16 15:12 | 04/01/16 16:01 | 1 |
| Chromium | <0.025 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 16:01 | 1 |
| Cobalt | <0.025 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 16:01 | 1 |
| Copper | <0.025 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 16:01 | 1 |
| Iron | <0.40 | | 0.40 | 0.20 | mg/L | | 03/31/16 15:12 | 04/01/16 16:01 | 1 |
| Lead | 0.020 | | 0.0075 | 0.0075 | mg/L | | 03/31/16 15:12 | 04/01/16 16:01 | 1 |
| Manganese | 0.68 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 16:01 | 1 |
| Nickel | <0.025 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 16:01 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 03/31/16 15:12 | 04/01/16 16:01 | 1 |
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 16:01 | 1 |
| Zinc | 0.61 | | 0.50 | 0.020 | mg/L | | 03/31/16 15:12 | 04/01/16 16:01 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|----------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.040 J | | 0.050 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 17:43 | 1 |
| Barium | 0.71 | | 0.50 | 0.050 | mg/L | | 03/30/16 15:14 | 03/31/16 17:43 | 1 |
| Beryllium | 0.011 | | 0.0040 | 0.0040 | mg/L | | 03/30/16 15:14 | 03/31/16 17:43 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 03/30/16 15:14 | 03/31/16 17:43 | 1 |
| Chromium | 0.26 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 17:43 | 1 |
| Cobalt | 0.082 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 17:43 | 1 |
| Copper | 0.29 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 17:43 | 1 |
| Iron | 190 | | 0.40 | 0.20 | mg/L | | 03/30/16 15:14 | 03/31/16 17:43 | 1 |
| Lead | 0.33 | | 0.0075 | 0.0075 | mg/L | | 03/30/16 15:14 | 03/31/16 17:43 | 1 |
| Manganese | 0.80 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 17:43 | 1 |
| Nickel | 0.27 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 17:43 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 03/30/16 15:14 | 03/31/16 17:43 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109355-1

Client Sample ID: CB8-2(0-4)-032816

Lab Sample ID: 500-109355-15

Date Collected: 03/28/16 13:05

Matrix: Solid

Date Received: 03/28/16 15:45

Percent Solids: 85.1

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|------------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 17:43 | 1 |
| Zinc | 1.7 | | 0.50 | 0.020 | mg/L | | 03/30/16 15:14 | 03/31/16 17:43 | 1 |

Method: 6010B - Total Metals

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | <1.0 | | 1.0 | 0.21 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:32 | 1 |
| Arsenic | 5.5 | | 0.52 | 0.24 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:32 | 1 |
| Barium | 56 | | 0.52 | 0.094 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:32 | 1 |
| Beryllium | 0.86 | | 0.21 | 0.045 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:32 | 1 |
| Cadmium | 0.094 | J | 0.10 | 0.030 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:32 | 1 |
| Calcium | 8600 | B | 10 | 3.3 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:32 | 1 |
| Chromium | 22 | | 0.52 | 0.089 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:32 | 1 |
| Cobalt | 15 | | 0.26 | 0.058 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:32 | 1 |
| Copper | 25 | | 0.52 | 0.11 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:32 | 1 |
| Iron | 21000 | B | 10 | 4.0 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:32 | 1 |
| Lead | 52 | | 0.26 | 0.13 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:32 | 1 |
| Magnesium | 8400 | | 5.2 | 2.1 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:32 | 1 |
| Manganese | 220 | | 0.52 | 0.10 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:32 | 1 |
| Nickel | 39 | | 0.52 | 0.14 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:32 | 1 |
| Potassium | 2100 | B | 26 | 4.2 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:32 | 1 |
| Selenium | 0.78 | | 0.52 | 0.26 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:32 | 1 |
| Silver | <0.26 | | 0.26 | 0.060 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:32 | 1 |
| Sodium | 1400 | B | 52 | 6.8 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:32 | 1 |
| Thallium | 0.36 | J | 0.52 | 0.25 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:32 | 1 |
| Vanadium | 23 | | 0.26 | 0.075 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:32 | 1 |
| Zinc | 100 | | 1.0 | 0.33 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:32 | 1 |

Method: 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 03/31/16 13:40 | 04/01/16 10:59 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 03/30/16 13:30 | 03/31/16 11:15 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Mercury | 19 | | 18 | 9.4 | ug/Kg | ☼ | 03/29/16 16:30 | 03/30/16 10:23 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-------------|-----------|-------|-------|------|---|----------|----------------|---------|
| pH | 8.44 | | 0.200 | 0.200 | SU | | | 03/30/16 15:55 | 1 |

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109355-1

Client Sample ID: CB8-3(0-4)-032816

Lab Sample ID: 500-109355-16

Date Collected: 03/28/16 13:20

Matrix: Solid

Date Received: 03/28/16 15:45

Percent Solids: 82.0

Method: 8260B - VOC

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|------------|-----------|-----|------|-------|---|----------|----------------|---------|
| Acetone | 70 | | 24 | 4.7 | ug/Kg | ☼ | | 03/31/16 15:32 | 1 |
| Benzene | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 03/31/16 15:32 | 1 |
| Bromodichloromethane | <6.1 | | 6.1 | 1.0 | ug/Kg | ☼ | | 03/31/16 15:32 | 1 |
| Bromoform | <6.1 | | 6.1 | 1.2 | ug/Kg | ☼ | | 03/31/16 15:32 | 1 |
| Bromomethane | <6.1 | | 6.1 | 2.2 | ug/Kg | ☼ | | 03/31/16 15:32 | 1 |
| Carbon disulfide | <6.1 | | 6.1 | 2.2 | ug/Kg | ☼ | | 03/31/16 15:32 | 1 |
| Carbon tetrachloride | <6.1 | | 6.1 | 1.3 | ug/Kg | ☼ | | 03/31/16 15:32 | 1 |
| Chlorobenzene | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 03/31/16 15:32 | 1 |
| Chloroethane | <6.1 | | 6.1 | 2.6 | ug/Kg | ☼ | | 03/31/16 15:32 | 1 |
| Chloroform | <6.1 | | 6.1 | 1.2 | ug/Kg | ☼ | | 03/31/16 15:32 | 1 |
| Chloromethane | <6.1 | | 6.1 | 1.5 | ug/Kg | ☼ | | 03/31/16 15:32 | 1 |
| cis-1,2-Dichloroethene | <6.1 | | 6.1 | 1.2 | ug/Kg | ☼ | | 03/31/16 15:32 | 1 |
| cis-1,3-Dichloropropene | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 03/31/16 15:32 | 1 |
| Dibromochloromethane | <6.1 | | 6.1 | 0.70 | ug/Kg | ☼ | | 03/31/16 15:32 | 1 |
| 1,1-Dichloroethane | <6.1 | | 6.1 | 1.3 | ug/Kg | ☼ | | 03/31/16 15:32 | 1 |
| 1,2-Dichloroethane | <6.1 | | 6.1 | 0.90 | ug/Kg | ☼ | | 03/31/16 15:32 | 1 |
| 1,1-Dichloroethene | <6.1 | | 6.1 | 2.2 | ug/Kg | ☼ | | 03/31/16 15:32 | 1 |
| 1,2-Dichloropropane | <6.1 | | 6.1 | 1.6 | ug/Kg | ☼ | | 03/31/16 15:32 | 1 |
| 1,3-Dichloropropene, Total | <6.1 | | 6.1 | 1.7 | ug/Kg | ☼ | | 03/31/16 15:32 | 1 |
| Ethylbenzene | <6.1 | | 6.1 | 1.5 | ug/Kg | ☼ | | 03/31/16 15:32 | 1 |
| 2-Hexanone | <6.1 | | 6.1 | 1.9 | ug/Kg | ☼ | | 03/31/16 15:32 | 1 |
| Methylene Chloride | <6.1 | | 6.1 | 4.6 | ug/Kg | ☼ | | 03/31/16 15:32 | 1 |
| Methyl Ethyl Ketone | 7.9 | | 6.1 | 2.2 | ug/Kg | ☼ | | 03/31/16 15:32 | 1 |
| methyl isobutyl ketone | <6.1 | | 6.1 | 1.3 | ug/Kg | ☼ | | 03/31/16 15:32 | 1 |
| Methyl tert-butyl ether | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 03/31/16 15:32 | 1 |
| Styrene | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 03/31/16 15:32 | 1 |
| 1,1,2,2-Tetrachloroethane | <6.1 | | 6.1 | 0.97 | ug/Kg | ☼ | | 03/31/16 15:32 | 1 |
| Tetrachloroethene | <6.1 | | 6.1 | 1.3 | ug/Kg | ☼ | | 03/31/16 15:32 | 1 |
| Toluene | <6.1 | | 6.1 | 2.1 | ug/Kg | ☼ | | 03/31/16 15:32 | 1 |
| trans-1,2-Dichloroethene | <6.1 | | 6.1 | 1.5 | ug/Kg | ☼ | | 03/31/16 15:32 | 1 |
| trans-1,3-Dichloropropene | <6.1 | | 6.1 | 1.7 | ug/Kg | ☼ | | 03/31/16 15:32 | 1 |
| 1,1,1-Trichloroethane | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 03/31/16 15:32 | 1 |
| 1,1,2-Trichloroethane | <6.1 | | 6.1 | 1.2 | ug/Kg | ☼ | | 03/31/16 15:32 | 1 |
| Trichloroethene | <6.1 | | 6.1 | 1.6 | ug/Kg | ☼ | | 03/31/16 15:32 | 1 |
| Vinyl chloride | <6.1 | | 6.1 | 1.5 | ug/Kg | ☼ | | 03/31/16 15:32 | 1 |
| Xylenes, Total | <12 | | 12 | 2.3 | ug/Kg | ☼ | | 03/31/16 15:32 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 104 | | 70 - 120 | | 03/31/16 15:32 | 1 |
| Dibromofluoromethane | 110 | | 75 - 120 | | 03/31/16 15:32 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 111 | | 69 - 134 | | 03/31/16 15:32 | 1 |
| Toluene-d8 (Surr) | 113 | | 75 - 123 | | 03/31/16 15:32 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,2,4-Trichlorobenzene | <200 | | 200 | 43 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:51 | 1 |
| 1,2-Dichlorobenzene | <200 | | 200 | 47 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:51 | 1 |
| 1,3-Dichlorobenzene | <200 | | 200 | 45 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:51 | 1 |
| 1,4-Dichlorobenzene | <200 | | 200 | 51 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:51 | 1 |
| 2,2'-oxybis[1-chloropropane] | <200 | | 200 | 46 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:51 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109355-1

Client Sample ID: CB8-3(0-4)-032816

Lab Sample ID: 500-109355-16

Date Collected: 03/28/16 13:20

Matrix: Solid

Date Received: 03/28/16 15:45

Percent Solids: 82.0

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|------------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol | <390 | | 390 | 90 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:51 | 1 |
| 2,4,6-Trichlorophenol | <390 | | 390 | 140 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:51 | 1 |
| 2,4-Dichlorophenol | <390 | | 390 | 94 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:51 | 1 |
| 2,4-Dimethylphenol | <390 | | 390 | 150 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:51 | 1 |
| 2,4-Dinitrophenol | <800 | | 800 | 700 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:51 | 1 |
| 2,4-Dinitrotoluene | <200 | | 200 | 63 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:51 | 1 |
| 2,6-Dinitrotoluene | <200 | | 200 | 78 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:51 | 1 |
| 2-Chloronaphthalene | <200 | | 200 | 44 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:51 | 1 |
| 2-Chlorophenol | <200 | | 200 | 68 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:51 | 1 |
| 2-Methylnaphthalene | <39 | | 39 | 7.3 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:51 | 1 |
| 2-Methylphenol | <200 | | 200 | 63 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:51 | 1 |
| 2-Nitroaniline | <200 | | 200 | 53 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:51 | 1 |
| 2-Nitrophenol | <390 | | 390 | 93 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:51 | 1 |
| 3 & 4 Methylphenol | <200 | | 200 | 66 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:51 | 1 |
| 3,3'-Dichlorobenzidine | <200 | | 200 | 55 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:51 | 1 |
| 3-Nitroaniline | <390 | | 390 | 120 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:51 | 1 |
| 4,6-Dinitro-2-methylphenol | <800 | | 800 | 320 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:51 | 1 |
| 4-Bromophenyl phenyl ether | <200 | | 200 | 52 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:51 | 1 |
| 4-Chloro-3-methylphenol | <390 | | 390 | 130 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:51 | 1 |
| 4-Chloroaniline | <800 | | 800 | 190 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:51 | 1 |
| 4-Chlorophenyl phenyl ether | <200 | | 200 | 46 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:51 | 1 |
| 4-Nitroaniline | <390 | | 390 | 170 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:51 | 1 |
| 4-Nitrophenol | <800 | | 800 | 380 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:51 | 1 |
| Acenaphthene | <39 | | 39 | 7.1 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:51 | 1 |
| Acenaphthylene | <39 | | 39 | 5.2 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:51 | 1 |
| Anthracene | 8.0 | J | 39 | 6.6 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:51 | 1 |
| Benzo[a]anthracene | 29 | J | 39 | 5.3 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:51 | 1 |
| Benzo[a]pyrene | 34 | J | 39 | 7.7 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:51 | 1 |
| Benzo[b]fluoranthene | 62 | | 39 | 8.5 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:51 | 1 |
| Benzo[g,h,i]perylene | 15 | J | 39 | 13 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:51 | 1 |
| Benzo[k]fluoranthene | 29 | J | 39 | 12 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:51 | 1 |
| Bis(2-chloroethoxy)methane | <200 | | 200 | 40 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:51 | 1 |
| Bis(2-chloroethyl)ether | <200 | | 200 | 59 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:51 | 1 |
| Bis(2-ethylhexyl) phthalate | <200 | | 200 | 72 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:51 | 1 |
| Butyl benzyl phthalate | <200 | | 200 | 75 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:51 | 1 |
| Carbazole | <200 | | 200 | 99 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:51 | 1 |
| Chrysene | 39 | | 39 | 11 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:51 | 1 |
| Dibenz(a,h)anthracene | <39 | | 39 | 7.6 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:51 | 1 |
| Dibenzofuran | <200 | | 200 | 46 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:51 | 1 |
| Diethyl phthalate | <200 | | 200 | 67 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:51 | 1 |
| Dimethyl phthalate | <200 | | 200 | 52 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:51 | 1 |
| Di-n-butyl phthalate | <200 | | 200 | 60 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:51 | 1 |
| Di-n-octyl phthalate | <200 | | 200 | 65 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:51 | 1 |
| Fluoranthene | 61 | | 39 | 7.3 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:51 | 1 |
| Fluorene | <39 | | 39 | 5.6 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:51 | 1 |
| Hexachlorobenzene | <80 | | 80 | 9.2 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:51 | 1 |
| Hexachlorobutadiene | <200 | | 200 | 62 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:51 | 1 |
| Hexachlorocyclopentadiene | <800 | | 800 | 230 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:51 | 1 |
| Hexachloroethane | <200 | | 200 | 60 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:51 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109355-1

Client Sample ID: CB8-3(0-4)-032816

Lab Sample ID: 500-109355-16

Date Collected: 03/28/16 13:20

Matrix: Solid

Date Received: 03/28/16 15:45

Percent Solids: 82.0

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| Indeno[1,2,3-cd]pyrene | 19 | J | 39 | 10 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:51 | 1 |
| Isophorone | <200 | | 200 | 44 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:51 | 1 |
| Naphthalene | <39 | | 39 | 6.1 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:51 | 1 |
| Nitrobenzene | <39 | | 39 | 9.9 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:51 | 1 |
| N-Nitrosodi-n-propylamine | <80 | | 80 | 48 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:51 | 1 |
| N-Nitrosodiphenylamine | <200 | | 200 | 47 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:51 | 1 |
| Pentachlorophenol | <800 | | 800 | 630 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:51 | 1 |
| Phenanthrene | 38 | J | 39 | 5.5 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:51 | 1 |
| Phenol | <200 | | 200 | 88 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:51 | 1 |
| Pyrene | 62 | | 39 | 7.9 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 20:51 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2,4,6-Tribromophenol | 65 | | 25 - 130 | | | | 03/29/16 08:11 | 04/01/16 20:51 | 1 |
| 2-Fluorobiphenyl | 73 | | 42 - 115 | | | | 03/29/16 08:11 | 04/01/16 20:51 | 1 |
| 2-Fluorophenol | 78 | | 40 - 130 | | | | 03/29/16 08:11 | 04/01/16 20:51 | 1 |
| Nitrobenzene-d5 | 57 | | 33 - 124 | | | | 03/29/16 08:11 | 04/01/16 20:51 | 1 |
| Phenol-d5 | 70 | | 36 - 123 | | | | 03/29/16 08:11 | 04/01/16 20:51 | 1 |
| Terphenyl-d14 | 90 | | 25 - 150 | | | | 03/29/16 08:11 | 04/01/16 20:51 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.050 | | 0.050 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 16:15 | 1 |
| Barium | 0.28 | J | 0.50 | 0.050 | mg/L | | 03/31/16 15:12 | 04/01/16 16:15 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 03/31/16 15:12 | 04/01/16 16:15 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 03/31/16 15:12 | 04/01/16 16:15 | 1 |
| Chromium | <0.025 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 16:15 | 1 |
| Cobalt | 0.014 | J | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 16:15 | 1 |
| Copper | <0.025 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 16:15 | 1 |
| Iron | 0.68 | | 0.40 | 0.20 | mg/L | | 03/31/16 15:12 | 04/01/16 16:15 | 1 |
| Lead | 0.010 | | 0.0075 | 0.0075 | mg/L | | 03/31/16 15:12 | 04/01/16 16:15 | 1 |
| Manganese | 2.9 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 16:15 | 1 |
| Nickel | 0.012 | J | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 16:15 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 03/31/16 15:12 | 04/01/16 16:15 | 1 |
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 16:15 | 1 |
| Zinc | 0.21 | J | 0.50 | 0.020 | mg/L | | 03/31/16 15:12 | 04/01/16 16:15 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.075 | | 0.050 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 17:48 | 1 |
| Barium | 0.67 | | 0.50 | 0.050 | mg/L | | 03/30/16 15:14 | 03/31/16 17:48 | 1 |
| Beryllium | 0.012 | | 0.0040 | 0.0040 | mg/L | | 03/30/16 15:14 | 03/31/16 17:48 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 03/30/16 15:14 | 03/31/16 17:48 | 1 |
| Chromium | 0.29 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 17:48 | 1 |
| Cobalt | 0.13 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 17:48 | 1 |
| Copper | 0.33 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 17:48 | 1 |
| Iron | 260 | | 0.40 | 0.20 | mg/L | | 03/30/16 15:14 | 03/31/16 17:48 | 1 |
| Lead | 0.23 | | 0.0075 | 0.0075 | mg/L | | 03/30/16 15:14 | 03/31/16 17:48 | 1 |
| Manganese | 1.9 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 17:48 | 1 |
| Nickel | 0.35 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 17:48 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 03/30/16 15:14 | 03/31/16 17:48 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109355-1

Client Sample ID: CB8-3(0-4)-032816

Lab Sample ID: 500-109355-16

Date Collected: 03/28/16 13:20

Matrix: Solid

Date Received: 03/28/16 15:45

Percent Solids: 82.0

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|-------------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 17:48 | 1 |
| Zinc | 0.89 | | 0.50 | 0.020 | mg/L | | 03/30/16 15:14 | 03/31/16 17:48 | 1 |

Method: 6010B - Total Metals

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | <1.1 | | 1.1 | 0.24 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:45 | 1 |
| Arsenic | 4.4 | | 0.57 | 0.26 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:45 | 1 |
| Barium | 66 | | 0.57 | 0.10 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:45 | 1 |
| Beryllium | 0.94 | | 0.23 | 0.050 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:45 | 1 |
| Cadmium | 0.35 | | 0.11 | 0.033 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:45 | 1 |
| Calcium | 4500 | B | 11 | 3.7 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:45 | 1 |
| Chromium | 19 | | 0.57 | 0.098 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:45 | 1 |
| Cobalt | 12 | | 0.29 | 0.065 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:45 | 1 |
| Copper | 35 | | 0.57 | 0.12 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:45 | 1 |
| Iron | 19000 | B | 11 | 4.4 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:45 | 1 |
| Lead | 38 | | 0.29 | 0.14 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:45 | 1 |
| Magnesium | 5000 | | 5.7 | 2.3 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:45 | 1 |
| Manganese | 130 | | 0.57 | 0.11 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:45 | 1 |
| Nickel | 36 | | 0.57 | 0.16 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:45 | 1 |
| Potassium | 2600 | B | 29 | 4.7 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:45 | 1 |
| Selenium | 0.95 | | 0.57 | 0.28 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:45 | 1 |
| Silver | <0.29 | | 0.29 | 0.067 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:45 | 1 |
| Sodium | 1800 | B | 57 | 7.6 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:45 | 1 |
| Thallium | <0.57 | | 0.57 | 0.28 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:45 | 1 |
| Vanadium | 22 | | 0.29 | 0.084 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:45 | 1 |
| Zinc | 89 | | 1.1 | 0.36 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:45 | 1 |

Method: 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 03/31/16 13:40 | 04/01/16 11:01 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 03/30/16 13:30 | 04/04/16 14:29 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Mercury | 34 | | 18 | 9.6 | ug/Kg | ☼ | 03/29/16 16:30 | 03/30/16 10:36 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-------------|-----------|-------|-------|------|---|----------|----------------|---------|
| pH | 8.56 | | 0.200 | 0.200 | SU | | | 03/30/16 15:57 | 1 |

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109355-1

Client Sample ID: CB8-4(0-4)-032816

Lab Sample ID: 500-109355-17

Date Collected: 03/28/16 13:40

Matrix: Solid

Date Received: 03/28/16 15:45

Percent Solids: 81.5

Method: 8260B - VOC

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Acetone | <25 | | 25 | 4.7 | ug/Kg | ☼ | | 03/31/16 15:56 | 1 |
| Benzene | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 03/31/16 15:56 | 1 |
| Bromodichloromethane | <6.1 | | 6.1 | 1.0 | ug/Kg | ☼ | | 03/31/16 15:56 | 1 |
| Bromoform | <6.1 | | 6.1 | 1.3 | ug/Kg | ☼ | | 03/31/16 15:56 | 1 |
| Bromomethane | <6.1 | | 6.1 | 2.3 | ug/Kg | ☼ | | 03/31/16 15:56 | 1 |
| Carbon disulfide | <6.1 | | 6.1 | 2.3 | ug/Kg | ☼ | | 03/31/16 15:56 | 1 |
| Carbon tetrachloride | <6.1 | | 6.1 | 1.3 | ug/Kg | ☼ | | 03/31/16 15:56 | 1 |
| Chlorobenzene | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 03/31/16 15:56 | 1 |
| Chloroethane | <6.1 | | 6.1 | 2.6 | ug/Kg | ☼ | | 03/31/16 15:56 | 1 |
| Chloroform | <6.1 | | 6.1 | 1.2 | ug/Kg | ☼ | | 03/31/16 15:56 | 1 |
| Chloromethane | <6.1 | | 6.1 | 1.5 | ug/Kg | ☼ | | 03/31/16 15:56 | 1 |
| cis-1,2-Dichloroethene | <6.1 | | 6.1 | 1.3 | ug/Kg | ☼ | | 03/31/16 15:56 | 1 |
| cis-1,3-Dichloropropene | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 03/31/16 15:56 | 1 |
| Dibromochloromethane | <6.1 | | 6.1 | 0.71 | ug/Kg | ☼ | | 03/31/16 15:56 | 1 |
| 1,1-Dichloroethane | <6.1 | | 6.1 | 1.3 | ug/Kg | ☼ | | 03/31/16 15:56 | 1 |
| 1,2-Dichloroethane | <6.1 | | 6.1 | 0.91 | ug/Kg | ☼ | | 03/31/16 15:56 | 1 |
| 1,1-Dichloroethene | <6.1 | | 6.1 | 2.2 | ug/Kg | ☼ | | 03/31/16 15:56 | 1 |
| 1,2-Dichloropropane | <6.1 | | 6.1 | 1.6 | ug/Kg | ☼ | | 03/31/16 15:56 | 1 |
| 1,3-Dichloropropene, Total | <6.1 | | 6.1 | 1.7 | ug/Kg | ☼ | | 03/31/16 15:56 | 1 |
| Ethylbenzene | <6.1 | | 6.1 | 1.5 | ug/Kg | ☼ | | 03/31/16 15:56 | 1 |
| 2-Hexanone | <6.1 | | 6.1 | 1.9 | ug/Kg | ☼ | | 03/31/16 15:56 | 1 |
| Methylene Chloride | <6.1 | | 6.1 | 4.6 | ug/Kg | ☼ | | 03/31/16 15:56 | 1 |
| Methyl Ethyl Ketone | <6.1 | | 6.1 | 2.2 | ug/Kg | ☼ | | 03/31/16 15:56 | 1 |
| methyl isobutyl ketone | <6.1 | | 6.1 | 1.3 | ug/Kg | ☼ | | 03/31/16 15:56 | 1 |
| Methyl tert-butyl ether | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 03/31/16 15:56 | 1 |
| Styrene | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 03/31/16 15:56 | 1 |
| 1,1,2,2-Tetrachloroethane | <6.1 | | 6.1 | 0.97 | ug/Kg | ☼ | | 03/31/16 15:56 | 1 |
| Tetrachloroethene | <6.1 | | 6.1 | 1.3 | ug/Kg | ☼ | | 03/31/16 15:56 | 1 |
| Toluene | <6.1 | | 6.1 | 2.1 | ug/Kg | ☼ | | 03/31/16 15:56 | 1 |
| trans-1,2-Dichloroethene | <6.1 | | 6.1 | 1.5 | ug/Kg | ☼ | | 03/31/16 15:56 | 1 |
| trans-1,3-Dichloropropene | <6.1 | | 6.1 | 1.7 | ug/Kg | ☼ | | 03/31/16 15:56 | 1 |
| 1,1,1-Trichloroethane | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 03/31/16 15:56 | 1 |
| 1,1,2-Trichloroethane | <6.1 | | 6.1 | 1.2 | ug/Kg | ☼ | | 03/31/16 15:56 | 1 |
| Trichloroethene | <6.1 | | 6.1 | 1.7 | ug/Kg | ☼ | | 03/31/16 15:56 | 1 |
| Vinyl chloride | <6.1 | | 6.1 | 1.5 | ug/Kg | ☼ | | 03/31/16 15:56 | 1 |
| Xylenes, Total | <12 | | 12 | 2.3 | ug/Kg | ☼ | | 03/31/16 15:56 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 105 | | 70 - 120 | | 03/31/16 15:56 | 1 |
| Dibromofluoromethane | 109 | | 75 - 120 | | 03/31/16 15:56 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 106 | | 69 - 134 | | 03/31/16 15:56 | 1 |
| Toluene-d8 (Surr) | 115 | | 75 - 123 | | 03/31/16 15:56 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,2,4-Trichlorobenzene | <200 | | 200 | 44 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 21:17 | 1 |
| 1,2-Dichlorobenzene | <200 | | 200 | 48 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 21:17 | 1 |
| 1,3-Dichlorobenzene | <200 | | 200 | 46 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 21:17 | 1 |
| 1,4-Dichlorobenzene | <200 | | 200 | 52 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 21:17 | 1 |
| 2,2'-oxybis[1-chloropropane] | <200 | | 200 | 47 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 21:17 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109355-1

Client Sample ID: CB8-4(0-4)-032816

Lab Sample ID: 500-109355-17

Date Collected: 03/28/16 13:40

Matrix: Solid

Date Received: 03/28/16 15:45

Percent Solids: 81.5

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-------------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol | <400 | | 400 | 92 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 21:17 | 1 |
| 2,4,6-Trichlorophenol | <400 | | 400 | 140 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 21:17 | 1 |
| 2,4-Dichlorophenol | <400 | | 400 | 96 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 21:17 | 1 |
| 2,4-Dimethylphenol | <400 | | 400 | 150 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 21:17 | 1 |
| 2,4-Dinitrophenol | <820 | | 820 | 710 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 21:17 | 1 |
| 2,4-Dinitrotoluene | <200 | | 200 | 64 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 21:17 | 1 |
| 2,6-Dinitrotoluene | <200 | | 200 | 80 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 21:17 | 1 |
| 2-Chloronaphthalene | <200 | | 200 | 45 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 21:17 | 1 |
| 2-Chlorophenol | <200 | | 200 | 69 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 21:17 | 1 |
| 2-Methylnaphthalene | <40 | | 40 | 7.5 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 21:17 | 1 |
| 2-Methylphenol | <200 | | 200 | 65 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 21:17 | 1 |
| 2-Nitroaniline | <200 | | 200 | 55 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 21:17 | 1 |
| 2-Nitrophenol | <400 | | 400 | 96 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 21:17 | 1 |
| 3 & 4 Methylphenol | <200 | | 200 | 68 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 21:17 | 1 |
| 3,3'-Dichlorobenzidine | <200 | | 200 | 57 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 21:17 | 1 |
| 3-Nitroaniline | <400 | | 400 | 130 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 21:17 | 1 |
| 4,6-Dinitro-2-methylphenol | <820 | | 820 | 330 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 21:17 | 1 |
| 4-Bromophenyl phenyl ether | <200 | | 200 | 53 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 21:17 | 1 |
| 4-Chloro-3-methylphenol | <400 | | 400 | 140 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 21:17 | 1 |
| 4-Chloroaniline | <820 | | 820 | 190 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 21:17 | 1 |
| 4-Chlorophenyl phenyl ether | <200 | | 200 | 47 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 21:17 | 1 |
| 4-Nitroaniline | <400 | | 400 | 170 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 21:17 | 1 |
| 4-Nitrophenol | <820 | | 820 | 390 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 21:17 | 1 |
| Acenaphthene | <40 | | 40 | 7.3 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 21:17 | 1 |
| Acenaphthylene | <40 | | 40 | 5.3 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 21:17 | 1 |
| Anthracene | <40 | | 40 | 6.8 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 21:17 | 1 |
| Benzo[a]anthracene | 40 | | 40 | 5.5 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 21:17 | 1 |
| Benzo[a]pyrene | 55 | | 40 | 7.8 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 21:17 | 1 |
| Benzo[b]fluoranthene | 80 | | 40 | 8.7 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 21:17 | 1 |
| Benzo[g,h,i]perylene | 23 J | | 40 | 13 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 21:17 | 1 |
| Benzo[k]fluoranthene | 31 J | | 40 | 12 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 21:17 | 1 |
| Bis(2-chloroethoxy)methane | <200 | | 200 | 41 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 21:17 | 1 |
| Bis(2-chloroethyl)ether | <200 | | 200 | 61 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 21:17 | 1 |
| Bis(2-ethylhexyl) phthalate | <200 | | 200 | 74 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 21:17 | 1 |
| Butyl benzyl phthalate | <200 | | 200 | 77 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 21:17 | 1 |
| Carbazole | <200 | | 200 | 100 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 21:17 | 1 |
| Chrysene | 54 | | 40 | 11 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 21:17 | 1 |
| Dibenz(a,h)anthracene | <40 | | 40 | 7.8 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 21:17 | 1 |
| Dibenzofuran | <200 | | 200 | 47 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 21:17 | 1 |
| Diethyl phthalate | <200 | | 200 | 69 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 21:17 | 1 |
| Dimethyl phthalate | <200 | | 200 | 53 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 21:17 | 1 |
| Di-n-butyl phthalate | <200 | | 200 | 62 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 21:17 | 1 |
| Di-n-octyl phthalate | <200 | | 200 | 66 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 21:17 | 1 |
| Fluoranthene | 56 | | 40 | 7.5 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 21:17 | 1 |
| Fluorene | <40 | | 40 | 5.7 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 21:17 | 1 |
| Hexachlorobenzene | <82 | | 82 | 9.4 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 21:17 | 1 |
| Hexachlorobutadiene | <200 | | 200 | 64 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 21:17 | 1 |
| Hexachlorocyclopentadiene | <820 | | 820 | 230 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 21:17 | 1 |
| Hexachloroethane | <200 | | 200 | 62 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 21:17 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109355-1

Client Sample ID: CB8-4(0-4)-032816

Lab Sample ID: 500-109355-17

Date Collected: 03/28/16 13:40

Matrix: Solid

Date Received: 03/28/16 15:45

Percent Solids: 81.5

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Indeno[1,2,3-cd]pyrene | 27 | J | 40 | 11 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 21:17 | 1 |
| Isophorone | <200 | | 200 | 46 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 21:17 | 1 |
| Naphthalene | <40 | | 40 | 6.2 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 21:17 | 1 |
| Nitrobenzene | <40 | | 40 | 10 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 21:17 | 1 |
| N-Nitrosodi-n-propylamine | <82 | | 82 | 50 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 21:17 | 1 |
| N-Nitrosodiphenylamine | <200 | | 200 | 48 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 21:17 | 1 |
| Pentachlorophenol | <820 | | 820 | 650 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 21:17 | 1 |
| Phenanthrene | 60 | | 40 | 5.6 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 21:17 | 1 |
| Phenol | <200 | | 200 | 90 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 21:17 | 1 |
| Pyrene | 67 | | 40 | 8.1 | ug/Kg | ☼ | 03/29/16 08:11 | 04/01/16 21:17 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2,4,6-Tribromophenol | 69 | | 25 - 130 | | | | 03/29/16 08:11 | 04/01/16 21:17 | 1 |
| 2-Fluorobiphenyl | 70 | | 42 - 115 | | | | 03/29/16 08:11 | 04/01/16 21:17 | 1 |
| 2-Fluorophenol | 76 | | 40 - 130 | | | | 03/29/16 08:11 | 04/01/16 21:17 | 1 |
| Nitrobenzene-d5 | 57 | | 33 - 124 | | | | 03/29/16 08:11 | 04/01/16 21:17 | 1 |
| Phenol-d5 | 68 | | 36 - 123 | | | | 03/29/16 08:11 | 04/01/16 21:17 | 1 |
| Terphenyl-d14 | 91 | | 25 - 150 | | | | 03/29/16 08:11 | 04/01/16 21:17 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.050 | | 0.050 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 16:20 | 1 |
| Barium | 0.30 | J | 0.50 | 0.050 | mg/L | | 03/31/16 15:12 | 04/01/16 16:20 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 03/31/16 15:12 | 04/01/16 16:20 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 03/31/16 15:12 | 04/01/16 16:20 | 1 |
| Chromium | <0.025 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 16:20 | 1 |
| Cobalt | <0.025 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 16:20 | 1 |
| Copper | <0.025 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 16:20 | 1 |
| Iron | <0.40 | | 0.40 | 0.20 | mg/L | | 03/31/16 15:12 | 04/01/16 16:20 | 1 |
| Lead | 0.013 | | 0.0075 | 0.0075 | mg/L | | 03/31/16 15:12 | 04/01/16 16:20 | 1 |
| Manganese | 0.69 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 16:20 | 1 |
| Nickel | <0.025 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 16:20 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 03/31/16 15:12 | 04/01/16 16:20 | 1 |
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 16:20 | 1 |
| Zinc | 1.8 | | 0.50 | 0.020 | mg/L | | 03/31/16 15:12 | 04/01/16 16:20 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.040 | J | 0.050 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 17:53 | 1 |
| Barium | 0.80 | | 0.50 | 0.050 | mg/L | | 03/30/16 15:14 | 03/31/16 17:53 | 1 |
| Beryllium | 0.012 | | 0.0040 | 0.0040 | mg/L | | 03/30/16 15:14 | 03/31/16 17:53 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 03/30/16 15:14 | 03/31/16 17:53 | 1 |
| Chromium | 0.30 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 17:53 | 1 |
| Cobalt | 0.092 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 17:53 | 1 |
| Copper | 0.19 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 17:53 | 1 |
| Iron | 200 | | 0.40 | 0.20 | mg/L | | 03/30/16 15:14 | 03/31/16 17:53 | 1 |
| Lead | 0.26 | | 0.0075 | 0.0075 | mg/L | | 03/30/16 15:14 | 03/31/16 17:53 | 1 |
| Manganese | 0.76 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 17:53 | 1 |
| Nickel | 0.29 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 17:53 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 03/30/16 15:14 | 03/31/16 17:53 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109355-1

Client Sample ID: CB8-4(0-4)-032816

Lab Sample ID: 500-109355-17

Date Collected: 03/28/16 13:40

Matrix: Solid

Date Received: 03/28/16 15:45

Percent Solids: 81.5

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|-------------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 17:53 | 1 |
| Zinc | 0.91 | | 0.50 | 0.020 | mg/L | | 03/30/16 15:14 | 03/31/16 17:53 | 1 |

Method: 6010B - Total Metals

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | <1.2 | | 1.2 | 0.25 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:50 | 1 |
| Arsenic | 3.2 | | 0.60 | 0.28 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:50 | 1 |
| Barium | 71 | | 0.60 | 0.11 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:50 | 1 |
| Beryllium | 1.0 | | 0.24 | 0.052 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:50 | 1 |
| Cadmium | 0.14 | | 0.12 | 0.035 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:50 | 1 |
| Calcium | 5200 | B | 12 | 3.8 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:50 | 1 |
| Chromium | 23 | | 0.60 | 0.10 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:50 | 1 |
| Cobalt | 12 | | 0.30 | 0.067 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:50 | 1 |
| Copper | 22 | | 0.60 | 0.13 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:50 | 1 |
| Iron | 18000 | B | 12 | 4.6 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:50 | 1 |
| Lead | 29 | | 0.30 | 0.15 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:50 | 1 |
| Magnesium | 6400 | | 6.0 | 2.4 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:50 | 1 |
| Manganese | 130 | | 0.60 | 0.12 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:50 | 1 |
| Nickel | 37 | | 0.60 | 0.16 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:50 | 1 |
| Potassium | 2400 | B | 30 | 4.9 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:50 | 1 |
| Selenium | 0.78 | | 0.60 | 0.30 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:50 | 1 |
| Silver | <0.30 | | 0.30 | 0.070 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:50 | 1 |
| Sodium | 880 | B | 60 | 7.9 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:50 | 1 |
| Thallium | <0.60 | | 0.60 | 0.29 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:50 | 1 |
| Vanadium | 24 | | 0.30 | 0.087 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:50 | 1 |
| Zinc | 71 | | 1.2 | 0.38 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:50 | 1 |

Method: 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 03/31/16 13:40 | 04/01/16 11:03 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 03/30/16 13:30 | 03/31/16 11:23 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Mercury | 31 | | 20 | 11 | ug/Kg | ☼ | 03/29/16 16:30 | 03/30/16 10:38 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-------------|-----------|-------|-------|------|---|----------|----------------|---------|
| pH | 8.17 | | 0.200 | 0.200 | SU | | | 03/30/16 15:59 | 1 |

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109355-1

Client Sample ID: CB8-5(0-4)-032816

Lab Sample ID: 500-109355-18

Date Collected: 03/28/16 14:00

Matrix: Solid

Date Received: 03/28/16 15:45

Percent Solids: 82.8

Method: 8260B - VOC

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Acetone | 38 | | 24 | 4.7 | ug/Kg | ☼ | | 03/31/16 16:21 | 1 |
| Benzene | <6.0 | | 6.0 | 1.3 | ug/Kg | ☼ | | 03/31/16 16:21 | 1 |
| Bromodichloromethane | <6.0 | | 6.0 | 1.0 | ug/Kg | ☼ | | 03/31/16 16:21 | 1 |
| Bromoform | <6.0 | | 6.0 | 1.2 | ug/Kg | ☼ | | 03/31/16 16:21 | 1 |
| Bromomethane | <6.0 | | 6.0 | 2.2 | ug/Kg | ☼ | | 03/31/16 16:21 | 1 |
| Carbon disulfide | <6.0 | | 6.0 | 2.2 | ug/Kg | ☼ | | 03/31/16 16:21 | 1 |
| Carbon tetrachloride | <6.0 | | 6.0 | 1.3 | ug/Kg | ☼ | | 03/31/16 16:21 | 1 |
| Chlorobenzene | <6.0 | | 6.0 | 1.4 | ug/Kg | ☼ | | 03/31/16 16:21 | 1 |
| Chloroethane | <6.0 | | 6.0 | 2.5 | ug/Kg | ☼ | | 03/31/16 16:21 | 1 |
| Chloroform | <6.0 | | 6.0 | 1.2 | ug/Kg | ☼ | | 03/31/16 16:21 | 1 |
| Chloromethane | <6.0 | | 6.0 | 1.5 | ug/Kg | ☼ | | 03/31/16 16:21 | 1 |
| cis-1,2-Dichloroethene | <6.0 | | 6.0 | 1.2 | ug/Kg | ☼ | | 03/31/16 16:21 | 1 |
| cis-1,3-Dichloropropene | <6.0 | | 6.0 | 1.4 | ug/Kg | ☼ | | 03/31/16 16:21 | 1 |
| Dibromochloromethane | <6.0 | | 6.0 | 0.69 | ug/Kg | ☼ | | 03/31/16 16:21 | 1 |
| 1,1-Dichloroethane | <6.0 | | 6.0 | 1.2 | ug/Kg | ☼ | | 03/31/16 16:21 | 1 |
| 1,2-Dichloroethane | <6.0 | | 6.0 | 0.90 | ug/Kg | ☼ | | 03/31/16 16:21 | 1 |
| 1,1-Dichloroethene | <6.0 | | 6.0 | 2.2 | ug/Kg | ☼ | | 03/31/16 16:21 | 1 |
| 1,2-Dichloropropane | <6.0 | | 6.0 | 1.6 | ug/Kg | ☼ | | 03/31/16 16:21 | 1 |
| 1,3-Dichloropropene, Total | <6.0 | | 6.0 | 1.7 | ug/Kg | ☼ | | 03/31/16 16:21 | 1 |
| Ethylbenzene | <6.0 | | 6.0 | 1.5 | ug/Kg | ☼ | | 03/31/16 16:21 | 1 |
| 2-Hexanone | <6.0 | | 6.0 | 1.9 | ug/Kg | ☼ | | 03/31/16 16:21 | 1 |
| Methylene Chloride | <6.0 | | 6.0 | 4.6 | ug/Kg | ☼ | | 03/31/16 16:21 | 1 |
| Methyl Ethyl Ketone | <6.0 | | 6.0 | 2.2 | ug/Kg | ☼ | | 03/31/16 16:21 | 1 |
| methyl isobutyl ketone | <6.0 | | 6.0 | 1.2 | ug/Kg | ☼ | | 03/31/16 16:21 | 1 |
| Methyl tert-butyl ether | <6.0 | | 6.0 | 1.4 | ug/Kg | ☼ | | 03/31/16 16:21 | 1 |
| Styrene | <6.0 | | 6.0 | 1.4 | ug/Kg | ☼ | | 03/31/16 16:21 | 1 |
| 1,1,2,2-Tetrachloroethane | <6.0 | | 6.0 | 0.96 | ug/Kg | ☼ | | 03/31/16 16:21 | 1 |
| Tetrachloroethene | <6.0 | | 6.0 | 1.3 | ug/Kg | ☼ | | 03/31/16 16:21 | 1 |
| Toluene | <6.0 | | 6.0 | 2.1 | ug/Kg | ☼ | | 03/31/16 16:21 | 1 |
| trans-1,2-Dichloroethene | <6.0 | | 6.0 | 1.5 | ug/Kg | ☼ | | 03/31/16 16:21 | 1 |
| trans-1,3-Dichloropropene | <6.0 | | 6.0 | 1.7 | ug/Kg | ☼ | | 03/31/16 16:21 | 1 |
| 1,1,1-Trichloroethane | <6.0 | | 6.0 | 1.4 | ug/Kg | ☼ | | 03/31/16 16:21 | 1 |
| 1,1,2-Trichloroethane | <6.0 | | 6.0 | 1.2 | ug/Kg | ☼ | | 03/31/16 16:21 | 1 |
| Trichloroethene | <6.0 | | 6.0 | 1.6 | ug/Kg | ☼ | | 03/31/16 16:21 | 1 |
| Vinyl chloride | <6.0 | | 6.0 | 1.4 | ug/Kg | ☼ | | 03/31/16 16:21 | 1 |
| Xylenes, Total | <12 | | 12 | 2.2 | ug/Kg | ☼ | | 03/31/16 16:21 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 107 | | 70 - 120 | | 03/31/16 16:21 | 1 |
| Dibromofluoromethane | 110 | | 75 - 120 | | 03/31/16 16:21 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 110 | | 69 - 134 | | 03/31/16 16:21 | 1 |
| Toluene-d8 (Surr) | 116 | | 75 - 123 | | 03/31/16 16:21 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,2,4-Trichlorobenzene | <200 | | 200 | 43 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 17:55 | 1 |
| 1,2-Dichlorobenzene | <200 | | 200 | 48 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 17:55 | 1 |
| 1,3-Dichlorobenzene | <200 | | 200 | 45 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 17:55 | 1 |
| 1,4-Dichlorobenzene | <200 | | 200 | 51 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 17:55 | 1 |
| 2,2'-oxybis[1-chloropropane] | <200 | | 200 | 46 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 17:55 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109355-1

Client Sample ID: CB8-5(0-4)-032816

Lab Sample ID: 500-109355-18

Date Collected: 03/28/16 14:00

Matrix: Solid

Date Received: 03/28/16 15:45

Percent Solids: 82.8

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|------------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol | <400 | | 400 | 91 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 17:55 | 1 |
| 2,4,6-Trichlorophenol | <400 | | 400 | 140 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 17:55 | 1 |
| 2,4-Dichlorophenol | <400 | | 400 | 95 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 17:55 | 1 |
| 2,4-Dimethylphenol | <400 | | 400 | 150 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 17:55 | 1 |
| 2,4-Dinitrophenol | <810 | | 810 | 700 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 17:55 | 1 |
| 2,4-Dinitrotoluene | <200 | | 200 | 64 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 17:55 | 1 |
| 2,6-Dinitrotoluene | <200 | | 200 | 79 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 17:55 | 1 |
| 2-Chloronaphthalene | <200 | | 200 | 44 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 17:55 | 1 |
| 2-Chlorophenol | <200 | | 200 | 68 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 17:55 | 1 |
| 2-Methylnaphthalene | <40 | | 40 | 7.3 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 17:55 | 1 |
| 2-Methylphenol | <200 | | 200 | 64 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 17:55 | 1 |
| 2-Nitroaniline | <200 | | 200 | 54 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 17:55 | 1 |
| 2-Nitrophenol | <400 | | 400 | 94 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 17:55 | 1 |
| 3 & 4 Methylphenol | <200 | | 200 | 67 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 17:55 | 1 |
| 3,3'-Dichlorobenzidine | <200 | | 200 | 56 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 17:55 | 1 |
| 3-Nitroaniline | <400 | | 400 | 120 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 17:55 | 1 |
| 4,6-Dinitro-2-methylphenol | <810 | | 810 | 320 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 17:55 | 1 |
| 4-Bromophenyl phenyl ether | <200 | | 200 | 53 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 17:55 | 1 |
| 4-Chloro-3-methylphenol | <400 | | 400 | 140 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 17:55 | 1 |
| 4-Chloroaniline | <810 | | 810 | 190 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 17:55 | 1 |
| 4-Chlorophenyl phenyl ether | <200 | | 200 | 47 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 17:55 | 1 |
| 4-Nitroaniline | <400 | | 400 | 170 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 17:55 | 1 |
| 4-Nitrophenol | <810 | | 810 | 380 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 17:55 | 1 |
| Acenaphthene | <40 | | 40 | 7.2 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 17:55 | 1 |
| Acenaphthylene | <40 | | 40 | 5.3 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 17:55 | 1 |
| Anthracene | 13 | J | 40 | 6.7 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 17:55 | 1 |
| Benzo[a]anthracene | 110 | | 40 | 5.4 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 17:55 | 1 |
| Benzo[a]pyrene | 140 | | 40 | 7.7 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 17:55 | 1 |
| Benzo[b]fluoranthene | 250 | | 40 | 8.6 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 17:55 | 1 |
| Benzo[g,h,i]perylene | 70 | | 40 | 13 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 17:55 | 1 |
| Benzo[k]fluoranthene | 110 | | 40 | 12 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 17:55 | 1 |
| Bis(2-chloroethoxy)methane | <200 | | 200 | 41 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 17:55 | 1 |
| Bis(2-chloroethyl)ether | <200 | | 200 | 60 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 17:55 | 1 |
| Bis(2-ethylhexyl) phthalate | <200 | | 200 | 73 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 17:55 | 1 |
| Butyl benzyl phthalate | <200 | | 200 | 76 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 17:55 | 1 |
| Carbazole | <200 | | 200 | 100 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 17:55 | 1 |
| Chrysene | 150 | | 40 | 11 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 17:55 | 1 |
| Dibenz(a,h)anthracene | <40 | | 40 | 7.7 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 17:55 | 1 |
| Dibenzofuran | <200 | | 200 | 47 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 17:55 | 1 |
| Diethyl phthalate | <200 | | 200 | 68 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 17:55 | 1 |
| Dimethyl phthalate | <200 | | 200 | 52 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 17:55 | 1 |
| Di-n-butyl phthalate | <200 | | 200 | 61 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 17:55 | 1 |
| Di-n-octyl phthalate | <200 | | 200 | 65 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 17:55 | 1 |
| Fluoranthene | 230 | | 40 | 7.4 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 17:55 | 1 |
| Fluorene | <40 | | 40 | 5.6 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 17:55 | 1 |
| Hexachlorobenzene | <81 | | 81 | 9.3 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 17:55 | 1 |
| Hexachlorobutadiene | <200 | | 200 | 63 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 17:55 | 1 |
| Hexachlorocyclopentadiene | <810 | | 810 | 230 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 17:55 | 1 |
| Hexachloroethane | <200 | | 200 | 61 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 17:55 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109355-1

Client Sample ID: CB8-5(0-4)-032816

Lab Sample ID: 500-109355-18

Date Collected: 03/28/16 14:00

Matrix: Solid

Date Received: 03/28/16 15:45

Percent Solids: 82.8

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| Indeno[1,2,3-cd]pyrene | 73 | | 40 | 10 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 17:55 | 1 |
| Isophorone | <200 | | 200 | 45 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 17:55 | 1 |
| Naphthalene | <40 | | 40 | 6.1 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 17:55 | 1 |
| Nitrobenzene | <40 | | 40 | 10 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 17:55 | 1 |
| N-Nitrosodi-n-propylamine | <81 | | 81 | 49 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 17:55 | 1 |
| N-Nitrosodiphenylamine | <200 | | 200 | 47 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 17:55 | 1 |
| Pentachlorophenol | <810 | | 810 | 640 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 17:55 | 1 |
| Phenanthrene | 66 | | 40 | 5.6 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 17:55 | 1 |
| Phenol | <200 | | 200 | 89 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 17:55 | 1 |
| Pyrene | 280 | | 40 | 7.9 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 17:55 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2,4,6-Tribromophenol | 57 | | 25 - 130 | | | | 03/29/16 08:11 | 04/04/16 17:55 | 1 |
| 2-Fluorobiphenyl | 78 | | 42 - 115 | | | | 03/29/16 08:11 | 04/04/16 17:55 | 1 |
| 2-Fluorophenol | 74 | | 40 - 130 | | | | 03/29/16 08:11 | 04/04/16 17:55 | 1 |
| Nitrobenzene-d5 | 78 | | 33 - 124 | | | | 03/29/16 08:11 | 04/04/16 17:55 | 1 |
| Phenol-d5 | 76 | | 36 - 123 | | | | 03/29/16 08:11 | 04/04/16 17:55 | 1 |
| Terphenyl-d14 | 124 | | 25 - 150 | | | | 03/29/16 08:11 | 04/04/16 17:55 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|---------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.050 | | 0.050 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 16:25 | 1 |
| Barium | 0.29 | J | 0.50 | 0.050 | mg/L | | 03/31/16 15:12 | 04/01/16 16:25 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 03/31/16 15:12 | 04/01/16 16:25 | 1 |
| Cadmium | 0.0020 | J | 0.0050 | 0.0020 | mg/L | | 03/31/16 15:12 | 04/01/16 16:25 | 1 |
| Chromium | <0.025 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 16:25 | 1 |
| Cobalt | 0.012 | J | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 16:25 | 1 |
| Copper | <0.025 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 16:25 | 1 |
| Iron | <0.40 | | 0.40 | 0.20 | mg/L | | 03/31/16 15:12 | 04/01/16 16:25 | 1 |
| Lead | 0.013 | | 0.0075 | 0.0075 | mg/L | | 03/31/16 15:12 | 04/01/16 16:25 | 1 |
| Manganese | 1.4 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 16:25 | 1 |
| Nickel | <0.025 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 16:25 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 03/31/16 15:12 | 04/01/16 16:25 | 1 |
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 16:25 | 1 |
| Zinc | 0.28 | J | 0.50 | 0.020 | mg/L | | 03/31/16 15:12 | 04/01/16 16:25 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.050 | | 0.050 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 17:58 | 1 |
| Barium | 0.070 | J | 0.50 | 0.050 | mg/L | | 03/30/16 15:14 | 03/31/16 17:58 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 03/30/16 15:14 | 03/31/16 17:58 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 03/30/16 15:14 | 03/31/16 17:58 | 1 |
| Chromium | 0.026 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 17:58 | 1 |
| Cobalt | <0.025 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 17:58 | 1 |
| Copper | 0.015 | J | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 17:58 | 1 |
| Iron | 17 | | 0.40 | 0.20 | mg/L | | 03/30/16 15:14 | 03/31/16 17:58 | 1 |
| Lead | 0.014 | | 0.0075 | 0.0075 | mg/L | | 03/30/16 15:14 | 03/31/16 17:58 | 1 |
| Manganese | 0.081 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 17:58 | 1 |
| Nickel | 0.021 | J | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 17:58 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 03/30/16 15:14 | 03/31/16 17:58 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109355-1

Client Sample ID: CB8-5(0-4)-032816

Lab Sample ID: 500-109355-18

Date Collected: 03/28/16 14:00

Matrix: Solid

Date Received: 03/28/16 15:45

Percent Solids: 82.8

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|-------------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 17:58 | 1 |
| Zinc | 0.10 | J | 0.50 | 0.020 | mg/L | | 03/30/16 15:14 | 03/31/16 17:58 | 1 |

Method: 6010B - Total Metals

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | <1.1 | | 1.1 | 0.22 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:55 | 1 |
| Arsenic | 9.8 | | 0.53 | 0.24 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:55 | 1 |
| Barium | 58 | | 0.53 | 0.097 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:55 | 1 |
| Beryllium | 0.94 | | 0.21 | 0.046 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:55 | 1 |
| Cadmium | <0.11 | | 0.11 | 0.031 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:55 | 1 |
| Calcium | 17000 | B | 11 | 3.4 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:55 | 1 |
| Chromium | 22 | | 0.53 | 0.091 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:55 | 1 |
| Cobalt | 16 | | 0.26 | 0.060 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:55 | 1 |
| Copper | 29 | | 0.53 | 0.11 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:55 | 1 |
| Iron | 25000 | B | 11 | 4.1 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:55 | 1 |
| Lead | 32 | | 0.26 | 0.13 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:55 | 1 |
| Magnesium | 14000 | | 5.3 | 2.1 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:55 | 1 |
| Manganese | 220 | | 0.53 | 0.10 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:55 | 1 |
| Nickel | 39 | | 0.53 | 0.14 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:55 | 1 |
| Potassium | 1900 | B | 26 | 4.3 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:55 | 1 |
| Selenium | 0.66 | | 0.53 | 0.26 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:55 | 1 |
| Silver | <0.26 | | 0.26 | 0.062 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:55 | 1 |
| Sodium | 880 | B | 53 | 7.0 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:55 | 1 |
| Thallium | 0.38 | J | 0.53 | 0.26 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:55 | 1 |
| Vanadium | 27 | | 0.26 | 0.077 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:55 | 1 |
| Zinc | 120 | | 1.1 | 0.33 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 18:55 | 1 |

Method: 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 03/31/16 13:40 | 04/01/16 11:05 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 03/30/16 13:30 | 03/31/16 11:25 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Mercury | 36 | | 17 | 9.2 | ug/Kg | ☼ | 03/29/16 16:30 | 03/30/16 10:41 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-------------|-----------|-------|-------|------|---|----------|----------------|---------|
| pH | 8.18 | | 0.200 | 0.200 | SU | | | 03/30/16 16:01 | 1 |

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109355-1

Client Sample ID: CB8-6(0-6.8)-032816

Lab Sample ID: 500-109355-19

Date Collected: 03/28/16 14:15

Matrix: Solid

Date Received: 03/28/16 15:45

Percent Solids: 79.0

Method: 8260B - VOC

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Acetone | <25 | | 25 | 4.9 | ug/Kg | ☼ | | 03/31/16 16:45 | 1 |
| Benzene | <6.3 | | 6.3 | 1.4 | ug/Kg | ☼ | | 03/31/16 16:45 | 1 |
| Bromodichloromethane | <6.3 | | 6.3 | 1.1 | ug/Kg | ☼ | | 03/31/16 16:45 | 1 |
| Bromoform | <6.3 | | 6.3 | 1.3 | ug/Kg | ☼ | | 03/31/16 16:45 | 1 |
| Bromomethane | <6.3 | | 6.3 | 2.3 | ug/Kg | ☼ | | 03/31/16 16:45 | 1 |
| Carbon disulfide | <6.3 | | 6.3 | 2.3 | ug/Kg | ☼ | | 03/31/16 16:45 | 1 |
| Carbon tetrachloride | <6.3 | | 6.3 | 1.4 | ug/Kg | ☼ | | 03/31/16 16:45 | 1 |
| Chlorobenzene | <6.3 | | 6.3 | 1.5 | ug/Kg | ☼ | | 03/31/16 16:45 | 1 |
| Chloroethane | <6.3 | | 6.3 | 2.7 | ug/Kg | ☼ | | 03/31/16 16:45 | 1 |
| Chloroform | <6.3 | | 6.3 | 1.2 | ug/Kg | ☼ | | 03/31/16 16:45 | 1 |
| Chloromethane | <6.3 | | 6.3 | 1.5 | ug/Kg | ☼ | | 03/31/16 16:45 | 1 |
| cis-1,2-Dichloroethene | <6.3 | | 6.3 | 1.3 | ug/Kg | ☼ | | 03/31/16 16:45 | 1 |
| cis-1,3-Dichloropropene | <6.3 | | 6.3 | 1.4 | ug/Kg | ☼ | | 03/31/16 16:45 | 1 |
| Dibromochloromethane | <6.3 | | 6.3 | 0.73 | ug/Kg | ☼ | | 03/31/16 16:45 | 1 |
| 1,1-Dichloroethane | <6.3 | | 6.3 | 1.3 | ug/Kg | ☼ | | 03/31/16 16:45 | 1 |
| 1,2-Dichloroethane | <6.3 | | 6.3 | 0.94 | ug/Kg | ☼ | | 03/31/16 16:45 | 1 |
| 1,1-Dichloroethene | <6.3 | | 6.3 | 2.3 | ug/Kg | ☼ | | 03/31/16 16:45 | 1 |
| 1,2-Dichloropropane | <6.3 | | 6.3 | 1.7 | ug/Kg | ☼ | | 03/31/16 16:45 | 1 |
| 1,3-Dichloropropene, Total | <6.3 | | 6.3 | 1.8 | ug/Kg | ☼ | | 03/31/16 16:45 | 1 |
| Ethylbenzene | <6.3 | | 6.3 | 1.6 | ug/Kg | ☼ | | 03/31/16 16:45 | 1 |
| 2-Hexanone | <6.3 | | 6.3 | 2.0 | ug/Kg | ☼ | | 03/31/16 16:45 | 1 |
| Methylene Chloride | <6.3 | | 6.3 | 4.8 | ug/Kg | ☼ | | 03/31/16 16:45 | 1 |
| Methyl Ethyl Ketone | <6.3 | | 6.3 | 2.3 | ug/Kg | ☼ | | 03/31/16 16:45 | 1 |
| methyl isobutyl ketone | <6.3 | | 6.3 | 1.3 | ug/Kg | ☼ | | 03/31/16 16:45 | 1 |
| Methyl tert-butyl ether | <6.3 | | 6.3 | 1.5 | ug/Kg | ☼ | | 03/31/16 16:45 | 1 |
| Styrene | <6.3 | | 6.3 | 1.5 | ug/Kg | ☼ | | 03/31/16 16:45 | 1 |
| 1,1,2,2-Tetrachloroethane | <6.3 | | 6.3 | 1.0 | ug/Kg | ☼ | | 03/31/16 16:45 | 1 |
| Tetrachloroethene | <6.3 | | 6.3 | 1.3 | ug/Kg | ☼ | | 03/31/16 16:45 | 1 |
| Toluene | <6.3 | | 6.3 | 2.2 | ug/Kg | ☼ | | 03/31/16 16:45 | 1 |
| trans-1,2-Dichloroethene | <6.3 | | 6.3 | 1.6 | ug/Kg | ☼ | | 03/31/16 16:45 | 1 |
| trans-1,3-Dichloropropene | <6.3 | | 6.3 | 1.8 | ug/Kg | ☼ | | 03/31/16 16:45 | 1 |
| 1,1,1-Trichloroethane | <6.3 | | 6.3 | 1.5 | ug/Kg | ☼ | | 03/31/16 16:45 | 1 |
| 1,1,2-Trichloroethane | <6.3 | | 6.3 | 1.2 | ug/Kg | ☼ | | 03/31/16 16:45 | 1 |
| Trichloroethene | <6.3 | | 6.3 | 1.7 | ug/Kg | ☼ | | 03/31/16 16:45 | 1 |
| Vinyl chloride | <6.3 | | 6.3 | 1.5 | ug/Kg | ☼ | | 03/31/16 16:45 | 1 |
| Xylenes, Total | <13 | | 13 | 2.3 | ug/Kg | ☼ | | 03/31/16 16:45 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 107 | | 70 - 120 | | 03/31/16 16:45 | 1 |
| Dibromofluoromethane | 112 | | 75 - 120 | | 03/31/16 16:45 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 111 | | 69 - 134 | | 03/31/16 16:45 | 1 |
| Toluene-d8 (Surr) | 115 | | 75 - 123 | | 03/31/16 16:45 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,2,4-Trichlorobenzene | <210 | | 210 | 44 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 18:24 | 1 |
| 1,2-Dichlorobenzene | <210 | | 210 | 49 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 18:24 | 1 |
| 1,3-Dichlorobenzene | <210 | | 210 | 46 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 18:24 | 1 |
| 1,4-Dichlorobenzene | <210 | | 210 | 52 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 18:24 | 1 |
| 2,2'-oxybis[1-chloropropane] | <210 | | 210 | 47 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 18:24 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109355-1

Client Sample ID: CB8-6(0-6.8)-032816

Lab Sample ID: 500-109355-19

Date Collected: 03/28/16 14:15

Matrix: Solid

Date Received: 03/28/16 15:45

Percent Solids: 79.0

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-------------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol | <410 | | 410 | 93 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 18:24 | 1 |
| 2,4,6-Trichlorophenol | <410 | | 410 | 140 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 18:24 | 1 |
| 2,4-Dichlorophenol | <410 | | 410 | 97 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 18:24 | 1 |
| 2,4-Dimethylphenol | <410 | | 410 | 150 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 18:24 | 1 |
| 2,4-Dinitrophenol | <820 | | 820 | 720 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 18:24 | 1 |
| 2,4-Dinitrotoluene | <210 | | 210 | 65 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 18:24 | 1 |
| 2,6-Dinitrotoluene | <210 | | 210 | 80 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 18:24 | 1 |
| 2-Chloronaphthalene | <210 | | 210 | 45 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 18:24 | 1 |
| 2-Chlorophenol | <210 | | 210 | 70 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 18:24 | 1 |
| 2-Methylnaphthalene | <41 | | 41 | 7.5 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 18:24 | 1 |
| 2-Methylphenol | <210 | | 210 | 66 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 18:24 | 1 |
| 2-Nitroaniline | <210 | | 210 | 55 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 18:24 | 1 |
| 2-Nitrophenol | <410 | | 410 | 97 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 18:24 | 1 |
| 3 & 4 Methylphenol | <210 | | 210 | 68 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 18:24 | 1 |
| 3,3'-Dichlorobenzidine | <210 | | 210 | 57 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 18:24 | 1 |
| 3-Nitroaniline | <410 | | 410 | 130 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 18:24 | 1 |
| 4,6-Dinitro-2-methylphenol | <820 | | 820 | 330 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 18:24 | 1 |
| 4-Bromophenyl phenyl ether | <210 | | 210 | 54 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 18:24 | 1 |
| 4-Chloro-3-methylphenol | <410 | | 410 | 140 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 18:24 | 1 |
| 4-Chloroaniline | <820 | | 820 | 190 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 18:24 | 1 |
| 4-Chlorophenyl phenyl ether | <210 | | 210 | 48 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 18:24 | 1 |
| 4-Nitroaniline | <410 | | 410 | 170 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 18:24 | 1 |
| 4-Nitrophenol | <820 | | 820 | 390 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 18:24 | 1 |
| Acenaphthene | 8.3 | J | 41 | 7.3 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 18:24 | 1 |
| Acenaphthylene | <41 | | 41 | 5.4 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 18:24 | 1 |
| Anthracene | 110 | | 41 | 6.8 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 18:24 | 1 |
| Benzo[a]anthracene | 530 | | 41 | 5.5 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 18:24 | 1 |
| Benzo[a]pyrene | 440 | | 41 | 7.9 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 18:24 | 1 |
| Benzo[b]fluoranthene | 900 | | 41 | 8.8 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 18:24 | 1 |
| Benzo[g,h,i]perylene | 200 | | 41 | 13 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 18:24 | 1 |
| Benzo[k]fluoranthene | 330 | | 41 | 12 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 18:24 | 1 |
| Bis(2-chloroethoxy)methane | <210 | | 210 | 42 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 18:24 | 1 |
| Bis(2-chloroethyl)ether | <210 | | 210 | 61 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 18:24 | 1 |
| Bis(2-ethylhexyl) phthalate | <210 | | 210 | 75 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 18:24 | 1 |
| Butyl benzyl phthalate | <210 | | 210 | 78 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 18:24 | 1 |
| Carbazole | <210 | | 210 | 100 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 18:24 | 1 |
| Chrysene | 570 | | 41 | 11 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 18:24 | 1 |
| Dibenz(a,h)anthracene | 63 | | 41 | 7.9 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 18:24 | 1 |
| Dibenzofuran | <210 | | 210 | 48 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 18:24 | 1 |
| Diethyl phthalate | <210 | | 210 | 69 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 18:24 | 1 |
| Dimethyl phthalate | <210 | | 210 | 53 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 18:24 | 1 |
| Di-n-butyl phthalate | <210 | | 210 | 62 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 18:24 | 1 |
| Di-n-octyl phthalate | <210 | | 210 | 67 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 18:24 | 1 |
| Fluoranthene | 1300 | | 41 | 7.6 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 18:24 | 1 |
| Fluorene | 11 | J | 41 | 5.7 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 18:24 | 1 |
| Hexachlorobenzene | <82 | | 82 | 9.5 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 18:24 | 1 |
| Hexachlorobutadiene | <210 | | 210 | 64 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 18:24 | 1 |
| Hexachlorocyclopentadiene | <820 | | 820 | 230 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 18:24 | 1 |
| Hexachloroethane | <210 | | 210 | 62 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 18:24 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109355-1

Client Sample ID: CB8-6(0-6.8)-032816

Lab Sample ID: 500-109355-19

Date Collected: 03/28/16 14:15

Matrix: Solid

Date Received: 03/28/16 15:45

Percent Solids: 79.0

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| Indeno[1,2,3-cd]pyrene | 210 | | 41 | 11 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 18:24 | 1 |
| Isophorone | <210 | | 210 | 46 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 18:24 | 1 |
| Naphthalene | <41 | | 41 | 6.3 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 18:24 | 1 |
| Nitrobenzene | <41 | | 41 | 10 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 18:24 | 1 |
| N-Nitrosodi-n-propylamine | <82 | | 82 | 50 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 18:24 | 1 |
| N-Nitrosodiphenylamine | <210 | | 210 | 48 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 18:24 | 1 |
| Pentachlorophenol | <820 | | 820 | 660 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 18:24 | 1 |
| Phenanthrene | 440 | | 41 | 5.7 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 18:24 | 1 |
| Phenol | <210 | | 210 | 91 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 18:24 | 1 |
| Pyrene | 1500 | | 41 | 8.1 | ug/Kg | ☼ | 03/29/16 08:11 | 04/04/16 18:24 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2,4,6-Tribromophenol | 56 | | 25 - 130 | | | | 03/29/16 08:11 | 04/04/16 18:24 | 1 |
| 2-Fluorobiphenyl | 74 | | 42 - 115 | | | | 03/29/16 08:11 | 04/04/16 18:24 | 1 |
| 2-Fluorophenol | 78 | | 40 - 130 | | | | 03/29/16 08:11 | 04/04/16 18:24 | 1 |
| Nitrobenzene-d5 | 70 | | 33 - 124 | | | | 03/29/16 08:11 | 04/04/16 18:24 | 1 |
| Phenol-d5 | 75 | | 36 - 123 | | | | 03/29/16 08:11 | 04/04/16 18:24 | 1 |
| Terphenyl-d14 | 136 | | 25 - 150 | | | | 03/29/16 08:11 | 04/04/16 18:24 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|---------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.050 | | 0.050 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 16:30 | 1 |
| Barium | 0.37 | J | 0.50 | 0.050 | mg/L | | 03/31/16 15:12 | 04/01/16 16:30 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 03/31/16 15:12 | 04/01/16 16:30 | 1 |
| Cadmium | 0.0036 | J | 0.0050 | 0.0020 | mg/L | | 03/31/16 15:12 | 04/01/16 16:30 | 1 |
| Chromium | <0.025 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 16:30 | 1 |
| Cobalt | 0.011 | J | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 16:30 | 1 |
| Copper | <0.025 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 16:30 | 1 |
| Iron | <0.40 | | 0.40 | 0.20 | mg/L | | 03/31/16 15:12 | 04/01/16 16:30 | 1 |
| Lead | 0.012 | | 0.0075 | 0.0075 | mg/L | | 03/31/16 15:12 | 04/01/16 16:30 | 1 |
| Manganese | 2.6 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 16:30 | 1 |
| Nickel | 0.010 | J | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 16:30 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 03/31/16 15:12 | 04/01/16 16:30 | 1 |
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 03/31/16 15:12 | 04/01/16 16:30 | 1 |
| Zinc | 0.63 | | 0.50 | 0.020 | mg/L | | 03/31/16 15:12 | 04/01/16 16:30 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|---------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.055 | | 0.050 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 18:02 | 1 |
| Barium | 0.57 | | 0.50 | 0.050 | mg/L | | 03/30/16 15:14 | 03/31/16 18:02 | 1 |
| Beryllium | 0.0090 | | 0.0040 | 0.0040 | mg/L | | 03/30/16 15:14 | 03/31/16 18:02 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 03/30/16 15:14 | 03/31/16 18:02 | 1 |
| Chromium | 0.22 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 18:02 | 1 |
| Cobalt | 0.083 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 18:02 | 1 |
| Copper | 0.20 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 18:02 | 1 |
| Iron | 200 | | 0.40 | 0.20 | mg/L | | 03/30/16 15:14 | 03/31/16 18:02 | 1 |
| Lead | 0.25 | | 0.0075 | 0.0075 | mg/L | | 03/30/16 15:14 | 03/31/16 18:02 | 1 |
| Manganese | 1.0 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 18:02 | 1 |
| Nickel | 0.22 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 18:02 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 03/30/16 15:14 | 03/31/16 18:02 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109355-1

Client Sample ID: CB8-6(0-6.8)-032816

Lab Sample ID: 500-109355-19

Date Collected: 03/28/16 14:15

Matrix: Solid

Date Received: 03/28/16 15:45

Percent Solids: 79.0

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|------------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 03/30/16 15:14 | 03/31/16 18:02 | 1 |
| Zinc | 1.6 | | 0.50 | 0.020 | mg/L | | 03/30/16 15:14 | 03/31/16 18:02 | 1 |

Method: 6010B - Total Metals

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | <1.2 | | 1.2 | 0.25 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 19:00 | 1 |
| Arsenic | 4.5 | | 0.61 | 0.28 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 19:00 | 1 |
| Barium | 190 | | 0.61 | 0.11 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 19:00 | 1 |
| Beryllium | 1.1 | | 0.24 | 0.052 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 19:00 | 1 |
| Cadmium | 0.23 | | 0.12 | 0.035 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 19:00 | 1 |
| Calcium | 17000 | B | 12 | 3.9 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 19:00 | 1 |
| Chromium | 21 | | 0.61 | 0.10 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 19:00 | 1 |
| Cobalt | 14 | | 0.30 | 0.068 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 19:00 | 1 |
| Copper | 23 | | 0.61 | 0.13 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 19:00 | 1 |
| Iron | 18000 | B | 12 | 4.7 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 19:00 | 1 |
| Lead | 26 | | 0.30 | 0.15 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 19:00 | 1 |
| Magnesium | 9600 | | 6.1 | 2.5 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 19:00 | 1 |
| Manganese | 270 | | 0.61 | 0.12 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 19:00 | 1 |
| Nickel | 36 | | 0.61 | 0.16 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 19:00 | 1 |
| Potassium | 2000 | B | 30 | 4.9 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 19:00 | 1 |
| Selenium | 0.66 | | 0.61 | 0.30 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 19:00 | 1 |
| Silver | <0.30 | | 0.30 | 0.071 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 19:00 | 1 |
| Sodium | 830 | B | 61 | 8.0 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 19:00 | 1 |
| Thallium | <0.61 | | 0.61 | 0.30 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 19:00 | 1 |
| Vanadium | 18 | | 0.30 | 0.088 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 19:00 | 1 |
| Zinc | 120 | | 1.2 | 0.38 | mg/Kg | ☼ | 03/30/16 09:15 | 03/30/16 19:00 | 1 |

Method: 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 03/31/16 13:40 | 04/01/16 11:07 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 03/30/16 13:30 | 03/31/16 11:27 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Mercury | 45 | | 18 | 9.6 | ug/Kg | ☼ | 03/29/16 16:30 | 03/30/16 10:43 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-------------|-----------|-------|-------|------|---|----------|----------------|---------|
| pH | 8.19 | | 0.200 | 0.200 | SU | | | 03/30/16 16:02 | 1 |

Definitions/Glossary

Client: Environmental Design International, Inc.
Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109355-1

Qualifiers

GC/MS VOA

| Qualifier | Qualifier Description |
|-----------|--|
| F1 | MS and/or MSD Recovery is outside acceptance limits. |

GC/MS Semi VOA

| Qualifier | Qualifier Description |
|-----------|--|
| F2 | MS/MSD RPD exceeds control limits |
| F1 | MS and/or MSD Recovery is outside acceptance limits. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

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. |
| F5 | Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL. |
| F2 | MS/MSD RPD exceeds control limits |
| F1 | MS and/or MSD Recovery is outside acceptance limits. |
| F3 | Duplicate RPD exceeds the control limit |
| 4 | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |
| ^ | ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits. |

Glossary

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

Certification Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109355-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|-----------|---------|------------|------------------|-----------------|
| Illinois | NELAP | 5 | 100201 | 04-30-17 |

The following analytes are included in this report, but certification is not offered by the governing authority:

| Analysis Method | Prep Method | Matrix | Analyte |
|-----------------|-------------|--------|----------------------------|
| 8260B | | Solid | 1,3-Dichloropropene, Total |
| Moisture | | Solid | Percent Moisture |
| Moisture | | Solid | Percent Solids |

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

Bill To (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 PO#/Reference# 500-109355 COC

Chain of Custody Record

Lab Job #: 500-109355

Chain of Custody Number: _____

Page 1 of 2

Temperature °C of Cooler: 4.5



| Client | | Client Project # | | Preservative | | Parameter | | Matrix | | Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other | |
|--------------|--------|-----------------------|---------|--------------|---|-----------------|---|--------|----------|---|---|
| Project Name | | Lab Project # | | Sampling | | # of Containers | | Matrix | | | |
| Lab ID | MS/MSD | Sample ID | Date | Time | | | | | Comments | | |
| EDF | | 0295.022 | | | | | | | | | |
| IDOT Harvey | | | | | | | | | | | |
| Harvey IL | | | | | | | | | | | |
| Celia Penner | | | | | | | | | | | |
| | | | | | | | | | | | |
| 1 | | JS-1(0-4)-032816 | 3/26/16 | 0945 | 2 | S | X | X | X | X | X |
| 2 | | VLI-1(0-5)-032816 | | 1010 | | | X | X | X | X | X |
| 3 | | VLI-1(5-10)-032816 | | 1015 | | | X | X | X | X | X |
| 4 | | VLI-1(10-13.5)-032816 | | 1020 | | | X | X | X | X | X |
| 5 | | VLI-2(0-5)-032816 | | 1045 | | | X | X | X | X | X |
| 6 | | VLI-2(5-10)-032816 | | 1050 | | | X | X | X | X | X |
| 7 | | VLI-2(10-13.5)-032816 | | 1055 | | | X | X | X | X | X |
| 8 | | R7-1(0-4)-032816 | | 1110 | | | X | X | X | X | X |
| 9 | | R7-2(0-5)-032816 | | 1135 | | | X | X | X | X | X |
| 10 | | R7-2(5-10)-032816 | | 1140 | | | X | X | X | X | X |

Turnaround Time Required (Business Days) _____
 Requested Due Date _____
 Sample Disposal: Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

| | | |
|--|---|--|
| Relinquished By: <u>[Signature]</u> Company: <u>EDF</u> Date: <u>3/26/16</u> Time: <u>1500</u> | Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/28/16</u> Time: <u>1500</u> | Lab Courier: <input checked="" type="checkbox"/> |
| Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/20/16</u> Time: <u>1545</u> | Received By: <u>[Signature]</u> Company: <u>TAL</u> Date: <u>03/28/16</u> Time: <u>1545</u> | Shipped: <input type="checkbox"/> |
| Relinquished By: _____ Company: _____ Date: _____ Time: _____ | Received By: _____ Company: _____ Date: _____ Time: _____ | Hand Delivered: <input type="checkbox"/> |

Matrix Key:
 WW - Wastewater SE - Sediment
 W - Water SO - Soil
 S - Soil L - Leachate
 SL - Sludge WI - Wipe
 MS - Miscellaneous DW - Drinking Water
 OL - Oil O - Other
 A - Air

Client Comments: _____
 Lab Comments: _____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

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

Chain of Custody Record

Lab Job #: 500-109355
 Chain of Custody Number: _____
 Page 2 of 2
 Temperature °C of Cooler: 4.5

| Client | | Client Project # | | Preservative | | | | | | | Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other | |
|------------------------|--------|---------------------|---------|--------------|-----------------|--------|------|-------|--------------|-----------------|---|----------|
| Project Name | | Lab Project # | | Parameter | | | | | | | | |
| Project Location/State | | Lab PM | | | | | | | | | | |
| Sampler | | | | | | | | | | | | |
| Lab ID | MS/MSD | Sample ID | Date | Time | # of Containers | Matrix | VOCs | SVOCs | Total Metals | TEC/SPEC metals | pH | Comments |
| 11 | | R7-3(0-5)-032816 | 3/28/16 | 1210 | 2 | S | X | X | X | X | X | |
| 12 | | R7-3(5-8)-032816 | | 1215 | | | | | | | | |
| 13 | | R7-3(5-8)-032816 D | | 1220 | | | | | | | | |
| 14 | | CB8-1(0-6.8)-032816 | | 1250 | | | | | | | | |
| 15 | | CB8-2(0-4)-032816 | | 1305 | | | | | | | | |
| 16 | | CB8-3(0-4)-032816 | | 1320 | | | | | | | | |
| 17 | | CB8-4(0-4)-032816 | | 1340 | | | | | | | | |
| 18 | | CB8-5(0-4)-032816 | | 1400 | | | | | | | | |
| 19 | | CB8-6(0-6.8)-032816 | | 1415 | | | | | | | | |
| 20 | | CB8-7(0-6.8)-032816 | | 1430 | | | X | X | X | X | X | |

Turnaround Time Required (Business Days)
 ___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days ___ Other
 Requested Due Date: _____

Sample Disposal
 Return to Client Disposal by Lab Archive for ___ Months (A fee may be assessed if samples are retained longer than 1 month)

| | | |
|---|---|--|
| Relinquished By: <u>[Signature]</u> Company: <u>EDJ</u> Date: <u>3/28/16</u> Time: <u>1500</u> | Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/28/16</u> Time: <u>1500</u> | Lab Courier: <input checked="" type="checkbox"/> |
| Relinquished By: <u>[Signature]</u> Company: <u>TAL</u> Date: <u>03/28/16</u> Time: <u>1545</u> | Received By: <u>[Signature]</u> Company: <u>TAL</u> Date: <u>03/28/16</u> Time: <u>1545</u> | Shipped: <input type="checkbox"/> |
| Relinquished By: _____ Company: _____ Date: _____ Time: _____ | Received By: _____ Company: _____ Date: _____ Time: _____ | Hand Delivered: <input type="checkbox"/> |

Matrix Key
 WW - Wastewater SE - Sediment
 W - Water SO - Soil
 S - Soil L - Leachate
 SL - Sludge WI - Wipe
 MS - Miscellaneous DW - Drinking Water
 OL - Oil O - Other
 A - Air

Client Comments:

Lab Comments:



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

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

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

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

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

I. Source Location Information

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

Project Name: FAU 3597: IL Route 1 (Halsted St) at Vincennes Rd Office Phone Number, if available: _____

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

15230 S. Halsted Street, (ISGS Site No. 2553V-9)

City: Harvey State: IL Zip Code: _____

County: Cook Township: _____

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

Latitude: 41.61083333 Longitude: -87.63656111
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

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

Project Name: FAU 3597: IL Route 1 (Halsted St) at Vincennes

Latitude: 41.61083333 Longitude: -87.63656111

Uncontaminated Site Certification

III. Basis for Certification and Attachments

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

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

LOCATIONS PM-1 THROUGH PM-6 WERE SAMPLED ADJACENT TO ISGS SITE No. 2553V-9. SEE FIGURE 3-1 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

- 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]:

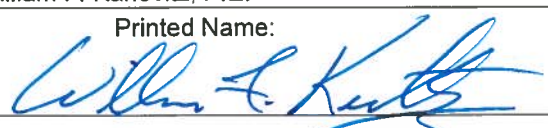
TEST AMERICA REPORTS - JOB IDS: 500-109413-1 AND 500-109414-1. ALSO SEE FIGURE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

I, William F. Karlovitz, P.E. (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: Weston Solutions, Inc.
 Street Address: 300 Circle Plaza; Suite 202
 City: Mundelein State: IL Zip Code: 60060
 Phone: (224) 864-7200

William F. Karlovitz, P.E.
 Printed Name:

 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

17 MAY 2016
 Date:



Summary Table of ISGS Site No. 2553V-9
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAU 3597: Illinois Route 1 (Halsted Street) at Vincennes Road
Harvey, Cook County, Illinois

| Field Sample ID | PM-1(0-4)-032916 | PM-1(4-7.7)-032916 | PM-2(0-4)-032916 | PM-3(0-4)-032916 | Soil Reference Concentrations ^A |
|-----------------------------|------------------|--------------------|------------------|------------------|--|
| Sample Date | 3/29/2016 | 3/29/2016 | 3/29/2016 | 3/29/2016 | |
| Location ID | PM-1 | PM-1 | PM-2 | PM-3 | |
| Depth | 0 - 4 | 4 - 7.7 | 0 - 4 | 0 - 4 | |
| Lab Sample ID | 500-109413-16 | 500-109413-17 | 500-109413-18 | 500-109413-19 | |
| ISGS Site No. | 2553V-9 | 2553V-9 | 2553V-9 | 2553V-9 | |
| Parameter | | | | | |
| Laboratory pH | 8.18 | 8.13 | 8.32 | 8.56 | <6.25,>9.0 |
| VOCs (ug/kg) | | | | | |
| Acetone | ND | ND | ND | ND | 25000 |
| SVOCs (ug/kg) | | | | | |
| 2-Methylnaphthalene | ND | ND | ND | ND | --- |
| Acenaphthene | 8.7 J | ND | ND | ND | 570000 |
| Acenaphthylene | ND | ND | ND | ND | --- |
| Anthracene | 34 J | ND | 15 J | ND | 1.20E+07 |
| Benzo(a)anthracene | 200 | 28 J | 130 | 55 | 900 / 1100 / 1800 |
| Benzo(a)pyrene | 260 | 34 J | 160 | 67 | 90 / 1300 / 2100 |
| Benzo(b)fluoranthene | 490 | 67 | 310 | 150 | 900 / 1500 / 2100 |
| Benzo(g,h,i)perylene | 120 | 23 J | 70 | 41 | --- |
| Benzo(k)fluoranthene | 180 | 30 J | 130 | 51 | 9000 |
| Chrysene | 270 | 44 | 180 | 69 | 88000 |
| Dibenzo(a,h)anthracene | 25 J | ND | ND | 12 J | 90 / 200 / 420 |
| Fluoranthene | 540 | 68 | 300 | 140 J | 3100000 |
| Fluorene | 11 J | ND | ND | ND | 560000 |
| Indeno(1,2,3-cd)pyrene | 110 | 18 J | 73 | 46 | 900 / 900 / 1600 |
| Phenanthrene | 230 | 37 J | 120 | 48 | --- |
| Pyrene | 610 | 95 | 330 | 160 J | 2300000 |
| Total Metals (mg/kg) | | | | | |
| Arsenic, Total | 6.3 J | 7.3 J | 5.5 J | 7.3 J | 11.3 / 13.0 |
| Barium, Total | 92 J | 28 J | 73 J | 74 J | 1500 |
| Beryllium, Total | 0.78 | 0.69 | 0.86 | 0.81 | 22 |
| Cadmium, Total | 0.11 | ND | 0.45 | 0.44 J | 5.2 |
| Calcium, Total | 10000 J | 61000 J | 27000 J | 82000 J | --- |
| Chromium, Total | 23 J | 17 J | 19 J | 25 J | 21 |
| Cobalt, Total | 15 J | 10 J | 12 J | 13 J | 20 |
| Copper, Total | 22 J | 25 J | 33 J | 54 J | 2900 |
| Iron, Total | 21000 J | 21000 J | 18000 J | 21000 J | 15000 / 15900 |
| Lead, Total | 21 J | 19 J | 59 J | 130 J | 107 |
| Magnesium, Total | 7800 J | 19000 J | 19000 J | 30000 J | 325000 |
| Manganese, Total | 350 J | 230 J | 220 J | 400 J | 630 / 636 |
| Mercury, Total | 0.027 | 0.023 | 0.037 | 0.026 | 0.89 |
| Nickel, Total | 31 J | 34 J | 31 J | 36 J | 100 |
| Potassium, Total | 1900 J | 2600 J | 2200 J | 1900 J | --- |
| Selenium, Total | ND | ND | ND | ND | 1.3 |
| Sodium, Total | 1000 J | 270 J | 950 J | 1400 J | --- |
| Thallium, Total | ND | ND | ND | ND | 2.6 |
| Vanadium, Total | 26 J | 20 J | 26 J | 22 J | 550 |
| Zinc, Total | 180 J | 76 J | 130 J | 150 J | 5100 |
| TCLP Metals (mg/l) | | | | | |
| Arsenic, TCLP | ND | ND | ND | ND | 0.05 |
| Barium, TCLP | 0.25 J | 0.19 J | 0.2 J | 0.2 J | 2 |
| Beryllium, TCLP | ND | ND | ND | ND | 0.004 |
| Cadmium, TCLP | ND | ND | ND | ND | 0.005 |
| Chromium, TCLP | ND | ND | ND | ND | 0.1 |
| Cobalt, TCLP | ND | ND | ND | ND | 1 |
| Copper, TCLP | ND | ND | ND | ND | 0.65 |
| Iron, TCLP | ND | ND | ND | ND | 5 |
| Lead, TCLP | ND | ND | ND | ND | 0.0075 |
| Manganese, TCLP | 0.86 | 0.75 | 0.28 | 0.66 | 0.15 |
| Mercury, TCLP | ND | ND | ND | ND | 0.002 |
| Nickel, TCLP | ND | ND | ND | ND | 0.1 |
| Selenium, TCLP | ND | ND | ND | ND | 0.05 |
| Zinc, TCLP | 0.32 J | ND | 0.082 J | 0.037 J | 5 |

Summary Table of ISGS Site No. 2553V-9
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAU 3597: Illinois Route 1 (Halsted Street) at Vincennes Road
Harvey, Cook County, Illinois

| Field Sample ID | PM-1(0-4)-032916 | PM-1(4-7.7)-032916 | PM-2(0-4)-032916 | PM-3(0-4)-032916 | Soil Reference Concentrations ^A |
|---------------------------|------------------|--------------------|------------------|------------------|--|
| Sample Date | 3/29/2016 | 3/29/2016 | 3/29/2016 | 3/29/2016 | |
| Location ID | PM-1 | PM-1 | PM-2 | PM-3 | |
| Depth | 0 - 4 | 4 - 7.7 | 0 - 4 | 0 - 4 | |
| Lab Sample ID | 500-109413-16 | 500-109413-17 | 500-109413-18 | 500-109413-19 | |
| ISGS Site No. | 2553V-9 | 2553V-9 | 2553V-9 | 2553V-9 | |
| Parameter | | | | | |
| SPLP Metals (mg/l) | | | | | |
| Arsenic, SPLP | 0.066 | ND | 0.11 | 0.11 | 0.05 |
| Barium, SPLP | 0.72 | 0.1 J | 0.66 | 0.52 | 2 |
| Beryllium, SPLP | 0.01 | ND | 0.011 | 0.0099 | 0.004 |
| Cadmium, SPLP | ND | ND | ND | ND | 0.005 |
| Chromium, SPLP | 0.25 | 0.041 | 0.28 | 0.28 | 0.1 |
| Cobalt, SPLP | 0.11 | ND | 0.12 | 0.096 | 1 |
| Copper, SPLP | 0.18 | 0.03 | 0.3 | 0.23 | 0.65 |
| Iron, SPLP | 260 | 43 | 300 | 400 | 5 |
| Lead, SPLP | 0.14 | 0.019 | 0.24 | 0.18 | 0.0075 |
| Manganese, SPLP | 0.99 | 0.13 | 1.2 | 1.1 | 0.15 |
| Mercury, SPLP | ND | ND | ND | ND | 0.002 |
| Nickel, SPLP | 0.24 | 0.032 | 0.3 | 0.32 | 0.1 |
| Selenium, SPLP | ND | ND | ND | ND | 0.05 |
| Zinc, SPLP | 1.1 | 0.082 J | 1.1 | 0.75 | 5 |

Summary Table of ISGS Site No. 2553V-9
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAU 3597: Illinois Route 1 (Halsted Street) at Vincennes Road
Harvey, Cook County, Illinois

| Field Sample ID | PM-3(0-4)-032916D | PM-3(4-7.7)-032916 | PM-4(0-4)-032916 | PM-4(4-7.7)-032916 | PM-5(0-4)-032916 | Soil Reference Concentrations ^A |
|-----------------------------|-------------------|--------------------|------------------|--------------------|------------------|--|
| Sample Date | 3/29/2016 | 3/29/2016 | 3/29/2016 | 3/29/2016 | 3/29/2016 | |
| Location ID | PM-3 | PM-3 | PM-4 | PM-4 | PM-5 | |
| Depth | 0 - 4 | 4 - 7.7 | 0 - 4 | 4 - 7.7 | 0 - 4 | |
| Lab Sample ID | 500-109413-20 | 500-109414-1 | 500-109414-2 | 500-109414-3 | 500-109414-4 | |
| ISGS Site No. | 2553V-9 | 2553V-9 | 2553V-9 | 2553V-9 | 2553V-9 | |
| Parameter | | | | | | |
| Laboratory pH | 8.56 | 8.13 | 8.44 | 7.87 | 8.43 | <6.25,>9.0 |
| VOCs (ug/kg) | | | | | | |
| Acetone | ND | ND | ND | ND | ND | 25000 |
| SVOCs (ug/kg) | | | | | | |
| 2-Methylnaphthalene | ND | ND | 9 J | ND | ND | --- |
| Acenaphthene | ND | ND | 8.7 J | ND | ND | 570000 |
| Acenaphthylene | ND | ND | 5.7 J | ND | 6.4 J | --- |
| Anthracene | ND | ND | 19 J | ND | 15 J | 1.20E+07 |
| Benzo(a)anthracene | 24 J | 7.6 J | 100 | ND | 89 | 900 / 1100 / 1800 |
| Benzo(a)pyrene | 29 J | 9.4 J | 95 | ND | 120 | 90 / 1300 / 2100 |
| Benzo(b)fluoranthene | 54 | 14 J | 170 | ND | 200 | 900 / 1500 / 2100 |
| Benzo(g,h,i)perylene | ND | ND | 40 | ND | 47 | --- |
| Benzo(k)fluoranthene | 25 J | ND | 86 | ND | 92 | 9000 |
| Chrysene | 30 J | 18 J | 120 | ND | 130 | 88000 |
| Dibenzo(a,h)anthracene | ND | ND | ND | ND | ND | 90 / 200 / 420 |
| Fluoranthene | 43 J | 16 J | 210 | ND | 210 | 3100000 |
| Fluorene | ND | ND | 8.8 J | ND | ND | 560000 |
| Indeno(1,2,3-cd)pyrene | 16 J | ND | 42 | ND | 51 | 900 / 900 / 1600 |
| Phenanthrene | 16 J | 9.7 J | 130 | 12 J | 94 | --- |
| Pyrene | 62 J | 19 J | 190 | 12 J | 190 | 2300000 |
| Total Metals (mg/kg) | | | | | | |
| Arsenic, Total | 7.7 J | 7.8 | 10 | 10 | 11 | 11.3 / 13.0 |
| Barium, Total | 94 J | 19 B | 61 B | 38 B | 76 B | 1500 |
| Beryllium, Total | 0.82 | 0.32 | 0.75 | 0.42 | 0.76 | 22 |
| Cadmium, Total | 0.11 J | ND | 0.22 | ND | 0.26 | 5.2 |
| Calcium, Total | 9700 J | 64000 B | 6100 B | 33000 B | 6800 B | --- |
| Chromium, Total | 18 J | 9.9 | 20 | 13 | 21 | 21 |
| Cobalt, Total | 16 J | 8.3 | 12 | 14 | 17 | 20 |
| Copper, Total | 21 J | 26 | 32 | 21 | 26 | 2900 |
| Iron, Total | 20000 J | 15000 B | 23000 B | 20000 B | 26000 B | 15000 / 15900 |
| Lead, Total | 27 J | 12 | 57 | 14 | 51 | 107 |
| Magnesium, Total | 7300 J | 31000 | 6300 | 22000 | 6100 | 325000 |
| Manganese, Total | 530 J | 390 | 190 | 570 | 420 | 630 / 636 |
| Mercury, Total | 0.025 | 0.023 | 0.084 | 0.022 | 0.039 | 0.89 |
| Nickel, Total | 29 J | 23 | 36 | 31 | 36 | 100 |
| Potassium, Total | 1700 J | 1600 | 2000 | 2000 | 2000 | --- |
| Selenium, Total | 0.31 J | 0.67 | 1 | 0.99 | 1 | 1.3 |
| Sodium, Total | 1400 J | 590 B | 1000 B | 360 B | 830 B | --- |
| Thallium, Total | ND | 0.56 J | 0.31 J | 0.46 J | 0.33 J | 2.6 |
| Vanadium, Total | 27 J | 11 | 22 | 14 | 25 | 550 |
| Zinc, Total | 96 J | 40 | 120 | 45 | 180 | 5100 |
| TCLP Metals (mg/l) | | | | | | |
| Arsenic, TCLP | ND | ND | ND | ND | ND | 0.05 |
| Barium, TCLP | 0.2 J | 0.11 J | 0.3 J | 0.17 J | 0.24 J | 2 |
| Beryllium, TCLP | ND | ND | ND | ND | ND | 0.004 |
| Cadmium, TCLP | ND | ND | ND | ND | ND | 0.005 |
| Chromium, TCLP | ND | ND | ND | ND | ND | 0.1 |
| Cobalt, TCLP | ND | ND | ND | 0.016 J | ND | 1 |
| Copper, TCLP | ND | ND | ND | ND | ND | 0.65 |
| Iron, TCLP | ND | 0.28 J | ND | ND | ND | 5 |
| Lead, TCLP | ND | ND | ND | ND | ND | 0.0075 |
| Manganese, TCLP | 0.7 | 1.4 | 0.37 | 2.4 | 0.2 | 0.15 |
| Mercury, TCLP | ND | ND | ND | ND | ND | 0.002 |
| Nickel, TCLP | ND | ND | ND | 0.033 | ND | 0.1 |
| Selenium, TCLP | ND | ND | ND | ND | ND | 0.05 |
| Zinc, TCLP | 0.078 J | 0.021 J | 0.1 J | ND | 0.049 J | 5 |

Summary Table of ISGS Site No. 2553V-9
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAU 3597: Illinois Route 1 (Halsted Street) at Vincennes Road
Harvey, Cook County, Illinois

| Field Sample ID | PM-3(0-4)-032916D | PM-3(4-7.7)-032916 | PM-4(0-4)-032916 | PM-4(4-7.7)-032916 | PM-5(0-4)-032916 | Soil Reference Concentrations ^A |
|---------------------------|-------------------|--------------------|------------------|--------------------|------------------|--|
| Sample Date | 3/29/2016 | 3/29/2016 | 3/29/2016 | 3/29/2016 | 3/29/2016 | |
| Location ID | PM-3 | PM-3 | PM-4 | PM-4 | PM-5 | |
| Depth | 0 - 4 | 4 - 7.7 | 0 - 4 | 4 - 7.7 | 0 - 4 | |
| Lab Sample ID | 500-109413-20 | 500-109414-1 | 500-109414-2 | 500-109414-3 | 500-109414-4 | |
| ISGS Site No. | 2553V-9 | 2553V-9 | 2553V-9 | 2553V-9 | 2553V-9 | |
| Parameter | | | | | | |
| SPLP Metals (mg/l) | | | | | | |
| Arsenic, SPLP | 0.13 | 0.044 J | 0.098 | 0.034 J | 0.099 | 0.05 |
| Barium, SPLP | 0.69 | 0.1 J | 0.59 | 0.14 J | 0.57 | 2 |
| Beryllium, SPLP | 0.011 | ND | 0.0077 | ND | 0.0096 | 0.004 |
| Cadmium, SPLP | ND | ND | ND | ND | ND | 0.005 |
| Chromium, SPLP | 0.32 | 0.072 | 0.18 | 0.066 | 0.23 | 0.1 |
| Cobalt, SPLP | 0.11 | 0.025 | 0.066 | 0.022 J | 0.083 | 1 |
| Copper, SPLP | 0.29 | 0.12 | 0.21 | 0.085 | 0.2 | 0.65 |
| Iron, SPLP | 350 | 81 J+ | 220 J+ | 81 J+ | 250 J+ | 5 |
| Lead, SPLP | 0.2 | 0.066 J+ | 0.39 J+ | 0.051 J+ | 0.36 J+ | 0.0075 |
| Manganese, SPLP | 1.3 | 0.3 | 0.87 | 0.37 | 0.84 | 0.15 |
| Mercury, SPLP | ND | ND | ND | ND | ND | 0.002 |
| Nickel, SPLP | 0.37 | 0.082 | 0.21 | 0.079 | 0.28 | 0.1 |
| Selenium, SPLP | ND | ND | ND | ND | ND | 0.05 |
| Zinc, SPLP | 1.3 | 0.19 J | 1 | 0.16 J | 0.92 | 5 |

Summary Table of ISGS Site No. 2553V-9
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAU 3597: Illinois Route 1 (Halsted Street) at Vincennes Road
Harvey, Cook County, Illinois

| Field Sample ID | PM-6(0-4)-032916 | PM-6(4-7.7)-032916 | Soil Reference Concentrations ^A |
|-----------------------------|------------------|--------------------|--|
| Sample Date | 3/29/2016 | 3/29/2016 | |
| Location ID | PM-6 | PM-6 | |
| Depth | 0 - 4 | 4 - 7.7 | |
| Lab Sample ID | 500-109414-5 | 500-109414-6 | |
| ISGS Site No. | 2553V-9 | 2553V-9 | |
| Parameter | | | |
| Laboratory pH | 8.21 | 8.23 | <6.25,>9.0 |
| VOCs (ug/kg) | | | |
| Acetone | ND | 32 | 25000 |
| SVOCs (ug/kg) | | | |
| 2-Methylnaphthalene | ND | ND | --- |
| Acenaphthene | ND | ND | 570000 |
| Acenaphthylene | ND | ND | --- |
| Anthracene | 19 J | ND | 1.20E+07 |
| Benzo(a)anthracene | 92 | 15 J | 900 / 1100 / 1800 |
| Benzo(a)pyrene | 110 | ND | 90 / 1300 / 2100 |
| Benzo(b)fluoranthene | 200 | 38 | 900 / 1500 / 2100 |
| Benzo(g,h,i)perylene | 51 | ND | --- |
| Benzo(k)fluoranthene | 110 | 17 J | 9000 |
| Chrysene | 140 | 31 J | 88000 |
| Dibenzo(a,h)anthracene | ND | ND | 90 / 200 / 420 |
| Fluoranthene | 170 | 34 J | 3100000 |
| Fluorene | ND | ND | 560000 |
| Indeno(1,2,3-cd)pyrene | 44 | ND | 900 / 900 / 1600 |
| Phenanthrene | 100 | 25 J | --- |
| Pyrene | 180 | 49 | 2300000 |
| Total Metals (mg/kg) | | | |
| Arsenic, Total | 5.6 | 11 | 11.3 / 13.0 |
| Barium, Total | 58 B | 23 B | 1500 |
| Beryllium, Total | 0.82 | 0.55 | 22 |
| Cadmium, Total | 0.27 | ND | 5.2 |
| Calcium, Total | 18000 B | 20000 B | --- |
| Chromium, Total | 22 | 16 | 21 |
| Cobalt, Total | 13 | 12 | 20 |
| Copper, Total | 28 | 22 | 2900 |
| Iron, Total | 19000 B | 24000 B | 15000 / 15900 |
| Lead, Total | 56 | 17 | 107 |
| Magnesium, Total | 13000 | 15000 | 325000 |
| Manganese, Total | 270 | 280 | 630 / 636 |
| Mercury, Total | 0.12 | 0.029 | 0.89 |
| Nickel, Total | 38 | 33 | 100 |
| Potassium, Total | 2500 | 2300 | --- |
| Selenium, Total | 0.6 | 1.1 | 1.3 |
| Sodium, Total | 420 B | 270 B | --- |
| Thallium, Total | 0.57 | 0.33 J | 2.6 |
| Vanadium, Total | 23 | 16 | 550 |
| Zinc, Total | 110 | 58 | 5100 |
| TCLP Metals (mg/l) | | | |
| Arsenic, TCLP | ND | ND | 0.05 |
| Barium, TCLP | 0.14 J | 0.18 J | 2 |
| Beryllium, TCLP | ND | ND | 0.004 |
| Cadmium, TCLP | ND | ND | 0.005 |
| Chromium, TCLP | ND | ND | 0.1 |
| Cobalt, TCLP | ND | 0.013 J | 1 |
| Copper, TCLP | ND | ND | 0.65 |
| Iron, TCLP | 0.35 J | ND | 5 |
| Lead, TCLP | ND | ND | 0.0075 |
| Manganese, TCLP | 0.24 | 2 | 0.15 |
| Mercury, TCLP | ND | ND | 0.002 |
| Nickel, TCLP | ND | 0.017 J | 0.1 |
| Selenium, TCLP | ND | ND | 0.05 |
| Zinc, TCLP | ND | ND | 5 |

Summary Table of ISGS Site No. 2553V-9
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAU 3597: Illinois Route 1 (Halsted Street) at Vincennes Road
Harvey, Cook County, Illinois

| Field Sample ID | PM-6(0-4)-032916 | PM-6(4-7.7)-032916 | Soil Reference Concentrations ^A |
|---------------------------|------------------|--------------------|--|
| Sample Date | 3/29/2016 | 3/29/2016 | |
| Location ID | PM-6 | PM-6 | |
| Depth | 0 - 4 | 4 - 7.7 | |
| Lab Sample ID | 500-109414-5 | 500-109414-6 | |
| ISGS Site No. | 2553V-9 | 2553V-9 | |
| Parameter | | | |
| SPLP Metals (mg/l) | | | |
| Arsenic, SPLP | 0.054 | 0.056 | 0.05 |
| Barium, SPLP | 0.37 J | 0.25 J | 2 |
| Beryllium, SPLP | 0.0067 | 0.0049 | 0.004 |
| Cadmium, SPLP | ND | ND | 0.005 |
| Chromium, SPLP | 0.16 | 0.11 | 0.1 |
| Cobalt, SPLP | 0.053 | 0.045 | 1 |
| Copper, SPLP | 0.13 | 0.12 | 0.65 |
| Iron, SPLP | 150 J+ | 130 J+ | 5 |
| Lead, SPLP | 0.16 J+ | 0.11 J+ | 0.0075 |
| Manganese, SPLP | 0.48 | 0.57 | 0.15 |
| Mercury, SPLP | ND | ND | 0.002 |
| Nickel, SPLP | 0.17 | 0.14 | 0.1 |
| Selenium, SPLP | ND | ND | 0.05 |
| Zinc, SPLP | 0.41 J | 0.28 J | 5 |

Notes:

--- - not applicable or value not available.

^A - Soil reference concentrations from MAC Table. Background values for MSA Counties and Chicago corporate limits are included, as applicable.

B - Constituent detected in the blank and investigative sample.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J+ - Estimated concentration; biased high.

Shaded values indicate concentration **exceeds** Reference Concentration.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-109413-1

Client Project/Site: IDOT - Harvey IL Route 113 - WO 041

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

Attn: Ms. Patricia Feeley

Jodie Bracken

Authorized for release by:
4/7/2016 3:38:11 PM

Jodie Bracken, Project Management Assistant II
jodie.bracken@testamericainc.com

Designee for

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.

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

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Client Sample ID: PM-1(0-4)-032916

Lab Sample ID: 500-109413-16

Date Collected: 03/29/16 12:15

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 81.2

Method: 8260B - VOC

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Acetone | <25 | | 25 | 4.8 | ug/Kg | ☼ | | 04/04/16 12:55 | 1 |
| Benzene | <6.2 | | 6.2 | 1.4 | ug/Kg | ☼ | | 04/04/16 12:55 | 1 |
| Bromodichloromethane | <6.2 | | 6.2 | 1.0 | ug/Kg | ☼ | | 04/04/16 12:55 | 1 |
| Bromoform | <6.2 | | 6.2 | 1.3 | ug/Kg | ☼ | | 04/04/16 12:55 | 1 |
| Bromomethane | <6.2 | | 6.2 | 2.3 | ug/Kg | ☼ | | 04/04/16 12:55 | 1 |
| Carbon disulfide | <6.2 | | 6.2 | 2.3 | ug/Kg | ☼ | | 04/04/16 12:55 | 1 |
| Carbon tetrachloride | <6.2 | | 6.2 | 1.3 | ug/Kg | ☼ | | 04/04/16 12:55 | 1 |
| Chlorobenzene | <6.2 | | 6.2 | 1.5 | ug/Kg | ☼ | | 04/04/16 12:55 | 1 |
| Chloroethane | <6.2 | | 6.2 | 2.6 | ug/Kg | ☼ | | 04/04/16 12:55 | 1 |
| Chloroform | <6.2 | | 6.2 | 1.2 | ug/Kg | ☼ | | 04/04/16 12:55 | 1 |
| Chloromethane | <6.2 | | 6.2 | 1.5 | ug/Kg | ☼ | | 04/04/16 12:55 | 1 |
| cis-1,2-Dichloroethene | <6.2 | | 6.2 | 1.3 | ug/Kg | ☼ | | 04/04/16 12:55 | 1 |
| cis-1,3-Dichloropropene | <6.2 | | 6.2 | 1.4 | ug/Kg | ☼ | | 04/04/16 12:55 | 1 |
| Dibromochloromethane | <6.2 | | 6.2 | 0.71 | ug/Kg | ☼ | | 04/04/16 12:55 | 1 |
| 1,1-Dichloroethane | <6.2 | | 6.2 | 1.3 | ug/Kg | ☼ | | 04/04/16 12:55 | 1 |
| 1,2-Dichloroethane | <6.2 | | 6.2 | 0.91 | ug/Kg | ☼ | | 04/04/16 12:55 | 1 |
| 1,1-Dichloroethene | <6.2 | | 6.2 | 2.2 | ug/Kg | ☼ | | 04/04/16 12:55 | 1 |
| 1,2-Dichloropropane | <6.2 | | 6.2 | 1.6 | ug/Kg | ☼ | | 04/04/16 12:55 | 1 |
| 1,3-Dichloropropene, Total | <6.2 | | 6.2 | 1.7 | ug/Kg | ☼ | | 04/04/16 12:55 | 1 |
| Ethylbenzene | <6.2 | | 6.2 | 1.5 | ug/Kg | ☼ | | 04/04/16 12:55 | 1 |
| 2-Hexanone | <6.2 | | 6.2 | 1.9 | ug/Kg | ☼ | | 04/04/16 12:55 | 1 |
| Methylene Chloride | <6.2 | | 6.2 | 4.7 | ug/Kg | ☼ | | 04/04/16 12:55 | 1 |
| Methyl Ethyl Ketone | <6.2 | | 6.2 | 2.2 | ug/Kg | ☼ | | 04/04/16 12:55 | 1 |
| methyl isobutyl ketone | <6.2 | | 6.2 | 1.3 | ug/Kg | ☼ | | 04/04/16 12:55 | 1 |
| Methyl tert-butyl ether | <6.2 | | 6.2 | 1.5 | ug/Kg | ☼ | | 04/04/16 12:55 | 1 |
| Styrene | <6.2 | | 6.2 | 1.4 | ug/Kg | ☼ | | 04/04/16 12:55 | 1 |
| 1,1,2,2-Tetrachloroethane | <6.2 | | 6.2 | 0.98 | ug/Kg | ☼ | | 04/04/16 12:55 | 1 |
| Tetrachloroethene | <6.2 | | 6.2 | 1.3 | ug/Kg | ☼ | | 04/04/16 12:55 | 1 |
| Toluene | <6.2 | | 6.2 | 2.1 | ug/Kg | ☼ | | 04/04/16 12:55 | 1 |
| trans-1,2-Dichloroethene | <6.2 | | 6.2 | 1.5 | ug/Kg | ☼ | | 04/04/16 12:55 | 1 |
| trans-1,3-Dichloropropene | <6.2 | | 6.2 | 1.7 | ug/Kg | ☼ | | 04/04/16 12:55 | 1 |
| 1,1,1-Trichloroethane | <6.2 | | 6.2 | 1.4 | ug/Kg | ☼ | | 04/04/16 12:55 | 1 |
| 1,1,2-Trichloroethane | <6.2 | | 6.2 | 1.2 | ug/Kg | ☼ | | 04/04/16 12:55 | 1 |
| Trichloroethene | <6.2 | | 6.2 | 1.7 | ug/Kg | ☼ | | 04/04/16 12:55 | 1 |
| Vinyl chloride | <6.2 | | 6.2 | 1.5 | ug/Kg | ☼ | | 04/04/16 12:55 | 1 |
| Xylenes, Total | <12 | | 12 | 2.3 | ug/Kg | ☼ | | 04/04/16 12:55 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 104 | | 70 - 120 | | 04/04/16 12:55 | 1 |
| Dibromofluoromethane | 111 | | 75 - 120 | | 04/04/16 12:55 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 108 | | 69 - 134 | | 04/04/16 12:55 | 1 |
| Toluene-d8 (Surr) | 113 | | 75 - 123 | | 04/04/16 12:55 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,2,4-Trichlorobenzene | <200 | | 200 | 44 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:20 | 1 |
| 1,2-Dichlorobenzene | <200 | | 200 | 49 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:20 | 1 |
| 1,3-Dichlorobenzene | <200 | | 200 | 46 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:20 | 1 |
| 1,4-Dichlorobenzene | <200 | | 200 | 52 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:20 | 1 |
| 2,2'-oxybis[1-chloropropane] | <200 | | 200 | 47 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:20 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Client Sample ID: PM-1(0-4)-032916

Lab Sample ID: 500-109413-16

Date Collected: 03/29/16 12:15

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 81.2

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|------------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol | <400 | | 400 | 93 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:20 | 1 |
| 2,4,6-Trichlorophenol | <400 | | 400 | 140 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:20 | 1 |
| 2,4-Dichlorophenol | <400 | | 400 | 97 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:20 | 1 |
| 2,4-Dimethylphenol | <400 | | 400 | 150 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:20 | 1 |
| 2,4-Dinitrophenol | <820 | | 820 | 720 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:20 | 1 |
| 2,4-Dinitrotoluene | <200 | | 200 | 65 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:20 | 1 |
| 2,6-Dinitrotoluene | <200 | | 200 | 80 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:20 | 1 |
| 2-Chloronaphthalene | <200 | | 200 | 45 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:20 | 1 |
| 2-Chlorophenol | <200 | | 200 | 69 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:20 | 1 |
| 2-Methylnaphthalene | <40 | | 40 | 7.5 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:20 | 1 |
| 2-Methylphenol | <200 | | 200 | 65 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:20 | 1 |
| 2-Nitroaniline | <200 | | 200 | 55 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:20 | 1 |
| 2-Nitrophenol | <400 | | 400 | 96 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:20 | 1 |
| 3 & 4 Methylphenol | <200 | | 200 | 68 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:20 | 1 |
| 3,3'-Dichlorobenzidine | <200 | | 200 | 57 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:20 | 1 |
| 3-Nitroaniline | <400 | | 400 | 130 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:20 | 1 |
| 4,6-Dinitro-2-methylphenol | <820 | | 820 | 330 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:20 | 1 |
| 4-Bromophenyl phenyl ether | <200 | | 200 | 54 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:20 | 1 |
| 4-Chloro-3-methylphenol | <400 | | 400 | 140 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:20 | 1 |
| 4-Chloroaniline | <820 | | 820 | 190 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:20 | 1 |
| 4-Chlorophenyl phenyl ether | <200 | | 200 | 47 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:20 | 1 |
| 4-Nitroaniline | <400 | | 400 | 170 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:20 | 1 |
| 4-Nitrophenol | <820 | | 820 | 390 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:20 | 1 |
| Acenaphthene | 8.7 | J | 40 | 7.3 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:20 | 1 |
| Acenaphthylene | <40 | | 40 | 5.4 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:20 | 1 |
| Anthracene | 34 | J | 40 | 6.8 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:20 | 1 |
| Benzo[a]anthracene | 200 | | 40 | 5.5 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:20 | 1 |
| Benzo[a]pyrene | 260 | | 40 | 7.9 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:20 | 1 |
| Benzo[b]fluoranthene | 490 | | 40 | 8.8 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:20 | 1 |
| Benzo[g,h,i]perylene | 120 | | 40 | 13 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:20 | 1 |
| Benzo[k]fluoranthene | 180 | | 40 | 12 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:20 | 1 |
| Bis(2-chloroethoxy)methane | <200 | | 200 | 41 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:20 | 1 |
| Bis(2-chloroethyl)ether | <200 | | 200 | 61 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:20 | 1 |
| Bis(2-ethylhexyl) phthalate | <200 | | 200 | 74 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:20 | 1 |
| Butyl benzyl phthalate | <200 | | 200 | 77 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:20 | 1 |
| Carbazole | <200 | | 200 | 100 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:20 | 1 |
| Chrysene | 270 | | 40 | 11 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:20 | 1 |
| Dibenz(a,h)anthracene | 25 | J | 40 | 7.9 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:20 | 1 |
| Dibenzofuran | <200 | | 200 | 48 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:20 | 1 |
| Diethyl phthalate | <200 | | 200 | 69 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:20 | 1 |
| Dimethyl phthalate | <200 | | 200 | 53 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:20 | 1 |
| Di-n-butyl phthalate | <200 | | 200 | 62 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:20 | 1 |
| Di-n-octyl phthalate | <200 | | 200 | 66 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:20 | 1 |
| Fluoranthene | 540 | | 40 | 7.5 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:20 | 1 |
| Fluorene | 11 | J | 40 | 5.7 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:20 | 1 |
| Hexachlorobenzene | <82 | | 82 | 9.4 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:20 | 1 |
| Hexachlorobutadiene | <200 | | 200 | 64 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:20 | 1 |
| Hexachlorocyclopentadiene | <820 | | 820 | 230 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:20 | 1 |
| Hexachloroethane | <200 | | 200 | 62 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:20 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Client Sample ID: PM-1(0-4)-032916

Lab Sample ID: 500-109413-16

Date Collected: 03/29/16 12:15

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 81.2

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| Indeno[1,2,3-cd]pyrene | 110 | | 40 | 11 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:20 | 1 |
| Isophorone | <200 | | 200 | 46 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:20 | 1 |
| Naphthalene | <40 | | 40 | 6.3 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:20 | 1 |
| Nitrobenzene | <40 | | 40 | 10 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:20 | 1 |
| N-Nitrosodi-n-propylamine | <82 | | 82 | 50 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:20 | 1 |
| N-Nitrosodiphenylamine | <200 | | 200 | 48 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:20 | 1 |
| Pentachlorophenol | <820 | | 820 | 650 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:20 | 1 |
| Phenanthrene | 230 | | 40 | 5.7 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:20 | 1 |
| Phenol | <200 | | 200 | 90 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:20 | 1 |
| Pyrene | 610 | | 40 | 8.1 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:20 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| <i>2,4,6-Tribromophenol</i> | 39 | | 25 - 130 | | | | 03/30/16 08:24 | 04/06/16 23:20 | 1 |
| <i>2-Fluorobiphenyl</i> | 84 | | 42 - 115 | | | | 03/30/16 08:24 | 04/06/16 23:20 | 1 |
| <i>2-Fluorophenol</i> | 84 | | 40 - 130 | | | | 03/30/16 08:24 | 04/06/16 23:20 | 1 |
| <i>Nitrobenzene-d5</i> | 67 | | 33 - 124 | | | | 03/30/16 08:24 | 04/06/16 23:20 | 1 |
| <i>Phenol-d5</i> | 83 | | 36 - 123 | | | | 03/30/16 08:24 | 04/06/16 23:20 | 1 |
| <i>Terphenyl-d14</i> | 124 | | 25 - 150 | | | | 03/30/16 08:24 | 04/06/16 23:20 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|-------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.050 | | 0.050 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:29 | 1 |
| Barium | 0.25 | J | 0.50 | 0.050 | mg/L | | 04/01/16 14:34 | 04/02/16 18:29 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 04/01/16 14:34 | 04/02/16 18:29 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/01/16 14:34 | 04/02/16 18:29 | 1 |
| Chromium | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:29 | 1 |
| Cobalt | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:29 | 1 |
| Copper | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:29 | 1 |
| Iron | <0.40 | | 0.40 | 0.20 | mg/L | | 04/01/16 14:34 | 04/02/16 18:29 | 1 |
| Lead | <0.0075 | | 0.0075 | 0.0075 | mg/L | | 04/01/16 14:34 | 04/02/16 18:29 | 1 |
| Manganese | 0.86 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:29 | 1 |
| Nickel | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:29 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/01/16 14:34 | 04/02/16 18:29 | 1 |
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:29 | 1 |
| Zinc | 0.32 | J | 0.50 | 0.020 | mg/L | | 04/01/16 14:34 | 04/02/16 18:29 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.066 | | 0.050 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:50 | 1 |
| Barium | 0.72 | | 0.50 | 0.050 | mg/L | | 04/01/16 14:17 | 04/02/16 20:50 | 1 |
| Beryllium | 0.010 | | 0.0040 | 0.0040 | mg/L | | 04/01/16 14:17 | 04/02/16 20:50 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/01/16 14:17 | 04/02/16 20:50 | 1 |
| Chromium | 0.25 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:50 | 1 |
| Cobalt | 0.11 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:50 | 1 |
| Copper | 0.18 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:50 | 1 |
| Iron | 260 | | 0.40 | 0.20 | mg/L | | 04/05/16 07:39 | 04/05/16 15:21 | 1 |
| Lead | 0.14 | | 0.0075 | 0.0075 | mg/L | | 04/01/16 14:17 | 04/02/16 20:50 | 1 |
| Manganese | 0.99 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:50 | 1 |
| Nickel | 0.24 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:50 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/01/16 14:17 | 04/02/16 20:50 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Client Sample ID: PM-1(0-4)-032916

Lab Sample ID: 500-109413-16

Date Collected: 03/29/16 12:15

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 81.2

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|------------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:50 | 1 |
| Zinc | 1.1 | | 0.50 | 0.020 | mg/L | | 04/01/16 14:17 | 04/02/16 20:50 | 1 |

Method: 6010B - Total Metals

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | <1.1 | | 1.1 | 0.22 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:38 | 1 |
| Arsenic | 6.3 | | 0.53 | 0.25 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:38 | 1 |
| Barium | 92 | B | 0.53 | 0.097 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:38 | 1 |
| Beryllium | 0.78 | | 0.21 | 0.046 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:38 | 1 |
| Cadmium | 0.11 | | 0.11 | 0.031 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:38 | 1 |
| Calcium | 10000 | B | 11 | 3.4 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:38 | 1 |
| Chromium | 23 | | 0.53 | 0.091 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:38 | 1 |
| Cobalt | 15 | | 0.27 | 0.060 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:38 | 1 |
| Copper | 22 | | 0.53 | 0.12 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:38 | 1 |
| Iron | 21000 | | 11 | 4.1 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:38 | 1 |
| Lead | 21 | | 0.27 | 0.13 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:38 | 1 |
| Magnesium | 7800 | B | 5.3 | 2.2 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:38 | 1 |
| Manganese | 350 | | 0.53 | 0.11 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:38 | 1 |
| Nickel | 31 | | 0.53 | 0.14 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:38 | 1 |
| Potassium | 1900 | | 27 | 4.3 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:38 | 1 |
| Selenium | <0.53 | | 0.53 | 0.26 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:38 | 1 |
| Silver | <0.27 | | 0.27 | 0.062 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:38 | 1 |
| Sodium | 1000 | | 53 | 7.0 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:38 | 1 |
| Thallium | <0.53 | | 0.53 | 0.26 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:38 | 1 |
| Vanadium | 26 | | 0.27 | 0.078 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:38 | 1 |
| Zinc | 180 | | 1.1 | 0.34 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:38 | 1 |

Method: 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/01/16 15:45 | 04/04/16 13:52 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/01/16 15:45 | 04/04/16 12:56 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Mercury | 27 | | 19 | 9.7 | ug/Kg | ☼ | 03/30/16 16:15 | 03/31/16 10:37 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-------------|-----------|-------|-------|------|---|----------|----------------|---------|
| pH | 8.18 | | 0.200 | 0.200 | SU | | | 03/31/16 11:44 | 1 |

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Client Sample ID: PM-1(4-7.7)-032916

Lab Sample ID: 500-109413-17

Date Collected: 03/29/16 12:20

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 82.4

Method: 8260B - VOC

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Acetone | <24 | | 24 | 4.7 | ug/Kg | ☼ | | 04/04/16 13:19 | 1 |
| Benzene | <6.1 | | 6.1 | 1.3 | ug/Kg | ☼ | | 04/04/16 13:19 | 1 |
| Bromodichloromethane | <6.1 | | 6.1 | 1.0 | ug/Kg | ☼ | | 04/04/16 13:19 | 1 |
| Bromoform | <6.1 | | 6.1 | 1.2 | ug/Kg | ☼ | | 04/04/16 13:19 | 1 |
| Bromomethane | <6.1 | | 6.1 | 2.2 | ug/Kg | ☼ | | 04/04/16 13:19 | 1 |
| Carbon disulfide | <6.1 | | 6.1 | 2.2 | ug/Kg | ☼ | | 04/04/16 13:19 | 1 |
| Carbon tetrachloride | <6.1 | | 6.1 | 1.3 | ug/Kg | ☼ | | 04/04/16 13:19 | 1 |
| Chlorobenzene | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 04/04/16 13:19 | 1 |
| Chloroethane | <6.1 | | 6.1 | 2.5 | ug/Kg | ☼ | | 04/04/16 13:19 | 1 |
| Chloroform | <6.1 | | 6.1 | 1.2 | ug/Kg | ☼ | | 04/04/16 13:19 | 1 |
| Chloromethane | <6.1 | | 6.1 | 1.5 | ug/Kg | ☼ | | 04/04/16 13:19 | 1 |
| cis-1,2-Dichloroethene | <6.1 | | 6.1 | 1.2 | ug/Kg | ☼ | | 04/04/16 13:19 | 1 |
| cis-1,3-Dichloropropene | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 04/04/16 13:19 | 1 |
| Dibromochloromethane | <6.1 | | 6.1 | 0.70 | ug/Kg | ☼ | | 04/04/16 13:19 | 1 |
| 1,1-Dichloroethane | <6.1 | | 6.1 | 1.2 | ug/Kg | ☼ | | 04/04/16 13:19 | 1 |
| 1,2-Dichloroethane | <6.1 | | 6.1 | 0.90 | ug/Kg | ☼ | | 04/04/16 13:19 | 1 |
| 1,1-Dichloroethene | <6.1 | | 6.1 | 2.2 | ug/Kg | ☼ | | 04/04/16 13:19 | 1 |
| 1,2-Dichloropropane | <6.1 | | 6.1 | 1.6 | ug/Kg | ☼ | | 04/04/16 13:19 | 1 |
| 1,3-Dichloropropene, Total | <6.1 | | 6.1 | 1.7 | ug/Kg | ☼ | | 04/04/16 13:19 | 1 |
| Ethylbenzene | <6.1 | | 6.1 | 1.5 | ug/Kg | ☼ | | 04/04/16 13:19 | 1 |
| 2-Hexanone | <6.1 | | 6.1 | 1.9 | ug/Kg | ☼ | | 04/04/16 13:19 | 1 |
| Methylene Chloride | <6.1 | | 6.1 | 4.6 | ug/Kg | ☼ | | 04/04/16 13:19 | 1 |
| Methyl Ethyl Ketone | <6.1 | | 6.1 | 2.2 | ug/Kg | ☼ | | 04/04/16 13:19 | 1 |
| methyl isobutyl ketone | <6.1 | | 6.1 | 1.2 | ug/Kg | ☼ | | 04/04/16 13:19 | 1 |
| Methyl tert-butyl ether | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 04/04/16 13:19 | 1 |
| Styrene | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 04/04/16 13:19 | 1 |
| 1,1,2,2-Tetrachloroethane | <6.1 | | 6.1 | 0.96 | ug/Kg | ☼ | | 04/04/16 13:19 | 1 |
| Tetrachloroethene | <6.1 | | 6.1 | 1.3 | ug/Kg | ☼ | | 04/04/16 13:19 | 1 |
| Toluene | <6.1 | | 6.1 | 2.1 | ug/Kg | ☼ | | 04/04/16 13:19 | 1 |
| trans-1,2-Dichloroethene | <6.1 | | 6.1 | 1.5 | ug/Kg | ☼ | | 04/04/16 13:19 | 1 |
| trans-1,3-Dichloropropene | <6.1 | | 6.1 | 1.7 | ug/Kg | ☼ | | 04/04/16 13:19 | 1 |
| 1,1,1-Trichloroethane | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 04/04/16 13:19 | 1 |
| 1,1,2-Trichloroethane | <6.1 | | 6.1 | 1.2 | ug/Kg | ☼ | | 04/04/16 13:19 | 1 |
| Trichloroethene | <6.1 | | 6.1 | 1.6 | ug/Kg | ☼ | | 04/04/16 13:19 | 1 |
| Vinyl chloride | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 04/04/16 13:19 | 1 |
| Xylenes, Total | <12 | | 12 | 2.2 | ug/Kg | ☼ | | 04/04/16 13:19 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 106 | | 70 - 120 | | 04/04/16 13:19 | 1 |
| Dibromofluoromethane | 111 | | 75 - 120 | | 04/04/16 13:19 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 112 | | 69 - 134 | | 04/04/16 13:19 | 1 |
| Toluene-d8 (Surr) | 115 | | 75 - 123 | | 04/04/16 13:19 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,2,4-Trichlorobenzene | <200 | | 200 | 43 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:49 | 1 |
| 1,2-Dichlorobenzene | <200 | | 200 | 48 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:49 | 1 |
| 1,3-Dichlorobenzene | <200 | | 200 | 45 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:49 | 1 |
| 1,4-Dichlorobenzene | <200 | | 200 | 51 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:49 | 1 |
| 2,2'-oxybis[1-chloropropane] | <200 | | 200 | 46 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:49 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Client Sample ID: PM-1(4-7.7)-032916

Lab Sample ID: 500-109413-17

Date Collected: 03/29/16 12:20

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 82.4

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-------------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol | <390 | | 390 | 91 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:49 | 1 |
| 2,4,6-Trichlorophenol | <390 | | 390 | 140 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:49 | 1 |
| 2,4-Dichlorophenol | <390 | | 390 | 94 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:49 | 1 |
| 2,4-Dimethylphenol | <390 | | 390 | 150 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:49 | 1 |
| 2,4-Dinitrophenol | <800 | | 800 | 700 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:49 | 1 |
| 2,4-Dinitrotoluene | <200 | | 200 | 63 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:49 | 1 |
| 2,6-Dinitrotoluene | <200 | | 200 | 78 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:49 | 1 |
| 2-Chloronaphthalene | <200 | | 200 | 44 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:49 | 1 |
| 2-Chlorophenol | <200 | | 200 | 68 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:49 | 1 |
| 2-Methylnaphthalene | <39 | | 39 | 7.3 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:49 | 1 |
| 2-Methylphenol | <200 | | 200 | 64 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:49 | 1 |
| 2-Nitroaniline | <200 | | 200 | 53 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:49 | 1 |
| 2-Nitrophenol | <390 | | 390 | 94 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:49 | 1 |
| 3 & 4 Methylphenol | <200 | | 200 | 66 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:49 | 1 |
| 3,3'-Dichlorobenzidine | <200 | | 200 | 56 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:49 | 1 |
| 3-Nitroaniline | <390 | | 390 | 120 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:49 | 1 |
| 4,6-Dinitro-2-methylphenol | <800 | | 800 | 320 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:49 | 1 |
| 4-Bromophenyl phenyl ether | <200 | | 200 | 52 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:49 | 1 |
| 4-Chloro-3-methylphenol | <390 | | 390 | 140 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:49 | 1 |
| 4-Chloroaniline | <800 | | 800 | 190 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:49 | 1 |
| 4-Chlorophenyl phenyl ether | <200 | | 200 | 46 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:49 | 1 |
| 4-Nitroaniline | <390 | | 390 | 170 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:49 | 1 |
| 4-Nitrophenol | <800 | | 800 | 380 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:49 | 1 |
| Acenaphthene | <39 | | 39 | 7.1 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:49 | 1 |
| Acenaphthylene | <39 | | 39 | 5.2 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:49 | 1 |
| Anthracene | <39 | | 39 | 6.6 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:49 | 1 |
| Benzo[a]anthracene | 28 J | | 39 | 5.3 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:49 | 1 |
| Benzo[a]pyrene | 34 J | | 39 | 7.7 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:49 | 1 |
| Benzo[b]fluoranthene | 67 | | 39 | 8.6 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:49 | 1 |
| Benzo[g,h,i]perylene | 23 J | | 39 | 13 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:49 | 1 |
| Benzo[k]fluoranthene | 30 J | | 39 | 12 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:49 | 1 |
| Bis(2-chloroethoxy)methane | <200 | | 200 | 41 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:49 | 1 |
| Bis(2-chloroethyl)ether | <200 | | 200 | 60 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:49 | 1 |
| Bis(2-ethylhexyl) phthalate | <200 | | 200 | 73 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:49 | 1 |
| Butyl benzyl phthalate | <200 | | 200 | 76 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:49 | 1 |
| Carbazole | <200 | | 200 | 99 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:49 | 1 |
| Chrysene | 44 | | 39 | 11 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:49 | 1 |
| Dibenz(a,h)anthracene | <39 | | 39 | 7.7 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:49 | 1 |
| Dibenzofuran | <200 | | 200 | 47 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:49 | 1 |
| Diethyl phthalate | <200 | | 200 | 67 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:49 | 1 |
| Dimethyl phthalate | <200 | | 200 | 52 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:49 | 1 |
| Di-n-butyl phthalate | <200 | | 200 | 61 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:49 | 1 |
| Di-n-octyl phthalate | <200 | | 200 | 65 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:49 | 1 |
| Fluoranthene | 68 | | 39 | 7.4 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:49 | 1 |
| Fluorene | <39 | | 39 | 5.6 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:49 | 1 |
| Hexachlorobenzene | <80 | | 80 | 9.2 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:49 | 1 |
| Hexachlorobutadiene | <200 | | 200 | 62 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:49 | 1 |
| Hexachlorocyclopentadiene | <800 | | 800 | 230 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:49 | 1 |
| Hexachloroethane | <200 | | 200 | 60 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:49 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Client Sample ID: PM-1(4-7.7)-032916

Lab Sample ID: 500-109413-17

Date Collected: 03/29/16 12:20

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 82.4

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| Indeno[1,2,3-cd]pyrene | 18 | J | 39 | 10 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:49 | 1 |
| Isophorone | <200 | | 200 | 45 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:49 | 1 |
| Naphthalene | <39 | | 39 | 6.1 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:49 | 1 |
| Nitrobenzene | <39 | | 39 | 9.9 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:49 | 1 |
| N-Nitrosodi-n-propylamine | <80 | | 80 | 49 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:49 | 1 |
| N-Nitrosodiphenylamine | <200 | | 200 | 47 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:49 | 1 |
| Pentachlorophenol | <800 | | 800 | 640 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:49 | 1 |
| Phenanthrene | 37 | J | 39 | 5.5 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:49 | 1 |
| Phenol | <200 | | 200 | 88 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:49 | 1 |
| Pyrene | 95 | | 39 | 7.9 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 23:49 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| <i>2,4,6-Tribromophenol</i> | 40 | | 25 - 130 | | | | 03/30/16 08:24 | 04/06/16 23:49 | 1 |
| <i>2-Fluorobiphenyl</i> | 76 | | 42 - 115 | | | | 03/30/16 08:24 | 04/06/16 23:49 | 1 |
| <i>2-Fluorophenol</i> | 81 | | 40 - 130 | | | | 03/30/16 08:24 | 04/06/16 23:49 | 1 |
| <i>Nitrobenzene-d5</i> | 71 | | 33 - 124 | | | | 03/30/16 08:24 | 04/06/16 23:49 | 1 |
| <i>Phenol-d5</i> | 69 | | 36 - 123 | | | | 03/30/16 08:24 | 04/06/16 23:49 | 1 |
| <i>Terphenyl-d14</i> | 126 | | 25 - 150 | | | | 03/30/16 08:24 | 04/06/16 23:49 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|-------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.050 | | 0.050 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:34 | 1 |
| Barium | 0.19 | J | 0.50 | 0.050 | mg/L | | 04/01/16 14:34 | 04/02/16 18:34 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 04/01/16 14:34 | 04/02/16 18:34 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/01/16 14:34 | 04/02/16 18:34 | 1 |
| Chromium | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:34 | 1 |
| Cobalt | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:34 | 1 |
| Copper | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:34 | 1 |
| Iron | <0.40 | | 0.40 | 0.20 | mg/L | | 04/01/16 14:34 | 04/02/16 18:34 | 1 |
| Lead | <0.0075 | | 0.0075 | 0.0075 | mg/L | | 04/01/16 14:34 | 04/02/16 18:34 | 1 |
| Manganese | 0.75 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:34 | 1 |
| Nickel | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:34 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/01/16 14:34 | 04/02/16 18:34 | 1 |
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:34 | 1 |
| Zinc | <0.50 | | 0.50 | 0.020 | mg/L | | 04/01/16 14:34 | 04/02/16 18:34 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.050 | | 0.050 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:55 | 1 |
| Barium | 0.10 | J | 0.50 | 0.050 | mg/L | | 04/01/16 14:17 | 04/02/16 20:55 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 04/01/16 14:17 | 04/02/16 20:55 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/01/16 14:17 | 04/02/16 20:55 | 1 |
| Chromium | 0.041 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:55 | 1 |
| Cobalt | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:55 | 1 |
| Copper | 0.030 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:55 | 1 |
| Iron | 43 | | 0.40 | 0.20 | mg/L | | 04/05/16 07:39 | 04/05/16 15:26 | 1 |
| Lead | 0.019 | | 0.0075 | 0.0075 | mg/L | | 04/01/16 14:17 | 04/02/16 20:55 | 1 |
| Manganese | 0.13 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:55 | 1 |
| Nickel | 0.032 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:55 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/01/16 14:17 | 04/02/16 20:55 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Client Sample ID: PM-1(4-7.7)-032916

Lab Sample ID: 500-109413-17

Date Collected: 03/29/16 12:20

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 82.4

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|--------------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:55 | 1 |
| Zinc | 0.082 | J | 0.50 | 0.020 | mg/L | | 04/01/16 14:17 | 04/02/16 20:55 | 1 |

Method: 6010B - Total Metals

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | <1.2 | | 1.2 | 0.24 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:43 | 1 |
| Arsenic | 7.3 | | 0.58 | 0.27 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:43 | 1 |
| Barium | 28 | B | 0.58 | 0.11 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:43 | 1 |
| Beryllium | 0.69 | | 0.23 | 0.050 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:43 | 1 |
| Cadmium | <0.12 | | 0.12 | 0.033 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:43 | 1 |
| Calcium | 61000 | B | 120 | 37 | mg/Kg | ☼ | 03/31/16 09:19 | 04/02/16 22:19 | 10 |
| Chromium | 17 | | 0.58 | 0.099 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:43 | 1 |
| Cobalt | 10 | | 0.29 | 0.065 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:43 | 1 |
| Copper | 25 | | 0.58 | 0.13 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:43 | 1 |
| Iron | 21000 | | 12 | 4.5 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:43 | 1 |
| Lead | 19 | | 0.29 | 0.14 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:43 | 1 |
| Magnesium | 19000 | B | 5.8 | 2.3 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:43 | 1 |
| Manganese | 230 | | 0.58 | 0.11 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:43 | 1 |
| Nickel | 34 | | 0.58 | 0.16 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:43 | 1 |
| Potassium | 2600 | | 29 | 4.7 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:43 | 1 |
| Selenium | <0.58 | | 0.58 | 0.29 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:43 | 1 |
| Silver | <0.29 | | 0.29 | 0.068 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:43 | 1 |
| Sodium | 270 | | 58 | 7.6 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:43 | 1 |
| Thallium | <0.58 | | 0.58 | 0.28 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:43 | 1 |
| Vanadium | 20 | | 0.29 | 0.084 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:43 | 1 |
| Zinc | 76 | | 1.2 | 0.37 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:43 | 1 |

Method: 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/01/16 15:45 | 04/04/16 13:54 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/01/16 15:45 | 04/04/16 12:58 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Mercury | 23 | | 19 | 9.9 | ug/Kg | ☼ | 03/30/16 16:15 | 03/31/16 10:40 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-------------|-----------|-------|-------|------|---|----------|----------------|---------|
| pH | 8.13 | | 0.200 | 0.200 | SU | | | 03/31/16 11:49 | 1 |

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Client Sample ID: PM-2(0-4)-032916

Lab Sample ID: 500-109413-18

Date Collected: 03/29/16 12:35

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 77.5

Method: 8260B - VOC

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Acetone | <26 | | 26 | 5.0 | ug/Kg | ☼ | | 04/04/16 13:43 | 1 |
| Benzene | <6.5 | | 6.5 | 1.4 | ug/Kg | ☼ | | 04/04/16 13:43 | 1 |
| Bromodichloromethane | <6.5 | | 6.5 | 1.1 | ug/Kg | ☼ | | 04/04/16 13:43 | 1 |
| Bromoform | <6.5 | | 6.5 | 1.3 | ug/Kg | ☼ | | 04/04/16 13:43 | 1 |
| Bromomethane | <6.5 | | 6.5 | 2.4 | ug/Kg | ☼ | | 04/04/16 13:43 | 1 |
| Carbon disulfide | <6.5 | | 6.5 | 2.4 | ug/Kg | ☼ | | 04/04/16 13:43 | 1 |
| Carbon tetrachloride | <6.5 | | 6.5 | 1.4 | ug/Kg | ☼ | | 04/04/16 13:43 | 1 |
| Chlorobenzene | <6.5 | | 6.5 | 1.5 | ug/Kg | ☼ | | 04/04/16 13:43 | 1 |
| Chloroethane | <6.5 | | 6.5 | 2.7 | ug/Kg | ☼ | | 04/04/16 13:43 | 1 |
| Chloroform | <6.5 | | 6.5 | 1.3 | ug/Kg | ☼ | | 04/04/16 13:43 | 1 |
| Chloromethane | <6.5 | | 6.5 | 1.5 | ug/Kg | ☼ | | 04/04/16 13:43 | 1 |
| cis-1,2-Dichloroethene | <6.5 | | 6.5 | 1.3 | ug/Kg | ☼ | | 04/04/16 13:43 | 1 |
| cis-1,3-Dichloropropene | <6.5 | | 6.5 | 1.5 | ug/Kg | ☼ | | 04/04/16 13:43 | 1 |
| Dibromochloromethane | <6.5 | | 6.5 | 0.74 | ug/Kg | ☼ | | 04/04/16 13:43 | 1 |
| 1,1-Dichloroethane | <6.5 | | 6.5 | 1.3 | ug/Kg | ☼ | | 04/04/16 13:43 | 1 |
| 1,2-Dichloroethane | <6.5 | | 6.5 | 0.96 | ug/Kg | ☼ | | 04/04/16 13:43 | 1 |
| 1,1-Dichloroethene | <6.5 | | 6.5 | 2.3 | ug/Kg | ☼ | | 04/04/16 13:43 | 1 |
| 1,2-Dichloropropane | <6.5 | | 6.5 | 1.7 | ug/Kg | ☼ | | 04/04/16 13:43 | 1 |
| 1,3-Dichloropropene, Total | <6.5 | | 6.5 | 1.8 | ug/Kg | ☼ | | 04/04/16 13:43 | 1 |
| Ethylbenzene | <6.5 | | 6.5 | 1.6 | ug/Kg | ☼ | | 04/04/16 13:43 | 1 |
| 2-Hexanone | <6.5 | | 6.5 | 2.0 | ug/Kg | ☼ | | 04/04/16 13:43 | 1 |
| Methylene Chloride | <6.5 | | 6.5 | 4.9 | ug/Kg | ☼ | | 04/04/16 13:43 | 1 |
| Methyl Ethyl Ketone | <6.5 | | 6.5 | 2.3 | ug/Kg | ☼ | | 04/04/16 13:43 | 1 |
| methyl isobutyl ketone | <6.5 | | 6.5 | 1.3 | ug/Kg | ☼ | | 04/04/16 13:43 | 1 |
| Methyl tert-butyl ether | <6.5 | | 6.5 | 1.5 | ug/Kg | ☼ | | 04/04/16 13:43 | 1 |
| Styrene | <6.5 | | 6.5 | 1.5 | ug/Kg | ☼ | | 04/04/16 13:43 | 1 |
| 1,1,2,2-Tetrachloroethane | <6.5 | | 6.5 | 1.0 | ug/Kg | ☼ | | 04/04/16 13:43 | 1 |
| Tetrachloroethene | <6.5 | | 6.5 | 1.3 | ug/Kg | ☼ | | 04/04/16 13:43 | 1 |
| Toluene | <6.5 | | 6.5 | 2.2 | ug/Kg | ☼ | | 04/04/16 13:43 | 1 |
| trans-1,2-Dichloroethene | <6.5 | | 6.5 | 1.6 | ug/Kg | ☼ | | 04/04/16 13:43 | 1 |
| trans-1,3-Dichloropropene | <6.5 | | 6.5 | 1.8 | ug/Kg | ☼ | | 04/04/16 13:43 | 1 |
| 1,1,1-Trichloroethane | <6.5 | | 6.5 | 1.5 | ug/Kg | ☼ | | 04/04/16 13:43 | 1 |
| 1,1,2-Trichloroethane | <6.5 | | 6.5 | 1.2 | ug/Kg | ☼ | | 04/04/16 13:43 | 1 |
| Trichloroethene | <6.5 | | 6.5 | 1.7 | ug/Kg | ☼ | | 04/04/16 13:43 | 1 |
| Vinyl chloride | <6.5 | | 6.5 | 1.5 | ug/Kg | ☼ | | 04/04/16 13:43 | 1 |
| Xylenes, Total | <13 | | 13 | 2.4 | ug/Kg | ☼ | | 04/04/16 13:43 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 106 | | 70 - 120 | | 04/04/16 13:43 | 1 |
| Dibromofluoromethane | 108 | | 75 - 120 | | 04/04/16 13:43 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 109 | | 69 - 134 | | 04/04/16 13:43 | 1 |
| Toluene-d8 (Surr) | 113 | | 75 - 123 | | 04/04/16 13:43 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,2,4-Trichlorobenzene | <210 | | 210 | 45 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:18 | 1 |
| 1,2-Dichlorobenzene | <210 | | 210 | 50 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:18 | 1 |
| 1,3-Dichlorobenzene | <210 | | 210 | 47 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:18 | 1 |
| 1,4-Dichlorobenzene | <210 | | 210 | 54 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:18 | 1 |
| 2,2'-oxybis[1-chloropropane] | <210 | | 210 | 49 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:18 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Client Sample ID: PM-2(0-4)-032916

Lab Sample ID: 500-109413-18

Date Collected: 03/29/16 12:35

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 77.5

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|------------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol | <420 | | 420 | 96 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:18 | 1 |
| 2,4,6-Trichlorophenol | <420 | | 420 | 140 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:18 | 1 |
| 2,4-Dichlorophenol | <420 | | 420 | 100 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:18 | 1 |
| 2,4-Dimethylphenol | <420 | | 420 | 160 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:18 | 1 |
| 2,4-Dinitrophenol | <850 | | 850 | 740 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:18 | 1 |
| 2,4-Dinitrotoluene | <210 | | 210 | 67 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:18 | 1 |
| 2,6-Dinitrotoluene | <210 | | 210 | 82 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:18 | 1 |
| 2-Chloronaphthalene | <210 | | 210 | 46 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:18 | 1 |
| 2-Chlorophenol | <210 | | 210 | 72 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:18 | 1 |
| 2-Methylnaphthalene | <42 | | 42 | 7.7 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:18 | 1 |
| 2-Methylphenol | <210 | | 210 | 67 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:18 | 1 |
| 2-Nitroaniline | <210 | | 210 | 56 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:18 | 1 |
| 2-Nitrophenol | <420 | | 420 | 99 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:18 | 1 |
| 3 & 4 Methylphenol | <210 | | 210 | 70 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:18 | 1 |
| 3,3'-Dichlorobenzidine | <210 | | 210 | 59 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:18 | 1 |
| 3-Nitroaniline | <420 | | 420 | 130 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:18 | 1 |
| 4,6-Dinitro-2-methylphenol | <850 | | 850 | 340 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:18 | 1 |
| 4-Bromophenyl phenyl ether | <210 | | 210 | 55 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:18 | 1 |
| 4-Chloro-3-methylphenol | <420 | | 420 | 140 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:18 | 1 |
| 4-Chloroaniline | <850 | | 850 | 200 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:18 | 1 |
| 4-Chlorophenyl phenyl ether | <210 | | 210 | 49 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:18 | 1 |
| 4-Nitroaniline | <420 | | 420 | 180 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:18 | 1 |
| 4-Nitrophenol | <850 | | 850 | 400 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:18 | 1 |
| Acenaphthene | <42 | | 42 | 7.5 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:18 | 1 |
| Acenaphthylene | <42 | | 42 | 5.5 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:18 | 1 |
| Anthracene | 15 | J | 42 | 7.0 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:18 | 1 |
| Benzo[a]anthracene | 130 | | 42 | 5.6 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:18 | 1 |
| Benzo[a]pyrene | 160 | | 42 | 8.1 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:18 | 1 |
| Benzo[b]fluoranthene | 310 | | 42 | 9.1 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:18 | 1 |
| Benzo[g,h,i]perylene | 70 | | 42 | 14 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:18 | 1 |
| Benzo[k]fluoranthene | 130 | | 42 | 12 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:18 | 1 |
| Bis(2-chloroethoxy)methane | <210 | | 210 | 43 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:18 | 1 |
| Bis(2-chloroethyl)ether | <210 | | 210 | 63 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:18 | 1 |
| Bis(2-ethylhexyl) phthalate | <210 | | 210 | 77 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:18 | 1 |
| Butyl benzyl phthalate | <210 | | 210 | 80 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:18 | 1 |
| Carbazole | <210 | | 210 | 100 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:18 | 1 |
| Chrysene | 180 | | 42 | 11 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:18 | 1 |
| Dibenz(a,h)anthracene | <42 | | 42 | 8.1 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:18 | 1 |
| Dibenzofuran | <210 | | 210 | 49 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:18 | 1 |
| Diethyl phthalate | <210 | | 210 | 71 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:18 | 1 |
| Dimethyl phthalate | <210 | | 210 | 55 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:18 | 1 |
| Di-n-butyl phthalate | <210 | | 210 | 64 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:18 | 1 |
| Di-n-octyl phthalate | <210 | | 210 | 68 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:18 | 1 |
| Fluoranthene | 300 | | 42 | 7.8 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:18 | 1 |
| Fluorene | <42 | | 42 | 5.9 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:18 | 1 |
| Hexachlorobenzene | <85 | | 85 | 9.7 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:18 | 1 |
| Hexachlorobutadiene | <210 | | 210 | 66 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:18 | 1 |
| Hexachlorocyclopentadiene | <850 | | 850 | 240 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:18 | 1 |
| Hexachloroethane | <210 | | 210 | 64 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:18 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Client Sample ID: PM-2(0-4)-032916

Lab Sample ID: 500-109413-18

Date Collected: 03/29/16 12:35

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 77.5

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| Indeno[1,2,3-cd]pyrene | 73 | | 42 | 11 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:18 | 1 |
| Isophorone | <210 | | 210 | 47 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:18 | 1 |
| Naphthalene | <42 | | 42 | 6.5 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:18 | 1 |
| Nitrobenzene | <42 | | 42 | 10 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:18 | 1 |
| N-Nitrosodi-n-propylamine | <85 | | 85 | 51 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:18 | 1 |
| N-Nitrosodiphenylamine | <210 | | 210 | 49 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:18 | 1 |
| Pentachlorophenol | <850 | | 850 | 670 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:18 | 1 |
| Phenanthrene | 120 | | 42 | 5.8 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:18 | 1 |
| Phenol | <210 | | 210 | 93 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:18 | 1 |
| Pyrene | 330 | | 42 | 8.3 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:18 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| <i>2,4,6-Tribromophenol</i> | 33 | | 25 - 130 | | | | 03/30/16 08:24 | 04/07/16 00:18 | 1 |
| <i>2-Fluorobiphenyl</i> | 81 | | 42 - 115 | | | | 03/30/16 08:24 | 04/07/16 00:18 | 1 |
| <i>2-Fluorophenol</i> | 82 | | 40 - 130 | | | | 03/30/16 08:24 | 04/07/16 00:18 | 1 |
| <i>Nitrobenzene-d5</i> | 72 | | 33 - 124 | | | | 03/30/16 08:24 | 04/07/16 00:18 | 1 |
| <i>Phenol-d5</i> | 77 | | 36 - 123 | | | | 03/30/16 08:24 | 04/07/16 00:18 | 1 |
| <i>Terphenyl-d14</i> | 131 | | 25 - 150 | | | | 03/30/16 08:24 | 04/07/16 00:18 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.050 | | 0.050 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:39 | 1 |
| Barium | 0.20 | J | 0.50 | 0.050 | mg/L | | 04/01/16 14:34 | 04/02/16 18:39 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 04/01/16 14:34 | 04/02/16 18:39 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/01/16 14:34 | 04/02/16 18:39 | 1 |
| Chromium | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:39 | 1 |
| Cobalt | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:39 | 1 |
| Copper | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:39 | 1 |
| Iron | <0.40 | | 0.40 | 0.20 | mg/L | | 04/01/16 14:34 | 04/02/16 18:39 | 1 |
| Lead | <0.0075 | | 0.0075 | 0.0075 | mg/L | | 04/01/16 14:34 | 04/02/16 18:39 | 1 |
| Manganese | 0.28 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:39 | 1 |
| Nickel | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:39 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/01/16 14:34 | 04/02/16 18:39 | 1 |
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:39 | 1 |
| Zinc | 0.082 | J | 0.50 | 0.020 | mg/L | | 04/01/16 14:34 | 04/02/16 18:39 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.11 | | 0.050 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:59 | 1 |
| Barium | 0.66 | | 0.50 | 0.050 | mg/L | | 04/01/16 14:17 | 04/02/16 20:59 | 1 |
| Beryllium | 0.011 | | 0.0040 | 0.0040 | mg/L | | 04/01/16 14:17 | 04/02/16 20:59 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/01/16 14:17 | 04/02/16 20:59 | 1 |
| Chromium | 0.28 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:59 | 1 |
| Cobalt | 0.12 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:59 | 1 |
| Copper | 0.30 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:59 | 1 |
| Iron | 300 | | 0.40 | 0.20 | mg/L | | 04/05/16 07:39 | 04/05/16 15:30 | 1 |
| Lead | 0.24 | | 0.0075 | 0.0075 | mg/L | | 04/01/16 14:17 | 04/02/16 20:59 | 1 |
| Manganese | 1.2 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:59 | 1 |
| Nickel | 0.30 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:59 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/01/16 14:17 | 04/02/16 20:59 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Client Sample ID: PM-2(0-4)-032916

Lab Sample ID: 500-109413-18

Date Collected: 03/29/16 12:35

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 77.5

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|------------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:59 | 1 |
| Zinc | 1.1 | | 0.50 | 0.020 | mg/L | | 04/01/16 14:17 | 04/02/16 20:59 | 1 |

Method: 6010B - Total Metals

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | <1.2 | | 1.2 | 0.24 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:48 | 1 |
| Arsenic | 5.5 | | 0.58 | 0.27 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:48 | 1 |
| Barium | 73 | B | 0.58 | 0.11 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:48 | 1 |
| Beryllium | 0.86 | | 0.23 | 0.050 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:48 | 1 |
| Cadmium | 0.45 | | 0.12 | 0.034 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:48 | 1 |
| Calcium | 27000 | B | 12 | 3.7 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:48 | 1 |
| Chromium | 19 | | 0.58 | 0.10 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:48 | 1 |
| Cobalt | 12 | | 0.29 | 0.066 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:48 | 1 |
| Copper | 33 | | 0.58 | 0.13 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:48 | 1 |
| Iron | 18000 | | 12 | 4.5 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:48 | 1 |
| Lead | 59 | | 0.29 | 0.14 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:48 | 1 |
| Magnesium | 19000 | B | 5.8 | 2.4 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:48 | 1 |
| Manganese | 220 | | 0.58 | 0.11 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:48 | 1 |
| Nickel | 31 | | 0.58 | 0.16 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:48 | 1 |
| Potassium | 2200 | | 29 | 4.7 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:48 | 1 |
| Selenium | <0.58 | | 0.58 | 0.29 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:48 | 1 |
| Silver | <0.29 | | 0.29 | 0.068 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:48 | 1 |
| Sodium | 950 | | 58 | 7.7 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:48 | 1 |
| Thallium | <0.58 | | 0.58 | 0.29 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:48 | 1 |
| Vanadium | 26 | | 0.29 | 0.085 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:48 | 1 |
| Zinc | 130 | | 1.2 | 0.37 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:48 | 1 |

Method: 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/01/16 15:45 | 04/04/16 13:56 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/01/16 15:45 | 04/04/16 13:00 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Mercury | 37 | | 20 | 11 | ug/Kg | ☼ | 03/30/16 16:15 | 03/31/16 10:42 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-------------|-----------|-------|-------|------|---|----------|----------------|---------|
| pH | 8.32 | | 0.200 | 0.200 | SU | | | 03/31/16 11:53 | 1 |

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Client Sample ID: PM-3(0-4)-032916

Lab Sample ID: 500-109413-19

Date Collected: 03/29/16 12:45

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 79.4

Method: 8260B - VOC

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Acetone | <25 | | 25 | 4.9 | ug/Kg | ☼ | | 04/04/16 14:07 | 1 |
| Benzene | <6.3 | | 6.3 | 1.4 | ug/Kg | ☼ | | 04/04/16 14:07 | 1 |
| Bromodichloromethane | <6.3 | | 6.3 | 1.1 | ug/Kg | ☼ | | 04/04/16 14:07 | 1 |
| Bromoform | <6.3 | | 6.3 | 1.3 | ug/Kg | ☼ | | 04/04/16 14:07 | 1 |
| Bromomethane | <6.3 | | 6.3 | 2.3 | ug/Kg | ☼ | | 04/04/16 14:07 | 1 |
| Carbon disulfide | <6.3 | | 6.3 | 2.3 | ug/Kg | ☼ | | 04/04/16 14:07 | 1 |
| Carbon tetrachloride | <6.3 | | 6.3 | 1.3 | ug/Kg | ☼ | | 04/04/16 14:07 | 1 |
| Chlorobenzene | <6.3 | | 6.3 | 1.5 | ug/Kg | ☼ | | 04/04/16 14:07 | 1 |
| Chloroethane | <6.3 | | 6.3 | 2.6 | ug/Kg | ☼ | | 04/04/16 14:07 | 1 |
| Chloroform | <6.3 | | 6.3 | 1.2 | ug/Kg | ☼ | | 04/04/16 14:07 | 1 |
| Chloromethane | <6.3 | | 6.3 | 1.5 | ug/Kg | ☼ | | 04/04/16 14:07 | 1 |
| cis-1,2-Dichloroethene | <6.3 | | 6.3 | 1.3 | ug/Kg | ☼ | | 04/04/16 14:07 | 1 |
| cis-1,3-Dichloropropene | <6.3 | | 6.3 | 1.4 | ug/Kg | ☼ | | 04/04/16 14:07 | 1 |
| Dibromochloromethane | <6.3 | | 6.3 | 0.72 | ug/Kg | ☼ | | 04/04/16 14:07 | 1 |
| 1,1-Dichloroethane | <6.3 | | 6.3 | 1.3 | ug/Kg | ☼ | | 04/04/16 14:07 | 1 |
| 1,2-Dichloroethane | <6.3 | | 6.3 | 0.93 | ug/Kg | ☼ | | 04/04/16 14:07 | 1 |
| 1,1-Dichloroethene | <6.3 | | 6.3 | 2.3 | ug/Kg | ☼ | | 04/04/16 14:07 | 1 |
| 1,2-Dichloropropane | <6.3 | | 6.3 | 1.6 | ug/Kg | ☼ | | 04/04/16 14:07 | 1 |
| 1,3-Dichloropropene, Total | <6.3 | | 6.3 | 1.8 | ug/Kg | ☼ | | 04/04/16 14:07 | 1 |
| Ethylbenzene | <6.3 | | 6.3 | 1.6 | ug/Kg | ☼ | | 04/04/16 14:07 | 1 |
| 2-Hexanone | <6.3 | | 6.3 | 2.0 | ug/Kg | ☼ | | 04/04/16 14:07 | 1 |
| Methylene Chloride | <6.3 | | 6.3 | 4.8 | ug/Kg | ☼ | | 04/04/16 14:07 | 1 |
| Methyl Ethyl Ketone | <6.3 | | 6.3 | 2.2 | ug/Kg | ☼ | | 04/04/16 14:07 | 1 |
| methyl isobutyl ketone | <6.3 | | 6.3 | 1.3 | ug/Kg | ☼ | | 04/04/16 14:07 | 1 |
| Methyl tert-butyl ether | <6.3 | | 6.3 | 1.5 | ug/Kg | ☼ | | 04/04/16 14:07 | 1 |
| Styrene | <6.3 | | 6.3 | 1.5 | ug/Kg | ☼ | | 04/04/16 14:07 | 1 |
| 1,1,2,2-Tetrachloroethane | <6.3 | | 6.3 | 1.0 | ug/Kg | ☼ | | 04/04/16 14:07 | 1 |
| Tetrachloroethene | <6.3 | | 6.3 | 1.3 | ug/Kg | ☼ | | 04/04/16 14:07 | 1 |
| Toluene | <6.3 | | 6.3 | 2.2 | ug/Kg | ☼ | | 04/04/16 14:07 | 1 |
| trans-1,2-Dichloroethene | <6.3 | | 6.3 | 1.6 | ug/Kg | ☼ | | 04/04/16 14:07 | 1 |
| trans-1,3-Dichloropropene | <6.3 | | 6.3 | 1.8 | ug/Kg | ☼ | | 04/04/16 14:07 | 1 |
| 1,1,1-Trichloroethane | <6.3 | | 6.3 | 1.5 | ug/Kg | ☼ | | 04/04/16 14:07 | 1 |
| 1,1,2-Trichloroethane | <6.3 | | 6.3 | 1.2 | ug/Kg | ☼ | | 04/04/16 14:07 | 1 |
| Trichloroethene | <6.3 | | 6.3 | 1.7 | ug/Kg | ☼ | | 04/04/16 14:07 | 1 |
| Vinyl chloride | <6.3 | | 6.3 | 1.5 | ug/Kg | ☼ | | 04/04/16 14:07 | 1 |
| Xylenes, Total | <13 | | 13 | 2.3 | ug/Kg | ☼ | | 04/04/16 14:07 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 106 | | 70 - 120 | | 04/04/16 14:07 | 1 |
| Dibromofluoromethane | 111 | | 75 - 120 | | 04/04/16 14:07 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 110 | | 69 - 134 | | 04/04/16 14:07 | 1 |
| Toluene-d8 (Surr) | 113 | | 75 - 123 | | 04/04/16 14:07 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,2,4-Trichlorobenzene | <200 | | 200 | 44 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:48 | 1 |
| 1,2-Dichlorobenzene | <200 | | 200 | 48 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:48 | 1 |
| 1,3-Dichlorobenzene | <200 | | 200 | 46 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:48 | 1 |
| 1,4-Dichlorobenzene | <200 | | 200 | 52 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:48 | 1 |
| 2,2'-oxybis[1-chloropropane] | <200 | | 200 | 47 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:48 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Client Sample ID: PM-3(0-4)-032916

Lab Sample ID: 500-109413-19

Date Collected: 03/29/16 12:45

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 79.4

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-------------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol | <400 | | 400 | 92 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:48 | 1 |
| 2,4,6-Trichlorophenol | <400 | | 400 | 140 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:48 | 1 |
| 2,4-Dichlorophenol | <400 | | 400 | 96 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:48 | 1 |
| 2,4-Dimethylphenol | <400 | | 400 | 150 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:48 | 1 |
| 2,4-Dinitrophenol | <820 | | 820 | 710 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:48 | 1 |
| 2,4-Dinitrotoluene | <200 | | 200 | 64 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:48 | 1 |
| 2,6-Dinitrotoluene | <200 | | 200 | 80 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:48 | 1 |
| 2-Chloronaphthalene | <200 | | 200 | 45 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:48 | 1 |
| 2-Chlorophenol | <200 | | 200 | 69 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:48 | 1 |
| 2-Methylnaphthalene | <40 | | 40 | 7.4 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:48 | 1 |
| 2-Methylphenol | <200 | | 200 | 65 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:48 | 1 |
| 2-Nitroaniline | <200 | | 200 | 54 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:48 | 1 |
| 2-Nitrophenol | <400 | | 400 | 96 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:48 | 1 |
| 3 & 4 Methylphenol | <200 | | 200 | 67 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:48 | 1 |
| 3,3'-Dichlorobenzidine | <200 | | 200 | 57 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:48 | 1 |
| 3-Nitroaniline | <400 | | 400 | 130 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:48 | 1 |
| 4,6-Dinitro-2-methylphenol | <820 | | 820 | 330 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:48 | 1 |
| 4-Bromophenyl phenyl ether | <200 | | 200 | 53 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:48 | 1 |
| 4-Chloro-3-methylphenol | <400 | | 400 | 140 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:48 | 1 |
| 4-Chloroaniline | <820 | | 820 | 190 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:48 | 1 |
| 4-Chlorophenyl phenyl ether | <200 | | 200 | 47 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:48 | 1 |
| 4-Nitroaniline | <400 | | 400 | 170 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:48 | 1 |
| 4-Nitrophenol | <820 | | 820 | 380 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:48 | 1 |
| Acenaphthene | <40 | | 40 | 7.3 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:48 | 1 |
| Acenaphthylene | <40 | | 40 | 5.3 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:48 | 1 |
| Anthracene | <40 | | 40 | 6.8 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:48 | 1 |
| Benzo[a]anthracene | 55 | | 40 | 5.4 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:48 | 1 |
| Benzo[a]pyrene | 67 | | 40 | 7.8 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:48 | 1 |
| Benzo[b]fluoranthene | 150 | | 40 | 8.7 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:48 | 1 |
| Benzo[g,h,i]perylene | 41 | | 40 | 13 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:48 | 1 |
| Benzo[k]fluoranthene | 51 | | 40 | 12 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:48 | 1 |
| Bis(2-chloroethoxy)methane | <200 | | 200 | 41 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:48 | 1 |
| Bis(2-chloroethyl)ether | <200 | | 200 | 61 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:48 | 1 |
| Bis(2-ethylhexyl) phthalate | <200 | | 200 | 74 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:48 | 1 |
| Butyl benzyl phthalate | <200 | | 200 | 77 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:48 | 1 |
| Carbazole | <200 | | 200 | 100 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:48 | 1 |
| Chrysene | 69 | | 40 | 11 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:48 | 1 |
| Dibenz(a,h)anthracene | 12 J | | 40 | 7.8 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:48 | 1 |
| Dibenzofuran | <200 | | 200 | 47 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:48 | 1 |
| Diethyl phthalate | <200 | | 200 | 69 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:48 | 1 |
| Dimethyl phthalate | <200 | | 200 | 53 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:48 | 1 |
| Di-n-butyl phthalate | <200 | | 200 | 62 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:48 | 1 |
| Di-n-octyl phthalate | <200 | | 200 | 66 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:48 | 1 |
| Fluoranthene | 140 | | 40 | 7.5 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:48 | 1 |
| Fluorene | <40 | | 40 | 5.7 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:48 | 1 |
| Hexachlorobenzene | <82 | | 82 | 9.4 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:48 | 1 |
| Hexachlorobutadiene | <200 | | 200 | 64 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:48 | 1 |
| Hexachlorocyclopentadiene | <820 | | 820 | 230 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:48 | 1 |
| Hexachloroethane | <200 | | 200 | 62 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:48 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Client Sample ID: PM-3(0-4)-032916

Lab Sample ID: 500-109413-19

Date Collected: 03/29/16 12:45

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 79.4

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| Indeno[1,2,3-cd]pyrene | 46 | | 40 | 10 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:48 | 1 |
| Isophorone | <200 | | 200 | 45 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:48 | 1 |
| Naphthalene | <40 | | 40 | 6.2 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:48 | 1 |
| Nitrobenzene | <40 | | 40 | 10 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:48 | 1 |
| N-Nitrosodi-n-propylamine | <82 | | 82 | 49 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:48 | 1 |
| N-Nitrosodiphenylamine | <200 | | 200 | 48 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:48 | 1 |
| Pentachlorophenol | <820 | | 820 | 650 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:48 | 1 |
| Phenanthrene | 48 | | 40 | 5.6 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:48 | 1 |
| Phenol | <200 | | 200 | 90 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:48 | 1 |
| Pyrene | 160 | | 40 | 8.0 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 00:48 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| <i>2,4,6-Tribromophenol</i> | 34 | | 25 - 130 | | | | 03/30/16 08:24 | 04/07/16 00:48 | 1 |
| <i>2-Fluorobiphenyl</i> | 88 | | 42 - 115 | | | | 03/30/16 08:24 | 04/07/16 00:48 | 1 |
| <i>2-Fluorophenol</i> | 84 | | 40 - 130 | | | | 03/30/16 08:24 | 04/07/16 00:48 | 1 |
| <i>Nitrobenzene-d5</i> | 76 | | 33 - 124 | | | | 03/30/16 08:24 | 04/07/16 00:48 | 1 |
| <i>Phenol-d5</i> | 80 | | 36 - 123 | | | | 03/30/16 08:24 | 04/07/16 00:48 | 1 |
| <i>Terphenyl-d14</i> | 127 | | 25 - 150 | | | | 03/30/16 08:24 | 04/07/16 00:48 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.050 | | 0.050 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:53 | 1 |
| Barium | 0.20 | J | 0.50 | 0.050 | mg/L | | 04/01/16 14:34 | 04/02/16 18:53 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 04/01/16 14:34 | 04/02/16 18:53 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/01/16 14:34 | 04/02/16 18:53 | 1 |
| Chromium | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:53 | 1 |
| Cobalt | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:53 | 1 |
| Copper | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:53 | 1 |
| Iron | <0.40 | | 0.40 | 0.20 | mg/L | | 04/01/16 14:34 | 04/02/16 18:53 | 1 |
| Lead | <0.0075 | | 0.0075 | 0.0075 | mg/L | | 04/01/16 14:34 | 04/02/16 18:53 | 1 |
| Manganese | 0.66 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:53 | 1 |
| Nickel | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:53 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/01/16 14:34 | 04/02/16 18:53 | 1 |
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:53 | 1 |
| Zinc | 0.037 | J | 0.50 | 0.020 | mg/L | | 04/01/16 14:34 | 04/02/16 18:53 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|---------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.11 | | 0.050 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 21:04 | 1 |
| Barium | 0.52 | | 0.50 | 0.050 | mg/L | | 04/01/16 14:17 | 04/02/16 21:04 | 1 |
| Beryllium | 0.0099 | | 0.0040 | 0.0040 | mg/L | | 04/01/16 14:17 | 04/02/16 21:04 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/01/16 14:17 | 04/02/16 21:04 | 1 |
| Chromium | 0.28 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 21:04 | 1 |
| Cobalt | 0.096 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 21:04 | 1 |
| Copper | 0.23 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 21:04 | 1 |
| Iron | 400 | | 2.0 | 1.0 | mg/L | | 04/05/16 07:39 | 04/05/16 15:35 | 5 |
| Lead | 0.18 | | 0.0075 | 0.0075 | mg/L | | 04/01/16 14:17 | 04/02/16 21:04 | 1 |
| Manganese | 1.1 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 21:04 | 1 |
| Nickel | 0.32 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 21:04 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/01/16 14:17 | 04/02/16 21:04 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Client Sample ID: PM-3(0-4)-032916

Lab Sample ID: 500-109413-19

Date Collected: 03/29/16 12:45

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 79.4

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|-------------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 21:04 | 1 |
| Zinc | 0.75 | | 0.50 | 0.020 | mg/L | | 04/01/16 14:17 | 04/02/16 21:04 | 1 |

Method: 6010B - Total Metals

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | <1.2 | | 1.2 | 0.26 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:53 | 1 |
| Arsenic | 7.3 | | 0.62 | 0.29 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:53 | 1 |
| Barium | 74 | B | 0.62 | 0.11 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:53 | 1 |
| Beryllium | 0.81 | | 0.25 | 0.054 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:53 | 1 |
| Cadmium | 0.44 | | 0.12 | 0.036 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:53 | 1 |
| Calcium | 82000 | B | 120 | 40 | mg/Kg | ☼ | 03/31/16 09:19 | 04/02/16 22:23 | 10 |
| Chromium | 25 | | 0.62 | 0.11 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:53 | 1 |
| Cobalt | 13 | | 0.31 | 0.070 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:53 | 1 |
| Copper | 54 | | 0.62 | 0.13 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:53 | 1 |
| Iron | 21000 | | 12 | 4.8 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:53 | 1 |
| Lead | 130 | | 0.31 | 0.15 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:53 | 1 |
| Magnesium | 30000 | B | 6.2 | 2.5 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:53 | 1 |
| Manganese | 400 | | 0.62 | 0.12 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:53 | 1 |
| Nickel | 36 | | 0.62 | 0.17 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:53 | 1 |
| Potassium | 1900 | | 31 | 5.1 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:53 | 1 |
| Selenium | <0.62 | | 0.62 | 0.31 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:53 | 1 |
| Silver | <0.31 | | 0.31 | 0.072 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:53 | 1 |
| Sodium | 1400 | | 62 | 8.2 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:53 | 1 |
| Thallium | <0.62 | | 0.62 | 0.30 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:53 | 1 |
| Vanadium | 22 | | 0.31 | 0.090 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:53 | 1 |
| Zinc | 150 | | 1.2 | 0.39 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:53 | 1 |

Method: 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/01/16 15:45 | 04/04/16 13:58 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/01/16 15:45 | 04/04/16 13:02 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Mercury | 26 | | 20 | 10 | ug/Kg | ☼ | 03/30/16 16:15 | 03/31/16 10:45 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-------------|-----------|-------|-------|------|---|----------|----------------|---------|
| pH | 8.56 | | 0.200 | 0.200 | SU | | | 03/31/16 11:58 | 1 |

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Client Sample ID: PM-3(0-4)-032916D

Lab Sample ID: 500-109413-20

Date Collected: 03/29/16 12:50

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 81.5

Method: 8260B - VOC

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Acetone | <25 | | 25 | 4.8 | ug/Kg | ☼ | | 04/04/16 14:30 | 1 |
| Benzene | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 04/04/16 14:30 | 1 |
| Bromodichloromethane | <6.1 | | 6.1 | 1.0 | ug/Kg | ☼ | | 04/04/16 14:30 | 1 |
| Bromoform | <6.1 | | 6.1 | 1.3 | ug/Kg | ☼ | | 04/04/16 14:30 | 1 |
| Bromomethane | <6.1 | | 6.1 | 2.3 | ug/Kg | ☼ | | 04/04/16 14:30 | 1 |
| Carbon disulfide | <6.1 | | 6.1 | 2.3 | ug/Kg | ☼ | | 04/04/16 14:30 | 1 |
| Carbon tetrachloride | <6.1 | | 6.1 | 1.3 | ug/Kg | ☼ | | 04/04/16 14:30 | 1 |
| Chlorobenzene | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 04/04/16 14:30 | 1 |
| Chloroethane | <6.1 | | 6.1 | 2.6 | ug/Kg | ☼ | | 04/04/16 14:30 | 1 |
| Chloroform | <6.1 | | 6.1 | 1.2 | ug/Kg | ☼ | | 04/04/16 14:30 | 1 |
| Chloromethane | <6.1 | | 6.1 | 1.5 | ug/Kg | ☼ | | 04/04/16 14:30 | 1 |
| cis-1,2-Dichloroethene | <6.1 | | 6.1 | 1.3 | ug/Kg | ☼ | | 04/04/16 14:30 | 1 |
| cis-1,3-Dichloropropene | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 04/04/16 14:30 | 1 |
| Dibromochloromethane | <6.1 | | 6.1 | 0.71 | ug/Kg | ☼ | | 04/04/16 14:30 | 1 |
| 1,1-Dichloroethane | <6.1 | | 6.1 | 1.3 | ug/Kg | ☼ | | 04/04/16 14:30 | 1 |
| 1,2-Dichloroethane | <6.1 | | 6.1 | 0.91 | ug/Kg | ☼ | | 04/04/16 14:30 | 1 |
| 1,1-Dichloroethene | <6.1 | | 6.1 | 2.2 | ug/Kg | ☼ | | 04/04/16 14:30 | 1 |
| 1,2-Dichloropropane | <6.1 | | 6.1 | 1.6 | ug/Kg | ☼ | | 04/04/16 14:30 | 1 |
| 1,3-Dichloropropene, Total | <6.1 | | 6.1 | 1.7 | ug/Kg | ☼ | | 04/04/16 14:30 | 1 |
| Ethylbenzene | <6.1 | | 6.1 | 1.5 | ug/Kg | ☼ | | 04/04/16 14:30 | 1 |
| 2-Hexanone | <6.1 | | 6.1 | 1.9 | ug/Kg | ☼ | | 04/04/16 14:30 | 1 |
| Methylene Chloride | <6.1 | | 6.1 | 4.6 | ug/Kg | ☼ | | 04/04/16 14:30 | 1 |
| Methyl Ethyl Ketone | <6.1 | | 6.1 | 2.2 | ug/Kg | ☼ | | 04/04/16 14:30 | 1 |
| methyl isobutyl ketone | <6.1 | | 6.1 | 1.3 | ug/Kg | ☼ | | 04/04/16 14:30 | 1 |
| Methyl tert-butyl ether | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 04/04/16 14:30 | 1 |
| Styrene | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 04/04/16 14:30 | 1 |
| 1,1,2,2-Tetrachloroethane | <6.1 | | 6.1 | 0.97 | ug/Kg | ☼ | | 04/04/16 14:30 | 1 |
| Tetrachloroethene | <6.1 | | 6.1 | 1.3 | ug/Kg | ☼ | | 04/04/16 14:30 | 1 |
| Toluene | <6.1 | | 6.1 | 2.1 | ug/Kg | ☼ | | 04/04/16 14:30 | 1 |
| trans-1,2-Dichloroethene | <6.1 | | 6.1 | 1.5 | ug/Kg | ☼ | | 04/04/16 14:30 | 1 |
| trans-1,3-Dichloropropene | <6.1 | | 6.1 | 1.7 | ug/Kg | ☼ | | 04/04/16 14:30 | 1 |
| 1,1,1-Trichloroethane | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 04/04/16 14:30 | 1 |
| 1,1,2-Trichloroethane | <6.1 | | 6.1 | 1.2 | ug/Kg | ☼ | | 04/04/16 14:30 | 1 |
| Trichloroethene | <6.1 | | 6.1 | 1.7 | ug/Kg | ☼ | | 04/04/16 14:30 | 1 |
| Vinyl chloride | <6.1 | | 6.1 | 1.5 | ug/Kg | ☼ | | 04/04/16 14:30 | 1 |
| Xylenes, Total | <12 | | 12 | 2.3 | ug/Kg | ☼ | | 04/04/16 14:30 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 106 | | 70 - 120 | | 04/04/16 14:30 | 1 |
| Dibromofluoromethane | 109 | | 75 - 120 | | 04/04/16 14:30 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 110 | | 69 - 134 | | 04/04/16 14:30 | 1 |
| Toluene-d8 (Surr) | 114 | | 75 - 123 | | 04/04/16 14:30 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,2,4-Trichlorobenzene | <200 | | 200 | 44 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 01:17 | 1 |
| 1,2-Dichlorobenzene | <200 | | 200 | 48 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 01:17 | 1 |
| 1,3-Dichlorobenzene | <200 | | 200 | 46 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 01:17 | 1 |
| 1,4-Dichlorobenzene | <200 | | 200 | 52 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 01:17 | 1 |
| 2,2'-oxybis[1-chloropropane] | <200 | | 200 | 47 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 01:17 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Client Sample ID: PM-3(0-4)-032916D

Lab Sample ID: 500-109413-20

Date Collected: 03/29/16 12:50

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 81.5

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol | <400 | | 400 | 92 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 01:17 | 1 |
| 2,4,6-Trichlorophenol | <400 | | 400 | 140 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 01:17 | 1 |
| 2,4-Dichlorophenol | <400 | | 400 | 96 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 01:17 | 1 |
| 2,4-Dimethylphenol | <400 | | 400 | 150 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 01:17 | 1 |
| 2,4-Dinitrophenol | <820 | | 820 | 710 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 01:17 | 1 |
| 2,4-Dinitrotoluene | <200 | | 200 | 64 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 01:17 | 1 |
| 2,6-Dinitrotoluene | <200 | | 200 | 80 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 01:17 | 1 |
| 2-Chloronaphthalene | <200 | | 200 | 45 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 01:17 | 1 |
| 2-Chlorophenol | <200 | | 200 | 69 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 01:17 | 1 |
| 2-Methylnaphthalene | <40 | | 40 | 7.4 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 01:17 | 1 |
| 2-Methylphenol | <200 | | 200 | 65 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 01:17 | 1 |
| 2-Nitroaniline | <200 | | 200 | 54 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 01:17 | 1 |
| 2-Nitrophenol | <400 | | 400 | 96 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 01:17 | 1 |
| 3 & 4 Methylphenol | <200 | | 200 | 67 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 01:17 | 1 |
| 3,3'-Dichlorobenzidine | <200 | | 200 | 57 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 01:17 | 1 |
| 3-Nitroaniline | <400 | | 400 | 130 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 01:17 | 1 |
| 4,6-Dinitro-2-methylphenol | <820 | | 820 | 330 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 01:17 | 1 |
| 4-Bromophenyl phenyl ether | <200 | | 200 | 53 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 01:17 | 1 |
| 4-Chloro-3-methylphenol | <400 | | 400 | 140 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 01:17 | 1 |
| 4-Chloroaniline | <820 | | 820 | 190 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 01:17 | 1 |
| 4-Chlorophenyl phenyl ether | <200 | | 200 | 47 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 01:17 | 1 |
| 4-Nitroaniline | <400 | | 400 | 170 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 01:17 | 1 |
| 4-Nitrophenol | <820 | | 820 | 380 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 01:17 | 1 |
| Acenaphthene | <40 | | 40 | 7.3 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 01:17 | 1 |
| Acenaphthylene | <40 | | 40 | 5.3 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 01:17 | 1 |
| Anthracene | <40 | | 40 | 6.8 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 01:17 | 1 |
| Benzo[a]anthracene | 24 | J | 40 | 5.4 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 01:17 | 1 |
| Benzo[a]pyrene | 29 | J | 40 | 7.8 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 01:17 | 1 |
| Benzo[b]fluoranthene | 54 | | 40 | 8.7 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 01:17 | 1 |
| Benzo[g,h,i]perylene | <40 | | 40 | 13 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 01:17 | 1 |
| Benzo[k]fluoranthene | 25 | J | 40 | 12 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 01:17 | 1 |
| Bis(2-chloroethoxy)methane | <200 | | 200 | 41 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 01:17 | 1 |
| Bis(2-chloroethyl)ether | <200 | | 200 | 61 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 01:17 | 1 |
| Bis(2-ethylhexyl) phthalate | <200 | | 200 | 74 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 01:17 | 1 |
| Butyl benzyl phthalate | <200 | | 200 | 77 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 01:17 | 1 |
| Carbazole | <200 | | 200 | 100 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 01:17 | 1 |
| Chrysene | 30 | J | 40 | 11 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 01:17 | 1 |
| Dibenz(a,h)anthracene | <40 | | 40 | 7.8 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 01:17 | 1 |
| Dibenzofuran | <200 | | 200 | 47 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 01:17 | 1 |
| Diethyl phthalate | <200 | | 200 | 69 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 01:17 | 1 |
| Dimethyl phthalate | <200 | | 200 | 53 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 01:17 | 1 |
| Di-n-butyl phthalate | <200 | | 200 | 62 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 01:17 | 1 |
| Di-n-octyl phthalate | <200 | | 200 | 66 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 01:17 | 1 |
| Fluoranthene | 43 | | 40 | 7.5 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 01:17 | 1 |
| Fluorene | <40 | | 40 | 5.7 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 01:17 | 1 |
| Hexachlorobenzene | <82 | | 82 | 9.4 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 01:17 | 1 |
| Hexachlorobutadiene | <200 | | 200 | 64 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 01:17 | 1 |
| Hexachlorocyclopentadiene | <820 | | 820 | 230 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 01:17 | 1 |
| Hexachloroethane | <200 | | 200 | 62 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 01:17 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Client Sample ID: PM-3(0-4)-032916D

Lab Sample ID: 500-109413-20

Date Collected: 03/29/16 12:50

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 81.5

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| Indeno[1,2,3-cd]pyrene | 16 | J | 40 | 10 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 01:17 | 1 |
| Isophorone | <200 | | 200 | 45 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 01:17 | 1 |
| Naphthalene | <40 | | 40 | 6.2 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 01:17 | 1 |
| Nitrobenzene | <40 | | 40 | 10 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 01:17 | 1 |
| N-Nitrosodi-n-propylamine | <82 | | 82 | 49 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 01:17 | 1 |
| N-Nitrosodiphenylamine | <200 | | 200 | 48 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 01:17 | 1 |
| Pentachlorophenol | <820 | | 820 | 650 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 01:17 | 1 |
| Phenanthrene | 16 | J | 40 | 5.6 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 01:17 | 1 |
| Phenol | <200 | | 200 | 90 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 01:17 | 1 |
| Pyrene | 62 | | 40 | 8.0 | ug/Kg | ☼ | 03/30/16 08:24 | 04/07/16 01:17 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| <i>2,4,6-Tribromophenol</i> | 43 | | 25 - 130 | | | | 03/30/16 08:24 | 04/07/16 01:17 | 1 |
| <i>2-Fluorobiphenyl</i> | 77 | | 42 - 115 | | | | 03/30/16 08:24 | 04/07/16 01:17 | 1 |
| <i>2-Fluorophenol</i> | 78 | | 40 - 130 | | | | 03/30/16 08:24 | 04/07/16 01:17 | 1 |
| <i>Nitrobenzene-d5</i> | 71 | | 33 - 124 | | | | 03/30/16 08:24 | 04/07/16 01:17 | 1 |
| <i>Phenol-d5</i> | 67 | | 36 - 123 | | | | 03/30/16 08:24 | 04/07/16 01:17 | 1 |
| <i>Terphenyl-d14</i> | 130 | | 25 - 150 | | | | 03/30/16 08:24 | 04/07/16 01:17 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.050 | | 0.050 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:58 | 1 |
| Barium | 0.20 | J | 0.50 | 0.050 | mg/L | | 04/01/16 14:34 | 04/02/16 18:58 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 04/01/16 14:34 | 04/02/16 18:58 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/01/16 14:34 | 04/02/16 18:58 | 1 |
| Chromium | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:58 | 1 |
| Cobalt | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:58 | 1 |
| Copper | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:58 | 1 |
| Iron | <0.40 | | 0.40 | 0.20 | mg/L | | 04/01/16 14:34 | 04/02/16 18:58 | 1 |
| Lead | <0.0075 | | 0.0075 | 0.0075 | mg/L | | 04/01/16 14:34 | 04/02/16 18:58 | 1 |
| Manganese | 0.70 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:58 | 1 |
| Nickel | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:58 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/01/16 14:34 | 04/02/16 18:58 | 1 |
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:58 | 1 |
| Zinc | 0.078 | J | 0.50 | 0.020 | mg/L | | 04/01/16 14:34 | 04/02/16 18:58 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.13 | | 0.050 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 21:09 | 1 |
| Barium | 0.69 | | 0.50 | 0.050 | mg/L | | 04/01/16 14:17 | 04/02/16 21:09 | 1 |
| Beryllium | 0.011 | | 0.0040 | 0.0040 | mg/L | | 04/01/16 14:17 | 04/02/16 21:09 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/01/16 14:17 | 04/02/16 21:09 | 1 |
| Chromium | 0.32 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 21:09 | 1 |
| Cobalt | 0.11 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 21:09 | 1 |
| Copper | 0.29 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/04/16 13:57 | 1 |
| Iron | 350 | | 0.40 | 0.20 | mg/L | | 04/05/16 07:39 | 04/05/16 15:39 | 1 |
| Lead | 0.20 | | 0.0075 | 0.0075 | mg/L | | 04/01/16 14:17 | 04/02/16 21:09 | 1 |
| Manganese | 1.3 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 21:09 | 1 |
| Nickel | 0.37 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 21:09 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/01/16 14:17 | 04/02/16 21:09 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Client Sample ID: PM-3(0-4)-032916D

Lab Sample ID: 500-109413-20

Date Collected: 03/29/16 12:50

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 81.5

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|------------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/04/16 13:57 | 1 |
| Zinc | 1.3 | | 0.50 | 0.020 | mg/L | | 04/01/16 14:17 | 04/02/16 21:09 | 1 |

Method: 6010B - Total Metals

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | <1.1 | | 1.1 | 0.22 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 20:07 | 1 |
| Arsenic | 7.7 | | 0.54 | 0.25 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 20:07 | 1 |
| Barium | 94 | B | 0.54 | 0.099 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 20:07 | 1 |
| Beryllium | 0.82 | | 0.22 | 0.047 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 20:07 | 1 |
| Cadmium | 0.11 | | 0.11 | 0.031 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 20:07 | 1 |
| Calcium | 9700 | B | 11 | 3.5 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 20:07 | 1 |
| Chromium | 18 | | 0.54 | 0.093 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 20:07 | 1 |
| Cobalt | 16 | | 0.27 | 0.061 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 20:07 | 1 |
| Copper | 21 | | 0.54 | 0.12 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 20:07 | 1 |
| Iron | 20000 | | 11 | 4.2 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 20:07 | 1 |
| Lead | 27 | | 0.27 | 0.13 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 20:07 | 1 |
| Magnesium | 7300 | B | 5.4 | 2.2 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 20:07 | 1 |
| Manganese | 530 | | 0.54 | 0.11 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 20:07 | 1 |
| Nickel | 29 | | 0.54 | 0.15 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 20:07 | 1 |
| Potassium | 1700 | | 27 | 4.4 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 20:07 | 1 |
| Selenium | 0.31 | J | 0.54 | 0.27 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 20:07 | 1 |
| Silver | <0.27 | | 0.27 | 0.063 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 20:07 | 1 |
| Sodium | 1400 | | 54 | 7.1 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 20:07 | 1 |
| Thallium | <0.54 | | 0.54 | 0.27 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 20:07 | 1 |
| Vanadium | 27 | | 0.27 | 0.079 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 20:07 | 1 |
| Zinc | 96 | | 1.1 | 0.34 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 20:07 | 1 |

Method: 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/01/16 15:45 | 04/04/16 14:11 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/01/16 15:45 | 04/04/16 14:19 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Mercury | 25 | | 18 | 9.5 | ug/Kg | ☼ | 03/30/16 16:15 | 03/31/16 10:48 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-------------|-----------|-------|-------|------|---|----------|----------------|---------|
| pH | 8.56 | | 0.200 | 0.200 | SU | | | 03/31/16 12:02 | 1 |

Definitions/Glossary

Client: Environmental Design International, Inc.
Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Qualifiers

GC/MS VOA

| Qualifier | Qualifier Description |
|-----------|--|
| F1 | MS and/or MSD Recovery is outside acceptance limits. |

GC/MS Semi VOA

| Qualifier | Qualifier Description |
|-----------|--|
| F2 | MS/MSD RPD exceeds control limits |
| F1 | MS and/or MSD Recovery is outside acceptance limits. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| E | Result exceeded calibration range. |
| X | Surrogate is outside control limits |

Metals

| Qualifier | Qualifier Description |
|-----------|--|
| F1 | MS and/or MSD Recovery is outside acceptance limits. |
| F2 | MS/MSD RPD exceeds control limits |
| B | Compound was found in the blank and sample. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| ^ | ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits. |
| F5 | Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL. |
| F3 | Duplicate RPD exceeds the control limit |
| 4 | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |

Glossary

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

Certification Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|-----------|---------|------------|------------------|-----------------|
| Illinois | NELAP | 5 | 100201 | 04-30-17 |

The following analytes are included in this report, but certification is not offered by the governing authority:

| Analysis Method | Prep Method | Matrix | Analyte |
|-----------------|-------------|--------|----------------------------|
| 8260B | | Solid | 1,3-Dichloropropene, Total |
| 8260B | 5030B | Solid | 1,3-Dichloropropene, Total |
| Moisture | | Solid | Percent Moisture |
| Moisture | | Solid | Percent Solids |



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING


2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To _____ (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

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

Chain of Custody Record

Lab Job #: 500-109413
 Chain of Custody Number: _____
 Page 1 of 3
 Temperature °C of Cooler: 4.7, 5.4

| Client | | Client Project # | | Preservative | | Parameter | | | | | Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. I to 4° 4. Cool to 4°  500-109413 COC Comments | |
|------------------------|--------|---------------------|---------|--------------|-----------------|-----------|------|-------|--------------|-----------------|--|--|
| Project Name | | Lab Project # | | Matrix | | | | | | | | |
| Project Location/State | | Lab PM | | | | | | | | | | |
| Sampler | | | | | | | | | | | | |
| Lab ID | MS/MSD | Sample ID | Date | Time | # of Containers | Matrix | VOCs | SVOCs | Total Metals | TCLP/SPL Metals | PH | |
| 1 | | BB-2(0-4)-032916 | 3/24/16 | 0810 | 2 | S | X | X | X | X | X | |
| 2 | | BB-2(0-4)-032916D | | 0815 | | | | | | | | |
| 3 | | BB-1(0-5)-032916 | | 0855 | | | | | | | | |
| 4 | | BB-1(5-10)-032916 | | 0900 | | | | | | | | |
| 5 | | VL12-2(0-5)-032916 | | 0915 | | | | | | | | |
| 6 | | VL12-2(5-10)-032916 | | 0920 | | | | | | | | |
| 7 | | VL12-1(0-5)-032916 | | 0940 | | | | | | | | |
| 8 | | VL12-1(5-10)-032916 | | 0945 | | | | | | | | |
| 9 | | VL16-1(0-4)-032916 | | 1005 | | | | | | | | |
| 10 | | R17-2(0-5)-032916 | | 1025 | | | X | X | X | X | X | |

Turnaround Time Required (Business Days) _____
 Requested Due Date _____
 Sample Disposal: Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

| | | |
|--|---|------------------------|
| Relinquished By: <u>[Signature]</u> Company: <u>EDI</u> Date: <u>3/24/16</u> Time: <u>1530</u> | Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/29/16</u> Time: <u>1530</u> | Lab Courier: <u>TA</u> |
| Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/29/16</u> Time: <u>1003</u> | Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>03/29/16</u> Time: <u>10:03</u> | Shipped: _____ |
| Relinquished By: _____ Company: _____ Date: _____ Time: _____ | Received By: _____ Company: _____ Date: _____ Time: _____ | Hand Delivered: _____ |

- Matrix Key
- WW - Wastewater
 - W - Water
 - S - Soil
 - SL - Sludge
 - MS - Miscellaneous
 - OL - Oil
 - A - Air
 - SE - Sediment
 - SO - Soil
 - L - Leachate
 - WI - Wipe
 - DW - Drinking Water
 - O - Other

Client Comments: _____
 Lab Comments: _____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

| | |
|----------------------------|--------------------------|
| Report To _____ (optional) | Bill To _____ (optional) |
| Contact: _____ | Contact: _____ |
| Company: _____ | Company: _____ |
| Address: _____ | Address: _____ |
| Address: _____ | Address: _____ |
| Phone: _____ | Phone: _____ |
| Fax: _____ | Fax: _____ |
| E-Mail: _____ | PO#/Reference# _____ |

Chain of Custody Record

Lab Job #: 500-109413
 Chain of Custody Number: _____
 Page 2 of 3
 Temperature °C of Cooler: 4.7, 5.4

| Client | | Client Project # | | Preservative | | Parameter | | | | | Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other | |
|------------------------|--------|-----------------------|---------|--------------|-----------------|-----------|------|-------|--------------|-------------------|---|----------|
| Project Name | | Lab Project # | | Parameter | | Parameter | | | | | | |
| Project Location/State | | Lab Project # | | Parameter | | Parameter | | | | | | |
| Sampler | | Lab PM | | Parameter | | Parameter | | | | | | |
| Lab ID | MS/MSD | Sample ID | Date | Time | # of Containers | Matrix | VOCs | SVOCs | Total Metals | Trace/Semi Metals | PH | Comments |
| 11 | | R17-2(5-10)-032916 | 3/29/16 | 1030 | 2 | S | X | X | X | X | X | |
| 12 | | R17-2(10-15)-032916 | | 1035 | | | | | | | | |
| 13 | | R17-2(10-15)-032916 D | | 1040 | | | | | | | | |
| 14 | | R17-1(0-4)-032916 | | 1100 | | | | | | | | |
| 15 | | R17-1(4-8)-032916 | | 1105 | | | | | | | | |
| 16 | | PM-1(0-4)-032916 | | 1215 | | | | | | | | |
| 17 | | PM-1(4-7)-032916 | | 1220 | | | | | | | | |
| 18 | | PM-2(0-4)-032916 | | 1235 | | | | | | | | |
| 19 | | PM-3(0-4)-032916 | | 1245 | | | | | | | | |
| 20 | | PM-3(0-4)-032916 D | X | 1250 | | | X | X | X | X | X | |

Turnaround Time Required (Business Days)
 1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other

Requested Due Date _____

Sample Disposal
 Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

| | | |
|--|---|------------------------|
| Relinquished By: <u>[Signature]</u> Company: <u>EDI</u> Date: <u>3/29/16</u> Time: <u>1530</u> | Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/29/16</u> Time: <u>1530</u> | Lab Courier: <u>TA</u> |
| Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/29/16</u> Time: <u>1603</u> | Received By: <u>[Signature]</u> Company: <u>TA-UMT</u> Date: <u>03/29/16</u> Time: <u>16:03</u> | Shipped: _____ |
| Relinquished By: _____ Company: _____ Date: _____ Time: _____ | Received By: _____ Company: _____ Date: _____ Time: _____ | Hand Delivered: _____ |

- Matrix Key
- WW - Wastewater
 - W - Water
 - S - Soil
 - SL - Sludge
 - MS - Miscellaneous
 - OL - Oil
 - A - Air
 - SE - Sediment
 - SO - Soil
 - L - Leachate
 - WI - Wipe
 - DW - Drinking Water
 - O - Other

Client Comments: _____

Lab Comments: _____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-109414-1

Client Project/Site: IDOT - Harvey IL Route 113 - WO 041

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

Attn: Ms. Patricia Feeley



Authorized for release by:
4/6/2016 3:04:11 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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Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109414-1

Client Sample ID: PM-3(4-7.7)-032916

Lab Sample ID: 500-109414-1

Date Collected: 03/29/16 12:55

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 84.9

Method: 8260B - VOC

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Acetone | <24 | | 24 | 4.6 | ug/Kg | ☼ | | 04/01/16 12:12 | 1 |
| Benzene | <5.9 | | 5.9 | 1.3 | ug/Kg | ☼ | | 04/01/16 12:12 | 1 |
| Bromodichloromethane | <5.9 | | 5.9 | 0.99 | ug/Kg | ☼ | | 04/01/16 12:12 | 1 |
| Bromoform | <5.9 | | 5.9 | 1.2 | ug/Kg | ☼ | | 04/01/16 12:12 | 1 |
| Bromomethane | <5.9 | | 5.9 | 2.2 | ug/Kg | ☼ | | 04/01/16 12:12 | 1 |
| Carbon disulfide | <5.9 | | 5.9 | 2.2 | ug/Kg | ☼ | | 04/01/16 12:12 | 1 |
| Carbon tetrachloride | <5.9 | | 5.9 | 1.3 | ug/Kg | ☼ | | 04/01/16 12:12 | 1 |
| Chlorobenzene | <5.9 | | 5.9 | 1.4 | ug/Kg | ☼ | | 04/01/16 12:12 | 1 |
| Chloroethane | <5.9 | | 5.9 | 2.5 | ug/Kg | ☼ | | 04/01/16 12:12 | 1 |
| Chloroform | <5.9 | | 5.9 | 1.1 | ug/Kg | ☼ | | 04/01/16 12:12 | 1 |
| Chloromethane | <5.9 | | 5.9 | 1.4 | ug/Kg | ☼ | | 04/01/16 12:12 | 1 |
| cis-1,2-Dichloroethene | <5.9 | | 5.9 | 1.2 | ug/Kg | ☼ | | 04/01/16 12:12 | 1 |
| cis-1,3-Dichloropropene | <5.9 | | 5.9 | 1.3 | ug/Kg | ☼ | | 04/01/16 12:12 | 1 |
| Dibromochloromethane | <5.9 | | 5.9 | 0.68 | ug/Kg | ☼ | | 04/01/16 12:12 | 1 |
| 1,1-Dichloroethane | <5.9 | | 5.9 | 1.2 | ug/Kg | ☼ | | 04/01/16 12:12 | 1 |
| 1,2-Dichloroethane | <5.9 | | 5.9 | 0.87 | ug/Kg | ☼ | | 04/01/16 12:12 | 1 |
| 1,1-Dichloroethene | <5.9 | | 5.9 | 2.1 | ug/Kg | ☼ | | 04/01/16 12:12 | 1 |
| 1,2-Dichloropropane | <5.9 | | 5.9 | 1.5 | ug/Kg | ☼ | | 04/01/16 12:12 | 1 |
| 1,3-Dichloropropene, Total | <5.9 | | 5.9 | 1.7 | ug/Kg | ☼ | | 04/01/16 12:12 | 1 |
| Ethylbenzene | <5.9 | | 5.9 | 1.5 | ug/Kg | ☼ | | 04/01/16 12:12 | 1 |
| 2-Hexanone | <5.9 | | 5.9 | 1.8 | ug/Kg | ☼ | | 04/01/16 12:12 | 1 |
| Methylene Chloride | <5.9 | | 5.9 | 4.5 | ug/Kg | ☼ | | 04/01/16 12:12 | 1 |
| Methyl Ethyl Ketone | <5.9 | | 5.9 | 2.1 | ug/Kg | ☼ | | 04/01/16 12:12 | 1 |
| methyl isobutyl ketone | <5.9 | | 5.9 | 1.2 | ug/Kg | ☼ | | 04/01/16 12:12 | 1 |
| Methyl tert-butyl ether | <5.9 | | 5.9 | 1.4 | ug/Kg | ☼ | | 04/01/16 12:12 | 1 |
| Styrene | <5.9 | | 5.9 | 1.4 | ug/Kg | ☼ | | 04/01/16 12:12 | 1 |
| 1,1,2,2-Tetrachloroethane | <5.9 | | 5.9 | 0.93 | ug/Kg | ☼ | | 04/01/16 12:12 | 1 |
| Tetrachloroethene | <5.9 | | 5.9 | 1.2 | ug/Kg | ☼ | | 04/01/16 12:12 | 1 |
| Toluene | <5.9 | | 5.9 | 2.0 | ug/Kg | ☼ | | 04/01/16 12:12 | 1 |
| trans-1,2-Dichloroethene | <5.9 | | 5.9 | 1.5 | ug/Kg | ☼ | | 04/01/16 12:12 | 1 |
| trans-1,3-Dichloropropene | <5.9 | | 5.9 | 1.7 | ug/Kg | ☼ | | 04/01/16 12:12 | 1 |
| 1,1,1-Trichloroethane | <5.9 | | 5.9 | 1.4 | ug/Kg | ☼ | | 04/01/16 12:12 | 1 |
| 1,1,2-Trichloroethane | <5.9 | | 5.9 | 1.1 | ug/Kg | ☼ | | 04/01/16 12:12 | 1 |
| Trichloroethene | <5.9 | | 5.9 | 1.6 | ug/Kg | ☼ | | 04/01/16 12:12 | 1 |
| Vinyl chloride | <5.9 | | 5.9 | 1.4 | ug/Kg | ☼ | | 04/01/16 12:12 | 1 |
| Xylenes, Total | <12 | | 12 | 2.2 | ug/Kg | ☼ | | 04/01/16 12:12 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 105 | | 70 - 120 | | 04/01/16 12:12 | 1 |
| Dibromofluoromethane | 111 | | 75 - 120 | | 04/01/16 12:12 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 113 | | 69 - 134 | | 04/01/16 12:12 | 1 |
| Toluene-d8 (Surr) | 116 | | 75 - 123 | | 04/01/16 12:12 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,2,4-Trichlorobenzene | <190 | | 190 | 42 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:08 | 1 |
| 1,2-Dichlorobenzene | <190 | | 190 | 46 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:08 | 1 |
| 1,3-Dichlorobenzene | <190 | | 190 | 44 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:08 | 1 |
| 1,4-Dichlorobenzene | <190 | | 190 | 50 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:08 | 1 |
| 2,2'-oxybis[1-chloropropane] | <190 | | 190 | 45 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:08 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109414-1

Client Sample ID: PM-3(4-7.7)-032916

Lab Sample ID: 500-109414-1

Date Collected: 03/29/16 12:55

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 84.9

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol | <380 | | 380 | 88 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:08 | 1 |
| 2,4,6-Trichlorophenol | <380 | | 380 | 130 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:08 | 1 |
| 2,4-Dichlorophenol | <380 | | 380 | 92 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:08 | 1 |
| 2,4-Dimethylphenol | <380 | | 380 | 150 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:08 | 1 |
| 2,4-Dinitrophenol | <780 | | 780 | 680 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:08 | 1 |
| 2,4-Dinitrotoluene | <190 | | 190 | 62 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:08 | 1 |
| 2,6-Dinitrotoluene | <190 | | 190 | 76 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:08 | 1 |
| 2-Chloronaphthalene | <190 | | 190 | 43 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:08 | 1 |
| 2-Chlorophenol | <190 | | 190 | 66 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:08 | 1 |
| 2-Methylnaphthalene | <38 | | 38 | 7.1 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:08 | 1 |
| 2-Methylphenol | <190 | | 190 | 62 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:08 | 1 |
| 2-Nitroaniline | <190 | | 190 | 52 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:08 | 1 |
| 2-Nitrophenol | <380 | | 380 | 91 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:08 | 1 |
| 3 & 4 Methylphenol | <190 | | 190 | 65 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:08 | 1 |
| 3,3'-Dichlorobenzidine | <190 | | 190 | 54 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:08 | 1 |
| 3-Nitroaniline | <380 | | 380 | 120 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:08 | 1 |
| 4,6-Dinitro-2-methylphenol | <780 | | 780 | 310 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:08 | 1 |
| 4-Bromophenyl phenyl ether | <190 | | 190 | 51 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:08 | 1 |
| 4-Chloro-3-methylphenol | <380 | | 380 | 130 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:08 | 1 |
| 4-Chloroaniline | <780 | | 780 | 180 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:08 | 1 |
| 4-Chlorophenyl phenyl ether | <190 | | 190 | 45 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:08 | 1 |
| 4-Nitroaniline | <380 | | 380 | 160 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:08 | 1 |
| 4-Nitrophenol | <780 | | 780 | 370 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:08 | 1 |
| Acenaphthene | <38 | | 38 | 7.0 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:08 | 1 |
| Acenaphthylene | <38 | | 38 | 5.1 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:08 | 1 |
| Anthracene | <38 | | 38 | 6.5 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:08 | 1 |
| Benzo[a]anthracene | 7.6 J | | 38 | 5.2 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:08 | 1 |
| Benzo[a]pyrene | 9.4 J | | 38 | 7.5 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:08 | 1 |
| Benzo[b]fluoranthene | 14 J | | 38 | 8.4 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:08 | 1 |
| Benzo[g,h,i]perylene | <38 | | 38 | 12 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:08 | 1 |
| Benzo[k]fluoranthene | <38 | | 38 | 11 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:08 | 1 |
| Bis(2-chloroethoxy)methane | <190 | | 190 | 40 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:08 | 1 |
| Bis(2-chloroethyl)ether | <190 | | 190 | 58 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:08 | 1 |
| Bis(2-ethylhexyl) phthalate | <190 | | 190 | 71 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:08 | 1 |
| Butyl benzyl phthalate | <190 | | 190 | 74 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:08 | 1 |
| Carbazole | <190 | | 190 | 97 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:08 | 1 |
| Chrysene | 18 J | | 38 | 11 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:08 | 1 |
| Dibenz(a,h)anthracene | <38 | | 38 | 7.5 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:08 | 1 |
| Dibenzofuran | <190 | | 190 | 45 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:08 | 1 |
| Diethyl phthalate | <190 | | 190 | 66 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:08 | 1 |
| Dimethyl phthalate | <190 | | 190 | 51 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:08 | 1 |
| Di-n-butyl phthalate | <190 | | 190 | 59 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:08 | 1 |
| Di-n-octyl phthalate | <190 | | 190 | 63 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:08 | 1 |
| Fluoranthene | 16 J | | 38 | 7.2 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:08 | 1 |
| Fluorene | <38 | | 38 | 5.4 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:08 | 1 |
| Hexachlorobenzene | <78 | | 78 | 9.0 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:08 | 1 |
| Hexachlorobutadiene | <190 | | 190 | 61 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:08 | 1 |
| Hexachlorocyclopentadiene | <780 | | 780 | 220 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:08 | 1 |
| Hexachloroethane | <190 | | 190 | 59 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:08 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109414-1

Client Sample ID: PM-3(4-7.7)-032916

Lab Sample ID: 500-109414-1

Date Collected: 03/29/16 12:55

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 84.9

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|------------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Indeno[1,2,3-cd]pyrene | <38 | | 38 | 10 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:08 | 1 |
| Isophorone | <190 | | 190 | 43 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:08 | 1 |
| Naphthalene | <38 | | 38 | 6.0 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:08 | 1 |
| Nitrobenzene | <38 | | 38 | 9.7 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:08 | 1 |
| N-Nitrosodi-n-propylamine | <78 | | 78 | 47 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:08 | 1 |
| N-Nitrosodiphenylamine | <190 | | 190 | 46 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:08 | 1 |
| Pentachlorophenol | <780 | | 780 | 620 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:08 | 1 |
| Phenanthrene | 9.7 | J | 38 | 5.4 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:08 | 1 |
| Phenol | <190 | | 190 | 86 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:08 | 1 |
| Pyrene | 19 | J | 38 | 7.7 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:08 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2,4,6-Tribromophenol | 81 | | 25 - 130 | 03/30/16 07:12 | 04/05/16 04:08 | 1 |
| 2-Fluorobiphenyl | 80 | | 42 - 115 | 03/30/16 07:12 | 04/05/16 04:08 | 1 |
| 2-Fluorophenol | 143 | X | 40 - 130 | 03/30/16 07:12 | 04/05/16 04:08 | 1 |
| Nitrobenzene-d5 | 80 | | 33 - 124 | 03/30/16 07:12 | 04/05/16 04:08 | 1 |
| Phenol-d5 | 115 | | 36 - 123 | 03/30/16 07:12 | 04/05/16 04:08 | 1 |
| Terphenyl-d14 | 81 | | 25 - 150 | 03/30/16 07:12 | 04/05/16 04:08 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.050 | | 0.050 | 0.010 | mg/L | | 04/01/16 14:15 | 04/02/16 19:31 | 1 |
| Barium | 0.11 | J | 0.50 | 0.050 | mg/L | | 04/01/16 14:15 | 04/02/16 19:31 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 04/01/16 14:15 | 04/02/16 19:31 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/01/16 14:15 | 04/02/16 19:31 | 1 |
| Chromium | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:15 | 04/02/16 19:31 | 1 |
| Cobalt | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:15 | 04/02/16 19:31 | 1 |
| Copper | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:15 | 04/02/16 19:31 | 1 |
| Iron | 0.28 | J | 0.40 | 0.20 | mg/L | | 04/01/16 14:15 | 04/02/16 19:31 | 1 |
| Lead | <0.0075 | | 0.0075 | 0.0075 | mg/L | | 04/01/16 14:15 | 04/02/16 19:31 | 1 |
| Manganese | 1.4 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:15 | 04/02/16 19:31 | 1 |
| Nickel | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:15 | 04/02/16 19:31 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/01/16 14:15 | 04/02/16 19:31 | 1 |
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:15 | 04/02/16 19:31 | 1 |
| Zinc | 0.021 | J | 0.50 | 0.020 | mg/L | | 04/01/16 14:15 | 04/02/16 19:31 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.044 | J | 0.050 | 0.010 | mg/L | | 04/01/16 09:30 | 04/02/16 00:00 | 1 |
| Barium | 0.10 | J | 0.50 | 0.050 | mg/L | | 04/01/16 09:30 | 04/02/16 00:00 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 04/01/16 09:30 | 04/02/16 00:00 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/01/16 09:30 | 04/02/16 00:00 | 1 |
| Chromium | 0.072 | | 0.025 | 0.010 | mg/L | | 04/01/16 09:30 | 04/02/16 00:00 | 1 |
| Cobalt | 0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 09:30 | 04/02/16 00:00 | 1 |
| Copper | 0.12 | | 0.025 | 0.010 | mg/L | | 04/01/16 09:30 | 04/02/16 00:00 | 1 |
| Iron | 81 | | 0.40 | 0.20 | mg/L | | 04/01/16 09:30 | 04/02/16 00:00 | 1 |
| Lead | 0.066 | | 0.0075 | 0.0075 | mg/L | | 04/01/16 09:30 | 04/02/16 00:00 | 1 |
| Manganese | 0.30 | | 0.025 | 0.010 | mg/L | | 04/01/16 09:30 | 04/02/16 00:00 | 1 |
| Nickel | 0.082 | | 0.025 | 0.010 | mg/L | | 04/01/16 09:30 | 04/02/16 00:00 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/01/16 09:30 | 04/02/16 00:00 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109414-1

Client Sample ID: PM-3(4-7.7)-032916

Lab Sample ID: 500-109414-1

Date Collected: 03/29/16 12:55

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 84.9

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|-------------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 09:30 | 04/02/16 00:00 | 1 |
| Zinc | 0.19 | J | 0.50 | 0.020 | mg/L | | 04/01/16 09:30 | 04/02/16 00:00 | 1 |

Method: 6010B - Total Metals

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | <1.1 | | 1.1 | 0.23 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 17:52 | 1 |
| Arsenic | 7.8 | | 0.57 | 0.26 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 17:52 | 1 |
| Barium | 19 | B | 0.57 | 0.10 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 17:52 | 1 |
| Beryllium | 0.32 | | 0.23 | 0.049 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 17:52 | 1 |
| Cadmium | <0.11 | | 0.11 | 0.033 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 17:52 | 1 |
| Calcium | 64000 | B | 110 | 36 | mg/Kg | ☼ | 03/31/16 08:27 | 04/01/16 21:39 | 10 |
| Chromium | 9.9 | | 0.57 | 0.097 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 17:52 | 1 |
| Cobalt | 8.3 | | 0.28 | 0.064 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 17:52 | 1 |
| Copper | 26 | | 0.57 | 0.12 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 17:52 | 1 |
| Iron | 15000 | B | 11 | 4.4 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 17:52 | 1 |
| Lead | 12 | | 0.28 | 0.14 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 17:52 | 1 |
| Magnesium | 31000 | | 5.7 | 2.3 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 17:52 | 1 |
| Manganese | 390 | | 0.57 | 0.11 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 17:52 | 1 |
| Nickel | 23 | | 0.57 | 0.15 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 17:52 | 1 |
| Potassium | 1600 | | 28 | 4.6 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 17:52 | 1 |
| Selenium | 0.67 | | 0.57 | 0.28 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 17:52 | 1 |
| Silver | <0.28 | | 0.28 | 0.066 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 17:52 | 1 |
| Sodium | 590 | B | 57 | 7.5 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 17:52 | 1 |
| Thallium | 0.56 | J | 0.57 | 0.28 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 17:52 | 1 |
| Vanadium | 11 | | 0.28 | 0.083 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 17:52 | 1 |
| Zinc | 40 | | 1.1 | 0.36 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 17:52 | 1 |

Method: 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/01/16 15:45 | 04/04/16 11:38 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/01/16 15:45 | 04/04/16 11:13 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Mercury | 23 | | 19 | 10 | ug/Kg | ☼ | 03/31/16 15:20 | 04/01/16 11:59 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-------------|-----------|-------|-------|------|---|----------|----------------|---------|
| pH | 8.13 | | 0.200 | 0.200 | SU | | | 03/31/16 12:11 | 1 |

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109414-1

Client Sample ID: PM-4(0-4)-032916

Lab Sample ID: 500-109414-2

Date Collected: 03/29/16 13:15

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 83.5

Method: 8260B - VOC

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Acetone | <24 | | 24 | 4.6 | ug/Kg | ☼ | | 04/01/16 12:36 | 1 |
| Benzene | <6.0 | | 6.0 | 1.3 | ug/Kg | ☼ | | 04/01/16 12:36 | 1 |
| Bromodichloromethane | <6.0 | | 6.0 | 1.0 | ug/Kg | ☼ | | 04/01/16 12:36 | 1 |
| Bromoform | <6.0 | | 6.0 | 1.2 | ug/Kg | ☼ | | 04/01/16 12:36 | 1 |
| Bromomethane | <6.0 | | 6.0 | 2.2 | ug/Kg | ☼ | | 04/01/16 12:36 | 1 |
| Carbon disulfide | <6.0 | | 6.0 | 2.2 | ug/Kg | ☼ | | 04/01/16 12:36 | 1 |
| Carbon tetrachloride | <6.0 | | 6.0 | 1.3 | ug/Kg | ☼ | | 04/01/16 12:36 | 1 |
| Chlorobenzene | <6.0 | | 6.0 | 1.4 | ug/Kg | ☼ | | 04/01/16 12:36 | 1 |
| Chloroethane | <6.0 | | 6.0 | 2.5 | ug/Kg | ☼ | | 04/01/16 12:36 | 1 |
| Chloroform | <6.0 | | 6.0 | 1.2 | ug/Kg | ☼ | | 04/01/16 12:36 | 1 |
| Chloromethane | <6.0 | | 6.0 | 1.4 | ug/Kg | ☼ | | 04/01/16 12:36 | 1 |
| cis-1,2-Dichloroethene | <6.0 | | 6.0 | 1.2 | ug/Kg | ☼ | | 04/01/16 12:36 | 1 |
| cis-1,3-Dichloropropene | <6.0 | | 6.0 | 1.4 | ug/Kg | ☼ | | 04/01/16 12:36 | 1 |
| Dibromochloromethane | <6.0 | | 6.0 | 0.69 | ug/Kg | ☼ | | 04/01/16 12:36 | 1 |
| 1,1-Dichloroethane | <6.0 | | 6.0 | 1.2 | ug/Kg | ☼ | | 04/01/16 12:36 | 1 |
| 1,2-Dichloroethane | <6.0 | | 6.0 | 0.89 | ug/Kg | ☼ | | 04/01/16 12:36 | 1 |
| 1,1-Dichloroethene | <6.0 | | 6.0 | 2.2 | ug/Kg | ☼ | | 04/01/16 12:36 | 1 |
| 1,2-Dichloropropane | <6.0 | | 6.0 | 1.6 | ug/Kg | ☼ | | 04/01/16 12:36 | 1 |
| 1,3-Dichloropropene, Total | <6.0 | | 6.0 | 1.7 | ug/Kg | ☼ | | 04/01/16 12:36 | 1 |
| Ethylbenzene | <6.0 | | 6.0 | 1.5 | ug/Kg | ☼ | | 04/01/16 12:36 | 1 |
| 2-Hexanone | <6.0 | | 6.0 | 1.9 | ug/Kg | ☼ | | 04/01/16 12:36 | 1 |
| Methylene Chloride | <6.0 | | 6.0 | 4.5 | ug/Kg | ☼ | | 04/01/16 12:36 | 1 |
| Methyl Ethyl Ketone | <6.0 | | 6.0 | 2.1 | ug/Kg | ☼ | | 04/01/16 12:36 | 1 |
| methyl isobutyl ketone | <6.0 | | 6.0 | 1.2 | ug/Kg | ☼ | | 04/01/16 12:36 | 1 |
| Methyl tert-butyl ether | <6.0 | | 6.0 | 1.4 | ug/Kg | ☼ | | 04/01/16 12:36 | 1 |
| Styrene | <6.0 | | 6.0 | 1.4 | ug/Kg | ☼ | | 04/01/16 12:36 | 1 |
| 1,1,2,2-Tetrachloroethane | <6.0 | | 6.0 | 0.95 | ug/Kg | ☼ | | 04/01/16 12:36 | 1 |
| Tetrachloroethene | <6.0 | | 6.0 | 1.2 | ug/Kg | ☼ | | 04/01/16 12:36 | 1 |
| Toluene | <6.0 | | 6.0 | 2.1 | ug/Kg | ☼ | | 04/01/16 12:36 | 1 |
| trans-1,2-Dichloroethene | <6.0 | | 6.0 | 1.5 | ug/Kg | ☼ | | 04/01/16 12:36 | 1 |
| trans-1,3-Dichloropropene | <6.0 | | 6.0 | 1.7 | ug/Kg | ☼ | | 04/01/16 12:36 | 1 |
| 1,1,1-Trichloroethane | <6.0 | | 6.0 | 1.4 | ug/Kg | ☼ | | 04/01/16 12:36 | 1 |
| 1,1,2-Trichloroethane | <6.0 | | 6.0 | 1.2 | ug/Kg | ☼ | | 04/01/16 12:36 | 1 |
| Trichloroethene | <6.0 | | 6.0 | 1.6 | ug/Kg | ☼ | | 04/01/16 12:36 | 1 |
| Vinyl chloride | <6.0 | | 6.0 | 1.4 | ug/Kg | ☼ | | 04/01/16 12:36 | 1 |
| Xylenes, Total | <12 | | 12 | 2.2 | ug/Kg | ☼ | | 04/01/16 12:36 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 106 | | 70 - 120 | | 04/01/16 12:36 | 1 |
| Dibromofluoromethane | 115 | | 75 - 120 | | 04/01/16 12:36 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 117 | | 69 - 134 | | 04/01/16 12:36 | 1 |
| Toluene-d8 (Surr) | 114 | | 75 - 123 | | 04/01/16 12:36 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,2,4-Trichlorobenzene | <190 | | 190 | 41 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:37 | 1 |
| 1,2-Dichlorobenzene | <190 | | 190 | 45 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:37 | 1 |
| 1,3-Dichlorobenzene | <190 | | 190 | 43 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:37 | 1 |
| 1,4-Dichlorobenzene | <190 | | 190 | 49 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:37 | 1 |
| 2,2'-oxybis[1-chloropropane] | <190 | | 190 | 44 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:37 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109414-1

Client Sample ID: PM-4(0-4)-032916

Lab Sample ID: 500-109414-2

Date Collected: 03/29/16 13:15

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 83.5

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|------------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol | <380 | | 380 | 87 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:37 | 1 |
| 2,4,6-Trichlorophenol | <380 | | 380 | 130 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:37 | 1 |
| 2,4-Dichlorophenol | <380 | | 380 | 90 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:37 | 1 |
| 2,4-Dimethylphenol | <380 | | 380 | 140 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:37 | 1 |
| 2,4-Dinitrophenol | <770 | | 770 | 670 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:37 | 1 |
| 2,4-Dinitrotoluene | <190 | | 190 | 60 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:37 | 1 |
| 2,6-Dinitrotoluene | <190 | | 190 | 75 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:37 | 1 |
| 2-Chloronaphthalene | <190 | | 190 | 42 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:37 | 1 |
| 2-Chlorophenol | <190 | | 190 | 65 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:37 | 1 |
| 2-Methylnaphthalene | 9.0 | J | 38 | 7.0 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:37 | 1 |
| 2-Methylphenol | <190 | | 190 | 61 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:37 | 1 |
| 2-Nitroaniline | <190 | | 190 | 51 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:37 | 1 |
| 2-Nitrophenol | <380 | | 380 | 90 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:37 | 1 |
| 3 & 4 Methylphenol | <190 | | 190 | 63 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:37 | 1 |
| 3,3'-Dichlorobenzidine | <190 | | 190 | 53 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:37 | 1 |
| 3-Nitroaniline | <380 | | 380 | 120 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:37 | 1 |
| 4,6-Dinitro-2-methylphenol | <770 | | 770 | 310 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:37 | 1 |
| 4-Bromophenyl phenyl ether | <190 | | 190 | 50 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:37 | 1 |
| 4-Chloro-3-methylphenol | <380 | | 380 | 130 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:37 | 1 |
| 4-Chloroaniline | <770 | | 770 | 180 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:37 | 1 |
| 4-Chlorophenyl phenyl ether | <190 | | 190 | 44 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:37 | 1 |
| 4-Nitroaniline | <380 | | 380 | 160 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:37 | 1 |
| 4-Nitrophenol | <770 | | 770 | 360 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:37 | 1 |
| Acenaphthene | 8.7 | J | 38 | 6.8 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:37 | 1 |
| Acenaphthylene | 5.7 | J | 38 | 5.0 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:37 | 1 |
| Anthracene | 19 | J | 38 | 6.4 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:37 | 1 |
| Benzo[a]anthracene | 100 | | 38 | 5.1 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:37 | 1 |
| Benzo[a]pyrene | 95 | | 38 | 7.4 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:37 | 1 |
| Benzo[b]fluoranthene | 170 | | 38 | 8.2 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:37 | 1 |
| Benzo[g,h,i]perylene | 40 | | 38 | 12 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:37 | 1 |
| Benzo[k]fluoranthene | 86 | | 38 | 11 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:37 | 1 |
| Bis(2-chloroethoxy)methane | <190 | | 190 | 39 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:37 | 1 |
| Bis(2-chloroethyl)ether | <190 | | 190 | 57 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:37 | 1 |
| Bis(2-ethylhexyl) phthalate | <190 | | 190 | 69 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:37 | 1 |
| Butyl benzyl phthalate | <190 | | 190 | 72 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:37 | 1 |
| Carbazole | <190 | | 190 | 95 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:37 | 1 |
| Chrysene | 120 | | 38 | 10 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:37 | 1 |
| Dibenz(a,h)anthracene | <38 | | 38 | 7.3 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:37 | 1 |
| Dibenzofuran | <190 | | 190 | 45 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:37 | 1 |
| Diethyl phthalate | <190 | | 190 | 64 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:37 | 1 |
| Dimethyl phthalate | <190 | | 190 | 50 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:37 | 1 |
| Di-n-butyl phthalate | <190 | | 190 | 58 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:37 | 1 |
| Di-n-octyl phthalate | <190 | | 190 | 62 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:37 | 1 |
| Fluoranthene | 210 | | 38 | 7.1 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:37 | 1 |
| Fluorene | 8.8 | J | 38 | 5.3 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:37 | 1 |
| Hexachlorobenzene | <77 | | 77 | 8.8 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:37 | 1 |
| Hexachlorobutadiene | <190 | | 190 | 60 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:37 | 1 |
| Hexachlorocyclopentadiene | <770 | | 770 | 220 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:37 | 1 |
| Hexachloroethane | <190 | | 190 | 58 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:37 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109414-1

Client Sample ID: PM-4(0-4)-032916

Lab Sample ID: 500-109414-2

Date Collected: 03/29/16 13:15

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 83.5

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|------------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Indeno[1,2,3-cd]pyrene | 42 | | 38 | 9.9 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:37 | 1 |
| Isophorone | <190 | | 190 | 43 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:37 | 1 |
| Naphthalene | <38 | | 38 | 5.8 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:37 | 1 |
| Nitrobenzene | <38 | | 38 | 9.5 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:37 | 1 |
| N-Nitrosodi-n-propylamine | <77 | | 77 | 46 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:37 | 1 |
| N-Nitrosodiphenylamine | <190 | | 190 | 45 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:37 | 1 |
| Pentachlorophenol | <770 | | 770 | 610 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:37 | 1 |
| Phenanthrene | 130 | | 38 | 5.3 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:37 | 1 |
| Phenol | <190 | | 190 | 84 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:37 | 1 |
| Pyrene | 190 | | 38 | 7.6 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 04:37 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2,4,6-Tribromophenol | 104 | | 25 - 130 | | | | 03/30/16 07:12 | 04/05/16 04:37 | 1 |
| 2-Fluorobiphenyl | 77 | | 42 - 115 | | | | 03/30/16 07:12 | 04/05/16 04:37 | 1 |
| 2-Fluorophenol | 67 | | 40 - 130 | | | | 03/30/16 07:12 | 04/05/16 04:37 | 1 |
| Nitrobenzene-d5 | 68 | | 33 - 124 | | | | 03/30/16 07:12 | 04/05/16 04:37 | 1 |
| Phenol-d5 | 71 | | 36 - 123 | | | | 03/30/16 07:12 | 04/05/16 04:37 | 1 |
| Terphenyl-d14 | 92 | | 25 - 150 | | | | 03/30/16 07:12 | 04/05/16 04:37 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|-------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.050 | | 0.050 | 0.010 | mg/L | | 04/01/16 14:15 | 04/02/16 19:36 | 1 |
| Barium | 0.30 | J | 0.50 | 0.050 | mg/L | | 04/01/16 14:15 | 04/02/16 19:36 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 04/01/16 14:15 | 04/02/16 19:36 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/01/16 14:15 | 04/02/16 19:36 | 1 |
| Chromium | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:15 | 04/02/16 19:36 | 1 |
| Cobalt | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:15 | 04/02/16 19:36 | 1 |
| Copper | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:15 | 04/02/16 19:36 | 1 |
| Iron | <0.40 | | 0.40 | 0.20 | mg/L | | 04/01/16 14:15 | 04/02/16 19:36 | 1 |
| Lead | <0.0075 | | 0.0075 | 0.0075 | mg/L | | 04/01/16 14:15 | 04/02/16 19:36 | 1 |
| Manganese | 0.37 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:15 | 04/02/16 19:36 | 1 |
| Nickel | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:15 | 04/02/16 19:36 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/01/16 14:15 | 04/02/16 19:36 | 1 |
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:15 | 04/02/16 19:36 | 1 |
| Zinc | 0.10 | J | 0.50 | 0.020 | mg/L | | 04/01/16 14:15 | 04/02/16 19:36 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|---------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.098 | | 0.050 | 0.010 | mg/L | | 04/01/16 09:30 | 04/02/16 00:12 | 1 |
| Barium | 0.59 | | 0.50 | 0.050 | mg/L | | 04/01/16 09:30 | 04/02/16 00:12 | 1 |
| Beryllium | 0.0077 | | 0.0040 | 0.0040 | mg/L | | 04/01/16 09:30 | 04/02/16 00:12 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/01/16 09:30 | 04/02/16 00:12 | 1 |
| Chromium | 0.18 | | 0.025 | 0.010 | mg/L | | 04/01/16 09:30 | 04/02/16 00:12 | 1 |
| Cobalt | 0.066 | | 0.025 | 0.010 | mg/L | | 04/01/16 09:30 | 04/02/16 00:12 | 1 |
| Copper | 0.21 | | 0.025 | 0.010 | mg/L | | 04/01/16 09:30 | 04/02/16 00:12 | 1 |
| Iron | 220 | | 0.40 | 0.20 | mg/L | | 04/01/16 09:30 | 04/02/16 00:12 | 1 |
| Lead | 0.39 | | 0.0075 | 0.0075 | mg/L | | 04/01/16 09:30 | 04/02/16 00:12 | 1 |
| Manganese | 0.87 | | 0.025 | 0.010 | mg/L | | 04/01/16 09:30 | 04/02/16 00:12 | 1 |
| Nickel | 0.21 | | 0.025 | 0.010 | mg/L | | 04/01/16 09:30 | 04/02/16 00:12 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/01/16 09:30 | 04/02/16 00:12 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109414-1

Client Sample ID: PM-4(0-4)-032916

Lab Sample ID: 500-109414-2

Date Collected: 03/29/16 13:15

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 83.5

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|------------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 09:30 | 04/02/16 00:12 | 1 |
| Zinc | 1.0 | | 0.50 | 0.020 | mg/L | | 04/01/16 09:30 | 04/02/16 00:12 | 1 |

Method: 6010B - Total Metals

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | <1.1 | | 1.1 | 0.22 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 17:57 | 1 |
| Arsenic | 10 | | 0.53 | 0.25 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 17:57 | 1 |
| Barium | 61 | B | 0.53 | 0.098 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 17:57 | 1 |
| Beryllium | 0.75 | | 0.21 | 0.046 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 17:57 | 1 |
| Cadmium | 0.22 | | 0.11 | 0.031 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 17:57 | 1 |
| Calcium | 6100 | B | 11 | 3.4 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 17:57 | 1 |
| Chromium | 20 | | 0.53 | 0.092 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 17:57 | 1 |
| Cobalt | 12 | | 0.27 | 0.060 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 17:57 | 1 |
| Copper | 32 | | 0.53 | 0.12 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 17:57 | 1 |
| Iron | 23000 | B | 11 | 4.1 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 17:57 | 1 |
| Lead | 57 | | 0.27 | 0.13 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 17:57 | 1 |
| Magnesium | 6300 | | 5.3 | 2.2 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 17:57 | 1 |
| Manganese | 190 | | 0.53 | 0.11 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 17:57 | 1 |
| Nickel | 36 | | 0.53 | 0.14 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 17:57 | 1 |
| Potassium | 2000 | | 27 | 4.4 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 17:57 | 1 |
| Selenium | 1.0 | | 0.53 | 0.26 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 17:57 | 1 |
| Silver | <0.27 | | 0.27 | 0.062 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 17:57 | 1 |
| Sodium | 1000 | B | 53 | 7.0 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 17:57 | 1 |
| Thallium | 0.31 | J | 0.53 | 0.26 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 17:57 | 1 |
| Vanadium | 22 | | 0.27 | 0.078 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 17:57 | 1 |
| Zinc | 120 | | 1.1 | 0.34 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 17:57 | 1 |

Method: 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/01/16 15:45 | 04/04/16 11:44 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/01/16 15:45 | 04/04/16 11:15 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Mercury | 84 | | 18 | 9.2 | ug/Kg | ☼ | 03/31/16 15:20 | 04/01/16 12:07 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-------------|-----------|-------|-------|------|---|----------|----------------|---------|
| pH | 8.44 | | 0.200 | 0.200 | SU | | | 03/31/16 12:16 | 1 |

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109414-1

Client Sample ID: PM-4(4-7.7)-032916

Lab Sample ID: 500-109414-3

Date Collected: 03/29/16 13:20

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 84.7

Method: 8260B - VOC

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Acetone | <24 | | 24 | 4.6 | ug/Kg | ☼ | | 04/01/16 13:00 | 1 |
| Benzene | <5.9 | | 5.9 | 1.3 | ug/Kg | ☼ | | 04/01/16 13:00 | 1 |
| Bromodichloromethane | <5.9 | | 5.9 | 1.0 | ug/Kg | ☼ | | 04/01/16 13:00 | 1 |
| Bromoform | <5.9 | | 5.9 | 1.2 | ug/Kg | ☼ | | 04/01/16 13:00 | 1 |
| Bromomethane | <5.9 | | 5.9 | 2.2 | ug/Kg | ☼ | | 04/01/16 13:00 | 1 |
| Carbon disulfide | <5.9 | | 5.9 | 2.2 | ug/Kg | ☼ | | 04/01/16 13:00 | 1 |
| Carbon tetrachloride | <5.9 | | 5.9 | 1.3 | ug/Kg | ☼ | | 04/01/16 13:00 | 1 |
| Chlorobenzene | <5.9 | | 5.9 | 1.4 | ug/Kg | ☼ | | 04/01/16 13:00 | 1 |
| Chloroethane | <5.9 | | 5.9 | 2.5 | ug/Kg | ☼ | | 04/01/16 13:00 | 1 |
| Chloroform | <5.9 | | 5.9 | 1.2 | ug/Kg | ☼ | | 04/01/16 13:00 | 1 |
| Chloromethane | <5.9 | | 5.9 | 1.4 | ug/Kg | ☼ | | 04/01/16 13:00 | 1 |
| cis-1,2-Dichloroethene | <5.9 | | 5.9 | 1.2 | ug/Kg | ☼ | | 04/01/16 13:00 | 1 |
| cis-1,3-Dichloropropene | <5.9 | | 5.9 | 1.3 | ug/Kg | ☼ | | 04/01/16 13:00 | 1 |
| Dibromochloromethane | <5.9 | | 5.9 | 0.68 | ug/Kg | ☼ | | 04/01/16 13:00 | 1 |
| 1,1-Dichloroethane | <5.9 | | 5.9 | 1.2 | ug/Kg | ☼ | | 04/01/16 13:00 | 1 |
| 1,2-Dichloroethane | <5.9 | | 5.9 | 0.88 | ug/Kg | ☼ | | 04/01/16 13:00 | 1 |
| 1,1-Dichloroethene | <5.9 | | 5.9 | 2.1 | ug/Kg | ☼ | | 04/01/16 13:00 | 1 |
| 1,2-Dichloropropane | <5.9 | | 5.9 | 1.5 | ug/Kg | ☼ | | 04/01/16 13:00 | 1 |
| 1,3-Dichloropropene, Total | <5.9 | | 5.9 | 1.7 | ug/Kg | ☼ | | 04/01/16 13:00 | 1 |
| Ethylbenzene | <5.9 | | 5.9 | 1.5 | ug/Kg | ☼ | | 04/01/16 13:00 | 1 |
| 2-Hexanone | <5.9 | | 5.9 | 1.8 | ug/Kg | ☼ | | 04/01/16 13:00 | 1 |
| Methylene Chloride | <5.9 | | 5.9 | 4.5 | ug/Kg | ☼ | | 04/01/16 13:00 | 1 |
| Methyl Ethyl Ketone | <5.9 | | 5.9 | 2.1 | ug/Kg | ☼ | | 04/01/16 13:00 | 1 |
| methyl isobutyl ketone | <5.9 | | 5.9 | 1.2 | ug/Kg | ☼ | | 04/01/16 13:00 | 1 |
| Methyl tert-butyl ether | <5.9 | | 5.9 | 1.4 | ug/Kg | ☼ | | 04/01/16 13:00 | 1 |
| Styrene | <5.9 | | 5.9 | 1.4 | ug/Kg | ☼ | | 04/01/16 13:00 | 1 |
| 1,1,2,2-Tetrachloroethane | <5.9 | | 5.9 | 0.94 | ug/Kg | ☼ | | 04/01/16 13:00 | 1 |
| Tetrachloroethene | <5.9 | | 5.9 | 1.2 | ug/Kg | ☼ | | 04/01/16 13:00 | 1 |
| Toluene | <5.9 | | 5.9 | 2.1 | ug/Kg | ☼ | | 04/01/16 13:00 | 1 |
| trans-1,2-Dichloroethene | <5.9 | | 5.9 | 1.5 | ug/Kg | ☼ | | 04/01/16 13:00 | 1 |
| trans-1,3-Dichloropropene | <5.9 | | 5.9 | 1.7 | ug/Kg | ☼ | | 04/01/16 13:00 | 1 |
| 1,1,1-Trichloroethane | <5.9 | | 5.9 | 1.4 | ug/Kg | ☼ | | 04/01/16 13:00 | 1 |
| 1,1,2-Trichloroethane | <5.9 | | 5.9 | 1.1 | ug/Kg | ☼ | | 04/01/16 13:00 | 1 |
| Trichloroethene | <5.9 | | 5.9 | 1.6 | ug/Kg | ☼ | | 04/01/16 13:00 | 1 |
| Vinyl chloride | <5.9 | | 5.9 | 1.4 | ug/Kg | ☼ | | 04/01/16 13:00 | 1 |
| Xylenes, Total | <12 | | 12 | 2.2 | ug/Kg | ☼ | | 04/01/16 13:00 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 104 | | 70 - 120 | | 04/01/16 13:00 | 1 |
| Dibromofluoromethane | 112 | | 75 - 120 | | 04/01/16 13:00 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 115 | | 69 - 134 | | 04/01/16 13:00 | 1 |
| Toluene-d8 (Surr) | 116 | | 75 - 123 | | 04/01/16 13:00 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,2,4-Trichlorobenzene | <190 | | 190 | 40 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:05 | 1 |
| 1,2-Dichlorobenzene | <190 | | 190 | 44 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:05 | 1 |
| 1,3-Dichlorobenzene | <190 | | 190 | 41 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:05 | 1 |
| 1,4-Dichlorobenzene | <190 | | 190 | 47 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:05 | 1 |
| 2,2'-oxybis[1-chloropropane] | <190 | | 190 | 43 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:05 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109414-1

Client Sample ID: PM-4(4-7.7)-032916

Lab Sample ID: 500-109414-3

Date Collected: 03/29/16 13:20

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 84.7

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol | <370 | | 370 | 84 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:05 | 1 |
| 2,4,6-Trichlorophenol | <370 | | 370 | 130 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:05 | 1 |
| 2,4-Dichlorophenol | <370 | | 370 | 87 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:05 | 1 |
| 2,4-Dimethylphenol | <370 | | 370 | 140 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:05 | 1 |
| 2,4-Dinitrophenol | <740 | | 740 | 650 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:05 | 1 |
| 2,4-Dinitrotoluene | <190 | | 190 | 59 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:05 | 1 |
| 2,6-Dinitrotoluene | <190 | | 190 | 72 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:05 | 1 |
| 2-Chloronaphthalene | <190 | | 190 | 41 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:05 | 1 |
| 2-Chlorophenol | <190 | | 190 | 63 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:05 | 1 |
| 2-Methylnaphthalene | <37 | | 37 | 6.8 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:05 | 1 |
| 2-Methylphenol | <190 | | 190 | 59 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:05 | 1 |
| 2-Nitroaniline | <190 | | 190 | 50 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:05 | 1 |
| 2-Nitrophenol | <370 | | 370 | 87 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:05 | 1 |
| 3 & 4 Methylphenol | <190 | | 190 | 61 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:05 | 1 |
| 3,3'-Dichlorobenzidine | <190 | | 190 | 52 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:05 | 1 |
| 3-Nitroaniline | <370 | | 370 | 110 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:05 | 1 |
| 4,6-Dinitro-2-methylphenol | <740 | | 740 | 300 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:05 | 1 |
| 4-Bromophenyl phenyl ether | <190 | | 190 | 49 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:05 | 1 |
| 4-Chloro-3-methylphenol | <370 | | 370 | 130 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:05 | 1 |
| 4-Chloroaniline | <740 | | 740 | 170 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:05 | 1 |
| 4-Chlorophenyl phenyl ether | <190 | | 190 | 43 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:05 | 1 |
| 4-Nitroaniline | <370 | | 370 | 150 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:05 | 1 |
| 4-Nitrophenol | <740 | | 740 | 350 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:05 | 1 |
| Acenaphthene | <37 | | 37 | 6.6 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:05 | 1 |
| Acenaphthylene | <37 | | 37 | 4.9 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:05 | 1 |
| Anthracene | <37 | | 37 | 6.2 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:05 | 1 |
| Benzo[a]anthracene | <37 | | 37 | 5.0 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:05 | 1 |
| Benzo[a]pyrene | <37 | | 37 | 7.1 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:05 | 1 |
| Benzo[b]fluoranthene | <37 | | 37 | 7.9 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:05 | 1 |
| Benzo[g,h,i]perylene | <37 | | 37 | 12 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:05 | 1 |
| Benzo[k]fluoranthene | <37 | | 37 | 11 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:05 | 1 |
| Bis(2-chloroethoxy)methane | <190 | | 190 | 38 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:05 | 1 |
| Bis(2-chloroethyl)ether | <190 | | 190 | 55 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:05 | 1 |
| Bis(2-ethylhexyl) phthalate | <190 | | 190 | 67 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:05 | 1 |
| Butyl benzyl phthalate | <190 | | 190 | 70 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:05 | 1 |
| Carbazole | <190 | | 190 | 92 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:05 | 1 |
| Chrysene | <37 | | 37 | 10 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:05 | 1 |
| Dibenz(a,h)anthracene | <37 | | 37 | 7.1 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:05 | 1 |
| Dibenzofuran | <190 | | 190 | 43 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:05 | 1 |
| Diethyl phthalate | <190 | | 190 | 62 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:05 | 1 |
| Dimethyl phthalate | <190 | | 190 | 48 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:05 | 1 |
| Di-n-butyl phthalate | <190 | | 190 | 56 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:05 | 1 |
| Di-n-octyl phthalate | <190 | | 190 | 60 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:05 | 1 |
| Fluoranthene | <37 | | 37 | 6.8 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:05 | 1 |
| Fluorene | <37 | | 37 | 5.2 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:05 | 1 |
| Hexachlorobenzene | <74 | | 74 | 8.5 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:05 | 1 |
| Hexachlorobutadiene | <190 | | 190 | 58 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:05 | 1 |
| Hexachlorocyclopentadiene | <740 | | 740 | 210 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:05 | 1 |
| Hexachloroethane | <190 | | 190 | 56 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:05 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109414-1

Client Sample ID: PM-4(4-7.7)-032916

Lab Sample ID: 500-109414-3

Date Collected: 03/29/16 13:20

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 84.7

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Indeno[1,2,3-cd]pyrene | <37 | | 37 | 9.5 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:05 | 1 |
| Isophorone | <190 | | 190 | 41 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:05 | 1 |
| Naphthalene | <37 | | 37 | 5.7 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:05 | 1 |
| Nitrobenzene | <37 | | 37 | 9.2 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:05 | 1 |
| N-Nitrosodi-n-propylamine | <74 | | 74 | 45 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:05 | 1 |
| N-Nitrosodiphenylamine | <190 | | 190 | 43 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:05 | 1 |
| Pentachlorophenol | <740 | | 740 | 590 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:05 | 1 |
| Phenanthrene | 12 | J | 37 | 5.1 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:05 | 1 |
| Phenol | <190 | | 190 | 82 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:05 | 1 |
| Pyrene | 12 | J | 37 | 7.3 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:05 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2,4,6-Tribromophenol | 119 | | 25 - 130 | | | | 03/30/16 07:12 | 04/05/16 05:05 | 1 |
| 2-Fluorobiphenyl | 119 | X | 42 - 115 | | | | 03/30/16 07:12 | 04/05/16 05:05 | 1 |
| 2-Fluorophenol | 60 | | 40 - 130 | | | | 03/30/16 07:12 | 04/05/16 05:05 | 1 |
| Nitrobenzene-d5 | 67 | | 33 - 124 | | | | 03/30/16 07:12 | 04/05/16 05:05 | 1 |
| Phenol-d5 | 63 | | 36 - 123 | | | | 03/30/16 07:12 | 04/05/16 05:05 | 1 |
| Terphenyl-d14 | 85 | | 25 - 150 | | | | 03/30/16 07:12 | 04/05/16 05:05 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.050 | | 0.050 | 0.010 | mg/L | | 04/01/16 14:15 | 04/02/16 19:41 | 1 |
| Barium | 0.17 | J | 0.50 | 0.050 | mg/L | | 04/01/16 14:15 | 04/02/16 19:41 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 04/01/16 14:15 | 04/02/16 19:41 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/01/16 14:15 | 04/02/16 19:41 | 1 |
| Chromium | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:15 | 04/02/16 19:41 | 1 |
| Cobalt | 0.016 | J | 0.025 | 0.010 | mg/L | | 04/01/16 14:15 | 04/02/16 19:41 | 1 |
| Copper | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:15 | 04/02/16 19:41 | 1 |
| Iron | <0.40 | | 0.40 | 0.20 | mg/L | | 04/01/16 14:15 | 04/02/16 19:41 | 1 |
| Lead | <0.0075 | | 0.0075 | 0.0075 | mg/L | | 04/01/16 14:15 | 04/02/16 19:41 | 1 |
| Manganese | 2.4 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:15 | 04/02/16 19:41 | 1 |
| Nickel | 0.033 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:15 | 04/02/16 19:41 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/01/16 14:15 | 04/02/16 19:41 | 1 |
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:15 | 04/02/16 19:41 | 1 |
| Zinc | <0.50 | | 0.50 | 0.020 | mg/L | | 04/01/16 14:15 | 04/02/16 19:41 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.034 | J | 0.050 | 0.010 | mg/L | | 04/01/16 09:30 | 04/02/16 00:17 | 1 |
| Barium | 0.14 | J | 0.50 | 0.050 | mg/L | | 04/01/16 09:30 | 04/02/16 00:17 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 04/01/16 09:30 | 04/02/16 00:17 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/01/16 09:30 | 04/02/16 00:17 | 1 |
| Chromium | 0.066 | | 0.025 | 0.010 | mg/L | | 04/01/16 09:30 | 04/02/16 00:17 | 1 |
| Cobalt | 0.022 | J | 0.025 | 0.010 | mg/L | | 04/01/16 09:30 | 04/02/16 00:17 | 1 |
| Copper | 0.085 | | 0.025 | 0.010 | mg/L | | 04/01/16 09:30 | 04/02/16 00:17 | 1 |
| Iron | 81 | | 0.40 | 0.20 | mg/L | | 04/01/16 09:30 | 04/02/16 00:17 | 1 |
| Lead | 0.051 | | 0.0075 | 0.0075 | mg/L | | 04/01/16 09:30 | 04/02/16 00:17 | 1 |
| Manganese | 0.37 | | 0.025 | 0.010 | mg/L | | 04/01/16 09:30 | 04/02/16 00:17 | 1 |
| Nickel | 0.079 | | 0.025 | 0.010 | mg/L | | 04/01/16 09:30 | 04/02/16 00:17 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/01/16 09:30 | 04/02/16 00:17 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109414-1

Client Sample ID: PM-4(4-7.7)-032916

Lab Sample ID: 500-109414-3

Date Collected: 03/29/16 13:20

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 84.7

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|-------------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 09:30 | 04/02/16 00:17 | 1 |
| Zinc | 0.16 | J | 0.50 | 0.020 | mg/L | | 04/01/16 09:30 | 04/02/16 00:17 | 1 |

Method: 6010B - Total Metals

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | <1.1 | | 1.1 | 0.23 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:02 | 1 |
| Arsenic | 10 | | 0.56 | 0.26 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:02 | 1 |
| Barium | 38 | B | 0.56 | 0.10 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:02 | 1 |
| Beryllium | 0.42 | | 0.22 | 0.049 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:02 | 1 |
| Cadmium | <0.11 | | 0.11 | 0.032 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:02 | 1 |
| Calcium | 33000 | B | 11 | 3.6 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:02 | 1 |
| Chromium | 13 | | 0.56 | 0.096 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:02 | 1 |
| Cobalt | 14 | | 0.28 | 0.063 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:02 | 1 |
| Copper | 21 | | 0.56 | 0.12 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:02 | 1 |
| Iron | 20000 | B | 11 | 4.3 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:02 | 1 |
| Lead | 14 | | 0.28 | 0.14 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:02 | 1 |
| Magnesium | 22000 | | 5.6 | 2.3 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:02 | 1 |
| Manganese | 570 | | 0.56 | 0.11 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:02 | 1 |
| Nickel | 31 | | 0.56 | 0.15 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:02 | 1 |
| Potassium | 2000 | | 28 | 4.6 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:02 | 1 |
| Selenium | 0.99 | | 0.56 | 0.28 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:02 | 1 |
| Silver | <0.28 | | 0.28 | 0.066 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:02 | 1 |
| Sodium | 360 | B | 56 | 7.4 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:02 | 1 |
| Thallium | 0.46 | J | 0.56 | 0.28 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:02 | 1 |
| Vanadium | 14 | | 0.28 | 0.082 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:02 | 1 |
| Zinc | 45 | | 1.1 | 0.35 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:02 | 1 |

Method: 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/01/16 15:45 | 04/04/16 11:50 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/01/16 15:45 | 04/04/16 11:21 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Mercury | 22 | | 17 | 9.0 | ug/Kg | ☼ | 03/31/16 15:20 | 04/01/16 12:09 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-------------|-----------|-------|-------|------|---|----------|----------------|---------|
| pH | 7.87 | | 0.200 | 0.200 | SU | | | 03/31/16 12:20 | 1 |

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109414-1

Client Sample ID: PM-5(0-4)-032916

Lab Sample ID: 500-109414-4

Date Collected: 03/29/16 13:40

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 82.0

Method: 8260B - VOC

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Acetone | <24 | | 24 | 4.7 | ug/Kg | ☼ | | 04/01/16 13:25 | 1 |
| Benzene | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 04/01/16 13:25 | 1 |
| Bromodichloromethane | <6.1 | | 6.1 | 1.0 | ug/Kg | ☼ | | 04/01/16 13:25 | 1 |
| Bromoform | <6.1 | | 6.1 | 1.2 | ug/Kg | ☼ | | 04/01/16 13:25 | 1 |
| Bromomethane | <6.1 | | 6.1 | 2.2 | ug/Kg | ☼ | | 04/01/16 13:25 | 1 |
| Carbon disulfide | <6.1 | | 6.1 | 2.2 | ug/Kg | ☼ | | 04/01/16 13:25 | 1 |
| Carbon tetrachloride | <6.1 | | 6.1 | 1.3 | ug/Kg | ☼ | | 04/01/16 13:25 | 1 |
| Chlorobenzene | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 04/01/16 13:25 | 1 |
| Chloroethane | <6.1 | | 6.1 | 2.6 | ug/Kg | ☼ | | 04/01/16 13:25 | 1 |
| Chloroform | <6.1 | | 6.1 | 1.2 | ug/Kg | ☼ | | 04/01/16 13:25 | 1 |
| Chloromethane | <6.1 | | 6.1 | 1.5 | ug/Kg | ☼ | | 04/01/16 13:25 | 1 |
| cis-1,2-Dichloroethene | <6.1 | | 6.1 | 1.2 | ug/Kg | ☼ | | 04/01/16 13:25 | 1 |
| cis-1,3-Dichloropropene | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 04/01/16 13:25 | 1 |
| Dibromochloromethane | <6.1 | | 6.1 | 0.70 | ug/Kg | ☼ | | 04/01/16 13:25 | 1 |
| 1,1-Dichloroethane | <6.1 | | 6.1 | 1.3 | ug/Kg | ☼ | | 04/01/16 13:25 | 1 |
| 1,2-Dichloroethane | <6.1 | | 6.1 | 0.90 | ug/Kg | ☼ | | 04/01/16 13:25 | 1 |
| 1,1-Dichloroethene | <6.1 | | 6.1 | 2.2 | ug/Kg | ☼ | | 04/01/16 13:25 | 1 |
| 1,2-Dichloropropane | <6.1 | | 6.1 | 1.6 | ug/Kg | ☼ | | 04/01/16 13:25 | 1 |
| 1,3-Dichloropropene, Total | <6.1 | | 6.1 | 1.7 | ug/Kg | ☼ | | 04/01/16 13:25 | 1 |
| Ethylbenzene | <6.1 | | 6.1 | 1.5 | ug/Kg | ☼ | | 04/01/16 13:25 | 1 |
| 2-Hexanone | <6.1 | | 6.1 | 1.9 | ug/Kg | ☼ | | 04/01/16 13:25 | 1 |
| Methylene Chloride | <6.1 | | 6.1 | 4.6 | ug/Kg | ☼ | | 04/01/16 13:25 | 1 |
| Methyl Ethyl Ketone | <6.1 | | 6.1 | 2.2 | ug/Kg | ☼ | | 04/01/16 13:25 | 1 |
| methyl isobutyl ketone | <6.1 | | 6.1 | 1.3 | ug/Kg | ☼ | | 04/01/16 13:25 | 1 |
| Methyl tert-butyl ether | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 04/01/16 13:25 | 1 |
| Styrene | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 04/01/16 13:25 | 1 |
| 1,1,2,2-Tetrachloroethane | <6.1 | | 6.1 | 0.97 | ug/Kg | ☼ | | 04/01/16 13:25 | 1 |
| Tetrachloroethene | <6.1 | | 6.1 | 1.3 | ug/Kg | ☼ | | 04/01/16 13:25 | 1 |
| Toluene | <6.1 | | 6.1 | 2.1 | ug/Kg | ☼ | | 04/01/16 13:25 | 1 |
| trans-1,2-Dichloroethene | <6.1 | | 6.1 | 1.5 | ug/Kg | ☼ | | 04/01/16 13:25 | 1 |
| trans-1,3-Dichloropropene | <6.1 | | 6.1 | 1.7 | ug/Kg | ☼ | | 04/01/16 13:25 | 1 |
| 1,1,1-Trichloroethane | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 04/01/16 13:25 | 1 |
| 1,1,2-Trichloroethane | <6.1 | | 6.1 | 1.2 | ug/Kg | ☼ | | 04/01/16 13:25 | 1 |
| Trichloroethene | <6.1 | | 6.1 | 1.6 | ug/Kg | ☼ | | 04/01/16 13:25 | 1 |
| Vinyl chloride | <6.1 | | 6.1 | 1.5 | ug/Kg | ☼ | | 04/01/16 13:25 | 1 |
| Xylenes, Total | <12 | | 12 | 2.3 | ug/Kg | ☼ | | 04/01/16 13:25 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 106 | | 70 - 120 | | 04/01/16 13:25 | 1 |
| Dibromofluoromethane | 116 | | 75 - 120 | | 04/01/16 13:25 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 118 | | 69 - 134 | | 04/01/16 13:25 | 1 |
| Toluene-d8 (Surr) | 115 | | 75 - 123 | | 04/01/16 13:25 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,2,4-Trichlorobenzene | <200 | | 200 | 44 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:34 | 1 |
| 1,2-Dichlorobenzene | <200 | | 200 | 48 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:34 | 1 |
| 1,3-Dichlorobenzene | <200 | | 200 | 46 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:34 | 1 |
| 1,4-Dichlorobenzene | <200 | | 200 | 52 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:34 | 1 |
| 2,2'-oxybis[1-chloropropane] | <200 | | 200 | 47 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:34 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109414-1

Client Sample ID: PM-5(0-4)-032916

Lab Sample ID: 500-109414-4

Date Collected: 03/29/16 13:40

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 82.0

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|------------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol | <400 | | 400 | 92 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:34 | 1 |
| 2,4,6-Trichlorophenol | <400 | | 400 | 140 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:34 | 1 |
| 2,4-Dichlorophenol | <400 | | 400 | 96 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:34 | 1 |
| 2,4-Dimethylphenol | <400 | | 400 | 150 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:34 | 1 |
| 2,4-Dinitrophenol | <820 | | 820 | 710 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:34 | 1 |
| 2,4-Dinitrotoluene | <200 | | 200 | 64 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:34 | 1 |
| 2,6-Dinitrotoluene | <200 | | 200 | 79 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:34 | 1 |
| 2-Chloronaphthalene | <200 | | 200 | 45 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:34 | 1 |
| 2-Chlorophenol | <200 | | 200 | 69 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:34 | 1 |
| 2-Methylnaphthalene | <40 | | 40 | 7.4 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:34 | 1 |
| 2-Methylphenol | <200 | | 200 | 65 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:34 | 1 |
| 2-Nitroaniline | <200 | | 200 | 54 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:34 | 1 |
| 2-Nitrophenol | <400 | | 400 | 96 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:34 | 1 |
| 3 & 4 Methylphenol | <200 | | 200 | 67 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:34 | 1 |
| 3,3'-Dichlorobenzidine | <200 | | 200 | 57 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:34 | 1 |
| 3-Nitroaniline | <400 | | 400 | 130 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:34 | 1 |
| 4,6-Dinitro-2-methylphenol | <820 | | 820 | 320 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:34 | 1 |
| 4-Bromophenyl phenyl ether | <200 | | 200 | 53 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:34 | 1 |
| 4-Chloro-3-methylphenol | <400 | | 400 | 140 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:34 | 1 |
| 4-Chloroaniline | <820 | | 820 | 190 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:34 | 1 |
| 4-Chlorophenyl phenyl ether | <200 | | 200 | 47 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:34 | 1 |
| 4-Nitroaniline | <400 | | 400 | 170 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:34 | 1 |
| 4-Nitrophenol | <820 | | 820 | 380 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:34 | 1 |
| Acenaphthene | <40 | | 40 | 7.3 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:34 | 1 |
| Acenaphthylene | 6.4 | J | 40 | 5.3 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:34 | 1 |
| Anthracene | 15 | J | 40 | 6.8 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:34 | 1 |
| Benzo[a]anthracene | 89 | | 40 | 5.4 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:34 | 1 |
| Benzo[a]pyrene | 120 | | 40 | 7.8 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:34 | 1 |
| Benzo[b]fluoranthene | 200 | | 40 | 8.7 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:34 | 1 |
| Benzo[g,h,i]perylene | 47 | | 40 | 13 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:34 | 1 |
| Benzo[k]fluoranthene | 92 | | 40 | 12 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:34 | 1 |
| Bis(2-chloroethoxy)methane | <200 | | 200 | 41 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:34 | 1 |
| Bis(2-chloroethyl)ether | <200 | | 200 | 61 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:34 | 1 |
| Bis(2-ethylhexyl) phthalate | <200 | | 200 | 74 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:34 | 1 |
| Butyl benzyl phthalate | <200 | | 200 | 77 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:34 | 1 |
| Carbazole | <200 | | 200 | 100 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:34 | 1 |
| Chrysene | 130 | | 40 | 11 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:34 | 1 |
| Dibenz(a,h)anthracene | <40 | | 40 | 7.8 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:34 | 1 |
| Dibenzofuran | <200 | | 200 | 47 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:34 | 1 |
| Diethyl phthalate | <200 | | 200 | 69 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:34 | 1 |
| Dimethyl phthalate | <200 | | 200 | 53 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:34 | 1 |
| Di-n-butyl phthalate | <200 | | 200 | 62 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:34 | 1 |
| Di-n-octyl phthalate | <200 | | 200 | 66 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:34 | 1 |
| Fluoranthene | 210 | | 40 | 7.5 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:34 | 1 |
| Fluorene | <40 | | 40 | 5.7 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:34 | 1 |
| Hexachlorobenzene | <82 | | 82 | 9.4 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:34 | 1 |
| Hexachlorobutadiene | <200 | | 200 | 64 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:34 | 1 |
| Hexachlorocyclopentadiene | <820 | | 820 | 230 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:34 | 1 |
| Hexachloroethane | <200 | | 200 | 61 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:34 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109414-1

Client Sample ID: PM-5(0-4)-032916

Lab Sample ID: 500-109414-4

Date Collected: 03/29/16 13:40

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 82.0

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| Indeno[1,2,3-cd]pyrene | 51 | | 40 | 10 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:34 | 1 |
| Isophorone | <200 | | 200 | 45 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:34 | 1 |
| Naphthalene | <40 | | 40 | 6.2 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:34 | 1 |
| Nitrobenzene | <40 | | 40 | 10 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:34 | 1 |
| N-Nitrosodi-n-propylamine | <82 | | 82 | 49 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:34 | 1 |
| N-Nitrosodiphenylamine | <200 | | 200 | 48 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:34 | 1 |
| Pentachlorophenol | <820 | | 820 | 650 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:34 | 1 |
| Phenanthrene | 94 | | 40 | 5.6 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:34 | 1 |
| Phenol | <200 | | 200 | 90 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:34 | 1 |
| Pyrene | 190 | | 40 | 8.0 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 05:34 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2,4,6-Tribromophenol | 87 | | 25 - 130 | | | | 03/30/16 07:12 | 04/05/16 05:34 | 1 |
| 2-Fluorobiphenyl | 76 | | 42 - 115 | | | | 03/30/16 07:12 | 04/05/16 05:34 | 1 |
| 2-Fluorophenol | 60 | | 40 - 130 | | | | 03/30/16 07:12 | 04/05/16 05:34 | 1 |
| Nitrobenzene-d5 | 71 | | 33 - 124 | | | | 03/30/16 07:12 | 04/05/16 05:34 | 1 |
| Phenol-d5 | 65 | | 36 - 123 | | | | 03/30/16 07:12 | 04/05/16 05:34 | 1 |
| Terphenyl-d14 | 96 | | 25 - 150 | | | | 03/30/16 07:12 | 04/05/16 05:34 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.050 | | 0.050 | 0.010 | mg/L | | 04/01/16 14:15 | 04/02/16 19:55 | 1 |
| Barium | 0.24 | J | 0.50 | 0.050 | mg/L | | 04/01/16 14:15 | 04/02/16 19:55 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 04/01/16 14:15 | 04/02/16 19:55 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/01/16 14:15 | 04/02/16 19:55 | 1 |
| Chromium | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:15 | 04/02/16 19:55 | 1 |
| Cobalt | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:15 | 04/02/16 19:55 | 1 |
| Copper | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:15 | 04/02/16 19:55 | 1 |
| Iron | <0.40 | | 0.40 | 0.20 | mg/L | | 04/01/16 14:15 | 04/02/16 19:55 | 1 |
| Lead | <0.0075 | | 0.0075 | 0.0075 | mg/L | | 04/01/16 14:15 | 04/02/16 19:55 | 1 |
| Manganese | 0.20 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:15 | 04/02/16 19:55 | 1 |
| Nickel | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:15 | 04/02/16 19:55 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/01/16 14:15 | 04/02/16 19:55 | 1 |
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:15 | 04/02/16 19:55 | 1 |
| Zinc | 0.049 | J | 0.50 | 0.020 | mg/L | | 04/01/16 14:15 | 04/02/16 19:55 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|---------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.099 | | 0.050 | 0.010 | mg/L | | 04/01/16 09:30 | 04/02/16 00:21 | 1 |
| Barium | 0.57 | | 0.50 | 0.050 | mg/L | | 04/01/16 09:30 | 04/02/16 00:21 | 1 |
| Beryllium | 0.0096 | | 0.0040 | 0.0040 | mg/L | | 04/01/16 09:30 | 04/02/16 00:21 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/01/16 09:30 | 04/02/16 00:21 | 1 |
| Chromium | 0.23 | | 0.025 | 0.010 | mg/L | | 04/01/16 09:30 | 04/02/16 00:21 | 1 |
| Cobalt | 0.083 | | 0.025 | 0.010 | mg/L | | 04/01/16 09:30 | 04/02/16 00:21 | 1 |
| Copper | 0.20 | | 0.025 | 0.010 | mg/L | | 04/01/16 09:30 | 04/02/16 00:21 | 1 |
| Iron | 250 | | 0.40 | 0.20 | mg/L | | 04/01/16 09:30 | 04/02/16 00:21 | 1 |
| Lead | 0.36 | | 0.0075 | 0.0075 | mg/L | | 04/01/16 09:30 | 04/02/16 00:21 | 1 |
| Manganese | 0.84 | | 0.025 | 0.010 | mg/L | | 04/01/16 09:30 | 04/02/16 00:21 | 1 |
| Nickel | 0.28 | | 0.025 | 0.010 | mg/L | | 04/01/16 09:30 | 04/02/16 00:21 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/01/16 09:30 | 04/02/16 00:21 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109414-1

Client Sample ID: PM-5(0-4)-032916

Lab Sample ID: 500-109414-4

Date Collected: 03/29/16 13:40

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 82.0

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|-------------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 09:30 | 04/02/16 00:21 | 1 |
| Zinc | 0.92 | | 0.50 | 0.020 | mg/L | | 04/01/16 09:30 | 04/02/16 00:21 | 1 |

Method: 6010B - Total Metals

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | <1.1 | | 1.1 | 0.23 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:07 | 1 |
| Arsenic | 11 | | 0.55 | 0.25 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:07 | 1 |
| Barium | 76 | B | 0.55 | 0.10 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:07 | 1 |
| Beryllium | 0.76 | | 0.22 | 0.048 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:07 | 1 |
| Cadmium | 0.26 | | 0.11 | 0.032 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:07 | 1 |
| Calcium | 6800 | B | 11 | 3.5 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:07 | 1 |
| Chromium | 21 | | 0.55 | 0.095 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:07 | 1 |
| Cobalt | 17 | | 0.27 | 0.062 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:07 | 1 |
| Copper | 26 | | 0.55 | 0.12 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:07 | 1 |
| Iron | 26000 | B | 11 | 4.2 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:07 | 1 |
| Lead | 51 | | 0.27 | 0.14 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:07 | 1 |
| Magnesium | 6100 | | 5.5 | 2.2 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:07 | 1 |
| Manganese | 420 | | 0.55 | 0.11 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:07 | 1 |
| Nickel | 36 | | 0.55 | 0.15 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:07 | 1 |
| Potassium | 2000 | | 27 | 4.5 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:07 | 1 |
| Selenium | 1.0 | | 0.55 | 0.27 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:07 | 1 |
| Silver | <0.27 | | 0.27 | 0.064 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:07 | 1 |
| Sodium | 830 | B | 55 | 7.3 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:07 | 1 |
| Thallium | 0.33 | J | 0.55 | 0.27 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:07 | 1 |
| Vanadium | 25 | | 0.27 | 0.080 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:07 | 1 |
| Zinc | 180 | | 1.1 | 0.35 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:07 | 1 |

Method: 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/01/16 15:45 | 04/04/16 11:52 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/01/16 15:45 | 04/04/16 11:23 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Mercury | 39 | | 19 | 10 | ug/Kg | ☼ | 03/31/16 15:20 | 04/01/16 12:11 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-------------|-----------|-------|-------|------|---|----------|----------------|---------|
| pH | 8.43 | | 0.200 | 0.200 | SU | | | 03/31/16 12:24 | 1 |

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109414-1

Client Sample ID: PM-6(0-4)-032916

Lab Sample ID: 500-109414-5

Date Collected: 03/29/16 14:05

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 80.6

Method: 8260B - VOC

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Acetone | <25 | | 25 | 4.8 | ug/Kg | ☼ | | 04/01/16 13:48 | 1 |
| Benzene | <6.2 | | 6.2 | 1.4 | ug/Kg | ☼ | | 04/01/16 13:48 | 1 |
| Bromodichloromethane | <6.2 | | 6.2 | 1.0 | ug/Kg | ☼ | | 04/01/16 13:48 | 1 |
| Bromoform | <6.2 | | 6.2 | 1.3 | ug/Kg | ☼ | | 04/01/16 13:48 | 1 |
| Bromomethane | <6.2 | | 6.2 | 2.3 | ug/Kg | ☼ | | 04/01/16 13:48 | 1 |
| Carbon disulfide | <6.2 | | 6.2 | 2.3 | ug/Kg | ☼ | | 04/01/16 13:48 | 1 |
| Carbon tetrachloride | <6.2 | | 6.2 | 1.3 | ug/Kg | ☼ | | 04/01/16 13:48 | 1 |
| Chlorobenzene | <6.2 | | 6.2 | 1.5 | ug/Kg | ☼ | | 04/01/16 13:48 | 1 |
| Chloroethane | <6.2 | | 6.2 | 2.6 | ug/Kg | ☼ | | 04/01/16 13:48 | 1 |
| Chloroform | <6.2 | | 6.2 | 1.2 | ug/Kg | ☼ | | 04/01/16 13:48 | 1 |
| Chloromethane | <6.2 | | 6.2 | 1.5 | ug/Kg | ☼ | | 04/01/16 13:48 | 1 |
| cis-1,2-Dichloroethene | <6.2 | | 6.2 | 1.3 | ug/Kg | ☼ | | 04/01/16 13:48 | 1 |
| cis-1,3-Dichloropropene | <6.2 | | 6.2 | 1.4 | ug/Kg | ☼ | | 04/01/16 13:48 | 1 |
| Dibromochloromethane | <6.2 | | 6.2 | 0.71 | ug/Kg | ☼ | | 04/01/16 13:48 | 1 |
| 1,1-Dichloroethane | <6.2 | | 6.2 | 1.3 | ug/Kg | ☼ | | 04/01/16 13:48 | 1 |
| 1,2-Dichloroethane | <6.2 | | 6.2 | 0.92 | ug/Kg | ☼ | | 04/01/16 13:48 | 1 |
| 1,1-Dichloroethene | <6.2 | | 6.2 | 2.3 | ug/Kg | ☼ | | 04/01/16 13:48 | 1 |
| 1,2-Dichloropropane | <6.2 | | 6.2 | 1.6 | ug/Kg | ☼ | | 04/01/16 13:48 | 1 |
| 1,3-Dichloropropene, Total | <6.2 | | 6.2 | 1.7 | ug/Kg | ☼ | | 04/01/16 13:48 | 1 |
| Ethylbenzene | <6.2 | | 6.2 | 1.5 | ug/Kg | ☼ | | 04/01/16 13:48 | 1 |
| 2-Hexanone | <6.2 | | 6.2 | 1.9 | ug/Kg | ☼ | | 04/01/16 13:48 | 1 |
| Methylene Chloride | <6.2 | | 6.2 | 4.7 | ug/Kg | ☼ | | 04/01/16 13:48 | 1 |
| Methyl Ethyl Ketone | <6.2 | | 6.2 | 2.2 | ug/Kg | ☼ | | 04/01/16 13:48 | 1 |
| methyl isobutyl ketone | <6.2 | | 6.2 | 1.3 | ug/Kg | ☼ | | 04/01/16 13:48 | 1 |
| Methyl tert-butyl ether | <6.2 | | 6.2 | 1.5 | ug/Kg | ☼ | | 04/01/16 13:48 | 1 |
| Styrene | <6.2 | | 6.2 | 1.5 | ug/Kg | ☼ | | 04/01/16 13:48 | 1 |
| 1,1,2,2-Tetrachloroethane | <6.2 | | 6.2 | 0.99 | ug/Kg | ☼ | | 04/01/16 13:48 | 1 |
| Tetrachloroethene | <6.2 | | 6.2 | 1.3 | ug/Kg | ☼ | | 04/01/16 13:48 | 1 |
| Toluene | <6.2 | | 6.2 | 2.2 | ug/Kg | ☼ | | 04/01/16 13:48 | 1 |
| trans-1,2-Dichloroethene | <6.2 | | 6.2 | 1.6 | ug/Kg | ☼ | | 04/01/16 13:48 | 1 |
| trans-1,3-Dichloropropene | <6.2 | | 6.2 | 1.7 | ug/Kg | ☼ | | 04/01/16 13:48 | 1 |
| 1,1,1-Trichloroethane | <6.2 | | 6.2 | 1.4 | ug/Kg | ☼ | | 04/01/16 13:48 | 1 |
| 1,1,2-Trichloroethane | <6.2 | | 6.2 | 1.2 | ug/Kg | ☼ | | 04/01/16 13:48 | 1 |
| Trichloroethene | <6.2 | | 6.2 | 1.7 | ug/Kg | ☼ | | 04/01/16 13:48 | 1 |
| Vinyl chloride | <6.2 | | 6.2 | 1.5 | ug/Kg | ☼ | | 04/01/16 13:48 | 1 |
| Xylenes, Total | <12 | | 12 | 2.3 | ug/Kg | ☼ | | 04/01/16 13:48 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 105 | | 70 - 120 | | 04/01/16 13:48 | 1 |
| Dibromofluoromethane | 115 | | 75 - 120 | | 04/01/16 13:48 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 110 | | 69 - 134 | | 04/01/16 13:48 | 1 |
| Toluene-d8 (Surr) | 114 | | 75 - 123 | | 04/01/16 13:48 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,2,4-Trichlorobenzene | <200 | | 200 | 44 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:02 | 1 |
| 1,2-Dichlorobenzene | <200 | | 200 | 48 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:02 | 1 |
| 1,3-Dichlorobenzene | <200 | | 200 | 46 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:02 | 1 |
| 1,4-Dichlorobenzene | <200 | | 200 | 52 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:02 | 1 |
| 2,2'-oxybis[1-chloropropane] | <200 | | 200 | 47 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:02 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109414-1

Client Sample ID: PM-6(0-4)-032916

Lab Sample ID: 500-109414-5

Date Collected: 03/29/16 14:05

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 80.6

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|------------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol | <400 | | 400 | 92 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:02 | 1 |
| 2,4,6-Trichlorophenol | <400 | | 400 | 140 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:02 | 1 |
| 2,4-Dichlorophenol | <400 | | 400 | 96 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:02 | 1 |
| 2,4-Dimethylphenol | <400 | | 400 | 150 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:02 | 1 |
| 2,4-Dinitrophenol | <820 | | 820 | 710 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:02 | 1 |
| 2,4-Dinitrotoluene | <200 | | 200 | 64 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:02 | 1 |
| 2,6-Dinitrotoluene | <200 | | 200 | 79 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:02 | 1 |
| 2-Chloronaphthalene | <200 | | 200 | 45 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:02 | 1 |
| 2-Chlorophenol | <200 | | 200 | 69 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:02 | 1 |
| 2-Methylnaphthalene | <40 | | 40 | 7.4 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:02 | 1 |
| 2-Methylphenol | <200 | | 200 | 65 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:02 | 1 |
| 2-Nitroaniline | <200 | | 200 | 54 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:02 | 1 |
| 2-Nitrophenol | <400 | | 400 | 96 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:02 | 1 |
| 3 & 4 Methylphenol | <200 | | 200 | 67 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:02 | 1 |
| 3,3'-Dichlorobenzidine | <200 | | 200 | 57 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:02 | 1 |
| 3-Nitroaniline | <400 | | 400 | 130 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:02 | 1 |
| 4,6-Dinitro-2-methylphenol | <820 | | 820 | 320 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:02 | 1 |
| 4-Bromophenyl phenyl ether | <200 | | 200 | 53 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:02 | 1 |
| 4-Chloro-3-methylphenol | <400 | | 400 | 140 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:02 | 1 |
| 4-Chloroaniline | <820 | | 820 | 190 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:02 | 1 |
| 4-Chlorophenyl phenyl ether | <200 | | 200 | 47 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:02 | 1 |
| 4-Nitroaniline | <400 | | 400 | 170 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:02 | 1 |
| 4-Nitrophenol | <820 | | 820 | 380 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:02 | 1 |
| Acenaphthene | <40 | | 40 | 7.3 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:02 | 1 |
| Acenaphthylene | <40 | | 40 | 5.3 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:02 | 1 |
| Anthracene | 19 | J | 40 | 6.8 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:02 | 1 |
| Benzo[a]anthracene | 92 | | 40 | 5.4 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:02 | 1 |
| Benzo[a]pyrene | 110 | | 40 | 7.8 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:02 | 1 |
| Benzo[b]fluoranthene | 200 | | 40 | 8.7 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:02 | 1 |
| Benzo[g,h,i]perylene | 51 | | 40 | 13 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:02 | 1 |
| Benzo[k]fluoranthene | 110 | | 40 | 12 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:02 | 1 |
| Bis(2-chloroethoxy)methane | <200 | | 200 | 41 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:02 | 1 |
| Bis(2-chloroethyl)ether | <200 | | 200 | 61 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:02 | 1 |
| Bis(2-ethylhexyl) phthalate | <200 | | 200 | 74 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:02 | 1 |
| Butyl benzyl phthalate | <200 | | 200 | 77 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:02 | 1 |
| Carbazole | <200 | | 200 | 100 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:02 | 1 |
| Chrysene | 140 | | 40 | 11 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:02 | 1 |
| Dibenz(a,h)anthracene | <40 | | 40 | 7.8 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:02 | 1 |
| Dibenzofuran | <200 | | 200 | 47 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:02 | 1 |
| Diethyl phthalate | <200 | | 200 | 68 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:02 | 1 |
| Dimethyl phthalate | <200 | | 200 | 53 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:02 | 1 |
| Di-n-butyl phthalate | <200 | | 200 | 62 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:02 | 1 |
| Di-n-octyl phthalate | <200 | | 200 | 66 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:02 | 1 |
| Fluoranthene | 170 | | 40 | 7.5 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:02 | 1 |
| Fluorene | <40 | | 40 | 5.7 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:02 | 1 |
| Hexachlorobenzene | <82 | | 82 | 9.4 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:02 | 1 |
| Hexachlorobutadiene | <200 | | 200 | 64 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:02 | 1 |
| Hexachlorocyclopentadiene | <820 | | 820 | 230 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:02 | 1 |
| Hexachloroethane | <200 | | 200 | 61 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:02 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109414-1

Client Sample ID: PM-6(0-4)-032916

Lab Sample ID: 500-109414-5

Date Collected: 03/29/16 14:05

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 80.6

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|------------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Indeno[1,2,3-cd]pyrene | 44 | | 40 | 10 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:02 | 1 |
| Isophorone | <200 | | 200 | 45 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:02 | 1 |
| Naphthalene | <40 | | 40 | 6.2 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:02 | 1 |
| Nitrobenzene | <40 | | 40 | 10 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:02 | 1 |
| N-Nitrosodi-n-propylamine | <82 | | 82 | 49 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:02 | 1 |
| N-Nitrosodiphenylamine | <200 | | 200 | 48 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:02 | 1 |
| Pentachlorophenol | <820 | | 820 | 650 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:02 | 1 |
| Phenanthrene | 100 | | 40 | 5.6 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:02 | 1 |
| Phenol | <200 | | 200 | 90 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:02 | 1 |
| Pyrene | 180 | | 40 | 8.0 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:02 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2,4,6-Tribromophenol | 76 | | 25 - 130 | | | | 03/30/16 07:12 | 04/05/16 06:02 | 1 |
| 2-Fluorobiphenyl | 80 | | 42 - 115 | | | | 03/30/16 07:12 | 04/05/16 06:02 | 1 |
| 2-Fluorophenol | 67 | | 40 - 130 | | | | 03/30/16 07:12 | 04/05/16 06:02 | 1 |
| Nitrobenzene-d5 | 74 | | 33 - 124 | | | | 03/30/16 07:12 | 04/05/16 06:02 | 1 |
| Phenol-d5 | 63 | | 36 - 123 | | | | 03/30/16 07:12 | 04/05/16 06:02 | 1 |
| Terphenyl-d14 | 98 | | 25 - 150 | | | | 03/30/16 07:12 | 04/05/16 06:02 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|-------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.050 | | 0.050 | 0.010 | mg/L | | 04/01/16 14:15 | 04/02/16 20:00 | 1 |
| Barium | 0.14 | J | 0.50 | 0.050 | mg/L | | 04/01/16 14:15 | 04/02/16 20:00 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 04/01/16 14:15 | 04/02/16 20:00 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/01/16 14:15 | 04/02/16 20:00 | 1 |
| Chromium | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:15 | 04/02/16 20:00 | 1 |
| Cobalt | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:15 | 04/02/16 20:00 | 1 |
| Copper | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:15 | 04/02/16 20:00 | 1 |
| Iron | 0.35 | J | 0.40 | 0.20 | mg/L | | 04/01/16 14:15 | 04/02/16 20:00 | 1 |
| Lead | <0.0075 | | 0.0075 | 0.0075 | mg/L | | 04/01/16 14:15 | 04/02/16 20:00 | 1 |
| Manganese | 0.24 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:15 | 04/02/16 20:00 | 1 |
| Nickel | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:15 | 04/02/16 20:00 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/01/16 14:15 | 04/02/16 20:00 | 1 |
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:15 | 04/02/16 20:00 | 1 |
| Zinc | <0.50 | | 0.50 | 0.020 | mg/L | | 04/01/16 14:15 | 04/02/16 20:00 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|---------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.054 | | 0.050 | 0.010 | mg/L | | 04/01/16 09:30 | 04/02/16 00:26 | 1 |
| Barium | 0.37 | J | 0.50 | 0.050 | mg/L | | 04/01/16 09:30 | 04/02/16 00:26 | 1 |
| Beryllium | 0.0067 | | 0.0040 | 0.0040 | mg/L | | 04/01/16 09:30 | 04/02/16 00:26 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/01/16 09:30 | 04/02/16 00:26 | 1 |
| Chromium | 0.16 | | 0.025 | 0.010 | mg/L | | 04/01/16 09:30 | 04/02/16 00:26 | 1 |
| Cobalt | 0.053 | | 0.025 | 0.010 | mg/L | | 04/01/16 09:30 | 04/02/16 00:26 | 1 |
| Copper | 0.13 | | 0.025 | 0.010 | mg/L | | 04/01/16 09:30 | 04/02/16 00:26 | 1 |
| Iron | 150 | | 0.40 | 0.20 | mg/L | | 04/01/16 09:30 | 04/02/16 00:26 | 1 |
| Lead | 0.16 | | 0.0075 | 0.0075 | mg/L | | 04/01/16 09:30 | 04/02/16 00:26 | 1 |
| Manganese | 0.48 | | 0.025 | 0.010 | mg/L | | 04/01/16 09:30 | 04/02/16 00:26 | 1 |
| Nickel | 0.17 | | 0.025 | 0.010 | mg/L | | 04/01/16 09:30 | 04/02/16 00:26 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/01/16 09:30 | 04/02/16 00:26 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109414-1

Client Sample ID: PM-6(0-4)-032916

Lab Sample ID: 500-109414-5

Date Collected: 03/29/16 14:05

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 80.6

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|-------------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 09:30 | 04/02/16 00:26 | 1 |
| Zinc | 0.41 | J | 0.50 | 0.020 | mg/L | | 04/01/16 09:30 | 04/02/16 00:26 | 1 |

Method: 6010B - Total Metals

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | <1.1 | | 1.1 | 0.23 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:12 | 1 |
| Arsenic | 5.6 | | 0.57 | 0.26 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:12 | 1 |
| Barium | 58 | B | 0.57 | 0.10 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:12 | 1 |
| Beryllium | 0.82 | | 0.23 | 0.049 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:12 | 1 |
| Cadmium | 0.27 | | 0.11 | 0.033 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:12 | 1 |
| Calcium | 18000 | B | 11 | 3.6 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:12 | 1 |
| Chromium | 22 | | 0.57 | 0.097 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:12 | 1 |
| Cobalt | 13 | | 0.28 | 0.064 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:12 | 1 |
| Copper | 28 | | 0.57 | 0.12 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:12 | 1 |
| Iron | 19000 | B | 11 | 4.4 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:12 | 1 |
| Lead | 56 | | 0.28 | 0.14 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:12 | 1 |
| Magnesium | 13000 | | 5.7 | 2.3 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:12 | 1 |
| Manganese | 270 | | 0.57 | 0.11 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:12 | 1 |
| Nickel | 38 | | 0.57 | 0.15 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:12 | 1 |
| Potassium | 2500 | | 28 | 4.6 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:12 | 1 |
| Selenium | 0.60 | | 0.57 | 0.28 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:12 | 1 |
| Silver | <0.28 | | 0.28 | 0.066 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:12 | 1 |
| Sodium | 420 | B | 57 | 7.5 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:12 | 1 |
| Thallium | 0.57 | | 0.57 | 0.28 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:12 | 1 |
| Vanadium | 23 | | 0.28 | 0.083 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:12 | 1 |
| Zinc | 110 | | 1.1 | 0.36 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:12 | 1 |

Method: 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/01/16 15:45 | 04/04/16 11:54 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/01/16 15:45 | 04/04/16 11:25 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|------------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Mercury | 120 | | 18 | 9.6 | ug/Kg | ☼ | 03/31/16 15:20 | 04/01/16 12:13 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-------------|-----------|-------|-------|------|---|----------|----------------|---------|
| pH | 8.21 | | 0.200 | 0.200 | SU | | | 03/31/16 12:29 | 1 |

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109414-1

Client Sample ID: PM-6(4-7.7)-032916

Lab Sample ID: 500-109414-6

Date Collected: 03/29/16 14:10

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 82.6

Method: 8260B - VOC

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Acetone | 32 | | 24 | 4.7 | ug/Kg | ☼ | | 04/01/16 14:13 | 1 |
| Benzene | <6.1 | | 6.1 | 1.3 | ug/Kg | ☼ | | 04/01/16 14:13 | 1 |
| Bromodichloromethane | <6.1 | | 6.1 | 1.0 | ug/Kg | ☼ | | 04/01/16 14:13 | 1 |
| Bromoform | <6.1 | | 6.1 | 1.2 | ug/Kg | ☼ | | 04/01/16 14:13 | 1 |
| Bromomethane | <6.1 | | 6.1 | 2.2 | ug/Kg | ☼ | | 04/01/16 14:13 | 1 |
| Carbon disulfide | <6.1 | | 6.1 | 2.2 | ug/Kg | ☼ | | 04/01/16 14:13 | 1 |
| Carbon tetrachloride | <6.1 | | 6.1 | 1.3 | ug/Kg | ☼ | | 04/01/16 14:13 | 1 |
| Chlorobenzene | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 04/01/16 14:13 | 1 |
| Chloroethane | <6.1 | | 6.1 | 2.5 | ug/Kg | ☼ | | 04/01/16 14:13 | 1 |
| Chloroform | <6.1 | | 6.1 | 1.2 | ug/Kg | ☼ | | 04/01/16 14:13 | 1 |
| Chloromethane | <6.1 | | 6.1 | 1.5 | ug/Kg | ☼ | | 04/01/16 14:13 | 1 |
| cis-1,2-Dichloroethene | <6.1 | | 6.1 | 1.2 | ug/Kg | ☼ | | 04/01/16 14:13 | 1 |
| cis-1,3-Dichloropropene | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 04/01/16 14:13 | 1 |
| Dibromochloromethane | <6.1 | | 6.1 | 0.70 | ug/Kg | ☼ | | 04/01/16 14:13 | 1 |
| 1,1-Dichloroethane | <6.1 | | 6.1 | 1.2 | ug/Kg | ☼ | | 04/01/16 14:13 | 1 |
| 1,2-Dichloroethane | <6.1 | | 6.1 | 0.90 | ug/Kg | ☼ | | 04/01/16 14:13 | 1 |
| 1,1-Dichloroethene | <6.1 | | 6.1 | 2.2 | ug/Kg | ☼ | | 04/01/16 14:13 | 1 |
| 1,2-Dichloropropane | <6.1 | | 6.1 | 1.6 | ug/Kg | ☼ | | 04/01/16 14:13 | 1 |
| 1,3-Dichloropropene, Total | <6.1 | | 6.1 | 1.7 | ug/Kg | ☼ | | 04/01/16 14:13 | 1 |
| Ethylbenzene | <6.1 | | 6.1 | 1.5 | ug/Kg | ☼ | | 04/01/16 14:13 | 1 |
| 2-Hexanone | <6.1 | | 6.1 | 1.9 | ug/Kg | ☼ | | 04/01/16 14:13 | 1 |
| Methylene Chloride | <6.1 | | 6.1 | 4.6 | ug/Kg | ☼ | | 04/01/16 14:13 | 1 |
| Methyl Ethyl Ketone | <6.1 | | 6.1 | 2.2 | ug/Kg | ☼ | | 04/01/16 14:13 | 1 |
| methyl isobutyl ketone | <6.1 | | 6.1 | 1.2 | ug/Kg | ☼ | | 04/01/16 14:13 | 1 |
| Methyl tert-butyl ether | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 04/01/16 14:13 | 1 |
| Styrene | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 04/01/16 14:13 | 1 |
| 1,1,2,2-Tetrachloroethane | <6.1 | | 6.1 | 0.96 | ug/Kg | ☼ | | 04/01/16 14:13 | 1 |
| Tetrachloroethene | <6.1 | | 6.1 | 1.3 | ug/Kg | ☼ | | 04/01/16 14:13 | 1 |
| Toluene | <6.1 | | 6.1 | 2.1 | ug/Kg | ☼ | | 04/01/16 14:13 | 1 |
| trans-1,2-Dichloroethene | <6.1 | | 6.1 | 1.5 | ug/Kg | ☼ | | 04/01/16 14:13 | 1 |
| trans-1,3-Dichloropropene | <6.1 | | 6.1 | 1.7 | ug/Kg | ☼ | | 04/01/16 14:13 | 1 |
| 1,1,1-Trichloroethane | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 04/01/16 14:13 | 1 |
| 1,1,2-Trichloroethane | <6.1 | | 6.1 | 1.2 | ug/Kg | ☼ | | 04/01/16 14:13 | 1 |
| Trichloroethene | <6.1 | | 6.1 | 1.6 | ug/Kg | ☼ | | 04/01/16 14:13 | 1 |
| Vinyl chloride | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 04/01/16 14:13 | 1 |
| Xylenes, Total | <12 | | 12 | 2.2 | ug/Kg | ☼ | | 04/01/16 14:13 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 103 | | 70 - 120 | | 04/01/16 14:13 | 1 |
| Dibromofluoromethane | 115 | | 75 - 120 | | 04/01/16 14:13 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 113 | | 69 - 134 | | 04/01/16 14:13 | 1 |
| Toluene-d8 (Surr) | 114 | | 75 - 123 | | 04/01/16 14:13 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,2,4-Trichlorobenzene | <190 | | 190 | 41 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:31 | 1 |
| 1,2-Dichlorobenzene | <190 | | 190 | 46 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:31 | 1 |
| 1,3-Dichlorobenzene | <190 | | 190 | 43 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:31 | 1 |
| 1,4-Dichlorobenzene | <190 | | 190 | 49 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:31 | 1 |
| 2,2'-oxybis[1-chloropropane] | <190 | | 190 | 45 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:31 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109414-1

Client Sample ID: PM-6(4-7.7)-032916

Lab Sample ID: 500-109414-6

Date Collected: 03/29/16 14:10

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 82.6

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-------------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol | <380 | | 380 | 88 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:31 | 1 |
| 2,4,6-Trichlorophenol | <380 | | 380 | 130 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:31 | 1 |
| 2,4-Dichlorophenol | <380 | | 380 | 91 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:31 | 1 |
| 2,4-Dimethylphenol | <380 | | 380 | 150 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:31 | 1 |
| 2,4-Dinitrophenol | <770 | | 770 | 680 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:31 | 1 |
| 2,4-Dinitrotoluene | <190 | | 190 | 61 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:31 | 1 |
| 2,6-Dinitrotoluene | <190 | | 190 | 75 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:31 | 1 |
| 2-Chloronaphthalene | <190 | | 190 | 42 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:31 | 1 |
| 2-Chlorophenol | <190 | | 190 | 66 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:31 | 1 |
| 2-Methylnaphthalene | <38 | | 38 | 7.1 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:31 | 1 |
| 2-Methylphenol | <190 | | 190 | 62 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:31 | 1 |
| 2-Nitroaniline | <190 | | 190 | 52 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:31 | 1 |
| 2-Nitrophenol | <380 | | 380 | 91 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:31 | 1 |
| 3 & 4 Methylphenol | <190 | | 190 | 64 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:31 | 1 |
| 3,3'-Dichlorobenzidine | <190 | | 190 | 54 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:31 | 1 |
| 3-Nitroaniline | <380 | | 380 | 120 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:31 | 1 |
| 4,6-Dinitro-2-methylphenol | <770 | | 770 | 310 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:31 | 1 |
| 4-Bromophenyl phenyl ether | <190 | | 190 | 51 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:31 | 1 |
| 4-Chloro-3-methylphenol | <380 | | 380 | 130 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:31 | 1 |
| 4-Chloroaniline | <770 | | 770 | 180 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:31 | 1 |
| 4-Chlorophenyl phenyl ether | <190 | | 190 | 45 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:31 | 1 |
| 4-Nitroaniline | <380 | | 380 | 160 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:31 | 1 |
| 4-Nitrophenol | <770 | | 770 | 370 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:31 | 1 |
| Acenaphthene | <38 | | 38 | 6.9 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:31 | 1 |
| Acenaphthylene | <38 | | 38 | 5.1 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:31 | 1 |
| Anthracene | <38 | | 38 | 6.4 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:31 | 1 |
| Benzo[a]anthracene | 15 J | | 38 | 5.2 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:31 | 1 |
| Benzo[a]pyrene | <38 | | 38 | 7.4 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:31 | 1 |
| Benzo[b]fluoranthene | 38 | | 38 | 8.3 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:31 | 1 |
| Benzo[g,h,i]perylene | <38 | | 38 | 12 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:31 | 1 |
| Benzo[k]fluoranthene | 17 J | | 38 | 11 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:31 | 1 |
| Bis(2-chloroethoxy)methane | <190 | | 190 | 39 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:31 | 1 |
| Bis(2-chloroethyl)ether | <190 | | 190 | 58 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:31 | 1 |
| Bis(2-ethylhexyl) phthalate | <190 | | 190 | 70 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:31 | 1 |
| Butyl benzyl phthalate | <190 | | 190 | 73 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:31 | 1 |
| Carbazole | <190 | | 190 | 96 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:31 | 1 |
| Chrysene | 31 J | | 38 | 10 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:31 | 1 |
| Dibenz(a,h)anthracene | <38 | | 38 | 7.4 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:31 | 1 |
| Dibenzofuran | <190 | | 190 | 45 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:31 | 1 |
| Diethyl phthalate | <190 | | 190 | 65 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:31 | 1 |
| Dimethyl phthalate | <190 | | 190 | 50 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:31 | 1 |
| Di-n-butyl phthalate | <190 | | 190 | 58 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:31 | 1 |
| Di-n-octyl phthalate | <190 | | 190 | 63 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:31 | 1 |
| Fluoranthene | 34 J | | 38 | 7.1 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:31 | 1 |
| Fluorene | <38 | | 38 | 5.4 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:31 | 1 |
| Hexachlorobenzene | <77 | | 77 | 8.9 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:31 | 1 |
| Hexachlorobutadiene | <190 | | 190 | 60 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:31 | 1 |
| Hexachlorocyclopentadiene | <770 | | 770 | 220 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:31 | 1 |
| Hexachloroethane | <190 | | 190 | 58 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:31 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109414-1

Client Sample ID: PM-6(4-7.7)-032916

Lab Sample ID: 500-109414-6

Date Collected: 03/29/16 14:10

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 82.6

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Indeno[1,2,3-cd]pyrene | <38 | | 38 | 10 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:31 | 1 |
| Isophorone | <190 | | 190 | 43 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:31 | 1 |
| Naphthalene | <38 | | 38 | 5.9 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:31 | 1 |
| Nitrobenzene | <38 | | 38 | 9.6 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:31 | 1 |
| N-Nitrosodi-n-propylamine | <77 | | 77 | 47 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:31 | 1 |
| N-Nitrosodiphenylamine | <190 | | 190 | 45 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:31 | 1 |
| Pentachlorophenol | <770 | | 770 | 620 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:31 | 1 |
| Phenanthrene | 25 | J | 38 | 5.4 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:31 | 1 |
| Phenol | <190 | | 190 | 85 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:31 | 1 |
| Pyrene | 49 | | 38 | 7.6 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 06:31 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2,4,6-Tribromophenol | 95 | | 25 - 130 | | | | 03/30/16 07:12 | 04/05/16 06:31 | 1 |
| 2-Fluorobiphenyl | 68 | | 42 - 115 | | | | 03/30/16 07:12 | 04/05/16 06:31 | 1 |
| 2-Fluorophenol | 69 | | 40 - 130 | | | | 03/30/16 07:12 | 04/05/16 06:31 | 1 |
| Nitrobenzene-d5 | 68 | | 33 - 124 | | | | 03/30/16 07:12 | 04/05/16 06:31 | 1 |
| Phenol-d5 | 67 | | 36 - 123 | | | | 03/30/16 07:12 | 04/05/16 06:31 | 1 |
| Terphenyl-d14 | 104 | | 25 - 150 | | | | 03/30/16 07:12 | 04/05/16 06:31 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.050 | | 0.050 | 0.010 | mg/L | | 04/01/16 14:15 | 04/02/16 20:05 | 1 |
| Barium | 0.18 | J | 0.50 | 0.050 | mg/L | | 04/01/16 14:15 | 04/02/16 20:05 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 04/01/16 14:15 | 04/02/16 20:05 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/01/16 14:15 | 04/02/16 20:05 | 1 |
| Chromium | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:15 | 04/02/16 20:05 | 1 |
| Cobalt | 0.013 | J | 0.025 | 0.010 | mg/L | | 04/01/16 14:15 | 04/02/16 20:05 | 1 |
| Copper | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:15 | 04/02/16 20:05 | 1 |
| Iron | <0.40 | | 0.40 | 0.20 | mg/L | | 04/01/16 14:15 | 04/02/16 20:05 | 1 |
| Lead | <0.0075 | | 0.0075 | 0.0075 | mg/L | | 04/01/16 14:15 | 04/02/16 20:05 | 1 |
| Manganese | 2.0 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:15 | 04/02/16 20:05 | 1 |
| Nickel | 0.017 | J | 0.025 | 0.010 | mg/L | | 04/01/16 14:15 | 04/02/16 20:05 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/01/16 14:15 | 04/02/16 20:05 | 1 |
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:15 | 04/02/16 20:05 | 1 |
| Zinc | <0.50 | | 0.50 | 0.020 | mg/L | | 04/01/16 14:15 | 04/02/16 20:05 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|---------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.056 | | 0.050 | 0.010 | mg/L | | 04/01/16 09:30 | 04/02/16 00:31 | 1 |
| Barium | 0.25 | J | 0.50 | 0.050 | mg/L | | 04/01/16 09:30 | 04/02/16 00:31 | 1 |
| Beryllium | 0.0049 | | 0.0040 | 0.0040 | mg/L | | 04/01/16 09:30 | 04/02/16 00:31 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/01/16 09:30 | 04/02/16 00:31 | 1 |
| Chromium | 0.11 | | 0.025 | 0.010 | mg/L | | 04/01/16 09:30 | 04/02/16 00:31 | 1 |
| Cobalt | 0.045 | | 0.025 | 0.010 | mg/L | | 04/01/16 09:30 | 04/02/16 00:31 | 1 |
| Copper | 0.12 | | 0.025 | 0.010 | mg/L | | 04/01/16 09:30 | 04/02/16 00:31 | 1 |
| Iron | 130 | | 0.40 | 0.20 | mg/L | | 04/01/16 09:30 | 04/02/16 00:31 | 1 |
| Lead | 0.11 | | 0.0075 | 0.0075 | mg/L | | 04/01/16 09:30 | 04/02/16 00:31 | 1 |
| Manganese | 0.57 | | 0.025 | 0.010 | mg/L | | 04/01/16 09:30 | 04/02/16 00:31 | 1 |
| Nickel | 0.14 | | 0.025 | 0.010 | mg/L | | 04/01/16 09:30 | 04/02/16 00:31 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/01/16 09:30 | 04/02/16 00:31 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109414-1

Client Sample ID: PM-6(4-7.7)-032916

Lab Sample ID: 500-109414-6

Date Collected: 03/29/16 14:10

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 82.6

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|-------------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 09:30 | 04/02/16 00:31 | 1 |
| Zinc | 0.28 | J | 0.50 | 0.020 | mg/L | | 04/01/16 09:30 | 04/02/16 00:31 | 1 |

Method: 6010B - Total Metals

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | <1.1 | | 1.1 | 0.23 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:17 | 1 |
| Arsenic | 11 | | 0.55 | 0.25 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:17 | 1 |
| Barium | 23 | B | 0.55 | 0.10 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:17 | 1 |
| Beryllium | 0.55 | | 0.22 | 0.047 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:17 | 1 |
| Cadmium | <0.11 | | 0.11 | 0.032 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:17 | 1 |
| Calcium | 20000 | B | 11 | 3.5 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:17 | 1 |
| Chromium | 16 | | 0.55 | 0.094 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:17 | 1 |
| Cobalt | 12 | | 0.27 | 0.062 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:17 | 1 |
| Copper | 22 | | 0.55 | 0.12 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:17 | 1 |
| Iron | 24000 | B | 11 | 4.2 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:17 | 1 |
| Lead | 17 | | 0.27 | 0.14 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:17 | 1 |
| Magnesium | 15000 | | 5.5 | 2.2 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:17 | 1 |
| Manganese | 280 | | 0.55 | 0.11 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:17 | 1 |
| Nickel | 33 | | 0.55 | 0.15 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:17 | 1 |
| Potassium | 2300 | | 27 | 4.5 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:17 | 1 |
| Selenium | 1.1 | | 0.55 | 0.27 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:17 | 1 |
| Silver | <0.27 | | 0.27 | 0.064 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:17 | 1 |
| Sodium | 270 | B | 55 | 7.2 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:17 | 1 |
| Thallium | 0.33 | J | 0.55 | 0.27 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:17 | 1 |
| Vanadium | 16 | | 0.27 | 0.080 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:17 | 1 |
| Zinc | 58 | | 1.1 | 0.35 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:17 | 1 |

Method: 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/01/16 15:45 | 04/04/16 11:56 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/01/16 15:45 | 04/04/16 11:26 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Mercury | 29 | | 20 | 10 | ug/Kg | ☼ | 03/31/16 15:20 | 04/01/16 12:19 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-------------|-----------|-------|-------|------|---|----------|----------------|---------|
| pH | 8.23 | | 0.200 | 0.200 | SU | | | 03/31/16 12:33 | 1 |

Definitions/Glossary

Client: Environmental Design International, Inc.
Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109414-1

Qualifiers

GC/MS VOA

| Qualifier | Qualifier Description |
|-----------|--|
| F1 | MS and/or MSD Recovery is outside acceptance limits. |

GC/MS Semi VOA

| Qualifier | Qualifier Description |
|-----------|--|
| X | Surrogate is outside control limits |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

Metals

| Qualifier | Qualifier Description |
|-----------|--|
| B | Compound was found in the blank and sample. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| F5 | Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL. |
| F1 | MS and/or MSD Recovery is outside acceptance limits. |
| 4 | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |

Glossary

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

Certification Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109414-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|-----------|---------|------------|------------------|-----------------|
| Illinois | NELAP | 5 | 100201 | 04-30-17 |


The following analytes are included in this report, but certification is not offered by the governing authority:

| Analysis Method | Prep Method | Matrix | Analyte |
|-----------------|-------------|--------|----------------------------|
| 8260B | | Solid | 1,3-Dichloropropene, Total |
| Moisture | | Solid | Percent Moisture |
| Moisture | | Solid | Percent Solids |

Report To (optional) _____ Bill To (optional) _____
 Contact: _____ Contact: _____
 Company: _____ Company: _____
 Address: _____ Address: _____
 Address: _____ Address: _____
 Phone: _____ Phone: _____
 Fax: _____ Fax: _____
 E-Mail: _____ PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-109414
 Chain of Custody Number: _____
 Page 3 of 3
 Temperature °C of Cooler: 4.7, 5.4

| Client | | Client Project # | | Preservative | | Parameter | | Matrix | |  Preservative Key to 4° ol to 4° l to 4° Cool to 4° | | |
|-----------------------------------|--------|---------------------|---------|--------------|-----------------|-----------|------|--------|--------------|---|---------------|----|
| EDZ | | 0213.022 | | | | | | | | | | |
| Project Name: IDOT - Hervey | | Lab Project # | | | | | | | | | | |
| Project Location/State: Hervey IL | | Lab PM | | | | | | | | | | |
| Sampler: Clinp. | | | | | | | | | | 500-109414 COC Comments | | |
| Lab ID | MS/MSD | Sample ID | Date | Time | # of Containers | Matrix | VOCs | SUOCs | Total Metals | | SPLD/TECHNICS | PH |
| 1 | | PM-3(4-7.7)-032916 | 3/24/16 | 1255 | 2 | S | X | X | X | | X | X |
| 2 | | PM-4(0-4)-032916 | | 1315 | | | | | | | | |
| 3 | | PM-4(4-7.7)-032916 | | 1320 | | | | | | | | |
| 4 | | PM-5(0-4)-032916 | | 1340 | | | | | | | | |
| 5 | | PM-6(0-4)-032916 | | 1405 | | | | | | | | |
| 6 | | PM-6(4-7.7)-032916 | | 1410 | | | | | | | | |
| 7 | | PM-7(0-4)-032916 | | 1420 | | | | | | | | |
| 8 | | R48-1(0-0.5)-032916 | | 1435 | | | | | | | | |
| 9 | | R48-1(0-2)-032916 | | 1450 | | | | | | | | |
| 10 | | R48-1(0-2)-032916D | | 1455 | | | X | X | X | X | X | |


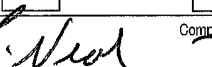

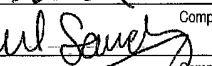
Turnaround Time Required (Business Days)

1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other

Requested Due Date _____

Sample Disposal

Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

| | | | | | | | | |
|--|----------------|---------------|-------------|---|-----------------|---------------|-------------|-----------------------|
| Relinquished By:  | Company: EDZ | Date: 3/24/16 | Time: 1530 | Received By:  | Company: TA | Date: 3/29/16 | Time: 1530 | Lab Courier: TA |
| Relinquished By:  | Company: TA | Date: 3/29/16 | Time: 1623 | Received By:  | Company: TA-CTP | Date: 3/29/16 | Time: 16:03 | Shipped: _____ |
| Relinquished By: _____ | Company: _____ | Date: _____ | Time: _____ | Received By: _____ | Company: _____ | Date: _____ | Time: _____ | Hand Delivered: _____ |

Matrix Key

WW - Wastewater
 W - Water
 S - Soil
 SL - Sludge
 MS - Miscellaneous
 OL - Oil
 A - Air
 SE - Sediment
 SO - Soil
 L - Leachate
 WI - Wipe
 DW - Drinking Water
 O - Other

Client Comments

Lab Comments:



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

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

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

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

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

I. Source Location Information

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

Project Name: FAU 3597: IL Route 1 (Halsted St) at Vincennes Rd Office Phone Number, if available: _____

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

400 block of E. 152nd Street, (ISGS Site No. 2553V-12)

City: Harvey State: IL Zip Code: _____

County: Cook Township: _____

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

Latitude: 41.61350556 Longitude: -87.63660833

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

- GPS Map Interpolation Photo Interpolation Survey Other

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

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

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

Project Name: FAU 3597: IL Route 1 (Halsted St) at Vincennes **F**

Latitude: 41.61350556 Longitude: -87.63660833

Uncontaminated Site Certification

III. Basis for Certification and Attachments

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

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

LOCATION VL12-2 WAS SAMPLED ADJACENT TO ISGS SITE No. 2553V-12. SEE FIGURE 3-1 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

- 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]:

TEST AMERICA REPORTS - JOB ID: 500-109413-1.
ALSO SEE FIGURE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

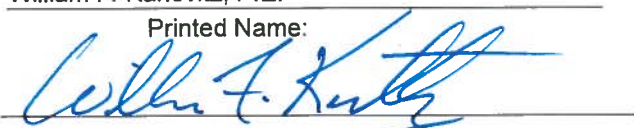
I, William F. Karlovitz, P.E. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with 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: Weston Solutions, Inc.
 Street Address: 300 Circle Plaza; Suite 202
 City: Mundelein State: IL Zip Code: 60060
 Phone: (224) 864-7200

William F. Karlovitz, P.E.

Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

17 May 2016

Date:



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

Summary Table of ISGS Site No. 2553V-12
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAU 3597: Illinois Route 1 (Halsted Street) at Vincennes Road
Harvey, Cook County, Illinois

| Field Sample ID | VL12-2(0-5)-032916 | VL12-2(5-10)-032916 | Soil Reference Concentrations ^A |
|-----------------------------|--------------------|---------------------|--|
| Sample Date | 3/29/2016 | 3/29/2016 | |
| Location ID | VL12-2 | VL12-2 | |
| Depth | 0 - 5 | 5 - 10 | |
| Lab Sample ID | 500-109413-5 | 500-109413-6 | |
| ISGS Site No. | 2553V-12 | 2553V-12 | |
| Parameter | | | |
| Laboratory pH | 8.16 | 8.32 | <6.25,>9.0 |
| VOCs (ug/kg) | None Detected | | |
| SVOCs (ug/kg) | | | |
| 2-Methylnaphthalene | 20 J | ND | --- |
| Anthracene | 12 J | ND | 1.20E+07 |
| Benzo(a)anthracene | 70 | 6.9 J | 900 / 1100 / 1800 |
| Benzo(a)pyrene | 83 | ND | 90 / 1300 / 2100 |
| Benzo(b)fluoranthene | 150 | ND | 900 / 1500 / 2100 |
| Benzo(g,h,i)perylene | 43 | ND | --- |
| Benzo(k)fluoranthene | 56 | ND | 9000 |
| Chrysene | 93 | 19 J | 88000 |
| Fluoranthene | 140 | 8.5 J | 3100000 |
| Indeno(1,2,3-cd)pyrene | 37 J | ND | 900 / 900 / 1600 |
| Naphthalene, SVOC | 10 J | ND | 1800 |
| Phenanthrene | 88 | 26 J | --- |
| Pyrene | 180 | 26 J | 2300000 |
| Total Metals (mg/kg) | | | |
| Arsenic, Total | 3.7 J | 8 J | 11.3 / 13.0 |
| Barium, Total | 51 J | 35 J | 1500 |
| Beryllium, Total | 0.79 | 0.71 | 22 |
| Cadmium, Total | 0.12 | ND | 5.2 |
| Calcium, Total | 4300 J | 13000 J | --- |
| Chromium, Total | 19 J | 17 J | 21 |
| Cobalt, Total | 14 J | 15 J | 20 |
| Copper, Total | 37 J | 24 J | 2900 |
| Iron, Total | 15000 J | 21000 J | 15000 / 15900 |
| Lead, Total | 23 J | 18 J | 107 |
| Magnesium, Total | 5000 J | 9400 J | 325000 |
| Manganese, Total | 150 J | 150 J | 630 / 636 |
| Mercury, Total | 0.041 | 0.034 | 0.89 |
| Nickel, Total | 37 J | 42 J | 100 |
| Potassium, Total | 1900 J | 2600 J | --- |
| Selenium, Total | ND | ND | 1.3 |
| Sodium, Total | 270 J | 370 J | --- |
| Thallium, Total | 0.28 J | 0.61 | 2.6 |
| Vanadium, Total | 19 J | 22 J | 550 |
| Zinc, Total | 110 J | 110 J | 5100 |
| TCLP Metals (mg/l) | | | |
| Arsenic, TCLP | ND | ND | 0.05 |
| Barium, TCLP | 0.42 J | 0.28 J | 2 |
| Beryllium, TCLP | ND | ND | 0.004 |
| Cadmium, TCLP | 0.0025 J | ND | 0.005 |
| Chromium, TCLP | ND | ND | 0.1 |
| Cobalt, TCLP | 0.025 | ND | 1 |
| Copper, TCLP | ND | ND | 0.65 |
| Iron, TCLP | ND | ND | 5 |
| Lead, TCLP | ND | ND | 0.0075 |
| Manganese, TCLP | 3.4 | 1.3 | 0.15 |
| Mercury, TCLP | ND | ND | 0.002 |
| Nickel, TCLP | 0.017 J | ND | 0.1 |
| Selenium, TCLP | ND | ND | 0.05 |
| Zinc, TCLP | 0.24 J | 0.03 J | 5 |

Summary Table of ISGS Site No. 2553V-12
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAU 3597: Illinois Route 1 (Halsted Street) at Vincennes Road
Harvey, Cook County, Illinois

| Field Sample ID | VL12-2(0-5)-032916 | VL12-2(5-10)-032916 | Soil Reference Concentrations ^A |
|---------------------------|--------------------|---------------------|--|
| Sample Date | 3/29/2016 | 3/29/2016 | |
| Location ID | VL12-2 | VL12-2 | |
| Depth | 0 - 5 | 5 - 10 | |
| Lab Sample ID | 500-109413-5 | 500-109413-6 | |
| ISGS Site No. | 2553V-12 | 2553V-12 | |
| Parameter | | | |
| SPLP Metals (mg/l) | | | |
| Arsenic, SPLP | ND | 0.049 J | 0.05 |
| Barium, SPLP | 0.063 J | 0.39 J | 2 |
| Beryllium, SPLP | ND | 0.0062 | 0.004 |
| Cadmium, SPLP | ND | ND | 0.005 |
| Chromium, SPLP | 0.018 J | 0.15 | 0.1 |
| Cobalt, SPLP | ND | 0.065 | 1 |
| Copper, SPLP | 0.017 J | 0.17 | 0.65 |
| Iron, SPLP | 13 | 190 | 5 |
| Lead, SPLP | 0.0099 | 0.12 | 0.0075 |
| Manganese, SPLP | 0.043 | 0.73 | 0.15 |
| Mercury, SPLP | ND | ND | 0.002 |
| Nickel, SPLP | 0.012 J | 0.18 | 0.1 |
| Selenium, SPLP | ND | ND | 0.05 |
| Zinc, SPLP | 0.046 J | 0.77 | 5 |

Notes:

--- - not applicable or value not available.

^A - Soil reference concentrations from MAC Table. Background values for MSA Counties and Chicago corporate limits are included, as applicable.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

Shaded values indicate concentration **exceeds** Reference Concentration.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-109413-1

Client Project/Site: IDOT - Harvey IL Route 113 - WO 041

For:

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

Attn: Ms. Patricia Feeley

Jodie Bracken

Authorized for release by:
4/7/2016 3:38:11 PM

Jodie Bracken, Project Management Assistant II
jodie.bracken@testamericainc.com

Designee for

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.

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

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Client Sample ID: VL12-2(0-5)-032916

Lab Sample ID: 500-109413-5

Date Collected: 03/29/16 09:15

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 82.4

Method: 8260B - VOC

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Acetone | <24 | | 24 | 4.7 | ug/Kg | ☼ | | 04/01/16 17:24 | 1 |
| Benzene | <6.1 | | 6.1 | 1.3 | ug/Kg | ☼ | | 04/01/16 17:24 | 1 |
| Bromodichloromethane | <6.1 | | 6.1 | 1.0 | ug/Kg | ☼ | | 04/01/16 17:24 | 1 |
| Bromoform | <6.1 | | 6.1 | 1.2 | ug/Kg | ☼ | | 04/01/16 17:24 | 1 |
| Bromomethane | <6.1 | | 6.1 | 2.2 | ug/Kg | ☼ | | 04/01/16 17:24 | 1 |
| Carbon disulfide | <6.1 | | 6.1 | 2.2 | ug/Kg | ☼ | | 04/01/16 17:24 | 1 |
| Carbon tetrachloride | <6.1 | | 6.1 | 1.3 | ug/Kg | ☼ | | 04/01/16 17:24 | 1 |
| Chlorobenzene | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 04/01/16 17:24 | 1 |
| Chloroethane | <6.1 | | 6.1 | 2.5 | ug/Kg | ☼ | | 04/01/16 17:24 | 1 |
| Chloroform | <6.1 | | 6.1 | 1.2 | ug/Kg | ☼ | | 04/01/16 17:24 | 1 |
| Chloromethane | <6.1 | | 6.1 | 1.5 | ug/Kg | ☼ | | 04/01/16 17:24 | 1 |
| cis-1,2-Dichloroethene | <6.1 | | 6.1 | 1.2 | ug/Kg | ☼ | | 04/01/16 17:24 | 1 |
| cis-1,3-Dichloropropene | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 04/01/16 17:24 | 1 |
| Dibromochloromethane | <6.1 | | 6.1 | 0.70 | ug/Kg | ☼ | | 04/01/16 17:24 | 1 |
| 1,1-Dichloroethane | <6.1 | | 6.1 | 1.2 | ug/Kg | ☼ | | 04/01/16 17:24 | 1 |
| 1,2-Dichloroethane | <6.1 | | 6.1 | 0.90 | ug/Kg | ☼ | | 04/01/16 17:24 | 1 |
| 1,1-Dichloroethene | <6.1 | | 6.1 | 2.2 | ug/Kg | ☼ | | 04/01/16 17:24 | 1 |
| 1,2-Dichloropropane | <6.1 | | 6.1 | 1.6 | ug/Kg | ☼ | | 04/01/16 17:24 | 1 |
| 1,3-Dichloropropene, Total | <6.1 | | 6.1 | 1.7 | ug/Kg | ☼ | | 04/01/16 17:24 | 1 |
| Ethylbenzene | <6.1 | | 6.1 | 1.5 | ug/Kg | ☼ | | 04/01/16 17:24 | 1 |
| 2-Hexanone | <6.1 | | 6.1 | 1.9 | ug/Kg | ☼ | | 04/01/16 17:24 | 1 |
| Methylene Chloride | <6.1 | | 6.1 | 4.6 | ug/Kg | ☼ | | 04/01/16 17:24 | 1 |
| Methyl Ethyl Ketone | <6.1 | | 6.1 | 2.2 | ug/Kg | ☼ | | 04/01/16 17:24 | 1 |
| methyl isobutyl ketone | <6.1 | | 6.1 | 1.2 | ug/Kg | ☼ | | 04/01/16 17:24 | 1 |
| Methyl tert-butyl ether | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 04/01/16 17:24 | 1 |
| Styrene | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 04/01/16 17:24 | 1 |
| 1,1,1,2-Tetrachloroethane | <6.1 | | 6.1 | 0.96 | ug/Kg | ☼ | | 04/01/16 17:24 | 1 |
| Tetrachloroethene | <6.1 | | 6.1 | 1.3 | ug/Kg | ☼ | | 04/01/16 17:24 | 1 |
| Toluene | <6.1 | | 6.1 | 2.1 | ug/Kg | ☼ | | 04/01/16 17:24 | 1 |
| trans-1,2-Dichloroethene | <6.1 | | 6.1 | 1.5 | ug/Kg | ☼ | | 04/01/16 17:24 | 1 |
| trans-1,3-Dichloropropene | <6.1 | | 6.1 | 1.7 | ug/Kg | ☼ | | 04/01/16 17:24 | 1 |
| 1,1,1-Trichloroethane | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 04/01/16 17:24 | 1 |
| 1,1,2-Trichloroethane | <6.1 | | 6.1 | 1.2 | ug/Kg | ☼ | | 04/01/16 17:24 | 1 |
| Trichloroethene | <6.1 | | 6.1 | 1.6 | ug/Kg | ☼ | | 04/01/16 17:24 | 1 |
| Vinyl chloride | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 04/01/16 17:24 | 1 |
| Xylenes, Total | <12 | | 12 | 2.2 | ug/Kg | ☼ | | 04/01/16 17:24 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 106 | | 70 - 120 | | 04/01/16 17:24 | 1 |
| Dibromofluoromethane | 112 | | 75 - 120 | | 04/01/16 17:24 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 114 | | 69 - 134 | | 04/01/16 17:24 | 1 |
| Toluene-d8 (Surr) | 115 | | 75 - 123 | | 04/01/16 17:24 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,2,4-Trichlorobenzene | <200 | | 200 | 43 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:56 | 1 |
| 1,2-Dichlorobenzene | <200 | | 200 | 47 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:56 | 1 |
| 1,3-Dichlorobenzene | <200 | | 200 | 45 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:56 | 1 |
| 1,4-Dichlorobenzene | <200 | | 200 | 51 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:56 | 1 |
| 2,2'-oxybis[1-chloropropane] | <200 | | 200 | 46 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:56 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Client Sample ID: VL12-2(0-5)-032916

Lab Sample ID: 500-109413-5

Date Collected: 03/29/16 09:15

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 82.4

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|------------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol | <390 | | 390 | 90 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:56 | 1 |
| 2,4,6-Trichlorophenol | <390 | | 390 | 140 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:56 | 1 |
| 2,4-Dichlorophenol | <390 | | 390 | 94 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:56 | 1 |
| 2,4-Dimethylphenol | <390 | | 390 | 150 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:56 | 1 |
| 2,4-Dinitrophenol | <800 | | 800 | 700 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:56 | 1 |
| 2,4-Dinitrotoluene | <200 | | 200 | 63 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:56 | 1 |
| 2,6-Dinitrotoluene | <200 | | 200 | 78 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:56 | 1 |
| 2-Chloronaphthalene | <200 | | 200 | 44 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:56 | 1 |
| 2-Chlorophenol | <200 | | 200 | 68 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:56 | 1 |
| 2-Methylnaphthalene | 20 | J | 39 | 7.3 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:56 | 1 |
| 2-Methylphenol | <200 | | 200 | 64 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:56 | 1 |
| 2-Nitroaniline | <200 | | 200 | 53 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:56 | 1 |
| 2-Nitrophenol | <390 | | 390 | 94 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:56 | 1 |
| 3 & 4 Methylphenol | <200 | | 200 | 66 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:56 | 1 |
| 3,3'-Dichlorobenzidine | <200 | | 200 | 55 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:56 | 1 |
| 3-Nitroaniline | <390 | | 390 | 120 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:56 | 1 |
| 4,6-Dinitro-2-methylphenol | <800 | | 800 | 320 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:56 | 1 |
| 4-Bromophenyl phenyl ether | <200 | | 200 | 52 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:56 | 1 |
| 4-Chloro-3-methylphenol | <390 | | 390 | 130 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:56 | 1 |
| 4-Chloroaniline | <800 | | 800 | 190 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:56 | 1 |
| 4-Chlorophenyl phenyl ether | <200 | | 200 | 46 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:56 | 1 |
| 4-Nitroaniline | <390 | | 390 | 170 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:56 | 1 |
| 4-Nitrophenol | <800 | | 800 | 380 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:56 | 1 |
| Acenaphthene | <39 | | 39 | 7.1 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:56 | 1 |
| Acenaphthylene | <39 | | 39 | 5.2 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:56 | 1 |
| Anthracene | 12 | J | 39 | 6.6 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:56 | 1 |
| Benzo[a]anthracene | 70 | | 39 | 5.3 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:56 | 1 |
| Benzo[a]pyrene | 83 | | 39 | 7.7 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:56 | 1 |
| Benzo[b]fluoranthene | 150 | | 39 | 8.6 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:56 | 1 |
| Benzo[g,h,i]perylene | 43 | | 39 | 13 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:56 | 1 |
| Benzo[k]fluoranthene | 56 | | 39 | 12 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:56 | 1 |
| Bis(2-chloroethoxy)methane | <200 | | 200 | 40 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:56 | 1 |
| Bis(2-chloroethyl)ether | <200 | | 200 | 59 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:56 | 1 |
| Bis(2-ethylhexyl) phthalate | <200 | | 200 | 72 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:56 | 1 |
| Butyl benzyl phthalate | <200 | | 200 | 75 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:56 | 1 |
| Carbazole | <200 | | 200 | 99 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:56 | 1 |
| Chrysene | 93 | | 39 | 11 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:56 | 1 |
| Dibenz(a,h)anthracene | <39 | | 39 | 7.7 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:56 | 1 |
| Dibenzofuran | <200 | | 200 | 46 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:56 | 1 |
| Diethyl phthalate | <200 | | 200 | 67 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:56 | 1 |
| Dimethyl phthalate | <200 | | 200 | 52 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:56 | 1 |
| Di-n-butyl phthalate | <200 | | 200 | 60 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:56 | 1 |
| Di-n-octyl phthalate | <200 | | 200 | 65 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:56 | 1 |
| Fluoranthene | 140 | | 39 | 7.3 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:56 | 1 |
| Fluorene | <39 | | 39 | 5.6 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:56 | 1 |
| Hexachlorobenzene | <80 | | 80 | 9.2 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:56 | 1 |
| Hexachlorobutadiene | <200 | | 200 | 62 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:56 | 1 |
| Hexachlorocyclopentadiene | <800 | | 800 | 230 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:56 | 1 |
| Hexachloroethane | <200 | | 200 | 60 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:56 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Client Sample ID: VL12-2(0-5)-032916

Lab Sample ID: 500-109413-5

Date Collected: 03/29/16 09:15

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 82.4

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| Indeno[1,2,3-cd]pyrene | 37 | J | 39 | 10 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:56 | 1 |
| Isophorone | <200 | | 200 | 44 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:56 | 1 |
| Naphthalene | 10 | J | 39 | 6.1 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:56 | 1 |
| Nitrobenzene | <39 | | 39 | 9.9 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:56 | 1 |
| N-Nitrosodi-n-propylamine | <80 | | 80 | 48 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:56 | 1 |
| N-Nitrosodiphenylamine | <200 | | 200 | 47 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:56 | 1 |
| Pentachlorophenol | <800 | | 800 | 640 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:56 | 1 |
| Phenanthrene | 88 | | 39 | 5.5 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:56 | 1 |
| Phenol | <200 | | 200 | 88 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:56 | 1 |
| Pyrene | 180 | | 39 | 7.9 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 18:56 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2,4,6-Tribromophenol | 71 | | 25 - 130 | | | | 03/30/16 08:24 | 04/06/16 18:56 | 1 |
| 2-Fluorobiphenyl | 83 | | 42 - 115 | | | | 03/30/16 08:24 | 04/06/16 18:56 | 1 |
| 2-Fluorophenol | 105 | | 40 - 130 | | | | 03/30/16 08:24 | 04/06/16 18:56 | 1 |
| Nitrobenzene-d5 | 73 | | 33 - 124 | | | | 03/30/16 08:24 | 04/06/16 18:56 | 1 |
| Phenol-d5 | 104 | | 36 - 123 | | | | 03/30/16 08:24 | 04/06/16 18:56 | 1 |
| Terphenyl-d14 | 107 | | 25 - 150 | | | | 03/30/16 08:24 | 04/06/16 18:56 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|---------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.050 | | 0.050 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 17:23 | 1 |
| Barium | 0.42 | J | 0.50 | 0.050 | mg/L | | 04/01/16 14:34 | 04/02/16 17:23 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 04/01/16 14:34 | 04/02/16 17:23 | 1 |
| Cadmium | 0.0025 | J | 0.0050 | 0.0020 | mg/L | | 04/01/16 14:34 | 04/02/16 17:23 | 1 |
| Chromium | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 17:23 | 1 |
| Cobalt | 0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 17:23 | 1 |
| Copper | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 17:23 | 1 |
| Iron | <0.40 | | 0.40 | 0.20 | mg/L | | 04/01/16 14:34 | 04/02/16 17:23 | 1 |
| Lead | <0.0075 | | 0.0075 | 0.0075 | mg/L | | 04/01/16 14:34 | 04/02/16 17:23 | 1 |
| Manganese | 3.4 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 17:23 | 1 |
| Nickel | 0.017 | J | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 17:23 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/01/16 14:34 | 04/02/16 17:23 | 1 |
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 17:23 | 1 |
| Zinc | 0.24 | J | 0.50 | 0.020 | mg/L | | 04/01/16 14:34 | 04/02/16 17:23 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|---------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.050 | | 0.050 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 19:51 | 1 |
| Barium | 0.063 | J | 0.50 | 0.050 | mg/L | | 04/01/16 14:17 | 04/02/16 19:51 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 04/01/16 14:17 | 04/02/16 19:51 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/01/16 14:17 | 04/02/16 19:51 | 1 |
| Chromium | 0.018 | J | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 19:51 | 1 |
| Cobalt | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 19:51 | 1 |
| Copper | 0.017 | J | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 19:51 | 1 |
| Iron | 13 | | 0.40 | 0.20 | mg/L | | 04/05/16 07:39 | 04/05/16 14:10 | 1 |
| Lead | 0.0099 | | 0.0075 | 0.0075 | mg/L | | 04/01/16 14:17 | 04/02/16 19:51 | 1 |
| Manganese | 0.043 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 19:51 | 1 |
| Nickel | 0.012 | J | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 19:51 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/01/16 14:17 | 04/02/16 19:51 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Client Sample ID: VL12-2(0-5)-032916

Lab Sample ID: 500-109413-5

Date Collected: 03/29/16 09:15

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 82.4

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|--------------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 19:51 | 1 |
| Zinc | 0.046 | J | 0.50 | 0.020 | mg/L | | 04/01/16 14:17 | 04/02/16 19:51 | 1 |

Method: 6010B - Total Metals

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | <1.1 | | 1.1 | 0.23 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:34 | 1 |
| Arsenic | 3.7 | | 0.56 | 0.26 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:34 | 1 |
| Barium | 51 | B | 0.56 | 0.10 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:34 | 1 |
| Beryllium | 0.79 | | 0.22 | 0.048 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:34 | 1 |
| Cadmium | 0.12 | | 0.11 | 0.032 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:34 | 1 |
| Calcium | 4300 | B | 11 | 3.6 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:34 | 1 |
| Chromium | 19 | | 0.56 | 0.096 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:34 | 1 |
| Cobalt | 14 | | 0.28 | 0.063 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:34 | 1 |
| Copper | 37 | | 0.56 | 0.12 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:34 | 1 |
| Iron | 15000 | | 11 | 4.3 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:34 | 1 |
| Lead | 23 | | 0.28 | 0.14 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:34 | 1 |
| Magnesium | 5000 | B | 5.6 | 2.3 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:34 | 1 |
| Manganese | 150 | | 0.56 | 0.11 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:34 | 1 |
| Nickel | 37 | | 0.56 | 0.15 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:34 | 1 |
| Potassium | 1900 | | 28 | 4.6 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:34 | 1 |
| Selenium | <0.56 | | 0.56 | 0.28 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:34 | 1 |
| Silver | <0.28 | | 0.28 | 0.065 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:34 | 1 |
| Sodium | 270 | | 56 | 7.4 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:34 | 1 |
| Thallium | 0.28 | J | 0.56 | 0.27 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:34 | 1 |
| Vanadium | 19 | | 0.28 | 0.082 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:34 | 1 |
| Zinc | 110 | | 1.1 | 0.35 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:34 | 1 |

Method: 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/01/16 15:45 | 04/04/16 13:27 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/01/16 15:45 | 04/04/16 12:31 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Mercury | 41 | | 20 | 11 | ug/Kg | ☼ | 03/30/16 16:15 | 03/31/16 09:58 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-------------|-----------|-------|-------|------|---|----------|----------------|---------|
| pH | 8.16 | | 0.200 | 0.200 | SU | | | 03/31/16 10:55 | 1 |

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Client Sample ID: VL12-2(5-10)-032916

Lab Sample ID: 500-109413-6

Date Collected: 03/29/16 09:20

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 79.0

Method: 8260B - VOC

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Acetone | <25 | | 25 | 4.9 | ug/Kg | ☼ | | 04/01/16 17:49 | 1 |
| Benzene | <6.3 | | 6.3 | 1.4 | ug/Kg | ☼ | | 04/01/16 17:49 | 1 |
| Bromodichloromethane | <6.3 | | 6.3 | 1.1 | ug/Kg | ☼ | | 04/01/16 17:49 | 1 |
| Bromoform | <6.3 | | 6.3 | 1.3 | ug/Kg | ☼ | | 04/01/16 17:49 | 1 |
| Bromomethane | <6.3 | | 6.3 | 2.3 | ug/Kg | ☼ | | 04/01/16 17:49 | 1 |
| Carbon disulfide | <6.3 | | 6.3 | 2.3 | ug/Kg | ☼ | | 04/01/16 17:49 | 1 |
| Carbon tetrachloride | <6.3 | | 6.3 | 1.4 | ug/Kg | ☼ | | 04/01/16 17:49 | 1 |
| Chlorobenzene | <6.3 | | 6.3 | 1.5 | ug/Kg | ☼ | | 04/01/16 17:49 | 1 |
| Chloroethane | <6.3 | | 6.3 | 2.7 | ug/Kg | ☼ | | 04/01/16 17:49 | 1 |
| Chloroform | <6.3 | | 6.3 | 1.2 | ug/Kg | ☼ | | 04/01/16 17:49 | 1 |
| Chloromethane | <6.3 | | 6.3 | 1.5 | ug/Kg | ☼ | | 04/01/16 17:49 | 1 |
| cis-1,2-Dichloroethene | <6.3 | | 6.3 | 1.3 | ug/Kg | ☼ | | 04/01/16 17:49 | 1 |
| cis-1,3-Dichloropropene | <6.3 | | 6.3 | 1.4 | ug/Kg | ☼ | | 04/01/16 17:49 | 1 |
| Dibromochloromethane | <6.3 | | 6.3 | 0.73 | ug/Kg | ☼ | | 04/01/16 17:49 | 1 |
| 1,1-Dichloroethane | <6.3 | | 6.3 | 1.3 | ug/Kg | ☼ | | 04/01/16 17:49 | 1 |
| 1,2-Dichloroethane | <6.3 | | 6.3 | 0.94 | ug/Kg | ☼ | | 04/01/16 17:49 | 1 |
| 1,1-Dichloroethene | <6.3 | | 6.3 | 2.3 | ug/Kg | ☼ | | 04/01/16 17:49 | 1 |
| 1,2-Dichloropropane | <6.3 | | 6.3 | 1.7 | ug/Kg | ☼ | | 04/01/16 17:49 | 1 |
| 1,3-Dichloropropene, Total | <6.3 | | 6.3 | 1.8 | ug/Kg | ☼ | | 04/01/16 17:49 | 1 |
| Ethylbenzene | <6.3 | | 6.3 | 1.6 | ug/Kg | ☼ | | 04/01/16 17:49 | 1 |
| 2-Hexanone | <6.3 | | 6.3 | 2.0 | ug/Kg | ☼ | | 04/01/16 17:49 | 1 |
| Methylene Chloride | <6.3 | | 6.3 | 4.8 | ug/Kg | ☼ | | 04/01/16 17:49 | 1 |
| Methyl Ethyl Ketone | <6.3 | | 6.3 | 2.3 | ug/Kg | ☼ | | 04/01/16 17:49 | 1 |
| methyl isobutyl ketone | <6.3 | | 6.3 | 1.3 | ug/Kg | ☼ | | 04/01/16 17:49 | 1 |
| Methyl tert-butyl ether | <6.3 | | 6.3 | 1.5 | ug/Kg | ☼ | | 04/01/16 17:49 | 1 |
| Styrene | <6.3 | | 6.3 | 1.5 | ug/Kg | ☼ | | 04/01/16 17:49 | 1 |
| 1,1,2,2-Tetrachloroethane | <6.3 | | 6.3 | 1.0 | ug/Kg | ☼ | | 04/01/16 17:49 | 1 |
| Tetrachloroethene | <6.3 | | 6.3 | 1.3 | ug/Kg | ☼ | | 04/01/16 17:49 | 1 |
| Toluene | <6.3 | | 6.3 | 2.2 | ug/Kg | ☼ | | 04/01/16 17:49 | 1 |
| trans-1,2-Dichloroethene | <6.3 | | 6.3 | 1.6 | ug/Kg | ☼ | | 04/01/16 17:49 | 1 |
| trans-1,3-Dichloropropene | <6.3 | | 6.3 | 1.8 | ug/Kg | ☼ | | 04/01/16 17:49 | 1 |
| 1,1,1-Trichloroethane | <6.3 | | 6.3 | 1.5 | ug/Kg | ☼ | | 04/01/16 17:49 | 1 |
| 1,1,2-Trichloroethane | <6.3 | | 6.3 | 1.2 | ug/Kg | ☼ | | 04/01/16 17:49 | 1 |
| Trichloroethene | <6.3 | | 6.3 | 1.7 | ug/Kg | ☼ | | 04/01/16 17:49 | 1 |
| Vinyl chloride | <6.3 | | 6.3 | 1.5 | ug/Kg | ☼ | | 04/01/16 17:49 | 1 |
| Xylenes, Total | <13 | | 13 | 2.3 | ug/Kg | ☼ | | 04/01/16 17:49 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 103 | | 70 - 120 | | 04/01/16 17:49 | 1 |
| Dibromofluoromethane | 113 | | 75 - 120 | | 04/01/16 17:49 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 111 | | 69 - 134 | | 04/01/16 17:49 | 1 |
| Toluene-d8 (Surr) | 118 | | 75 - 123 | | 04/01/16 17:49 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,2,4-Trichlorobenzene | <210 | | 210 | 45 | ug/Kg | ☼ | 03/30/16 08:24 | 04/05/16 15:00 | 1 |
| 1,2-Dichlorobenzene | <210 | | 210 | 50 | ug/Kg | ☼ | 03/30/16 08:24 | 04/05/16 15:00 | 1 |
| 1,3-Dichlorobenzene | <210 | | 210 | 47 | ug/Kg | ☼ | 03/30/16 08:24 | 04/05/16 15:00 | 1 |
| 1,4-Dichlorobenzene | <210 | | 210 | 53 | ug/Kg | ☼ | 03/30/16 08:24 | 04/05/16 15:00 | 1 |
| 2,2'-oxybis[1-chloropropane] | <210 | | 210 | 48 | ug/Kg | ☼ | 03/30/16 08:24 | 04/05/16 15:00 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Client Sample ID: VL12-2(5-10)-032916

Lab Sample ID: 500-109413-6

Date Collected: 03/29/16 09:20

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 79.0

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol | <410 | | 410 | 95 | ug/Kg | ☼ | 03/30/16 08:24 | 04/05/16 15:00 | 1 |
| 2,4,6-Trichlorophenol | <410 | | 410 | 140 | ug/Kg | ☼ | 03/30/16 08:24 | 04/05/16 15:00 | 1 |
| 2,4-Dichlorophenol | <410 | | 410 | 98 | ug/Kg | ☼ | 03/30/16 08:24 | 04/05/16 15:00 | 1 |
| 2,4-Dimethylphenol | <410 | | 410 | 160 | ug/Kg | ☼ | 03/30/16 08:24 | 04/05/16 15:00 | 1 |
| 2,4-Dinitrophenol | <840 | | 840 | 730 | ug/Kg | ☼ | 03/30/16 08:24 | 04/05/16 15:00 | 1 |
| 2,4-Dinitrotoluene | <210 | | 210 | 66 | ug/Kg | ☼ | 03/30/16 08:24 | 04/05/16 15:00 | 1 |
| 2,6-Dinitrotoluene | <210 | | 210 | 81 | ug/Kg | ☼ | 03/30/16 08:24 | 04/05/16 15:00 | 1 |
| 2-Chloronaphthalene | <210 | | 210 | 46 | ug/Kg | ☼ | 03/30/16 08:24 | 04/05/16 15:00 | 1 |
| 2-Chlorophenol | <210 | | 210 | 71 | ug/Kg | ☼ | 03/30/16 08:24 | 04/05/16 15:00 | 1 |
| 2-Methylnaphthalene | <41 | | 41 | 7.6 | ug/Kg | ☼ | 03/30/16 08:24 | 04/05/16 15:00 | 1 |
| 2-Methylphenol | <210 | | 210 | 67 | ug/Kg | ☼ | 03/30/16 08:24 | 04/05/16 15:00 | 1 |
| 2-Nitroaniline | <210 | | 210 | 56 | ug/Kg | ☼ | 03/30/16 08:24 | 04/05/16 15:00 | 1 |
| 2-Nitrophenol | <410 | | 410 | 98 | ug/Kg | ☼ | 03/30/16 08:24 | 04/05/16 15:00 | 1 |
| 3 & 4 Methylphenol | <210 | | 210 | 69 | ug/Kg | ☼ | 03/30/16 08:24 | 04/05/16 15:00 | 1 |
| 3,3'-Dichlorobenzidine | <210 | | 210 | 58 | ug/Kg | ☼ | 03/30/16 08:24 | 04/05/16 15:00 | 1 |
| 3-Nitroaniline | <410 | | 410 | 130 | ug/Kg | ☼ | 03/30/16 08:24 | 04/05/16 15:00 | 1 |
| 4,6-Dinitro-2-methylphenol | <840 | | 840 | 330 | ug/Kg | ☼ | 03/30/16 08:24 | 04/05/16 15:00 | 1 |
| 4-Bromophenyl phenyl ether | <210 | | 210 | 55 | ug/Kg | ☼ | 03/30/16 08:24 | 04/05/16 15:00 | 1 |
| 4-Chloro-3-methylphenol | <410 | | 410 | 140 | ug/Kg | ☼ | 03/30/16 08:24 | 04/05/16 15:00 | 1 |
| 4-Chloroaniline | <840 | | 840 | 190 | ug/Kg | ☼ | 03/30/16 08:24 | 04/05/16 15:00 | 1 |
| 4-Chlorophenyl phenyl ether | <210 | | 210 | 48 | ug/Kg | ☼ | 03/30/16 08:24 | 04/05/16 15:00 | 1 |
| 4-Nitroaniline | <410 | | 410 | 170 | ug/Kg | ☼ | 03/30/16 08:24 | 04/05/16 15:00 | 1 |
| 4-Nitrophenol | <840 | | 840 | 390 | ug/Kg | ☼ | 03/30/16 08:24 | 04/05/16 15:00 | 1 |
| Acenaphthene | <41 | | 41 | 7.5 | ug/Kg | ☼ | 03/30/16 08:24 | 04/05/16 15:00 | 1 |
| Acenaphthylene | <41 | | 41 | 5.5 | ug/Kg | ☼ | 03/30/16 08:24 | 04/05/16 15:00 | 1 |
| Anthracene | <41 | | 41 | 6.9 | ug/Kg | ☼ | 03/30/16 08:24 | 04/05/16 15:00 | 1 |
| Benzo[a]anthracene | 6.9 J | | 41 | 5.6 | ug/Kg | ☼ | 03/30/16 08:24 | 04/05/16 15:00 | 1 |
| Benzo[a]pyrene | <41 | | 41 | 8.0 | ug/Kg | ☼ | 03/30/16 08:24 | 04/05/16 15:00 | 1 |
| Benzo[b]fluoranthene | <41 | | 41 | 8.9 | ug/Kg | ☼ | 03/30/16 08:24 | 04/05/16 15:00 | 1 |
| Benzo[g,h,i]perylene | <41 | | 41 | 13 | ug/Kg | ☼ | 03/30/16 08:24 | 04/05/16 15:00 | 1 |
| Benzo[k]fluoranthene | <41 | | 41 | 12 | ug/Kg | ☼ | 03/30/16 08:24 | 04/05/16 15:00 | 1 |
| Bis(2-chloroethoxy)methane | <210 | | 210 | 42 | ug/Kg | ☼ | 03/30/16 08:24 | 04/05/16 15:00 | 1 |
| Bis(2-chloroethyl)ether | <210 | | 210 | 62 | ug/Kg | ☼ | 03/30/16 08:24 | 04/05/16 15:00 | 1 |
| Bis(2-ethylhexyl) phthalate | <210 | | 210 | 76 | ug/Kg | ☼ | 03/30/16 08:24 | 04/05/16 15:00 | 1 |
| Butyl benzyl phthalate | <210 | | 210 | 79 | ug/Kg | ☼ | 03/30/16 08:24 | 04/05/16 15:00 | 1 |
| Carbazole | <210 | | 210 | 100 | ug/Kg | ☼ | 03/30/16 08:24 | 04/05/16 15:00 | 1 |
| Chrysene | 19 J | | 41 | 11 | ug/Kg | ☼ | 03/30/16 08:24 | 04/05/16 15:00 | 1 |
| Dibenz(a,h)anthracene | <41 | | 41 | 8.0 | ug/Kg | ☼ | 03/30/16 08:24 | 04/05/16 15:00 | 1 |
| Dibenzofuran | <210 | | 210 | 49 | ug/Kg | ☼ | 03/30/16 08:24 | 04/05/16 15:00 | 1 |
| Diethyl phthalate | <210 | | 210 | 70 | ug/Kg | ☼ | 03/30/16 08:24 | 04/05/16 15:00 | 1 |
| Dimethyl phthalate | <210 | | 210 | 54 | ug/Kg | ☼ | 03/30/16 08:24 | 04/05/16 15:00 | 1 |
| Di-n-butyl phthalate | <210 | | 210 | 63 | ug/Kg | ☼ | 03/30/16 08:24 | 04/05/16 15:00 | 1 |
| Di-n-octyl phthalate | <210 | | 210 | 68 | ug/Kg | ☼ | 03/30/16 08:24 | 04/05/16 15:00 | 1 |
| Fluoranthene | 8.5 J | | 41 | 7.7 | ug/Kg | ☼ | 03/30/16 08:24 | 04/05/16 15:00 | 1 |
| Fluorene | <41 | | 41 | 5.8 | ug/Kg | ☼ | 03/30/16 08:24 | 04/05/16 15:00 | 1 |
| Hexachlorobenzene | <84 | | 84 | 9.6 | ug/Kg | ☼ | 03/30/16 08:24 | 04/05/16 15:00 | 1 |
| Hexachlorobutadiene | <210 | | 210 | 65 | ug/Kg | ☼ | 03/30/16 08:24 | 04/05/16 15:00 | 1 |
| Hexachlorocyclopentadiene | <840 | | 840 | 240 | ug/Kg | ☼ | 03/30/16 08:24 | 04/05/16 15:00 | 1 |
| Hexachloroethane | <210 | | 210 | 63 | ug/Kg | ☼ | 03/30/16 08:24 | 04/05/16 15:00 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Client Sample ID: VL12-2(5-10)-032916

Lab Sample ID: 500-109413-6

Date Collected: 03/29/16 09:20

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 79.0

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Indeno[1,2,3-cd]pyrene | <41 | | 41 | 11 | ug/Kg | ☼ | 03/30/16 08:24 | 04/05/16 15:00 | 1 |
| Isophorone | <210 | | 210 | 47 | ug/Kg | ☼ | 03/30/16 08:24 | 04/05/16 15:00 | 1 |
| Naphthalene | <41 | | 41 | 6.4 | ug/Kg | ☼ | 03/30/16 08:24 | 04/05/16 15:00 | 1 |
| Nitrobenzene | <41 | | 41 | 10 | ug/Kg | ☼ | 03/30/16 08:24 | 04/05/16 15:00 | 1 |
| N-Nitrosodi-n-propylamine | <84 | | 84 | 51 | ug/Kg | ☼ | 03/30/16 08:24 | 04/05/16 15:00 | 1 |
| N-Nitrosodiphenylamine | <210 | | 210 | 49 | ug/Kg | ☼ | 03/30/16 08:24 | 04/05/16 15:00 | 1 |
| Pentachlorophenol | <840 | | 840 | 670 | ug/Kg | ☼ | 03/30/16 08:24 | 04/05/16 15:00 | 1 |
| Phenanthrene | 26 | J | 41 | 5.8 | ug/Kg | ☼ | 03/30/16 08:24 | 04/05/16 15:00 | 1 |
| Phenol | <210 | | 210 | 92 | ug/Kg | ☼ | 03/30/16 08:24 | 04/05/16 15:00 | 1 |
| Pyrene | 26 | J | 41 | 8.2 | ug/Kg | ☼ | 03/30/16 08:24 | 04/05/16 15:00 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2,4,6-Tribromophenol | 85 | | 25 - 130 | | | | 03/30/16 08:24 | 04/05/16 15:00 | 1 |
| 2-Fluorobiphenyl | 77 | | 42 - 115 | | | | 03/30/16 08:24 | 04/05/16 15:00 | 1 |
| 2-Fluorophenol | 86 | | 40 - 130 | | | | 03/30/16 08:24 | 04/05/16 15:00 | 1 |
| Nitrobenzene-d5 | 68 | | 33 - 124 | | | | 03/30/16 08:24 | 04/05/16 15:00 | 1 |
| Phenol-d5 | 77 | | 36 - 123 | | | | 03/30/16 08:24 | 04/05/16 15:00 | 1 |
| Terphenyl-d14 | 114 | | 25 - 150 | | | | 03/30/16 08:24 | 04/05/16 15:00 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.050 | | 0.050 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 17:28 | 1 |
| Barium | 0.28 | J | 0.50 | 0.050 | mg/L | | 04/01/16 14:34 | 04/02/16 17:28 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 04/01/16 14:34 | 04/02/16 17:28 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/01/16 14:34 | 04/02/16 17:28 | 1 |
| Chromium | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 17:28 | 1 |
| Cobalt | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 17:28 | 1 |
| Copper | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 17:28 | 1 |
| Iron | <0.40 | | 0.40 | 0.20 | mg/L | | 04/01/16 14:34 | 04/02/16 17:28 | 1 |
| Lead | <0.0075 | | 0.0075 | 0.0075 | mg/L | | 04/01/16 14:34 | 04/02/16 17:28 | 1 |
| Manganese | 1.3 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 17:28 | 1 |
| Nickel | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 17:28 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/01/16 14:34 | 04/02/16 17:28 | 1 |
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 17:28 | 1 |
| Zinc | 0.030 | J | 0.50 | 0.020 | mg/L | | 04/01/16 14:34 | 04/02/16 17:28 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|---------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.049 | J | 0.050 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 19:55 | 1 |
| Barium | 0.39 | J | 0.50 | 0.050 | mg/L | | 04/01/16 14:17 | 04/02/16 19:55 | 1 |
| Beryllium | 0.0062 | | 0.0040 | 0.0040 | mg/L | | 04/01/16 14:17 | 04/02/16 19:55 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/01/16 14:17 | 04/02/16 19:55 | 1 |
| Chromium | 0.15 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 19:55 | 1 |
| Cobalt | 0.065 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 19:55 | 1 |
| Copper | 0.17 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 19:55 | 1 |
| Iron | 190 | | 0.40 | 0.20 | mg/L | | 04/05/16 07:39 | 04/05/16 14:26 | 1 |
| Lead | 0.12 | | 0.0075 | 0.0075 | mg/L | | 04/01/16 14:17 | 04/02/16 19:55 | 1 |
| Manganese | 0.73 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 19:55 | 1 |
| Nickel | 0.18 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 19:55 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/01/16 14:17 | 04/02/16 19:55 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Client Sample ID: VL12-2(5-10)-032916

Lab Sample ID: 500-109413-6

Date Collected: 03/29/16 09:20

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 79.0

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|-------------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 19:55 | 1 |
| Zinc | 0.77 | | 0.50 | 0.020 | mg/L | | 04/01/16 14:17 | 04/02/16 19:55 | 1 |

Method: 6010B - Total Metals

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | <1.1 | | 1.1 | 0.23 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:38 | 1 |
| Arsenic | 8.0 | | 0.56 | 0.26 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:38 | 1 |
| Barium | 35 | B | 0.56 | 0.10 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:38 | 1 |
| Beryllium | 0.71 | | 0.22 | 0.048 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:38 | 1 |
| Cadmium | <0.11 | | 0.11 | 0.032 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:38 | 1 |
| Calcium | 13000 | B | 11 | 3.6 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:38 | 1 |
| Chromium | 17 | | 0.56 | 0.096 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:38 | 1 |
| Cobalt | 15 | | 0.28 | 0.063 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:38 | 1 |
| Copper | 24 | | 0.56 | 0.12 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:38 | 1 |
| Iron | 21000 | | 11 | 4.3 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:38 | 1 |
| Lead | 18 | | 0.28 | 0.14 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:38 | 1 |
| Magnesium | 9400 | B | 5.6 | 2.3 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:38 | 1 |
| Manganese | 150 | | 0.56 | 0.11 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:38 | 1 |
| Nickel | 42 | | 0.56 | 0.15 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:38 | 1 |
| Potassium | 2600 | | 28 | 4.5 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:38 | 1 |
| Selenium | <0.56 | | 0.56 | 0.27 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:38 | 1 |
| Silver | <0.28 | | 0.28 | 0.065 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:38 | 1 |
| Sodium | 370 | | 56 | 7.3 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:38 | 1 |
| Thallium | 0.61 | | 0.56 | 0.27 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:38 | 1 |
| Vanadium | 22 | | 0.28 | 0.081 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:38 | 1 |
| Zinc | 110 | | 1.1 | 0.35 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:38 | 1 |

Method: 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/01/16 15:45 | 04/04/16 13:29 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/01/16 15:45 | 04/04/16 12:33 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Mercury | 34 | | 19 | 9.8 | ug/Kg | ☼ | 03/30/16 16:15 | 03/31/16 10:08 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-------------|-----------|-------|-------|------|---|----------|----------------|---------|
| pH | 8.32 | | 0.200 | 0.200 | SU | | | 03/31/16 10:59 | 1 |

Definitions/Glossary

Client: Environmental Design International, Inc.
Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Qualifiers

GC/MS VOA

| Qualifier | Qualifier Description |
|-----------|--|
| F1 | MS and/or MSD Recovery is outside acceptance limits. |

GC/MS Semi VOA

| Qualifier | Qualifier Description |
|-----------|--|
| F2 | MS/MSD RPD exceeds control limits |
| F1 | MS and/or MSD Recovery is outside acceptance limits. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| E | Result exceeded calibration range. |
| X | Surrogate is outside control limits |

Metals

| Qualifier | Qualifier Description |
|-----------|--|
| F1 | MS and/or MSD Recovery is outside acceptance limits. |
| F2 | MS/MSD RPD exceeds control limits |
| B | Compound was found in the blank and sample. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| ^ | ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits. |
| F5 | Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL. |
| F3 | Duplicate RPD exceeds the control limit |
| 4 | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |

Glossary

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

Certification Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|-----------|---------|------------|------------------|-----------------|
| Illinois | NELAP | 5 | 100201 | 04-30-17 |

The following analytes are included in this report, but certification is not offered by the governing authority:

| Analysis Method | Prep Method | Matrix | Analyte |
|-----------------|-------------|--------|----------------------------|
| 8260B | | Solid | 1,3-Dichloropropene, Total |
| 8260B | 5030B | Solid | 1,3-Dichloropropene, Total |
| Moisture | | Solid | Percent Moisture |
| Moisture | | Solid | Percent Solids |

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING


2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To _____ (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

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

Chain of Custody Record

Lab Job #: 500-109413
 Chain of Custody Number: _____
 Page 1 of 3
 Temperature °C of Cooler: 4.7, 5.4

| Client | | Client Project # | | Preservative | | Parameter | | | | | Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. I to 4° 4. Cool to 4°  500-109413 COC Comments |
|------------------------|---------------------|------------------|------|-----------------|---|-----------|-------|--------------|------------------|----|--|
| Project Name | | Lab Project # | | Matrix | | VOCs | SVOCs | Total Metals | TCCLP/SPL Metals | pH | |
| Project Location/State | | Lab PM | | # of Containers | | | | | | | |
| Sampler | | Date | | Time | | | | | | | |
| 1 | BB-2(0-4)-032916 | 3/24/16 | 0810 | 2 | 5 | X | X | X | X | X | |
| 2 | BB-2(0-4)-032916D | | 0815 | | | | | | | | |
| 3 | BB-1(0-5)-032916 | | 0855 | | | | | | | | |
| 4 | BB-1(5-10)-032916 | | 0900 | | | | | | | | |
| 5 | VL12-2(0-5)-032916 | | 0915 | | | | | | | | |
| 6 | VL12-2(5-10)-032916 | | 0920 | | | | | | | | |
| 7 | VL12-1(0-5)-032916 | | 0940 | | | | | | | | |
| 8 | VL12-1(5-10)-032916 | | 0945 | | | | | | | | |
| 9 | VL16-1(0-4)-032916 | | 1005 | | | | | | | | |
| 10 | R17-2(0-5)-032916 | | 1025 | | | X | X | X | X | X | |

Turnaround Time Required (Business Days) _____
 Requested Due Date _____
 Sample Disposal: Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

| | | |
|--|---|------------------------|
| Relinquished By: <u>[Signature]</u> Company: <u>EDI</u> Date: <u>3/24/16</u> Time: <u>1530</u> | Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/29/16</u> Time: <u>1530</u> | Lab Courier: <u>TA</u> |
| Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/29/16</u> Time: <u>1003</u> | Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>03/29/16</u> Time: <u>10:03</u> | Shipped: _____ |
| Relinquished By: _____ | Received By: _____ | Hand Delivered: _____ |

- Matrix Key
- WW - Wastewater
 - W - Water
 - S - Soil
 - SL - Sludge
 - MS - Miscellaneous
 - OL - Oil
 - A - Air
 - SE - Sediment
 - SO - Soil
 - L - Leachate
 - WI - Wipe
 - DW - Drinking Water
 - O - Other

Client Comments: _____
 Lab Comments: _____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

| | |
|----------------------------|--------------------------|
| Report To _____ (optional) | Bill To _____ (optional) |
| Contact: _____ | Contact: _____ |
| Company: _____ | Company: _____ |
| Address: _____ | Address: _____ |
| Address: _____ | Address: _____ |
| Phone: _____ | Phone: _____ |
| Fax: _____ | Fax: _____ |
| E-Mail: _____ | PO#/Reference# _____ |

Chain of Custody Record

Lab Job #: 500-109413
 Chain of Custody Number: _____
 Page 2 of 3
 Temperature °C of Cooler: 4.7, 5.4

| Client | | Client Project # | | Preservative | | Parameter | | Comments | | | | | | | | | | | | |
|---------------|--------|------------------------|----------|---------------|-----------------|-----------|-------|---|--------------|-------------------|---|--|--|--|--|--|--|--|--|--|
| EDI | | 02P.022 | | | | | | Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other | | | | | | | | | | | | |
| Project Name | | Project Location/State | | Lab Project # | | Lab PM | | | | | | | | | | | | | | |
| IDOT - Hervey | | Hervey, IL | | | | | | | | | | | | | | | | | | |
| Sampler | | Lab Project # | | Lab PM | | | | | | | | | | | | | | | | |
| Glor Pano | | | | | | | | | | | | | | | | | | | | |
| Lab ID | MS/MSD | Sample ID | Sampling | | # of Containers | Matrix | Voc's | Cvoc's | Total Metals | Trace/Semi Metals | H | | | | | | | | | |
| | | | Date | Time | | | | | | | | | | | | | | | | |
| 11 | | R17-2(5-10)-032916 | 3/29/16 | 1030 | 2 | S | X | X | X | X | X | | | | | | | | | |
| 12 | | R17-2(10-15)-032916 | | 1035 | | | | | | | | | | | | | | | | |
| 13 | | R17-2(10-15)-032916 D | | 1040 | | | | | | | | | | | | | | | | |
| 14 | | R17-1(0-4)-032916 | | 1100 | | | | | | | | | | | | | | | | |
| 15 | | R17-1(4-8)-032916 | | 1105 | | | | | | | | | | | | | | | | |
| 16 | | PM-1(0-4)-032916 | | 1215 | | | | | | | | | | | | | | | | |
| 17 | | PM-1(4-7)-032916 | | 1220 | | | | | | | | | | | | | | | | |
| 18 | | PM-2(0-4)-032916 | | 1235 | | | | | | | | | | | | | | | | |
| 19 | | PM-3(0-4)-032916 | | 1245 | | | | | | | | | | | | | | | | |
| 20 | | PM-3(0-4)-032916 D | X | 1250 | | | X | X | X | X | X | | | | | | | | | |

Turnaround Time Required (Business Days)
 ___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days ___ Other

Requested Due Date _____

Sample Disposal
 Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

| | | |
|--|---|------------------------|
| Relinquished By: <u>[Signature]</u> Company: <u>EDI</u> Date: <u>3/29/16</u> Time: <u>1530</u> | Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/29/16</u> Time: <u>1530</u> | Lab Courier: <u>TA</u> |
| Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/29/16</u> Time: <u>1603</u> | Received By: <u>[Signature]</u> Company: <u>TA-UMT</u> Date: <u>03/29/16</u> Time: <u>16:03</u> | Shipped: _____ |
| Relinquished By: _____ Company: _____ Date: _____ Time: _____ | Received By: _____ Company: _____ Date: _____ Time: _____ | Hand Delivered: _____ |

- Matrix Key
- WW - Wastewater
 - W - Water
 - S - Soil
 - SL - Sludge
 - MS - Miscellaneous
 - OL - Oil
 - A - Air
 - SE - Sediment
 - SO - Soil
 - L - Leachate
 - WI - Wipe
 - DW - Drinking Water
 - O - Other

Client Comments: _____

Lab Comments: _____



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

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

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

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

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

I. Source Location Information

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

Project Name: FAU 3597: IL Route 1 (Halsted St) at Vincennes Rd Office Phone Number, if available: _____

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

15209 S. Halsted Street (ISGS Site No. 2553V-16)

City: Phoenix State: IL Zip Code: _____

County: Cook Township: _____

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

Latitude: 41.61318056 Longitude: -87.63634444

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

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

Project Name: FAU 3597: IL Route 1 (Halsted St) at Vincennes

Latitude: 41.61318056 Longitude: -87.63634444

Uncontaminated Site Certification

III. Basis for Certification and Attachments

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

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

LOCATION VL16-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2553V-16. SEE FIGURE 3-1 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

- 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]:

TEST AMERICA REPORTS - JOB ID: 500-109413-1.
ALSO SEE FIGURE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

I, William F. Karlovitz, P.E. (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: Weston Solutions, Inc.

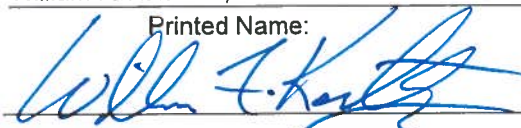
Street Address: 300 Circle Plaza; Suite 202

City: Mundelein State: IL Zip Code: 60060

Phone: (224) 864-7200

William F. Karlovitz, P.E.

Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

17 May 2016

Date:



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

Summary Table of ISGS Site No. 2553V-16
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAU 3597: Illinois Route 1 (Halsted Street) at Vincennes Road
Harvey, Cook County, Illinois

| Field Sample ID | VL16-1(0-4)-032916 | Soil Reference Concentrations^A |
|-----------------------------|--------------------|--|
| Sample Date | 3/29/2016 | |
| Location ID | VL16-1 | |
| Depth | 0 - 4 | |
| Lab Sample ID | 500-109413-9 | |
| ISGS Site No. | 2553V-16 | |
| Parameter | | |
| Laboratory pH | 8.00 | <6.25,>9.0 |
| VOCs (ug/kg) | None Detected | |
| SVOCs (ug/kg) | | |
| 2-Methylnaphthalene | 24 J | --- |
| Acenaphthene | 22 J | 570000 |
| Acenaphthylene | 13 J | --- |
| Anthracene | 32 J | 1.20E+07 |
| Benzo(a)anthracene | 240 | 900 / 1100 / 1800 |
| Benzo(a)pyrene | 350 | 90 / 1300 / 2100 |
| Benzo(b)fluoranthene | 490 | 900 / 1500 / 2100 |
| Benzo(g,h,i)perylene | 150 | --- |
| Benzo(k)fluoranthene | 200 | 9000 |
| Chrysene | 310 | 88000 |
| Dibenzo(a,h)anthracene | 41 | 90 / 200 / 420 |
| Fluoranthene | 450 | 3100000 |
| Fluorene | 17 J | 560000 |
| Indeno(1,2,3-cd)pyrene | 140 | 900 / 900 / 1600 |
| Naphthalene, SVOC | 16 J | 1800 |
| Phenanthrene | 340 | --- |
| Pyrene | 770 | 2300000 |
| Total Metals (mg/kg) | | |
| Arsenic, Total | 6 J | 11.3 / 13.0 |
| Barium, Total | 44 J | 1500 |
| Beryllium, Total | 0.77 | 22 |
| Cadmium, Total | 0.09 J | 5.2 |
| Calcium, Total | 7300 J | --- |
| Chromium, Total | 17 J | 21 |
| Cobalt, Total | 12 J | 20 |
| Copper, Total | 24 J | 2900 |
| Iron, Total | 18000 J | 15000 / 15900 |
| Lead, Total | 25 J | 107 |
| Magnesium, Total | 6200 J | 325000 |
| Manganese, Total | 110 J | 630 / 636 |
| Mercury, Total | 0.08 | 0.89 |
| Nickel, Total | 36 J | 100 |
| Potassium, Total | 2000 J | --- |
| Sodium, Total | 970 J | --- |
| Thallium, Total | 0.28 J | 2.6 |
| Vanadium, Total | 24 J | 550 |
| Zinc, Total | 85 J | 5100 |
| TCLP Metals (mg/l) | | |
| Arsenic, TCLP | ND | 0.05 |
| Barium, TCLP | 0.29 J | 2 |
| Beryllium, TCLP | ND | 0.004 |
| Cadmium, TCLP | ND | 0.005 |
| Chromium, TCLP | ND | 0.1 |
| Cobalt, TCLP | ND | 1 |
| Copper, TCLP | ND | 0.65 |
| Iron, TCLP | ND | 5 |
| Lead, TCLP | ND | 0.0075 |
| Manganese, TCLP | 0.33 | 0.15 |
| Mercury, TCLP | ND | 0.002 |
| Nickel, TCLP | ND | 0.1 |
| Zinc, TCLP | ND | 5 |

Summary Table of ISGS Site No. 2553V-16
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAU 3597: Illinois Route 1 (Halsted Street) at Vincennes Road
Harvey, Cook County, Illinois

| Field Sample ID | VL16-1(0-4)-032916 | Soil Reference Concentrations^A |
|---------------------------|--------------------|--|
| Sample Date | 3/29/2016 | |
| Location ID | VL16-1 | |
| Depth | 0 - 4 | |
| Lab Sample ID | 500-109413-9 | |
| ISGS Site No. | 2553V-16 | |
| Parameter | | |
| SPLP Metals (mg/l) | | |
| Arsenic, SPLP | 0.089 | 0.05 |
| Barium, SPLP | 0.56 | 2 |
| Beryllium, SPLP | 0.01 | 0.004 |
| Cadmium, SPLP | ND | 0.005 |
| Chromium, SPLP | 0.22 | 0.1 |
| Cobalt, SPLP | 0.097 | 1 |
| Copper, SPLP | 0.29 | 0.65 |
| Iron, SPLP | 200 | 5 |
| Lead, SPLP | 0.25 | 0.0075 |
| Manganese, SPLP | 0.81 | 0.15 |
| Mercury, SPLP | ND | 0.002 |
| Nickel, SPLP | 0.29 | 0.1 |
| Zinc, SPLP | 0.92 | 5 |

Notes:

--- - not applicable or value not available.

^A - Soil reference concentrations from MAC Table. Background values for MSA Counties and Chicago corporate limits are included, as applicable.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

Shaded values indicate concentration **exceeds** Reference Concentration.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-109413-1

Client Project/Site: IDOT - Harvey IL Route 113 - WO 041

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

Attn: Ms. Patricia Feeley

Jodie Bracken

Authorized for release by:
4/7/2016 3:38:11 PM

Jodie Bracken, Project Management Assistant II
jodie.bracken@testamericainc.com

Designee for

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.

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

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Client Sample ID: VL16-1(0-4)-032916

Lab Sample ID: 500-109413-9

Date Collected: 03/29/16 10:05

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 84.4

Method: 8260B - VOC

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Acetone | <24 | | 24 | 4.6 | ug/Kg | ☼ | | 04/01/16 18:37 | 1 |
| Benzene | <5.9 | | 5.9 | 1.3 | ug/Kg | ☼ | | 04/01/16 18:37 | 1 |
| Bromodichloromethane | <5.9 | | 5.9 | 1.0 | ug/Kg | ☼ | | 04/01/16 18:37 | 1 |
| Bromoform | <5.9 | | 5.9 | 1.2 | ug/Kg | ☼ | | 04/01/16 18:37 | 1 |
| Bromomethane | <5.9 | | 5.9 | 2.2 | ug/Kg | ☼ | | 04/01/16 18:37 | 1 |
| Carbon disulfide | <5.9 | | 5.9 | 2.2 | ug/Kg | ☼ | | 04/01/16 18:37 | 1 |
| Carbon tetrachloride | <5.9 | | 5.9 | 1.3 | ug/Kg | ☼ | | 04/01/16 18:37 | 1 |
| Chlorobenzene | <5.9 | | 5.9 | 1.4 | ug/Kg | ☼ | | 04/01/16 18:37 | 1 |
| Chloroethane | <5.9 | | 5.9 | 2.5 | ug/Kg | ☼ | | 04/01/16 18:37 | 1 |
| Chloroform | <5.9 | | 5.9 | 1.2 | ug/Kg | ☼ | | 04/01/16 18:37 | 1 |
| Chloromethane | <5.9 | | 5.9 | 1.4 | ug/Kg | ☼ | | 04/01/16 18:37 | 1 |
| cis-1,2-Dichloroethene | <5.9 | | 5.9 | 1.2 | ug/Kg | ☼ | | 04/01/16 18:37 | 1 |
| cis-1,3-Dichloropropene | <5.9 | | 5.9 | 1.4 | ug/Kg | ☼ | | 04/01/16 18:37 | 1 |
| Dibromochloromethane | <5.9 | | 5.9 | 0.68 | ug/Kg | ☼ | | 04/01/16 18:37 | 1 |
| 1,1-Dichloroethane | <5.9 | | 5.9 | 1.2 | ug/Kg | ☼ | | 04/01/16 18:37 | 1 |
| 1,2-Dichloroethane | <5.9 | | 5.9 | 0.88 | ug/Kg | ☼ | | 04/01/16 18:37 | 1 |
| 1,1-Dichloroethene | <5.9 | | 5.9 | 2.2 | ug/Kg | ☼ | | 04/01/16 18:37 | 1 |
| 1,2-Dichloropropane | <5.9 | | 5.9 | 1.6 | ug/Kg | ☼ | | 04/01/16 18:37 | 1 |
| 1,3-Dichloropropene, Total | <5.9 | | 5.9 | 1.7 | ug/Kg | ☼ | | 04/01/16 18:37 | 1 |
| Ethylbenzene | <5.9 | | 5.9 | 1.5 | ug/Kg | ☼ | | 04/01/16 18:37 | 1 |
| 2-Hexanone | <5.9 | | 5.9 | 1.8 | ug/Kg | ☼ | | 04/01/16 18:37 | 1 |
| Methylene Chloride | <5.9 | | 5.9 | 4.5 | ug/Kg | ☼ | | 04/01/16 18:37 | 1 |
| Methyl Ethyl Ketone | <5.9 | | 5.9 | 2.1 | ug/Kg | ☼ | | 04/01/16 18:37 | 1 |
| methyl isobutyl ketone | <5.9 | | 5.9 | 1.2 | ug/Kg | ☼ | | 04/01/16 18:37 | 1 |
| Methyl tert-butyl ether | <5.9 | | 5.9 | 1.4 | ug/Kg | ☼ | | 04/01/16 18:37 | 1 |
| Styrene | <5.9 | | 5.9 | 1.4 | ug/Kg | ☼ | | 04/01/16 18:37 | 1 |
| 1,1,2,2-Tetrachloroethane | <5.9 | | 5.9 | 0.94 | ug/Kg | ☼ | | 04/01/16 18:37 | 1 |
| Tetrachloroethene | <5.9 | | 5.9 | 1.2 | ug/Kg | ☼ | | 04/01/16 18:37 | 1 |
| Toluene | <5.9 | | 5.9 | 2.1 | ug/Kg | ☼ | | 04/01/16 18:37 | 1 |
| trans-1,2-Dichloroethene | <5.9 | | 5.9 | 1.5 | ug/Kg | ☼ | | 04/01/16 18:37 | 1 |
| trans-1,3-Dichloropropene | <5.9 | | 5.9 | 1.7 | ug/Kg | ☼ | | 04/01/16 18:37 | 1 |
| 1,1,1-Trichloroethane | <5.9 | | 5.9 | 1.4 | ug/Kg | ☼ | | 04/01/16 18:37 | 1 |
| 1,1,2-Trichloroethane | <5.9 | | 5.9 | 1.1 | ug/Kg | ☼ | | 04/01/16 18:37 | 1 |
| Trichloroethene | <5.9 | | 5.9 | 1.6 | ug/Kg | ☼ | | 04/01/16 18:37 | 1 |
| Vinyl chloride | <5.9 | | 5.9 | 1.4 | ug/Kg | ☼ | | 04/01/16 18:37 | 1 |
| Xylenes, Total | <12 | | 12 | 2.2 | ug/Kg | ☼ | | 04/01/16 18:37 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 106 | | 70 - 120 | | 04/01/16 18:37 | 1 |
| Dibromofluoromethane | 115 | | 75 - 120 | | 04/01/16 18:37 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 115 | | 69 - 134 | | 04/01/16 18:37 | 1 |
| Toluene-d8 (Surr) | 114 | | 75 - 123 | | 04/01/16 18:37 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,2,4-Trichlorobenzene | <190 | | 190 | 41 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 19:54 | 1 |
| 1,2-Dichlorobenzene | <190 | | 190 | 45 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 19:54 | 1 |
| 1,3-Dichlorobenzene | <190 | | 190 | 43 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 19:54 | 1 |
| 1,4-Dichlorobenzene | <190 | | 190 | 49 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 19:54 | 1 |
| 2,2'-oxybis[1-chloropropane] | <190 | | 190 | 44 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 19:54 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Client Sample ID: VL16-1(0-4)-032916

Lab Sample ID: 500-109413-9

Date Collected: 03/29/16 10:05

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 84.4

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|------------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol | <380 | | 380 | 86 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 19:54 | 1 |
| 2,4,6-Trichlorophenol | <380 | | 380 | 130 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 19:54 | 1 |
| 2,4-Dichlorophenol | <380 | | 380 | 90 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 19:54 | 1 |
| 2,4-Dimethylphenol | <380 | | 380 | 140 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 19:54 | 1 |
| 2,4-Dinitrophenol | <760 | | 760 | 670 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 19:54 | 1 |
| 2,4-Dinitrotoluene | <190 | | 190 | 60 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 19:54 | 1 |
| 2,6-Dinitrotoluene | <190 | | 190 | 74 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 19:54 | 1 |
| 2-Chloronaphthalene | <190 | | 190 | 42 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 19:54 | 1 |
| 2-Chlorophenol | <190 | | 190 | 65 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 19:54 | 1 |
| 2-Methylnaphthalene | 24 | J | 38 | 7.0 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 19:54 | 1 |
| 2-Methylphenol | <190 | | 190 | 61 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 19:54 | 1 |
| 2-Nitroaniline | <190 | | 190 | 51 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 19:54 | 1 |
| 2-Nitrophenol | <380 | | 380 | 89 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 19:54 | 1 |
| 3 & 4 Methylphenol | <190 | | 190 | 63 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 19:54 | 1 |
| 3,3'-Dichlorobenzidine | <190 | | 190 | 53 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 19:54 | 1 |
| 3-Nitroaniline | <380 | | 380 | 120 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 19:54 | 1 |
| 4,6-Dinitro-2-methylphenol | <760 | | 760 | 300 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 19:54 | 1 |
| 4-Bromophenyl phenyl ether | <190 | | 190 | 50 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 19:54 | 1 |
| 4-Chloro-3-methylphenol | <380 | | 380 | 130 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 19:54 | 1 |
| 4-Chloroaniline | <760 | | 760 | 180 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 19:54 | 1 |
| 4-Chlorophenyl phenyl ether | <190 | | 190 | 44 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 19:54 | 1 |
| 4-Nitroaniline | <380 | | 380 | 160 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 19:54 | 1 |
| 4-Nitrophenol | <760 | | 760 | 360 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 19:54 | 1 |
| Acenaphthene | 22 | J | 38 | 6.8 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 19:54 | 1 |
| Acenaphthylene | 13 | J | 38 | 5.0 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 19:54 | 1 |
| Anthracene | 32 | J | 38 | 6.3 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 19:54 | 1 |
| Benzo[a]anthracene | 240 | | 38 | 5.1 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 19:54 | 1 |
| Benzo[a]pyrene | 350 | | 38 | 7.3 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 19:54 | 1 |
| Benzo[b]fluoranthene | 490 | | 38 | 8.2 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 19:54 | 1 |
| Benzo[g,h,i]perylene | 150 | | 38 | 12 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 19:54 | 1 |
| Benzo[k]fluoranthene | 200 | | 38 | 11 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 19:54 | 1 |
| Bis(2-chloroethoxy)methane | <190 | | 190 | 39 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 19:54 | 1 |
| Bis(2-chloroethyl)ether | <190 | | 190 | 57 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 19:54 | 1 |
| Bis(2-ethylhexyl) phthalate | <190 | | 190 | 69 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 19:54 | 1 |
| Butyl benzyl phthalate | <190 | | 190 | 72 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 19:54 | 1 |
| Carbazole | <190 | | 190 | 95 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 19:54 | 1 |
| Chrysene | 310 | | 38 | 10 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 19:54 | 1 |
| Dibenz(a,h)anthracene | 41 | | 38 | 7.3 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 19:54 | 1 |
| Dibenzofuran | <190 | | 190 | 44 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 19:54 | 1 |
| Diethyl phthalate | <190 | | 190 | 64 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 19:54 | 1 |
| Dimethyl phthalate | <190 | | 190 | 49 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 19:54 | 1 |
| Di-n-butyl phthalate | <190 | | 190 | 58 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 19:54 | 1 |
| Di-n-octyl phthalate | <190 | | 190 | 62 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 19:54 | 1 |
| Fluoranthene | 450 | | 38 | 7.0 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 19:54 | 1 |
| Fluorene | 17 | J | 38 | 5.3 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 19:54 | 1 |
| Hexachlorobenzene | <76 | | 76 | 8.8 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 19:54 | 1 |
| Hexachlorobutadiene | <190 | | 190 | 60 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 19:54 | 1 |
| Hexachlorocyclopentadiene | <760 | | 760 | 220 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 19:54 | 1 |
| Hexachloroethane | <190 | | 190 | 58 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 19:54 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Client Sample ID: VL16-1(0-4)-032916

Lab Sample ID: 500-109413-9

Date Collected: 03/29/16 10:05

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 84.4

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| Indeno[1,2,3-cd]pyrene | 140 | | 38 | 9.8 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 19:54 | 1 |
| Isophorone | <190 | | 190 | 43 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 19:54 | 1 |
| Naphthalene | 16 | J | 38 | 5.8 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 19:54 | 1 |
| Nitrobenzene | <38 | | 38 | 9.4 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 19:54 | 1 |
| N-Nitrosodi-n-propylamine | <76 | | 76 | 46 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 19:54 | 1 |
| N-Nitrosodiphenylamine | <190 | | 190 | 45 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 19:54 | 1 |
| Pentachlorophenol | <760 | | 760 | 610 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 19:54 | 1 |
| Phenanthrene | 340 | | 38 | 5.3 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 19:54 | 1 |
| Phenol | <190 | | 190 | 84 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 19:54 | 1 |
| Pyrene | 770 | | 38 | 7.5 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 19:54 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2,4,6-Tribromophenol | 48 | | 25 - 130 | | | | 03/30/16 08:24 | 04/06/16 19:54 | 1 |
| 2-Fluorobiphenyl | 75 | | 42 - 115 | | | | 03/30/16 08:24 | 04/06/16 19:54 | 1 |
| 2-Fluorophenol | 82 | | 40 - 130 | | | | 03/30/16 08:24 | 04/06/16 19:54 | 1 |
| Nitrobenzene-d5 | 79 | | 33 - 124 | | | | 03/30/16 08:24 | 04/06/16 19:54 | 1 |
| Phenol-d5 | 80 | | 36 - 123 | | | | 03/30/16 08:24 | 04/06/16 19:54 | 1 |
| Terphenyl-d14 | 120 | | 25 - 150 | | | | 03/30/16 08:24 | 04/06/16 19:54 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|-------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.050 | | 0.050 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 17:52 | 1 |
| Barium | 0.29 | J | 0.50 | 0.050 | mg/L | | 04/01/16 14:34 | 04/02/16 17:52 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 04/01/16 14:34 | 04/02/16 17:52 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/01/16 14:34 | 04/02/16 17:52 | 1 |
| Chromium | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 17:52 | 1 |
| Cobalt | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 17:52 | 1 |
| Copper | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 17:52 | 1 |
| Iron | <0.40 | | 0.40 | 0.20 | mg/L | | 04/01/16 14:34 | 04/02/16 17:52 | 1 |
| Lead | <0.0075 | | 0.0075 | 0.0075 | mg/L | | 04/01/16 14:34 | 04/02/16 17:52 | 1 |
| Manganese | 0.33 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 17:52 | 1 |
| Nickel | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 17:52 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/01/16 14:34 | 04/02/16 17:52 | 1 |
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 17:52 | 1 |
| Zinc | <0.50 | | 0.50 | 0.020 | mg/L | | 04/01/16 14:34 | 04/02/16 17:52 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.089 | | 0.050 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:10 | 1 |
| Barium | 0.56 | | 0.50 | 0.050 | mg/L | | 04/01/16 14:17 | 04/02/16 20:10 | 1 |
| Beryllium | 0.010 | | 0.0040 | 0.0040 | mg/L | | 04/01/16 14:17 | 04/02/16 20:10 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/01/16 14:17 | 04/02/16 20:10 | 1 |
| Chromium | 0.22 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:10 | 1 |
| Cobalt | 0.097 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:10 | 1 |
| Copper | 0.29 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:10 | 1 |
| Iron | 200 | | 0.40 | 0.20 | mg/L | | 04/05/16 07:39 | 04/05/16 14:40 | 1 |
| Lead | 0.25 | | 0.0075 | 0.0075 | mg/L | | 04/01/16 14:17 | 04/02/16 20:10 | 1 |
| Manganese | 0.81 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:10 | 1 |
| Nickel | 0.29 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:10 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/01/16 14:17 | 04/02/16 20:10 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Client Sample ID: VL16-1(0-4)-032916

Lab Sample ID: 500-109413-9

Date Collected: 03/29/16 10:05

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 84.4

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|-------------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:10 | 1 |
| Zinc | 0.92 | | 0.50 | 0.020 | mg/L | | 04/01/16 14:17 | 04/02/16 20:10 | 1 |

Method: 6010B - Total Metals

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | <1.1 | | 1.1 | 0.22 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:54 | 1 |
| Arsenic | 6.0 | | 0.54 | 0.25 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:54 | 1 |
| Barium | 44 | B | 0.54 | 0.098 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:54 | 1 |
| Beryllium | 0.77 | | 0.21 | 0.046 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:54 | 1 |
| Cadmium | 0.090 | J | 0.11 | 0.031 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:54 | 1 |
| Calcium | 7300 | B | 11 | 3.4 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:54 | 1 |
| Chromium | 17 | | 0.54 | 0.092 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:54 | 1 |
| Cobalt | 12 | | 0.27 | 0.060 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:54 | 1 |
| Copper | 24 | | 0.54 | 0.12 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:54 | 1 |
| Iron | 18000 | | 11 | 4.1 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:54 | 1 |
| Lead | 25 | | 0.27 | 0.13 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:54 | 1 |
| Magnesium | 6200 | B | 5.4 | 2.2 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:54 | 1 |
| Manganese | 110 | | 0.54 | 0.11 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:54 | 1 |
| Nickel | 36 | | 0.54 | 0.14 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:54 | 1 |
| Potassium | 2000 | | 27 | 4.4 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:54 | 1 |
| Selenium | <0.54 | | 0.54 | 0.26 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:54 | 1 |
| Silver | <0.27 | | 0.27 | 0.063 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:54 | 1 |
| Sodium | 970 | | 54 | 7.1 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:54 | 1 |
| Thallium | 0.28 | J | 0.54 | 0.26 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:54 | 1 |
| Vanadium | 24 | | 0.27 | 0.078 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:54 | 1 |
| Zinc | 85 | | 1.1 | 0.34 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 18:54 | 1 |

Method: 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/01/16 15:45 | 04/04/16 13:35 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/01/16 15:45 | 04/04/16 14:15 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Mercury | 80 | | 18 | 9.3 | ug/Kg | ☼ | 03/30/16 16:15 | 03/31/16 10:16 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-------------|-----------|-------|-------|------|---|----------|----------------|---------|
| pH | 8.00 | | 0.200 | 0.200 | SU | | | 03/31/16 11:13 | 1 |

Definitions/Glossary

Client: Environmental Design International, Inc.
Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Qualifiers

GC/MS VOA

| Qualifier | Qualifier Description |
|-----------|--|
| F1 | MS and/or MSD Recovery is outside acceptance limits. |

GC/MS Semi VOA

| Qualifier | Qualifier Description |
|-----------|--|
| F2 | MS/MSD RPD exceeds control limits |
| F1 | MS and/or MSD Recovery is outside acceptance limits. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| E | Result exceeded calibration range. |
| X | Surrogate is outside control limits |

Metals

| Qualifier | Qualifier Description |
|-----------|--|
| F1 | MS and/or MSD Recovery is outside acceptance limits. |
| F2 | MS/MSD RPD exceeds control limits |
| B | Compound was found in the blank and sample. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| ^ | ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits. |
| F5 | Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL. |
| F3 | Duplicate RPD exceeds the control limit |
| 4 | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |

Glossary

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

Certification Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|-----------|---------|------------|------------------|-----------------|
| Illinois | NELAP | 5 | 100201 | 04-30-17 |

The following analytes are included in this report, but certification is not offered by the governing authority:

| Analysis Method | Prep Method | Matrix | Analyte |
|-----------------|-------------|--------|----------------------------|
| 8260B | | Solid | 1,3-Dichloropropene, Total |
| 8260B | 5030B | Solid | 1,3-Dichloropropene, Total |
| Moisture | | Solid | Percent Moisture |
| Moisture | | Solid | Percent Solids |

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To _____ (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

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

Chain of Custody Record

Lab Job #: 500-109413
 Chain of Custody Number: _____
 Page 1 of 3
 Temperature °C of Cooler: 4.7, 5.4

| Client | | Client Project # | | Preservative | | Parameter | | Matrix | | Comments | |
|---------------|--------|------------------------|---------|---------------|-----------------|-----------|------|-----------------|--------------|---|----|
| EDJ | | 0795-022 | | | | | | | | Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. 1 to 4° 4. 1 to 4° 5. Cool to 4° | |
| Project Name | | Project Location/State | | Lab Project # | | Parameter | | Matrix | | Comments | |
| IDOT - Harvey | | Harvey, IL | | | | | | | | | |
| Sampler | | Lab PM | | Date | | Time | | # of Containers | | Matrix | |
| Celia Powers | | | | | | | | | | | |
| Lab ID | MS/MSD | Sample ID | Date | Time | # of Containers | Matrix | VOCs | SVOCs | Total Metals | TCLP/SPL Metals | PH |
| 1 | | BB-2(0-4)-032916 | 3/24/16 | 0810 | 2 | S | X | X | X | X | X |
| 2 | | BB-2(0-4)-032916D | | 0815 | | | | | | | |
| 3 | | BB-1(0-5)-032916 | | 0855 | | | | | | | |
| 4 | | BB-1(5-10)-032916 | | 0900 | | | | | | | |
| 5 | | VL12-2(0-5)-032916 | | 0915 | | | | | | | |
| 6 | | VL12-2(5-10)-032916 | | 0920 | | | | | | | |
| 7 | | VL12-1(0-5)-032916 | | 0940 | | | | | | | |
| 8 | | VL12-1(5-10)-032916 | | 0945 | | | | | | | |
| 9 | | VL16-1(0-4)-032916 | | 1005 | | | | | | | |
| 10 | | R17-2(0-5)-032916 | | 1025 | | | X | X | X | X | X |

Turnaround Time Required (Business Days)

1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other

Requested Due Date _____

Sample Disposal

Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

| | | | | | |
|---|-----------------|--------------|--|------------------|---------------|
| Relinquished By <i>[Signature]</i> Company EDJ | Date 3/24/16 | Time 1530 | Received By <i>[Signature]</i> Company TA | Date 3/29/16 | Time 1530 |
| Relinquished By <i>[Signature]</i> Company P. Neal | Date 3/29/16 | Time 1003 | Received By <i>[Signature]</i> Company TA/HTI | Date 03/29/16 | Time 10:03 |
| Relinquished By Company | Date | Time | Received By Company | Date | Time |

Lab Courier: TA

Shipped: _____

Hand Delivered: _____

Matrix Key

- WW - Wastewater
- W - Water
- S - Soil
- SL - Sludge
- MS - Miscellaneous
- OL - Oil
- A - Air
- SE - Sediment
- SO - Soil
- L - Leachate
- WI - Wipe
- DW - Drinking Water
- O - Other

Client Comments:

Lab Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

| | |
|----------------------------|--------------------------|
| Report To _____ (optional) | Bill To _____ (optional) |
| Contact: _____ | Contact: _____ |
| Company: _____ | Company: _____ |
| Address: _____ | Address: _____ |
| Address: _____ | Address: _____ |
| Phone: _____ | Phone: _____ |
| Fax: _____ | Fax: _____ |
| E-Mail: _____ | PO#/Reference# _____ |

Chain of Custody Record

Lab Job #: 500-109413
Chain of Custody Number: _____
Page 2 of 3
Temperature °C of Cooler: 4.7, 5.4

| Client | | Client Project # | | Preservative | | Parameter | | Preservative Key | | | | |
|---------------|--------|------------------------|----------|---------------|-----------------|--------------|-------|---|--------------|-------------------|------------------|----------|
| EDZ | | 02P.022 | | | | | | 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other | | | | |
| Project Name | | Project Location/State | | Lab Project # | | Sampler | | Lab PM | | | | |
| IDOT - Hervey | | Hervey, IL | | | | Gloria Davis | | | | | | |
| Lab ID | MS/MSD | Sample ID | Sampling | | # of Containers | Matrix | Voc's | Coc's | Total Metals | Trace/Semi Metals | H ₂ O | Comments |
| | | | Date | Time | | | | | | | | |
| 11 | | R17-2(5-10)-032916 | 3/29/16 | 1030 | 2 | S | X | X | X | X | X | |
| 12 | | R17-2(10-15)-032916 | | 1035 | | | | | | | | |
| 13 | | R17-2(10-15)-032916 D | | 1040 | | | | | | | | |
| 14 | | R17-1(0-4)-032916 | | 1100 | | | | | | | | |
| 15 | | R17-1(4-8)-032916 | | 1105 | | | | | | | | |
| 16 | | PM-1(0-4)-032916 | | 1215 | | | | | | | | |
| 17 | | PM-1(4-7.7)-032916 | | 1220 | | | | | | | | |
| 18 | | PM-2(0-4)-032916 | | 1235 | | | | | | | | |
| 19 | | PM-3(0-4)-032916 | | 1245 | | | | | | | | |
| 20 | | PM-3(0-4)-032916 D | X | 1250 | | | X | X | X | X | X | |

Turnaround Time Required (Business Days): 1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other _____

Requested Due Date: _____

Sample Disposal: Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

| | | |
|--|---|------------------------|
| Relinquished By: <u>[Signature]</u> Company: <u>EDZ</u> Date: <u>3/29/16</u> Time: <u>1530</u> | Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/29/16</u> Time: <u>1530</u> | Lab Courier: <u>TA</u> |
| Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/29/16</u> Time: <u>1603</u> | Received By: <u>[Signature]</u> Company: <u>TA-UMT</u> Date: <u>03/29/16</u> Time: <u>16:03</u> | Shipped: _____ |
| Relinquished By: _____ Company: _____ Date: _____ Time: _____ | Received By: _____ Company: _____ Date: _____ Time: _____ | Hand Delivered: _____ |

| | | |
|--|------------------|---------------|
| Matrix Key WW - Wastewater SE - Sediment W - Water SO - Soil S - Soil L - Leachate SL - Sludge WI - Wipe MS - Miscellaneous DW - Drinking Water OL - Oil O - Other A - Air | Client Comments: | Lab Comments: |
|--|------------------|---------------|



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

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

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

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

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

I. Source Location Information

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

Project Name: FAU 3597: IL Route 1 (Halsted St) at Vincennes Rd Office Phone Number, if available: _____

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

15211 S. Halsted Street, (ISGS Site No. 2553V-17)

City: Phoenix State: IL Zip Code: _____

County: Cook Township: _____

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

Latitude: 41.61294444 Longitude: -87.63618056

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

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

Project Name: FAU 3597: IL Route 1 (Halsted St) at VincennesLatitude: 41.61294444 Longitude: -87.63618056Uncontaminated Site Certification**III. Basis for Certification and Attachments**

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

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

LOCATIONS R17-1 AND R17-2 WERE SAMPLED ADJACENT TO ISGS SITE No. 2553V-17. SEE FIGURE 3-1 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

- 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]:

TEST AMERICA REPORTS - JOB ID: 500-109413-1.
ALSO SEE FIGURE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

I, William F. Karlovitz, P.E. (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: Weston Solutions, Inc.Street Address: 300 Circle Plaza; Suite 202City: Mundelein State: IL Zip Code: 60060Phone: (224) 864-7200William F. Karlovitz, P.E.

Printed Name:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

17 May 2016

Date:



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

Summary Table of ISGS Site No. 2553V-17
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAU 3597: Illinois Route 1 (Halsted Street) at Vincennes Road
Harvey, Cook County, Illinois

| Field Sample ID | R17-1(0-4)-032916 | R17-1(4-8)-032916 | R17-2(0-5)-032916 | R17-2(5-10)-032916 | R17-2(10-15)-032916 | R17-2(10-15)-032916D | Soil Reference Concentrations ^A |
|-----------------------------|-------------------|-------------------|-------------------|--------------------|---------------------|----------------------|--|
| Sample Date | 3/29/2016 | 3/29/2016 | 3/29/2016 | 3/29/2016 | 3/29/2016 | 3/29/2016 | |
| Location ID | R17-1 | R17-1 | R17-2 | R17-2 | R17-2 | R17-2 | |
| Depth | 0 - 4 | 4 - 8 | 0 - 5 | 5 - 10 | 10 - 15 | 10 - 15 | |
| Lab Sample ID | 500-109413-14 | 500-109413-15 | 500-109413-10 | 500-109413-11 | 500-109413-12 | 500-109413-13 | |
| ISGS Site No. | 2553V-17 | 2553V-17 | 2553V-17 | 2553V-17 | 2553V-17 | 2553V-17 | |
| Parameter | | | | | | | |
| Laboratory pH | 8.95 | 8.50 | 8.94 | 8.32 | 8.03 | 8.11 | <6.25,>9.0 |
| VOCs (ug/kg) | None Detected | | | | | | |
| SVOCs (ug/kg) | | | | | | | |
| 2-Methylnaphthalene | 9.3 J | ND | ND | 20 J | 86 | 100 | --- |
| Anthracene | ND | ND | 13 J | ND | ND | ND | 1.20E+07 |
| Benzo(a)anthracene | 45 | 21 J | 110 | 7.7 J | ND | 6.2 J | 900 / 1100 / 1800 |
| Benzo(a)pyrene | 98 | 30 J | 160 | 9.7 J | ND | ND | 90 / 1300 / 2100 |
| Benzo(b)fluoranthene | 130 | 51 | 250 | 21 J | ND | ND | 900 / 1500 / 2100 |
| Benzo(g,h,i)perylene | 43 | 15 J | 74 | 15 J | 18 J | 21 J | --- |
| Benzo(k)fluoranthene | 54 | 23 J | 93 | ND | ND | ND | 9000 |
| Chrysene | 50 | 28 J | 120 | 22 J | 20 J | 25 J | 88000 |
| Dibenzo(a,h)anthracene | 19 J | ND | 21 J | ND | ND | ND | 90 / 200 / 420 |
| Fluoranthene | 43 | 41 | 160 | 16 J | ND | 11 J | 3100000 |
| Fluorene | ND | ND | ND | ND | 6.1 J | ND | 560000 |
| Indeno(1,2,3-cd)pyrene | 39 | 16 J | 64 | ND | ND | ND | 900 / 900 / 1600 |
| Naphthalene, SVOC | ND | ND | ND | ND | 16 J | 23 J | 1800 |
| Phenanthrene | 35 J | 21 J | 61 | 50 | 72 | 90 | --- |
| Pyrene | 70 | 51 | 180 | 28 J | 19 J | 35 | 2300000 |
| Total Metals (mg/kg) | | | | | | | |
| Arsenic, Total | 7.3 J | 4.7 J | 4.8 J | 5.9 J | 8.2 J | 6.5 J | 11.3 / 13.0 |
| Barium, Total | 57 J | 39 J | 45 J | 35 J | 31 J | 24 J | 1500 |
| Beryllium, Total | 0.8 | 0.69 | 0.83 | 0.6 | 0.43 | 0.47 | 22 |
| Cadmium, Total | 0.098 J | 0.083 J | 0.12 | 0.094 J | ND | ND | 5.2 |
| Calcium, Total | 69000 J | 63000 J | 16000 J | 71000 J | 77000 J | 76000 J | --- |
| Chromium, Total | 17 J | 18 J | 20 J | 16 J | 12 J | 13 J | 21 |
| Cobalt, Total | 16 J | 12 J | 11 J | 11 J | 10 J | 10 J | 20 |
| Copper, Total | 24 J | 22 J | 25 J | 21 J | 21 J | 19 J | 2900 |
| Iron, Total | 21000 J | 16000 J | 18000 J | 17000 J | 16000 J | 14000 J | 15000 / 15900 |
| Lead, Total | 27 J | 27 J | 40 J | 13 J | 12 J | 13 J | 107 |
| Magnesium, Total | 25000 J | 20000 J | 11000 J | 20000 J | 24000 J | 21000 J | 325000 |
| Manganese, Total | 230 J | 260 J | 180 J | 260 J | 300 J | 280 J | 630 / 636 |
| Mercury, Total | 0.041 | 0.024 | 0.024 | 0.02 | 0.012 J | 0.015 J | 0.89 |
| Nickel, Total | 37 J | 32 J | 35 J | 34 J | 27 J | 27 J | 100 |
| Potassium, Total | 2100 J | 2500 J | 2300 J | 2400 J | 1900 J | 2000 J | --- |
| Sodium, Total | 540 J | 800 J | 1900 J | 370 J | 150 J | 150 J | --- |
| Vanadium, Total | 24 J | 19 J | 23 J | 19 J | 14 J | 15 J | 550 |

Summary Table of ISGS Site No. 2553V-17
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAU 3597: Illinois Route 1 (Halsted Street) at Vincennes Road
Harvey, Cook County, Illinois

| Field Sample ID | R17-1(0-4)-032916 | R17-1(4-8)-032916 | R17-2(0-5)-032916 | R17-2(5-10)-032916 | R17-2(10-15)-032916 | R17-2(10-15)-032916D | Soil Reference Concentrations ^A |
|---------------------------|-------------------|-------------------|-------------------|--------------------|---------------------|----------------------|--|
| Sample Date | 3/29/2016 | 3/29/2016 | 3/29/2016 | 3/29/2016 | 3/29/2016 | 3/29/2016 | |
| Location ID | R17-1 | R17-1 | R17-2 | R17-2 | R17-2 | R17-2 | |
| Depth | 0 - 4 | 4 - 8 | 0 - 5 | 5 - 10 | 10 - 15 | 10 - 15 | |
| Lab Sample ID | 500-109413-14 | 500-109413-15 | 500-109413-10 | 500-109413-11 | 500-109413-12 | 500-109413-13 | |
| ISGS Site No. | 2553V-17 | 2553V-17 | 2553V-17 | 2553V-17 | 2553V-17 | 2553V-17 | |
| Parameter | | | | | | | |
| Zinc, Total | 69 J | 76 J | 190 J | 73 J | 110 J | 190 J | 5100 |
| TCLP Metals (mg/l) | | | | | | | |
| Arsenic, TCLP | ND | ND | ND | ND | ND | ND | 0.05 |
| Barium, TCLP | 0.27 J | 0.24 J | 0.22 J | 0.5 | 0.45 J | 0.46 J | 2 |
| Beryllium, TCLP | ND | ND | ND | ND | ND | ND | 0.004 |
| Cadmium, TCLP | ND | ND | ND | ND | ND | ND | 0.005 |
| Chromium, TCLP | ND | ND | ND | ND | ND | ND | 0.1 |
| Cobalt, TCLP | ND | ND | ND | 0.013 J | 0.03 | 0.047 | 1 |
| Copper, TCLP | ND | ND | ND | ND | ND | ND | 0.65 |
| Iron, TCLP | ND | ND | ND | ND | ND | ND | 5 |
| Lead, TCLP | ND | ND | ND | ND | ND | ND | 0.0075 |
| Manganese, TCLP | 0.37 | 0.69 | 0.92 | 0.96 | 1.2 | 1.7 | 0.15 |
| Mercury, TCLP | ND | ND | ND | ND | ND | ND | 0.002 |
| Nickel, TCLP | ND | ND | ND | 0.026 | 0.057 | 0.1 | 0.1 |
| Zinc, TCLP | ND | ND | 0.35 J | 0.086 J | 0.24 J | 2.6 J | 5 |
| SPLP Metals (mg/l) | | | | | | | |
| Arsenic, SPLP | 0.063 | 0.055 | 0.074 | 0.019 J | ND | ND | 0.05 |
| Barium, SPLP | 0.62 | 0.29 J | 0.93 | 0.26 J | 0.12 J | 0.1 J | 2 |
| Beryllium, SPLP | 0.0088 | 0.0054 | 0.014 | ND | ND | ND | 0.004 |
| Cadmium, SPLP | ND | ND | ND | ND | ND | ND | 0.005 |
| Chromium, SPLP | 0.22 | 0.14 | 0.34 | 0.096 | 0.034 | 0.028 | 0.1 |
| Cobalt, SPLP | 0.079 | 0.048 | 0.14 | 0.027 | ND | ND | 1 |
| Copper, SPLP | 0.21 | 0.13 | 0.32 | 0.09 | 0.018 J | 0.017 J | 0.65 |
| Iron, SPLP | 240 | 190 | 280 | 85 | 19 | 23 | 5 |
| Lead, SPLP | 0.17 | 0.1 | 0.32 | 0.044 | 0.013 | 0.01 | 0.0075 |
| Manganese, SPLP | 0.7 | 0.52 | 1.3 | 0.44 | 0.19 | 0.19 | 0.15 |
| Mercury, SPLP | ND | ND | ND | ND | ND | ND | 0.002 |
| Nickel, SPLP | 0.23 | 0.16 | 0.42 | 0.099 | 0.025 | 0.024 J | 0.1 |
| Zinc, SPLP | 0.54 | 0.36 J | 1.4 | 0.22 J | 0.046 J | 0.068 J | 5 |

Notes:

--- - not applicable or value not available.

^A - Soil reference concentrations from MAC Table. Background values for MSA Counties and Chicago corporate limits are included, as applicable.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

Shaded values indicate concentration **exceeds** Reference Concentration.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-109413-1

Client Project/Site: IDOT - Harvey IL Route 113 - WO 041

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

Attn: Ms. Patricia Feeley

Jodie Bracken

Authorized for release by:
4/7/2016 3:38:11 PM

Jodie Bracken, Project Management Assistant II
jodie.bracken@testamericainc.com

Designee for

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.

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

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Client Sample ID: R17-2(0-5)-032916

Lab Sample ID: 500-109413-10

Date Collected: 03/29/16 10:25

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 82.3

Method: 8260B - VOC

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Acetone | <24 | | 24 | 4.7 | ug/Kg | ☼ | | 04/01/16 19:02 | 1 |
| Benzene | <6.1 | | 6.1 | 1.3 | ug/Kg | ☼ | | 04/01/16 19:02 | 1 |
| Bromodichloromethane | <6.1 | | 6.1 | 1.0 | ug/Kg | ☼ | | 04/01/16 19:02 | 1 |
| Bromoform | <6.1 | | 6.1 | 1.2 | ug/Kg | ☼ | | 04/01/16 19:02 | 1 |
| Bromomethane | <6.1 | | 6.1 | 2.2 | ug/Kg | ☼ | | 04/01/16 19:02 | 1 |
| Carbon disulfide | <6.1 | | 6.1 | 2.2 | ug/Kg | ☼ | | 04/01/16 19:02 | 1 |
| Carbon tetrachloride | <6.1 | | 6.1 | 1.3 | ug/Kg | ☼ | | 04/01/16 19:02 | 1 |
| Chlorobenzene | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 04/01/16 19:02 | 1 |
| Chloroethane | <6.1 | | 6.1 | 2.6 | ug/Kg | ☼ | | 04/01/16 19:02 | 1 |
| Chloroform | <6.1 | | 6.1 | 1.2 | ug/Kg | ☼ | | 04/01/16 19:02 | 1 |
| Chloromethane | <6.1 | | 6.1 | 1.5 | ug/Kg | ☼ | | 04/01/16 19:02 | 1 |
| cis-1,2-Dichloroethene | <6.1 | | 6.1 | 1.2 | ug/Kg | ☼ | | 04/01/16 19:02 | 1 |
| cis-1,3-Dichloropropene | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 04/01/16 19:02 | 1 |
| Dibromochloromethane | <6.1 | | 6.1 | 0.70 | ug/Kg | ☼ | | 04/01/16 19:02 | 1 |
| 1,1-Dichloroethane | <6.1 | | 6.1 | 1.3 | ug/Kg | ☼ | | 04/01/16 19:02 | 1 |
| 1,2-Dichloroethane | <6.1 | | 6.1 | 0.90 | ug/Kg | ☼ | | 04/01/16 19:02 | 1 |
| 1,1-Dichloroethene | <6.1 | | 6.1 | 2.2 | ug/Kg | ☼ | | 04/01/16 19:02 | 1 |
| 1,2-Dichloropropane | <6.1 | | 6.1 | 1.6 | ug/Kg | ☼ | | 04/01/16 19:02 | 1 |
| 1,3-Dichloropropene, Total | <6.1 | | 6.1 | 1.7 | ug/Kg | ☼ | | 04/01/16 19:02 | 1 |
| Ethylbenzene | <6.1 | | 6.1 | 1.5 | ug/Kg | ☼ | | 04/01/16 19:02 | 1 |
| 2-Hexanone | <6.1 | | 6.1 | 1.9 | ug/Kg | ☼ | | 04/01/16 19:02 | 1 |
| Methylene Chloride | <6.1 | | 6.1 | 4.6 | ug/Kg | ☼ | | 04/01/16 19:02 | 1 |
| Methyl Ethyl Ketone | <6.1 | | 6.1 | 2.2 | ug/Kg | ☼ | | 04/01/16 19:02 | 1 |
| methyl isobutyl ketone | <6.1 | | 6.1 | 1.3 | ug/Kg | ☼ | | 04/01/16 19:02 | 1 |
| Methyl tert-butyl ether | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 04/01/16 19:02 | 1 |
| Styrene | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 04/01/16 19:02 | 1 |
| 1,1,2,2-Tetrachloroethane | <6.1 | | 6.1 | 0.96 | ug/Kg | ☼ | | 04/01/16 19:02 | 1 |
| Tetrachloroethene | <6.1 | | 6.1 | 1.3 | ug/Kg | ☼ | | 04/01/16 19:02 | 1 |
| Toluene | <6.1 | | 6.1 | 2.1 | ug/Kg | ☼ | | 04/01/16 19:02 | 1 |
| trans-1,2-Dichloroethene | <6.1 | | 6.1 | 1.5 | ug/Kg | ☼ | | 04/01/16 19:02 | 1 |
| trans-1,3-Dichloropropene | <6.1 | | 6.1 | 1.7 | ug/Kg | ☼ | | 04/01/16 19:02 | 1 |
| 1,1,1-Trichloroethane | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 04/01/16 19:02 | 1 |
| 1,1,2-Trichloroethane | <6.1 | | 6.1 | 1.2 | ug/Kg | ☼ | | 04/01/16 19:02 | 1 |
| Trichloroethene | <6.1 | | 6.1 | 1.6 | ug/Kg | ☼ | | 04/01/16 19:02 | 1 |
| Vinyl chloride | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 04/01/16 19:02 | 1 |
| Xylenes, Total | <12 | | 12 | 2.2 | ug/Kg | ☼ | | 04/01/16 19:02 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 105 | | 70 - 120 | | 04/01/16 19:02 | 1 |
| Dibromofluoromethane | 114 | | 75 - 120 | | 04/01/16 19:02 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 115 | | 69 - 134 | | 04/01/16 19:02 | 1 |
| Toluene-d8 (Surr) | 116 | | 75 - 123 | | 04/01/16 19:02 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,2,4-Trichlorobenzene | <200 | | 200 | 43 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:24 | 1 |
| 1,2-Dichlorobenzene | <200 | | 200 | 47 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:24 | 1 |
| 1,3-Dichlorobenzene | <200 | | 200 | 44 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:24 | 1 |
| 1,4-Dichlorobenzene | <200 | | 200 | 51 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:24 | 1 |
| 2,2'-oxybis[1-chloropropane] | <200 | | 200 | 46 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:24 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Client Sample ID: R17-2(0-5)-032916

Lab Sample ID: 500-109413-10

Date Collected: 03/29/16 10:25

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 82.3

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|------------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol | <390 | | 390 | 90 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:24 | 1 |
| 2,4,6-Trichlorophenol | <390 | | 390 | 140 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:24 | 1 |
| 2,4-Dichlorophenol | <390 | | 390 | 94 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:24 | 1 |
| 2,4-Dimethylphenol | <390 | | 390 | 150 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:24 | 1 |
| 2,4-Dinitrophenol | <800 | | 800 | 700 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:24 | 1 |
| 2,4-Dinitrotoluene | <200 | | 200 | 63 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:24 | 1 |
| 2,6-Dinitrotoluene | <200 | | 200 | 78 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:24 | 1 |
| 2-Chloronaphthalene | <200 | | 200 | 44 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:24 | 1 |
| 2-Chlorophenol | <200 | | 200 | 67 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:24 | 1 |
| 2-Methylnaphthalene | <39 | | 39 | 7.3 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:24 | 1 |
| 2-Methylphenol | <200 | | 200 | 63 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:24 | 1 |
| 2-Nitroaniline | <200 | | 200 | 53 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:24 | 1 |
| 2-Nitrophenol | <390 | | 390 | 93 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:24 | 1 |
| 3 & 4 Methylphenol | <200 | | 200 | 66 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:24 | 1 |
| 3,3'-Dichlorobenzidine | <200 | | 200 | 55 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:24 | 1 |
| 3-Nitroaniline | <390 | | 390 | 120 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:24 | 1 |
| 4,6-Dinitro-2-methylphenol | <800 | | 800 | 320 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:24 | 1 |
| 4-Bromophenyl phenyl ether | <200 | | 200 | 52 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:24 | 1 |
| 4-Chloro-3-methylphenol | <390 | | 390 | 130 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:24 | 1 |
| 4-Chloroaniline | <800 | | 800 | 190 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:24 | 1 |
| 4-Chlorophenyl phenyl ether | <200 | | 200 | 46 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:24 | 1 |
| 4-Nitroaniline | <390 | | 390 | 170 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:24 | 1 |
| 4-Nitrophenol | <800 | | 800 | 380 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:24 | 1 |
| Acenaphthene | <39 | | 39 | 7.1 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:24 | 1 |
| Acenaphthylene | <39 | | 39 | 5.2 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:24 | 1 |
| Anthracene | 13 | J | 39 | 6.6 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:24 | 1 |
| Benzo[a]anthracene | 110 | | 39 | 5.3 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:24 | 1 |
| Benzo[a]pyrene | 160 | | 39 | 7.6 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:24 | 1 |
| Benzo[b]fluoranthene | 250 | | 39 | 8.5 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:24 | 1 |
| Benzo[g,h,i]perylene | 74 | | 39 | 13 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:24 | 1 |
| Benzo[k]fluoranthene | 93 | | 39 | 12 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:24 | 1 |
| Bis(2-chloroethoxy)methane | <200 | | 200 | 40 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:24 | 1 |
| Bis(2-chloroethyl)ether | <200 | | 200 | 59 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:24 | 1 |
| Bis(2-ethylhexyl) phthalate | <200 | | 200 | 72 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:24 | 1 |
| Butyl benzyl phthalate | <200 | | 200 | 75 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:24 | 1 |
| Carbazole | <200 | | 200 | 99 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:24 | 1 |
| Chrysene | 120 | | 39 | 11 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:24 | 1 |
| Dibenz(a,h)anthracene | 21 | J | 39 | 7.6 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:24 | 1 |
| Dibenzofuran | <200 | | 200 | 46 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:24 | 1 |
| Diethyl phthalate | <200 | | 200 | 67 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:24 | 1 |
| Dimethyl phthalate | <200 | | 200 | 52 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:24 | 1 |
| Di-n-butyl phthalate | <200 | | 200 | 60 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:24 | 1 |
| Di-n-octyl phthalate | <200 | | 200 | 64 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:24 | 1 |
| Fluoranthene | 160 | | 39 | 7.3 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:24 | 1 |
| Fluorene | <39 | | 39 | 5.5 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:24 | 1 |
| Hexachlorobenzene | <80 | | 80 | 9.1 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:24 | 1 |
| Hexachlorobutadiene | <200 | | 200 | 62 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:24 | 1 |
| Hexachlorocyclopentadiene | <800 | | 800 | 230 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:24 | 1 |
| Hexachloroethane | <200 | | 200 | 60 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:24 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Client Sample ID: R17-2(0-5)-032916

Lab Sample ID: 500-109413-10

Date Collected: 03/29/16 10:25

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 82.3

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| Indeno[1,2,3-cd]pyrene | 64 | | 39 | 10 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:24 | 1 |
| Isophorone | <200 | | 200 | 44 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:24 | 1 |
| Naphthalene | <39 | | 39 | 6.1 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:24 | 1 |
| Nitrobenzene | <39 | | 39 | 9.9 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:24 | 1 |
| N-Nitrosodi-n-propylamine | <80 | | 80 | 48 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:24 | 1 |
| N-Nitrosodiphenylamine | <200 | | 200 | 47 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:24 | 1 |
| Pentachlorophenol | <800 | | 800 | 630 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:24 | 1 |
| Phenanthrene | 61 | | 39 | 5.5 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:24 | 1 |
| Phenol | <200 | | 200 | 88 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:24 | 1 |
| Pyrene | 180 | | 39 | 7.8 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:24 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2,4,6-Tribromophenol | 26 | | 25 - 130 | | | | 03/30/16 08:24 | 04/06/16 20:24 | 1 |
| 2-Fluorobiphenyl | 86 | | 42 - 115 | | | | 03/30/16 08:24 | 04/06/16 20:24 | 1 |
| 2-Fluorophenol | 80 | | 40 - 130 | | | | 03/30/16 08:24 | 04/06/16 20:24 | 1 |
| Nitrobenzene-d5 | 75 | | 33 - 124 | | | | 03/30/16 08:24 | 04/06/16 20:24 | 1 |
| Phenol-d5 | 78 | | 36 - 123 | | | | 03/30/16 08:24 | 04/06/16 20:24 | 1 |
| Terphenyl-d14 | 114 | | 25 - 150 | | | | 03/30/16 08:24 | 04/06/16 20:24 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|-------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.050 | | 0.050 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 17:57 | 1 |
| Barium | 0.22 | J | 0.50 | 0.050 | mg/L | | 04/01/16 14:34 | 04/02/16 17:57 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 04/01/16 14:34 | 04/02/16 17:57 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/01/16 14:34 | 04/02/16 17:57 | 1 |
| Chromium | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 17:57 | 1 |
| Cobalt | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 17:57 | 1 |
| Copper | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 17:57 | 1 |
| Iron | <0.40 | | 0.40 | 0.20 | mg/L | | 04/01/16 14:34 | 04/02/16 17:57 | 1 |
| Lead | <0.0075 | | 0.0075 | 0.0075 | mg/L | | 04/01/16 14:34 | 04/02/16 17:57 | 1 |
| Manganese | 0.92 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 17:57 | 1 |
| Nickel | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 17:57 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/01/16 14:34 | 04/02/16 17:57 | 1 |
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 17:57 | 1 |
| Zinc | 0.35 | J | 0.50 | 0.020 | mg/L | | 04/01/16 14:34 | 04/02/16 17:57 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.074 | | 0.050 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:15 | 1 |
| Barium | 0.93 | | 0.50 | 0.050 | mg/L | | 04/01/16 14:17 | 04/02/16 20:15 | 1 |
| Beryllium | 0.014 | | 0.0040 | 0.0040 | mg/L | | 04/01/16 14:17 | 04/02/16 20:15 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/01/16 14:17 | 04/02/16 20:15 | 1 |
| Chromium | 0.34 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:15 | 1 |
| Cobalt | 0.14 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:15 | 1 |
| Copper | 0.32 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:15 | 1 |
| Iron | 280 | | 0.40 | 0.20 | mg/L | | 04/05/16 07:39 | 04/05/16 14:45 | 1 |
| Lead | 0.32 | | 0.0075 | 0.0075 | mg/L | | 04/01/16 14:17 | 04/02/16 20:15 | 1 |
| Manganese | 1.3 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:15 | 1 |
| Nickel | 0.42 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:15 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/01/16 14:17 | 04/02/16 20:15 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Client Sample ID: R17-2(0-5)-032916

Lab Sample ID: 500-109413-10

Date Collected: 03/29/16 10:25

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 82.3

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|------------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:15 | 1 |
| Zinc | 1.4 | | 0.50 | 0.020 | mg/L | | 04/01/16 14:17 | 04/02/16 20:15 | 1 |

Method: 6010B - Total Metals

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | <1.1 | | 1.1 | 0.23 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:07 | 1 |
| Arsenic | 4.8 | | 0.55 | 0.25 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:07 | 1 |
| Barium | 45 | B | 0.55 | 0.10 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:07 | 1 |
| Beryllium | 0.83 | | 0.22 | 0.047 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:07 | 1 |
| Cadmium | 0.12 | | 0.11 | 0.032 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:07 | 1 |
| Calcium | 16000 | B | 11 | 3.5 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:07 | 1 |
| Chromium | 20 | | 0.55 | 0.094 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:07 | 1 |
| Cobalt | 11 | | 0.27 | 0.062 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:07 | 1 |
| Copper | 25 | | 0.55 | 0.12 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:07 | 1 |
| Iron | 18000 | | 11 | 4.2 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:07 | 1 |
| Lead | 40 | | 0.27 | 0.14 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:07 | 1 |
| Magnesium | 11000 | B | 5.5 | 2.2 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:07 | 1 |
| Manganese | 180 | | 0.55 | 0.11 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:07 | 1 |
| Nickel | 35 | | 0.55 | 0.15 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:07 | 1 |
| Potassium | 2300 | | 27 | 4.5 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:07 | 1 |
| Selenium | <0.55 | | 0.55 | 0.27 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:07 | 1 |
| Silver | <0.27 | | 0.27 | 0.064 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:07 | 1 |
| Sodium | 1900 | | 55 | 7.2 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:07 | 1 |
| Thallium | <0.55 | | 0.55 | 0.27 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:07 | 1 |
| Vanadium | 23 | | 0.27 | 0.080 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:07 | 1 |
| Zinc | 190 | | 1.1 | 0.35 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:07 | 1 |

Method: 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/01/16 15:45 | 04/04/16 13:41 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/01/16 15:45 | 04/04/16 14:17 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Mercury | 24 | | 18 | 9.5 | ug/Kg | ☼ | 03/30/16 16:15 | 03/31/16 10:19 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-------------|-----------|-------|-------|------|---|----------|----------------|---------|
| pH | 8.94 | | 0.200 | 0.200 | SU | | | 03/31/16 11:17 | 1 |

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Client Sample ID: R17-2(5-10)-032916

Lab Sample ID: 500-109413-11

Date Collected: 03/29/16 10:30

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 83.6

Method: 8260B - VOC

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Acetone | <24 | | 24 | 4.6 | ug/Kg | ☼ | | 04/01/16 19:26 | 1 |
| Benzene | <6.0 | | 6.0 | 1.3 | ug/Kg | ☼ | | 04/01/16 19:26 | 1 |
| Bromodichloromethane | <6.0 | | 6.0 | 1.0 | ug/Kg | ☼ | | 04/01/16 19:26 | 1 |
| Bromoform | <6.0 | | 6.0 | 1.2 | ug/Kg | ☼ | | 04/01/16 19:26 | 1 |
| Bromomethane | <6.0 | | 6.0 | 2.2 | ug/Kg | ☼ | | 04/01/16 19:26 | 1 |
| Carbon disulfide | <6.0 | | 6.0 | 2.2 | ug/Kg | ☼ | | 04/01/16 19:26 | 1 |
| Carbon tetrachloride | <6.0 | | 6.0 | 1.3 | ug/Kg | ☼ | | 04/01/16 19:26 | 1 |
| Chlorobenzene | <6.0 | | 6.0 | 1.4 | ug/Kg | ☼ | | 04/01/16 19:26 | 1 |
| Chloroethane | <6.0 | | 6.0 | 2.5 | ug/Kg | ☼ | | 04/01/16 19:26 | 1 |
| Chloroform | <6.0 | | 6.0 | 1.2 | ug/Kg | ☼ | | 04/01/16 19:26 | 1 |
| Chloromethane | <6.0 | | 6.0 | 1.4 | ug/Kg | ☼ | | 04/01/16 19:26 | 1 |
| cis-1,2-Dichloroethene | <6.0 | | 6.0 | 1.2 | ug/Kg | ☼ | | 04/01/16 19:26 | 1 |
| cis-1,3-Dichloropropene | <6.0 | | 6.0 | 1.4 | ug/Kg | ☼ | | 04/01/16 19:26 | 1 |
| Dibromochloromethane | <6.0 | | 6.0 | 0.69 | ug/Kg | ☼ | | 04/01/16 19:26 | 1 |
| 1,1-Dichloroethane | <6.0 | | 6.0 | 1.2 | ug/Kg | ☼ | | 04/01/16 19:26 | 1 |
| 1,2-Dichloroethane | <6.0 | | 6.0 | 0.89 | ug/Kg | ☼ | | 04/01/16 19:26 | 1 |
| 1,1-Dichloroethene | <6.0 | | 6.0 | 2.2 | ug/Kg | ☼ | | 04/01/16 19:26 | 1 |
| 1,2-Dichloropropane | <6.0 | | 6.0 | 1.6 | ug/Kg | ☼ | | 04/01/16 19:26 | 1 |
| 1,3-Dichloropropene, Total | <6.0 | | 6.0 | 1.7 | ug/Kg | ☼ | | 04/01/16 19:26 | 1 |
| Ethylbenzene | <6.0 | | 6.0 | 1.5 | ug/Kg | ☼ | | 04/01/16 19:26 | 1 |
| 2-Hexanone | <6.0 | | 6.0 | 1.9 | ug/Kg | ☼ | | 04/01/16 19:26 | 1 |
| Methylene Chloride | <6.0 | | 6.0 | 4.5 | ug/Kg | ☼ | | 04/01/16 19:26 | 1 |
| Methyl Ethyl Ketone | <6.0 | | 6.0 | 2.1 | ug/Kg | ☼ | | 04/01/16 19:26 | 1 |
| methyl isobutyl ketone | <6.0 | | 6.0 | 1.2 | ug/Kg | ☼ | | 04/01/16 19:26 | 1 |
| Methyl tert-butyl ether | <6.0 | | 6.0 | 1.4 | ug/Kg | ☼ | | 04/01/16 19:26 | 1 |
| Styrene | <6.0 | | 6.0 | 1.4 | ug/Kg | ☼ | | 04/01/16 19:26 | 1 |
| 1,1,2,2-Tetrachloroethane | <6.0 | | 6.0 | 0.95 | ug/Kg | ☼ | | 04/01/16 19:26 | 1 |
| Tetrachloroethene | <6.0 | | 6.0 | 1.2 | ug/Kg | ☼ | | 04/01/16 19:26 | 1 |
| Toluene | <6.0 | | 6.0 | 2.1 | ug/Kg | ☼ | | 04/01/16 19:26 | 1 |
| trans-1,2-Dichloroethene | <6.0 | | 6.0 | 1.5 | ug/Kg | ☼ | | 04/01/16 19:26 | 1 |
| trans-1,3-Dichloropropene | <6.0 | | 6.0 | 1.7 | ug/Kg | ☼ | | 04/01/16 19:26 | 1 |
| 1,1,1-Trichloroethane | <6.0 | | 6.0 | 1.4 | ug/Kg | ☼ | | 04/01/16 19:26 | 1 |
| 1,1,2-Trichloroethane | <6.0 | | 6.0 | 1.2 | ug/Kg | ☼ | | 04/01/16 19:26 | 1 |
| Trichloroethene | <6.0 | | 6.0 | 1.6 | ug/Kg | ☼ | | 04/01/16 19:26 | 1 |
| Vinyl chloride | <6.0 | | 6.0 | 1.4 | ug/Kg | ☼ | | 04/01/16 19:26 | 1 |
| Xylenes, Total | <12 | | 12 | 2.2 | ug/Kg | ☼ | | 04/01/16 19:26 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 105 | | 70 - 120 | | 04/01/16 19:26 | 1 |
| Dibromofluoromethane | 112 | | 75 - 120 | | 04/01/16 19:26 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 115 | | 69 - 134 | | 04/01/16 19:26 | 1 |
| Toluene-d8 (Surr) | 117 | | 75 - 123 | | 04/01/16 19:26 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,2,4-Trichlorobenzene | <200 | | 200 | 43 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:53 | 1 |
| 1,2-Dichlorobenzene | <200 | | 200 | 47 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:53 | 1 |
| 1,3-Dichlorobenzene | <200 | | 200 | 45 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:53 | 1 |
| 1,4-Dichlorobenzene | <200 | | 200 | 51 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:53 | 1 |
| 2,2'-oxybis[1-chloropropane] | <200 | | 200 | 46 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:53 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Client Sample ID: R17-2(5-10)-032916

Lab Sample ID: 500-109413-11

Date Collected: 03/29/16 10:30

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 83.6

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|------------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol | <390 | | 390 | 90 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:53 | 1 |
| 2,4,6-Trichlorophenol | <390 | | 390 | 140 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:53 | 1 |
| 2,4-Dichlorophenol | <390 | | 390 | 94 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:53 | 1 |
| 2,4-Dimethylphenol | <390 | | 390 | 150 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:53 | 1 |
| 2,4-Dinitrophenol | <800 | | 800 | 700 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:53 | 1 |
| 2,4-Dinitrotoluene | <200 | | 200 | 63 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:53 | 1 |
| 2,6-Dinitrotoluene | <200 | | 200 | 78 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:53 | 1 |
| 2-Chloronaphthalene | <200 | | 200 | 44 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:53 | 1 |
| 2-Chlorophenol | <200 | | 200 | 68 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:53 | 1 |
| 2-Methylnaphthalene | 20 | J | 39 | 7.3 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:53 | 1 |
| 2-Methylphenol | <200 | | 200 | 64 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:53 | 1 |
| 2-Nitroaniline | <200 | | 200 | 53 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:53 | 1 |
| 2-Nitrophenol | <390 | | 390 | 94 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:53 | 1 |
| 3 & 4 Methylphenol | <200 | | 200 | 66 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:53 | 1 |
| 3,3'-Dichlorobenzidine | <200 | | 200 | 55 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:53 | 1 |
| 3-Nitroaniline | <390 | | 390 | 120 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:53 | 1 |
| 4,6-Dinitro-2-methylphenol | <800 | | 800 | 320 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:53 | 1 |
| 4-Bromophenyl phenyl ether | <200 | | 200 | 52 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:53 | 1 |
| 4-Chloro-3-methylphenol | <390 | | 390 | 130 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:53 | 1 |
| 4-Chloroaniline | <800 | | 800 | 190 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:53 | 1 |
| 4-Chlorophenyl phenyl ether | <200 | | 200 | 46 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:53 | 1 |
| 4-Nitroaniline | <390 | | 390 | 170 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:53 | 1 |
| 4-Nitrophenol | <800 | | 800 | 380 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:53 | 1 |
| Acenaphthene | <39 | | 39 | 7.1 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:53 | 1 |
| Acenaphthylene | <39 | | 39 | 5.2 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:53 | 1 |
| Anthracene | <39 | | 39 | 6.6 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:53 | 1 |
| Benzo[a]anthracene | 7.7 | J | 39 | 5.3 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:53 | 1 |
| Benzo[a]pyrene | 9.7 | J | 39 | 7.7 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:53 | 1 |
| Benzo[b]fluoranthene | 21 | J | 39 | 8.6 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:53 | 1 |
| Benzo[g,h,i]perylene | 15 | J | 39 | 13 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:53 | 1 |
| Benzo[k]fluoranthene | <39 | | 39 | 12 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:53 | 1 |
| Bis(2-chloroethoxy)methane | <200 | | 200 | 40 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:53 | 1 |
| Bis(2-chloroethyl)ether | <200 | | 200 | 59 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:53 | 1 |
| Bis(2-ethylhexyl) phthalate | <200 | | 200 | 72 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:53 | 1 |
| Butyl benzyl phthalate | <200 | | 200 | 75 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:53 | 1 |
| Carbazole | <200 | | 200 | 99 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:53 | 1 |
| Chrysene | 22 | J | 39 | 11 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:53 | 1 |
| Dibenz(a,h)anthracene | <39 | | 39 | 7.7 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:53 | 1 |
| Dibenzofuran | <200 | | 200 | 46 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:53 | 1 |
| Diethyl phthalate | <200 | | 200 | 67 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:53 | 1 |
| Dimethyl phthalate | <200 | | 200 | 52 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:53 | 1 |
| Di-n-butyl phthalate | <200 | | 200 | 60 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:53 | 1 |
| Di-n-octyl phthalate | <200 | | 200 | 65 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:53 | 1 |
| Fluoranthene | 16 | J | 39 | 7.3 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:53 | 1 |
| Fluorene | <39 | | 39 | 5.6 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:53 | 1 |
| Hexachlorobenzene | <80 | | 80 | 9.2 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:53 | 1 |
| Hexachlorobutadiene | <200 | | 200 | 62 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:53 | 1 |
| Hexachlorocyclopentadiene | <800 | | 800 | 230 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:53 | 1 |
| Hexachloroethane | <200 | | 200 | 60 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:53 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Client Sample ID: R17-2(5-10)-032916

Lab Sample ID: 500-109413-11

Date Collected: 03/29/16 10:30

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 83.6

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|-----------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Indeno[1,2,3-cd]pyrene | <39 | | 39 | 10 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:53 | 1 |
| Isophorone | <200 | | 200 | 45 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:53 | 1 |
| Naphthalene | <39 | | 39 | 6.1 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:53 | 1 |
| Nitrobenzene | <39 | | 39 | 9.9 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:53 | 1 |
| N-Nitrosodi-n-propylamine | <80 | | 80 | 48 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:53 | 1 |
| N-Nitrosodiphenylamine | <200 | | 200 | 47 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:53 | 1 |
| Pentachlorophenol | <800 | | 800 | 640 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:53 | 1 |
| Phenanthrene | 50 | | 39 | 5.5 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:53 | 1 |
| Phenol | <200 | | 200 | 88 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:53 | 1 |
| Pyrene | 28 | J | 39 | 7.9 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 20:53 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2,4,6-Tribromophenol | 39 | | 25 - 130 | 03/30/16 08:24 | 04/06/16 20:53 | 1 |
| 2-Fluorobiphenyl | 83 | | 42 - 115 | 03/30/16 08:24 | 04/06/16 20:53 | 1 |
| 2-Fluorophenol | 87 | | 40 - 130 | 03/30/16 08:24 | 04/06/16 20:53 | 1 |
| Nitrobenzene-d5 | 73 | | 33 - 124 | 03/30/16 08:24 | 04/06/16 20:53 | 1 |
| Phenol-d5 | 79 | | 36 - 123 | 03/30/16 08:24 | 04/06/16 20:53 | 1 |
| Terphenyl-d14 | 118 | | 25 - 150 | 03/30/16 08:24 | 04/06/16 20:53 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.050 | | 0.050 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:02 | 1 |
| Barium | 0.50 | | 0.50 | 0.050 | mg/L | | 04/01/16 14:34 | 04/02/16 18:02 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 04/01/16 14:34 | 04/02/16 18:02 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/01/16 14:34 | 04/02/16 18:02 | 1 |
| Chromium | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:02 | 1 |
| Cobalt | 0.013 | J | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:02 | 1 |
| Copper | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:02 | 1 |
| Iron | <0.40 | | 0.40 | 0.20 | mg/L | | 04/01/16 14:34 | 04/02/16 18:02 | 1 |
| Lead | <0.0075 | | 0.0075 | 0.0075 | mg/L | | 04/01/16 14:34 | 04/02/16 18:02 | 1 |
| Manganese | 0.96 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:02 | 1 |
| Nickel | 0.026 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:02 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/01/16 14:34 | 04/02/16 18:02 | 1 |
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:02 | 1 |
| Zinc | 0.086 | J | 0.50 | 0.020 | mg/L | | 04/01/16 14:34 | 04/02/16 18:02 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.019 | J | 0.050 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:20 | 1 |
| Barium | 0.26 | J | 0.50 | 0.050 | mg/L | | 04/01/16 14:17 | 04/02/16 20:20 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 04/01/16 14:17 | 04/02/16 20:20 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/01/16 14:17 | 04/02/16 20:20 | 1 |
| Chromium | 0.096 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:20 | 1 |
| Cobalt | 0.027 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:20 | 1 |
| Copper | 0.090 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:20 | 1 |
| Iron | 85 | | 0.40 | 0.20 | mg/L | | 04/05/16 07:39 | 04/05/16 14:50 | 1 |
| Lead | 0.044 | | 0.0075 | 0.0075 | mg/L | | 04/01/16 14:17 | 04/02/16 20:20 | 1 |
| Manganese | 0.44 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:20 | 1 |
| Nickel | 0.099 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:20 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/01/16 14:17 | 04/02/16 20:20 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Client Sample ID: R17-2(5-10)-032916

Lab Sample ID: 500-109413-11

Date Collected: 03/29/16 10:30

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 83.6

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|-------------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:20 | 1 |
| Zinc | 0.22 | J | 0.50 | 0.020 | mg/L | | 04/01/16 14:17 | 04/02/16 20:20 | 1 |

Method: 6010B - Total Metals

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | <1.0 | | 1.0 | 0.21 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:12 | 1 |
| Arsenic | 5.9 | | 0.51 | 0.23 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:12 | 1 |
| Barium | 35 | B | 0.51 | 0.093 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:12 | 1 |
| Beryllium | 0.60 | | 0.20 | 0.044 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:12 | 1 |
| Cadmium | 0.094 | J | 0.10 | 0.029 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:12 | 1 |
| Calcium | 71000 | B | 100 | 33 | mg/Kg | ☼ | 03/31/16 09:19 | 04/02/16 21:51 | 10 |
| Chromium | 16 | | 0.51 | 0.087 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:12 | 1 |
| Cobalt | 11 | | 0.25 | 0.057 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:12 | 1 |
| Copper | 21 | | 0.51 | 0.11 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:12 | 1 |
| Iron | 17000 | | 10 | 3.9 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:12 | 1 |
| Lead | 13 | | 0.25 | 0.13 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:12 | 1 |
| Magnesium | 20000 | B | 5.1 | 2.1 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:12 | 1 |
| Manganese | 260 | | 0.51 | 0.10 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:12 | 1 |
| Nickel | 34 | | 0.51 | 0.14 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:12 | 1 |
| Potassium | 2400 | | 25 | 4.1 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:12 | 1 |
| Selenium | <0.51 | | 0.51 | 0.25 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:12 | 1 |
| Silver | <0.25 | | 0.25 | 0.059 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:12 | 1 |
| Sodium | 370 | | 51 | 6.7 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:12 | 1 |
| Thallium | <0.51 | | 0.51 | 0.25 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:12 | 1 |
| Vanadium | 19 | | 0.25 | 0.074 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:12 | 1 |
| Zinc | 73 | | 1.0 | 0.32 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:12 | 1 |

Method: 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/01/16 15:45 | 04/04/16 13:43 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/01/16 15:45 | 04/04/16 12:42 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Mercury | 20 | | 17 | 9.0 | ug/Kg | ☼ | 03/30/16 16:15 | 03/31/16 10:21 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-------------|-----------|-------|-------|------|---|----------|----------------|---------|
| pH | 8.32 | | 0.200 | 0.200 | SU | | | 03/31/16 11:22 | 1 |

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Client Sample ID: R17-2(10-15)-032916

Lab Sample ID: 500-109413-12

Date Collected: 03/29/16 10:35

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 88.5

Method: 8260B - VOC

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Acetone | <23 | | 23 | 4.4 | ug/Kg | ☼ | | 04/04/16 11:19 | 1 |
| Benzene | <5.7 | | 5.7 | 1.3 | ug/Kg | ☼ | | 04/04/16 11:19 | 1 |
| Bromodichloromethane | <5.7 | | 5.7 | 0.95 | ug/Kg | ☼ | | 04/04/16 11:19 | 1 |
| Bromoform | <5.7 | | 5.7 | 1.2 | ug/Kg | ☼ | | 04/04/16 11:19 | 1 |
| Bromomethane | <5.7 | | 5.7 | 2.1 | ug/Kg | ☼ | | 04/04/16 11:19 | 1 |
| Carbon disulfide | <5.7 | | 5.7 | 2.1 | ug/Kg | ☼ | | 04/04/16 11:19 | 1 |
| Carbon tetrachloride | <5.7 | | 5.7 | 1.2 | ug/Kg | ☼ | | 04/04/16 11:19 | 1 |
| Chlorobenzene | <5.7 | | 5.7 | 1.3 | ug/Kg | ☼ | | 04/04/16 11:19 | 1 |
| Chloroethane | <5.7 | | 5.7 | 2.4 | ug/Kg | ☼ | | 04/04/16 11:19 | 1 |
| Chloroform | <5.7 | | 5.7 | 1.1 | ug/Kg | ☼ | | 04/04/16 11:19 | 1 |
| Chloromethane | <5.7 | | 5.7 | 1.4 | ug/Kg | ☼ | | 04/04/16 11:19 | 1 |
| cis-1,2-Dichloroethene | <5.7 | | 5.7 | 1.2 | ug/Kg | ☼ | | 04/04/16 11:19 | 1 |
| cis-1,3-Dichloropropene | <5.7 | | 5.7 | 1.3 | ug/Kg | ☼ | | 04/04/16 11:19 | 1 |
| Dibromochloromethane | <5.7 | | 5.7 | 0.65 | ug/Kg | ☼ | | 04/04/16 11:19 | 1 |
| 1,1-Dichloroethane | <5.7 | | 5.7 | 1.2 | ug/Kg | ☼ | | 04/04/16 11:19 | 1 |
| 1,2-Dichloroethane | <5.7 | | 5.7 | 0.84 | ug/Kg | ☼ | | 04/04/16 11:19 | 1 |
| 1,1-Dichloroethene | <5.7 | | 5.7 | 2.1 | ug/Kg | ☼ | | 04/04/16 11:19 | 1 |
| 1,2-Dichloropropane | <5.7 | | 5.7 | 1.5 | ug/Kg | ☼ | | 04/04/16 11:19 | 1 |
| 1,3-Dichloropropene, Total | <5.7 | | 5.7 | 1.6 | ug/Kg | ☼ | | 04/04/16 11:19 | 1 |
| Ethylbenzene | <5.7 | | 5.7 | 1.4 | ug/Kg | ☼ | | 04/04/16 11:19 | 1 |
| 2-Hexanone | <5.7 | | 5.7 | 1.8 | ug/Kg | ☼ | | 04/04/16 11:19 | 1 |
| Methylene Chloride | <5.7 | | 5.7 | 4.3 | ug/Kg | ☼ | | 04/04/16 11:19 | 1 |
| Methyl Ethyl Ketone | <5.7 | | 5.7 | 2.0 | ug/Kg | ☼ | | 04/04/16 11:19 | 1 |
| methyl isobutyl ketone | <5.7 | | 5.7 | 1.2 | ug/Kg | ☼ | | 04/04/16 11:19 | 1 |
| Methyl tert-butyl ether | <5.7 | | 5.7 | 1.3 | ug/Kg | ☼ | | 04/04/16 11:19 | 1 |
| Styrene | <5.7 | | 5.7 | 1.3 | ug/Kg | ☼ | | 04/04/16 11:19 | 1 |
| 1,1,2,2-Tetrachloroethane | <5.7 | | 5.7 | 0.90 | ug/Kg | ☼ | | 04/04/16 11:19 | 1 |
| Tetrachloroethene | <5.7 | | 5.7 | 1.2 | ug/Kg | ☼ | | 04/04/16 11:19 | 1 |
| Toluene | <5.7 | | 5.7 | 2.0 | ug/Kg | ☼ | | 04/04/16 11:19 | 1 |
| trans-1,2-Dichloroethene | <5.7 | | 5.7 | 1.4 | ug/Kg | ☼ | | 04/04/16 11:19 | 1 |
| trans-1,3-Dichloropropene | <5.7 | | 5.7 | 1.6 | ug/Kg | ☼ | | 04/04/16 11:19 | 1 |
| 1,1,1-Trichloroethane | <5.7 | | 5.7 | 1.3 | ug/Kg | ☼ | | 04/04/16 11:19 | 1 |
| 1,1,2-Trichloroethane | <5.7 | | 5.7 | 1.1 | ug/Kg | ☼ | | 04/04/16 11:19 | 1 |
| Trichloroethene | <5.7 | | 5.7 | 1.5 | ug/Kg | ☼ | | 04/04/16 11:19 | 1 |
| Vinyl chloride | <5.7 | | 5.7 | 1.3 | ug/Kg | ☼ | | 04/04/16 11:19 | 1 |
| Xylenes, Total | <11 | | 11 | 2.1 | ug/Kg | ☼ | | 04/04/16 11:19 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 104 | | 70 - 120 | | 04/04/16 11:19 | 1 |
| Dibromofluoromethane | 109 | | 75 - 120 | | 04/04/16 11:19 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 107 | | 69 - 134 | | 04/04/16 11:19 | 1 |
| Toluene-d8 (Surr) | 116 | | 75 - 123 | | 04/04/16 11:19 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,2,4-Trichlorobenzene | <180 | | 180 | 39 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:22 | 1 |
| 1,2-Dichlorobenzene | <180 | | 180 | 43 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:22 | 1 |
| 1,3-Dichlorobenzene | <180 | | 180 | 41 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:22 | 1 |
| 1,4-Dichlorobenzene | <180 | | 180 | 47 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:22 | 1 |
| 2,2'-oxybis[1-chloropropane] | <180 | | 180 | 42 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:22 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Client Sample ID: R17-2(10-15)-032916

Lab Sample ID: 500-109413-12

Date Collected: 03/29/16 10:35

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 88.5

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol | <360 | | 360 | 83 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:22 | 1 |
| 2,4,6-Trichlorophenol | <360 | | 360 | 120 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:22 | 1 |
| 2,4-Dichlorophenol | <360 | | 360 | 86 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:22 | 1 |
| 2,4-Dimethylphenol | <360 | | 360 | 140 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:22 | 1 |
| 2,4-Dinitrophenol | <730 | | 730 | 640 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:22 | 1 |
| 2,4-Dinitrotoluene | <180 | | 180 | 58 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:22 | 1 |
| 2,6-Dinitrotoluene | <180 | | 180 | 71 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:22 | 1 |
| 2-Chloronaphthalene | <180 | | 180 | 40 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:22 | 1 |
| 2-Chlorophenol | <180 | | 180 | 62 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:22 | 1 |
| 2-Methylnaphthalene | 86 | | 36 | 6.7 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:22 | 1 |
| 2-Methylphenol | <180 | | 180 | 58 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:22 | 1 |
| 2-Nitroaniline | <180 | | 180 | 49 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:22 | 1 |
| 2-Nitrophenol | <360 | | 360 | 86 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:22 | 1 |
| 3 & 4 Methylphenol | <180 | | 180 | 60 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:22 | 1 |
| 3,3'-Dichlorobenzidine | <180 | | 180 | 51 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:22 | 1 |
| 3-Nitroaniline | <360 | | 360 | 110 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:22 | 1 |
| 4,6-Dinitro-2-methylphenol | <730 | | 730 | 290 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:22 | 1 |
| 4-Bromophenyl phenyl ether | <180 | | 180 | 48 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:22 | 1 |
| 4-Chloro-3-methylphenol | <360 | | 360 | 120 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:22 | 1 |
| 4-Chloroaniline | <730 | | 730 | 170 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:22 | 1 |
| 4-Chlorophenyl phenyl ether | <180 | | 180 | 42 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:22 | 1 |
| 4-Nitroaniline | <360 | | 360 | 150 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:22 | 1 |
| 4-Nitrophenol | <730 | | 730 | 350 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:22 | 1 |
| Acenaphthene | <36 | | 36 | 6.5 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:22 | 1 |
| Acenaphthylene | <36 | | 36 | 4.8 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:22 | 1 |
| Anthracene | <36 | | 36 | 6.1 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:22 | 1 |
| Benzo[a]anthracene | <36 | | 36 | 4.9 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:22 | 1 |
| Benzo[a]pyrene | <36 | | 36 | 7.0 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:22 | 1 |
| Benzo[b]fluoranthene | <36 | | 36 | 7.8 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:22 | 1 |
| Benzo[g,h,i]perylene | 18 J | | 36 | 12 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:22 | 1 |
| Benzo[k]fluoranthene | <36 | | 36 | 11 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:22 | 1 |
| Bis(2-chloroethoxy)methane | <180 | | 180 | 37 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:22 | 1 |
| Bis(2-chloroethyl)ether | <180 | | 180 | 54 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:22 | 1 |
| Bis(2-ethylhexyl) phthalate | <180 | | 180 | 66 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:22 | 1 |
| Butyl benzyl phthalate | <180 | | 180 | 69 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:22 | 1 |
| Carbazole | <180 | | 180 | 91 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:22 | 1 |
| Chrysene | 20 J | | 36 | 9.9 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:22 | 1 |
| Dibenz(a,h)anthracene | <36 | | 36 | 7.0 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:22 | 1 |
| Dibenzofuran | <180 | | 180 | 42 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:22 | 1 |
| Diethyl phthalate | <180 | | 180 | 61 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:22 | 1 |
| Dimethyl phthalate | <180 | | 180 | 47 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:22 | 1 |
| Di-n-butyl phthalate | <180 | | 180 | 55 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:22 | 1 |
| Di-n-octyl phthalate | <180 | | 180 | 59 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:22 | 1 |
| Fluoranthene | <36 | | 36 | 6.7 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:22 | 1 |
| Fluorene | 6.1 J | | 36 | 5.1 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:22 | 1 |
| Hexachlorobenzene | <73 | | 73 | 8.4 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:22 | 1 |
| Hexachlorobutadiene | <180 | | 180 | 57 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:22 | 1 |
| Hexachlorocyclopentadiene | <730 | | 730 | 210 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:22 | 1 |
| Hexachloroethane | <180 | | 180 | 55 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:22 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Client Sample ID: R17-2(10-15)-032916

Lab Sample ID: 500-109413-12

Date Collected: 03/29/16 10:35

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 88.5

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| Indeno[1,2,3-cd]pyrene | <36 | | 36 | 9.4 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:22 | 1 |
| Isophorone | <180 | | 180 | 41 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:22 | 1 |
| Naphthalene | 16 | J | 36 | 5.6 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:22 | 1 |
| Nitrobenzene | <36 | | 36 | 9.1 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:22 | 1 |
| N-Nitrosodi-n-propylamine | <73 | | 73 | 44 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:22 | 1 |
| N-Nitrosodiphenylamine | <180 | | 180 | 43 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:22 | 1 |
| Pentachlorophenol | <730 | | 730 | 580 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:22 | 1 |
| Phenanthrene | 72 | | 36 | 5.1 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:22 | 1 |
| Phenol | <180 | | 180 | 81 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:22 | 1 |
| Pyrene | 19 | J | 36 | 7.2 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:22 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2,4,6-Tribromophenol | 58 | | 25 - 130 | | | | 03/30/16 08:24 | 04/06/16 21:22 | 1 |
| 2-Fluorobiphenyl | 84 | | 42 - 115 | | | | 03/30/16 08:24 | 04/06/16 21:22 | 1 |
| 2-Fluorophenol | 83 | | 40 - 130 | | | | 03/30/16 08:24 | 04/06/16 21:22 | 1 |
| Nitrobenzene-d5 | 75 | | 33 - 124 | | | | 03/30/16 08:24 | 04/06/16 21:22 | 1 |
| Phenol-d5 | 58 | | 36 - 123 | | | | 03/30/16 08:24 | 04/06/16 21:22 | 1 |
| Terphenyl-d14 | 127 | | 25 - 150 | | | | 03/30/16 08:24 | 04/06/16 21:22 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.050 | | 0.050 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:07 | 1 |
| Barium | 0.45 | J | 0.50 | 0.050 | mg/L | | 04/01/16 14:34 | 04/02/16 18:07 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 04/01/16 14:34 | 04/02/16 18:07 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/01/16 14:34 | 04/02/16 18:07 | 1 |
| Chromium | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:07 | 1 |
| Cobalt | 0.030 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:07 | 1 |
| Copper | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:07 | 1 |
| Iron | <0.40 | | 0.40 | 0.20 | mg/L | | 04/01/16 14:34 | 04/02/16 18:07 | 1 |
| Lead | <0.0075 | | 0.0075 | 0.0075 | mg/L | | 04/01/16 14:34 | 04/02/16 18:07 | 1 |
| Manganese | 1.2 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:07 | 1 |
| Nickel | 0.057 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:07 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/01/16 14:34 | 04/02/16 18:07 | 1 |
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:07 | 1 |
| Zinc | 0.24 | J | 0.50 | 0.020 | mg/L | | 04/01/16 14:34 | 04/02/16 18:07 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.050 | | 0.050 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:32 | 1 |
| Barium | 0.12 | J | 0.50 | 0.050 | mg/L | | 04/01/16 14:17 | 04/02/16 20:32 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 04/01/16 14:17 | 04/02/16 20:32 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/01/16 14:17 | 04/02/16 20:32 | 1 |
| Chromium | 0.034 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:32 | 1 |
| Cobalt | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:32 | 1 |
| Copper | 0.018 | J | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:32 | 1 |
| Iron | 19 | | 0.40 | 0.20 | mg/L | | 04/05/16 07:39 | 04/05/16 14:54 | 1 |
| Lead | 0.013 | | 0.0075 | 0.0075 | mg/L | | 04/01/16 14:17 | 04/02/16 20:32 | 1 |
| Manganese | 0.19 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:32 | 1 |
| Nickel | 0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:32 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/01/16 14:17 | 04/02/16 20:32 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Client Sample ID: R17-2(10-15)-032916

Lab Sample ID: 500-109413-12

Date Collected: 03/29/16 10:35

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 88.5

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|--------------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:32 | 1 |
| Zinc | 0.046 | J | 0.50 | 0.020 | mg/L | | 04/01/16 14:17 | 04/02/16 20:32 | 1 |

Method: 6010B - Total Metals

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | <1.0 | | 1.0 | 0.21 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:17 | 1 |
| Arsenic | 8.2 | | 0.51 | 0.24 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:17 | 1 |
| Barium | 31 | B | 0.51 | 0.093 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:17 | 1 |
| Beryllium | 0.43 | | 0.20 | 0.044 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:17 | 1 |
| Cadmium | <0.10 | | 0.10 | 0.029 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:17 | 1 |
| Calcium | 77000 | B | 100 | 33 | mg/Kg | ☼ | 03/31/16 09:19 | 04/02/16 21:55 | 10 |
| Chromium | 12 | | 0.51 | 0.088 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:17 | 1 |
| Cobalt | 10 | | 0.25 | 0.058 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:17 | 1 |
| Copper | 21 | | 0.51 | 0.11 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:17 | 1 |
| Iron | 16000 | | 10 | 3.9 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:17 | 1 |
| Lead | 12 | | 0.25 | 0.13 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:17 | 1 |
| Magnesium | 24000 | B | 5.1 | 2.1 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:17 | 1 |
| Manganese | 300 | | 0.51 | 0.10 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:17 | 1 |
| Nickel | 27 | | 0.51 | 0.14 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:17 | 1 |
| Potassium | 1900 | | 25 | 4.2 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:17 | 1 |
| Selenium | <0.51 | | 0.51 | 0.25 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:17 | 1 |
| Silver | <0.25 | | 0.25 | 0.060 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:17 | 1 |
| Sodium | 150 | | 51 | 6.7 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:17 | 1 |
| Thallium | 0.41 | J | 0.51 | 0.25 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:17 | 1 |
| Vanadium | 14 | | 0.25 | 0.074 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:17 | 1 |
| Zinc | 110 | | 1.0 | 0.32 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:17 | 1 |

Method: 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/01/16 15:45 | 04/04/16 13:45 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/01/16 15:45 | 04/04/16 12:44 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Mercury | 12 | J | 17 | 8.7 | ug/Kg | ☼ | 03/30/16 16:15 | 03/31/16 10:23 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-------------|-----------|-------|-------|------|---|----------|----------------|---------|
| pH | 8.03 | | 0.200 | 0.200 | SU | | | 03/31/16 11:26 | 1 |

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Client Sample ID: R17-2(10-15)-032916D

Lab Sample ID: 500-109413-13

Date Collected: 03/29/16 10:40

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 88.8

Method: 8260B - VOC

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Acetone | <23 | | 23 | 4.4 | ug/Kg | ☼ | | 04/04/16 11:43 | 1 |
| Benzene | <5.6 | | 5.6 | 1.2 | ug/Kg | ☼ | | 04/04/16 11:43 | 1 |
| Bromodichloromethane | <5.6 | | 5.6 | 0.95 | ug/Kg | ☼ | | 04/04/16 11:43 | 1 |
| Bromoform | <5.6 | | 5.6 | 1.1 | ug/Kg | ☼ | | 04/04/16 11:43 | 1 |
| Bromomethane | <5.6 | | 5.6 | 2.1 | ug/Kg | ☼ | | 04/04/16 11:43 | 1 |
| Carbon disulfide | <5.6 | | 5.6 | 2.1 | ug/Kg | ☼ | | 04/04/16 11:43 | 1 |
| Carbon tetrachloride | <5.6 | | 5.6 | 1.2 | ug/Kg | ☼ | | 04/04/16 11:43 | 1 |
| Chlorobenzene | <5.6 | | 5.6 | 1.3 | ug/Kg | ☼ | | 04/04/16 11:43 | 1 |
| Chloroethane | <5.6 | | 5.6 | 2.4 | ug/Kg | ☼ | | 04/04/16 11:43 | 1 |
| Chloroform | <5.6 | | 5.6 | 1.1 | ug/Kg | ☼ | | 04/04/16 11:43 | 1 |
| Chloromethane | <5.6 | | 5.6 | 1.4 | ug/Kg | ☼ | | 04/04/16 11:43 | 1 |
| cis-1,2-Dichloroethene | <5.6 | | 5.6 | 1.1 | ug/Kg | ☼ | | 04/04/16 11:43 | 1 |
| cis-1,3-Dichloropropene | <5.6 | | 5.6 | 1.3 | ug/Kg | ☼ | | 04/04/16 11:43 | 1 |
| Dibromochloromethane | <5.6 | | 5.6 | 0.65 | ug/Kg | ☼ | | 04/04/16 11:43 | 1 |
| 1,1-Dichloroethane | <5.6 | | 5.6 | 1.2 | ug/Kg | ☼ | | 04/04/16 11:43 | 1 |
| 1,2-Dichloroethane | <5.6 | | 5.6 | 0.83 | ug/Kg | ☼ | | 04/04/16 11:43 | 1 |
| 1,1-Dichloroethene | <5.6 | | 5.6 | 2.0 | ug/Kg | ☼ | | 04/04/16 11:43 | 1 |
| 1,2-Dichloropropane | <5.6 | | 5.6 | 1.5 | ug/Kg | ☼ | | 04/04/16 11:43 | 1 |
| 1,3-Dichloropropene, Total | <5.6 | | 5.6 | 1.6 | ug/Kg | ☼ | | 04/04/16 11:43 | 1 |
| Ethylbenzene | <5.6 | | 5.6 | 1.4 | ug/Kg | ☼ | | 04/04/16 11:43 | 1 |
| 2-Hexanone | <5.6 | | 5.6 | 1.7 | ug/Kg | ☼ | | 04/04/16 11:43 | 1 |
| Methylene Chloride | <5.6 | | 5.6 | 4.3 | ug/Kg | ☼ | | 04/04/16 11:43 | 1 |
| Methyl Ethyl Ketone | <5.6 | | 5.6 | 2.0 | ug/Kg | ☼ | | 04/04/16 11:43 | 1 |
| methyl isobutyl ketone | <5.6 | | 5.6 | 1.2 | ug/Kg | ☼ | | 04/04/16 11:43 | 1 |
| Methyl tert-butyl ether | <5.6 | | 5.6 | 1.3 | ug/Kg | ☼ | | 04/04/16 11:43 | 1 |
| Styrene | <5.6 | | 5.6 | 1.3 | ug/Kg | ☼ | | 04/04/16 11:43 | 1 |
| 1,1,2,2-Tetrachloroethane | <5.6 | | 5.6 | 0.89 | ug/Kg | ☼ | | 04/04/16 11:43 | 1 |
| Tetrachloroethene | <5.6 | | 5.6 | 1.2 | ug/Kg | ☼ | | 04/04/16 11:43 | 1 |
| Toluene | <5.6 | | 5.6 | 2.0 | ug/Kg | ☼ | | 04/04/16 11:43 | 1 |
| trans-1,2-Dichloroethene | <5.6 | | 5.6 | 1.4 | ug/Kg | ☼ | | 04/04/16 11:43 | 1 |
| trans-1,3-Dichloropropene | <5.6 | | 5.6 | 1.6 | ug/Kg | ☼ | | 04/04/16 11:43 | 1 |
| 1,1,1-Trichloroethane | <5.6 | | 5.6 | 1.3 | ug/Kg | ☼ | | 04/04/16 11:43 | 1 |
| 1,1,2-Trichloroethane | <5.6 | | 5.6 | 1.1 | ug/Kg | ☼ | | 04/04/16 11:43 | 1 |
| Trichloroethene | <5.6 | | 5.6 | 1.5 | ug/Kg | ☼ | | 04/04/16 11:43 | 1 |
| Vinyl chloride | <5.6 | | 5.6 | 1.3 | ug/Kg | ☼ | | 04/04/16 11:43 | 1 |
| Xylenes, Total | <11 | | 11 | 2.1 | ug/Kg | ☼ | | 04/04/16 11:43 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 104 | | 70 - 120 | | 04/04/16 11:43 | 1 |
| Dibromofluoromethane | 109 | | 75 - 120 | | 04/04/16 11:43 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 108 | | 69 - 134 | | 04/04/16 11:43 | 1 |
| Toluene-d8 (Surr) | 115 | | 75 - 123 | | 04/04/16 11:43 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,2,4-Trichlorobenzene | <180 | | 180 | 38 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:52 | 1 |
| 1,2-Dichlorobenzene | <180 | | 180 | 43 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:52 | 1 |
| 1,3-Dichlorobenzene | <180 | | 180 | 40 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:52 | 1 |
| 1,4-Dichlorobenzene | <180 | | 180 | 46 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:52 | 1 |
| 2,2'-oxybis[1-chloropropane] | <180 | | 180 | 41 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:52 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Client Sample ID: R17-2(10-15)-032916D

Lab Sample ID: 500-109413-13

Date Collected: 03/29/16 10:40

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 88.8

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol | <350 | | 350 | 81 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:52 | 1 |
| 2,4,6-Trichlorophenol | <350 | | 350 | 120 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:52 | 1 |
| 2,4-Dichlorophenol | <350 | | 350 | 85 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:52 | 1 |
| 2,4-Dimethylphenol | <350 | | 350 | 140 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:52 | 1 |
| 2,4-Dinitrophenol | <720 | | 720 | 630 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:52 | 1 |
| 2,4-Dinitrotoluene | <180 | | 180 | 57 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:52 | 1 |
| 2,6-Dinitrotoluene | <180 | | 180 | 70 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:52 | 1 |
| 2-Chloronaphthalene | <180 | | 180 | 39 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:52 | 1 |
| 2-Chlorophenol | <180 | | 180 | 61 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:52 | 1 |
| 2-Methylnaphthalene | 100 | | 35 | 6.5 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:52 | 1 |
| 2-Methylphenol | <180 | | 180 | 57 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:52 | 1 |
| 2-Nitroaniline | <180 | | 180 | 48 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:52 | 1 |
| 2-Nitrophenol | <350 | | 350 | 84 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:52 | 1 |
| 3 & 4 Methylphenol | <180 | | 180 | 59 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:52 | 1 |
| 3,3'-Dichlorobenzidine | <180 | | 180 | 50 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:52 | 1 |
| 3-Nitroaniline | <350 | | 350 | 110 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:52 | 1 |
| 4,6-Dinitro-2-methylphenol | <720 | | 720 | 290 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:52 | 1 |
| 4-Bromophenyl phenyl ether | <180 | | 180 | 47 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:52 | 1 |
| 4-Chloro-3-methylphenol | <350 | | 350 | 120 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:52 | 1 |
| 4-Chloroaniline | <720 | | 720 | 170 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:52 | 1 |
| 4-Chlorophenyl phenyl ether | <180 | | 180 | 42 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:52 | 1 |
| 4-Nitroaniline | <350 | | 350 | 150 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:52 | 1 |
| 4-Nitrophenol | <720 | | 720 | 340 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:52 | 1 |
| Acenaphthene | <35 | | 35 | 6.4 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:52 | 1 |
| Acenaphthylene | <35 | | 35 | 4.7 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:52 | 1 |
| Anthracene | <35 | | 35 | 5.9 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:52 | 1 |
| Benzo[a]anthracene | 6.2 J | | 35 | 4.8 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:52 | 1 |
| Benzo[a]pyrene | <35 | | 35 | 6.9 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:52 | 1 |
| Benzo[b]fluoranthene | <35 | | 35 | 7.7 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:52 | 1 |
| Benzo[g,h,i]perylene | 21 J | | 35 | 11 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:52 | 1 |
| Benzo[k]fluoranthene | <35 | | 35 | 10 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:52 | 1 |
| Bis(2-chloroethoxy)methane | <180 | | 180 | 36 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:52 | 1 |
| Bis(2-chloroethyl)ether | <180 | | 180 | 53 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:52 | 1 |
| Bis(2-ethylhexyl) phthalate | <180 | | 180 | 65 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:52 | 1 |
| Butyl benzyl phthalate | <180 | | 180 | 68 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:52 | 1 |
| Carbazole | <180 | | 180 | 89 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:52 | 1 |
| Chrysene | 25 J | | 35 | 9.7 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:52 | 1 |
| Dibenz(a,h)anthracene | <35 | | 35 | 6.9 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:52 | 1 |
| Dibenzofuran | <180 | | 180 | 42 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:52 | 1 |
| Diethyl phthalate | <180 | | 180 | 60 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:52 | 1 |
| Dimethyl phthalate | <180 | | 180 | 47 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:52 | 1 |
| Di-n-butyl phthalate | <180 | | 180 | 54 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:52 | 1 |
| Di-n-octyl phthalate | <180 | | 180 | 58 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:52 | 1 |
| Fluoranthene | 11 J | | 35 | 6.6 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:52 | 1 |
| Fluorene | <35 | | 35 | 5.0 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:52 | 1 |
| Hexachlorobenzene | <72 | | 72 | 8.3 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:52 | 1 |
| Hexachlorobutadiene | <180 | | 180 | 56 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:52 | 1 |
| Hexachlorocyclopentadiene | <720 | | 720 | 200 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:52 | 1 |
| Hexachloroethane | <180 | | 180 | 54 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:52 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Client Sample ID: R17-2(10-15)-032916D

Lab Sample ID: 500-109413-13

Date Collected: 03/29/16 10:40

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 88.8

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Indeno[1,2,3-cd]pyrene | <35 | | 35 | 9.2 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:52 | 1 |
| Isophorone | <180 | | 180 | 40 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:52 | 1 |
| Naphthalene | 23 | J | 35 | 5.5 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:52 | 1 |
| Nitrobenzene | <35 | | 35 | 8.9 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:52 | 1 |
| N-Nitrosodi-n-propylamine | <72 | | 72 | 44 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:52 | 1 |
| N-Nitrosodiphenylamine | <180 | | 180 | 42 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:52 | 1 |
| Pentachlorophenol | <720 | | 720 | 570 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:52 | 1 |
| Phenanthrene | 90 | | 35 | 5.0 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:52 | 1 |
| Phenol | <180 | | 180 | 79 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:52 | 1 |
| Pyrene | 35 | | 35 | 7.1 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 21:52 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2,4,6-Tribromophenol | 35 | | 25 - 130 | | | | 03/30/16 08:24 | 04/06/16 21:52 | 1 |
| 2-Fluorobiphenyl | 82 | | 42 - 115 | | | | 03/30/16 08:24 | 04/06/16 21:52 | 1 |
| 2-Fluorophenol | 78 | | 40 - 130 | | | | 03/30/16 08:24 | 04/06/16 21:52 | 1 |
| Nitrobenzene-d5 | 73 | | 33 - 124 | | | | 03/30/16 08:24 | 04/06/16 21:52 | 1 |
| Phenol-d5 | 48 | | 36 - 123 | | | | 03/30/16 08:24 | 04/06/16 21:52 | 1 |
| Terphenyl-d14 | 125 | | 25 - 150 | | | | 03/30/16 08:24 | 04/06/16 21:52 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.050 | | 0.050 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:13 | 1 |
| Barium | 0.46 | J | 0.50 | 0.050 | mg/L | | 04/01/16 14:34 | 04/02/16 18:13 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 04/01/16 14:34 | 04/02/16 18:13 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/01/16 14:34 | 04/02/16 18:13 | 1 |
| Chromium | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:13 | 1 |
| Cobalt | 0.047 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:13 | 1 |
| Copper | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:13 | 1 |
| Iron | <0.40 | | 0.40 | 0.20 | mg/L | | 04/01/16 14:34 | 04/02/16 18:13 | 1 |
| Lead | <0.0075 | | 0.0075 | 0.0075 | mg/L | | 04/01/16 14:34 | 04/02/16 18:13 | 1 |
| Manganese | 1.7 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:13 | 1 |
| Nickel | 0.10 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:13 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/01/16 14:34 | 04/02/16 18:13 | 1 |
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:13 | 1 |
| Zinc | 2.6 | | 0.50 | 0.020 | mg/L | | 04/01/16 14:34 | 04/02/16 18:13 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.050 | | 0.050 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:36 | 1 |
| Barium | 0.10 | J | 0.50 | 0.050 | mg/L | | 04/01/16 14:17 | 04/02/16 20:36 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 04/01/16 14:17 | 04/02/16 20:36 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/01/16 14:17 | 04/02/16 20:36 | 1 |
| Chromium | 0.028 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:36 | 1 |
| Cobalt | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:36 | 1 |
| Copper | 0.017 | J | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:36 | 1 |
| Iron | 23 | | 0.40 | 0.20 | mg/L | | 04/05/16 07:39 | 04/05/16 14:59 | 1 |
| Lead | 0.010 | | 0.0075 | 0.0075 | mg/L | | 04/01/16 14:17 | 04/02/16 20:36 | 1 |
| Manganese | 0.19 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:36 | 1 |
| Nickel | 0.024 | J | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:36 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/01/16 14:17 | 04/02/16 20:36 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Client Sample ID: R17-2(10-15)-032916D

Lab Sample ID: 500-109413-13

Date Collected: 03/29/16 10:40

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 88.8

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|--------------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:36 | 1 |
| Zinc | 0.068 | J | 0.50 | 0.020 | mg/L | | 04/01/16 14:17 | 04/02/16 20:36 | 1 |

Method: 6010B - Total Metals

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|-------|-------|-------|---|----------------|----------------|---------|
| Antimony | <0.94 | | 0.94 | 0.20 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:22 | 1 |
| Arsenic | 6.5 | | 0.47 | 0.22 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:22 | 1 |
| Barium | 24 | B | 0.47 | 0.086 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:22 | 1 |
| Beryllium | 0.47 | | 0.19 | 0.041 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:22 | 1 |
| Cadmium | <0.094 | | 0.094 | 0.027 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:22 | 1 |
| Calcium | 76000 | B | 94 | 30 | mg/Kg | ☼ | 03/31/16 09:19 | 04/02/16 21:59 | 10 |
| Chromium | 13 | | 0.47 | 0.081 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:22 | 1 |
| Cobalt | 10 | | 0.24 | 0.053 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:22 | 1 |
| Copper | 19 | | 0.47 | 0.10 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:22 | 1 |
| Iron | 14000 | | 9.4 | 3.6 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:22 | 1 |
| Lead | 13 | | 0.24 | 0.12 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:22 | 1 |
| Magnesium | 21000 | B | 4.7 | 1.9 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:22 | 1 |
| Manganese | 280 | | 0.47 | 0.093 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:22 | 1 |
| Nickel | 27 | | 0.47 | 0.13 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:22 | 1 |
| Potassium | 2000 | | 24 | 3.9 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:22 | 1 |
| Selenium | <0.47 | | 0.47 | 0.23 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:22 | 1 |
| Silver | <0.24 | | 0.24 | 0.055 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:22 | 1 |
| Sodium | 150 | | 47 | 6.2 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:22 | 1 |
| Thallium | <0.47 | | 0.47 | 0.23 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:22 | 1 |
| Vanadium | 15 | | 0.24 | 0.069 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:22 | 1 |
| Zinc | 190 | | 0.94 | 0.30 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:22 | 1 |

Method: 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/01/16 15:45 | 04/04/16 13:47 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/01/16 15:45 | 04/04/16 12:46 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Mercury | 15 | J | 18 | 9.5 | ug/Kg | ☼ | 03/30/16 16:15 | 03/31/16 10:26 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-------------|-----------|-------|-------|------|---|----------|----------------|---------|
| pH | 8.11 | | 0.200 | 0.200 | SU | | | 03/31/16 11:31 | 1 |

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Client Sample ID: R17-1(0-4)-032916

Lab Sample ID: 500-109413-14

Date Collected: 03/29/16 11:00

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 82.8

Method: 8260B - VOC

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Acetone | <24 | | 24 | 4.7 | ug/Kg | ☼ | | 04/04/16 12:07 | 1 |
| Benzene | <6.0 | | 6.0 | 1.3 | ug/Kg | ☼ | | 04/04/16 12:07 | 1 |
| Bromodichloromethane | <6.0 | | 6.0 | 1.0 | ug/Kg | ☼ | | 04/04/16 12:07 | 1 |
| Bromoform | <6.0 | | 6.0 | 1.2 | ug/Kg | ☼ | | 04/04/16 12:07 | 1 |
| Bromomethane | <6.0 | | 6.0 | 2.2 | ug/Kg | ☼ | | 04/04/16 12:07 | 1 |
| Carbon disulfide | <6.0 | | 6.0 | 2.2 | ug/Kg | ☼ | | 04/04/16 12:07 | 1 |
| Carbon tetrachloride | <6.0 | | 6.0 | 1.3 | ug/Kg | ☼ | | 04/04/16 12:07 | 1 |
| Chlorobenzene | <6.0 | | 6.0 | 1.4 | ug/Kg | ☼ | | 04/04/16 12:07 | 1 |
| Chloroethane | <6.0 | | 6.0 | 2.5 | ug/Kg | ☼ | | 04/04/16 12:07 | 1 |
| Chloroform | <6.0 | | 6.0 | 1.2 | ug/Kg | ☼ | | 04/04/16 12:07 | 1 |
| Chloromethane | <6.0 | | 6.0 | 1.4 | ug/Kg | ☼ | | 04/04/16 12:07 | 1 |
| cis-1,2-Dichloroethene | <6.0 | | 6.0 | 1.2 | ug/Kg | ☼ | | 04/04/16 12:07 | 1 |
| cis-1,3-Dichloropropene | <6.0 | | 6.0 | 1.4 | ug/Kg | ☼ | | 04/04/16 12:07 | 1 |
| Dibromochloromethane | <6.0 | | 6.0 | 0.69 | ug/Kg | ☼ | | 04/04/16 12:07 | 1 |
| 1,1-Dichloroethane | <6.0 | | 6.0 | 1.2 | ug/Kg | ☼ | | 04/04/16 12:07 | 1 |
| 1,2-Dichloroethane | <6.0 | | 6.0 | 0.89 | ug/Kg | ☼ | | 04/04/16 12:07 | 1 |
| 1,1-Dichloroethene | <6.0 | | 6.0 | 2.2 | ug/Kg | ☼ | | 04/04/16 12:07 | 1 |
| 1,2-Dichloropropane | <6.0 | | 6.0 | 1.6 | ug/Kg | ☼ | | 04/04/16 12:07 | 1 |
| 1,3-Dichloropropene, Total | <6.0 | | 6.0 | 1.7 | ug/Kg | ☼ | | 04/04/16 12:07 | 1 |
| Ethylbenzene | <6.0 | | 6.0 | 1.5 | ug/Kg | ☼ | | 04/04/16 12:07 | 1 |
| 2-Hexanone | <6.0 | | 6.0 | 1.9 | ug/Kg | ☼ | | 04/04/16 12:07 | 1 |
| Methylene Chloride | <6.0 | | 6.0 | 4.6 | ug/Kg | ☼ | | 04/04/16 12:07 | 1 |
| Methyl Ethyl Ketone | <6.0 | | 6.0 | 2.1 | ug/Kg | ☼ | | 04/04/16 12:07 | 1 |
| methyl isobutyl ketone | <6.0 | | 6.0 | 1.2 | ug/Kg | ☼ | | 04/04/16 12:07 | 1 |
| Methyl tert-butyl ether | <6.0 | | 6.0 | 1.4 | ug/Kg | ☼ | | 04/04/16 12:07 | 1 |
| Styrene | <6.0 | | 6.0 | 1.4 | ug/Kg | ☼ | | 04/04/16 12:07 | 1 |
| 1,1,2,2-Tetrachloroethane | <6.0 | | 6.0 | 0.96 | ug/Kg | ☼ | | 04/04/16 12:07 | 1 |
| Tetrachloroethene | <6.0 | | 6.0 | 1.3 | ug/Kg | ☼ | | 04/04/16 12:07 | 1 |
| Toluene | <6.0 | | 6.0 | 2.1 | ug/Kg | ☼ | | 04/04/16 12:07 | 1 |
| trans-1,2-Dichloroethene | <6.0 | | 6.0 | 1.5 | ug/Kg | ☼ | | 04/04/16 12:07 | 1 |
| trans-1,3-Dichloropropene | <6.0 | | 6.0 | 1.7 | ug/Kg | ☼ | | 04/04/16 12:07 | 1 |
| 1,1,1-Trichloroethane | <6.0 | | 6.0 | 1.4 | ug/Kg | ☼ | | 04/04/16 12:07 | 1 |
| 1,1,2-Trichloroethane | <6.0 | | 6.0 | 1.2 | ug/Kg | ☼ | | 04/04/16 12:07 | 1 |
| Trichloroethene | <6.0 | | 6.0 | 1.6 | ug/Kg | ☼ | | 04/04/16 12:07 | 1 |
| Vinyl chloride | <6.0 | | 6.0 | 1.4 | ug/Kg | ☼ | | 04/04/16 12:07 | 1 |
| Xylenes, Total | <12 | | 12 | 2.2 | ug/Kg | ☼ | | 04/04/16 12:07 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 106 | | 70 - 120 | | 04/04/16 12:07 | 1 |
| Dibromofluoromethane | 107 | | 75 - 120 | | 04/04/16 12:07 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 111 | | 69 - 134 | | 04/04/16 12:07 | 1 |
| Toluene-d8 (Surr) | 113 | | 75 - 123 | | 04/04/16 12:07 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,2,4-Trichlorobenzene | <190 | | 190 | 41 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:21 | 1 |
| 1,2-Dichlorobenzene | <190 | | 190 | 46 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:21 | 1 |
| 1,3-Dichlorobenzene | <190 | | 190 | 43 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:21 | 1 |
| 1,4-Dichlorobenzene | <190 | | 190 | 49 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:21 | 1 |
| 2,2'-oxybis[1-chloropropane] | <190 | | 190 | 44 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:21 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Client Sample ID: R17-1(0-4)-032916

Lab Sample ID: 500-109413-14

Date Collected: 03/29/16 11:00

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 82.8

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|------------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol | <380 | | 380 | 87 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:21 | 1 |
| 2,4,6-Trichlorophenol | <380 | | 380 | 130 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:21 | 1 |
| 2,4-Dichlorophenol | <380 | | 380 | 91 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:21 | 1 |
| 2,4-Dimethylphenol | <380 | | 380 | 150 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:21 | 1 |
| 2,4-Dinitrophenol | <770 | | 770 | 670 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:21 | 1 |
| 2,4-Dinitrotoluene | <190 | | 190 | 61 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:21 | 1 |
| 2,6-Dinitrotoluene | <190 | | 190 | 75 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:21 | 1 |
| 2-Chloronaphthalene | <190 | | 190 | 42 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:21 | 1 |
| 2-Chlorophenol | <190 | | 190 | 65 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:21 | 1 |
| 2-Methylnaphthalene | 9.3 | J | 38 | 7.0 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:21 | 1 |
| 2-Methylphenol | <190 | | 190 | 61 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:21 | 1 |
| 2-Nitroaniline | <190 | | 190 | 52 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:21 | 1 |
| 2-Nitrophenol | <380 | | 380 | 91 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:21 | 1 |
| 3 & 4 Methylphenol | <190 | | 190 | 64 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:21 | 1 |
| 3,3'-Dichlorobenzidine | <190 | | 190 | 54 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:21 | 1 |
| 3-Nitroaniline | <380 | | 380 | 120 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:21 | 1 |
| 4,6-Dinitro-2-methylphenol | <770 | | 770 | 310 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:21 | 1 |
| 4-Bromophenyl phenyl ether | <190 | | 190 | 51 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:21 | 1 |
| 4-Chloro-3-methylphenol | <380 | | 380 | 130 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:21 | 1 |
| 4-Chloroaniline | <770 | | 770 | 180 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:21 | 1 |
| 4-Chlorophenyl phenyl ether | <190 | | 190 | 45 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:21 | 1 |
| 4-Nitroaniline | <380 | | 380 | 160 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:21 | 1 |
| 4-Nitrophenol | <770 | | 770 | 360 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:21 | 1 |
| Acenaphthene | <38 | | 38 | 6.9 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:21 | 1 |
| Acenaphthylene | <38 | | 38 | 5.1 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:21 | 1 |
| Anthracene | <38 | | 38 | 6.4 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:21 | 1 |
| Benzo[a]anthracene | 45 | | 38 | 5.2 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:21 | 1 |
| Benzo[a]pyrene | 98 | | 38 | 7.4 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:21 | 1 |
| Benzo[b]fluoranthene | 130 | | 38 | 8.3 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:21 | 1 |
| Benzo[g,h,i]perylene | 43 | | 38 | 12 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:21 | 1 |
| Benzo[k]fluoranthene | 54 | | 38 | 11 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:21 | 1 |
| Bis(2-chloroethoxy)methane | <190 | | 190 | 39 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:21 | 1 |
| Bis(2-chloroethyl)ether | <190 | | 190 | 57 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:21 | 1 |
| Bis(2-ethylhexyl) phthalate | <190 | | 190 | 70 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:21 | 1 |
| Butyl benzyl phthalate | <190 | | 190 | 73 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:21 | 1 |
| Carbazole | <190 | | 190 | 96 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:21 | 1 |
| Chrysene | 50 | | 38 | 10 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:21 | 1 |
| Dibenz(a,h)anthracene | 19 | J | 38 | 7.4 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:21 | 1 |
| Dibenzofuran | <190 | | 190 | 45 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:21 | 1 |
| Diethyl phthalate | <190 | | 190 | 65 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:21 | 1 |
| Dimethyl phthalate | <190 | | 190 | 50 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:21 | 1 |
| Di-n-butyl phthalate | <190 | | 190 | 58 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:21 | 1 |
| Di-n-octyl phthalate | <190 | | 190 | 63 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:21 | 1 |
| Fluoranthene | 43 | | 38 | 7.1 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:21 | 1 |
| Fluorene | <38 | | 38 | 5.4 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:21 | 1 |
| Hexachlorobenzene | <77 | | 77 | 8.9 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:21 | 1 |
| Hexachlorobutadiene | <190 | | 190 | 60 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:21 | 1 |
| Hexachlorocyclopentadiene | <770 | | 770 | 220 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:21 | 1 |
| Hexachloroethane | <190 | | 190 | 58 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:21 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Client Sample ID: R17-1(0-4)-032916

Lab Sample ID: 500-109413-14

Date Collected: 03/29/16 11:00

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 82.8

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| Indeno[1,2,3-cd]pyrene | 39 | | 38 | 9.9 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:21 | 1 |
| Isophorone | <190 | | 190 | 43 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:21 | 1 |
| Naphthalene | <38 | | 38 | 5.9 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:21 | 1 |
| Nitrobenzene | <38 | | 38 | 9.6 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:21 | 1 |
| N-Nitrosodi-n-propylamine | <77 | | 77 | 47 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:21 | 1 |
| N-Nitrosodiphenylamine | <190 | | 190 | 45 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:21 | 1 |
| Pentachlorophenol | <770 | | 770 | 610 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:21 | 1 |
| Phenanthrene | 35 J | | 38 | 5.3 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:21 | 1 |
| Phenol | <190 | | 190 | 85 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:21 | 1 |
| Pyrene | 70 | | 38 | 7.6 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:21 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| <i>2,4,6-Tribromophenol</i> | 41 | | 25 - 130 | | | | 03/30/16 08:24 | 04/06/16 22:21 | 1 |
| <i>2-Fluorobiphenyl</i> | 77 | | 42 - 115 | | | | 03/30/16 08:24 | 04/06/16 22:21 | 1 |
| <i>2-Fluorophenol</i> | 81 | | 40 - 130 | | | | 03/30/16 08:24 | 04/06/16 22:21 | 1 |
| <i>Nitrobenzene-d5</i> | 72 | | 33 - 124 | | | | 03/30/16 08:24 | 04/06/16 22:21 | 1 |
| <i>Phenol-d5</i> | 70 | | 36 - 123 | | | | 03/30/16 08:24 | 04/06/16 22:21 | 1 |
| <i>Terphenyl-d14</i> | 121 | | 25 - 150 | | | | 03/30/16 08:24 | 04/06/16 22:21 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|---------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.050 | | 0.050 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:18 | 1 |
| Barium | 0.27 J | | 0.50 | 0.050 | mg/L | | 04/01/16 14:34 | 04/02/16 18:18 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 04/01/16 14:34 | 04/02/16 18:18 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/01/16 14:34 | 04/02/16 18:18 | 1 |
| Chromium | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:18 | 1 |
| Cobalt | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:18 | 1 |
| Copper | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:18 | 1 |
| Iron | <0.40 | | 0.40 | 0.20 | mg/L | | 04/01/16 14:34 | 04/02/16 18:18 | 1 |
| Lead | <0.0075 | | 0.0075 | 0.0075 | mg/L | | 04/01/16 14:34 | 04/02/16 18:18 | 1 |
| Manganese | 0.37 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:18 | 1 |
| Nickel | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:18 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/01/16 14:34 | 04/02/16 18:18 | 1 |
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:18 | 1 |
| Zinc | <0.50 | | 0.50 | 0.020 | mg/L | | 04/01/16 14:34 | 04/02/16 18:18 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|---------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.063 | | 0.050 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:40 | 1 |
| Barium | 0.62 | | 0.50 | 0.050 | mg/L | | 04/01/16 14:17 | 04/02/16 20:40 | 1 |
| Beryllium | 0.0088 | | 0.0040 | 0.0040 | mg/L | | 04/01/16 14:17 | 04/02/16 20:40 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/01/16 14:17 | 04/02/16 20:40 | 1 |
| Chromium | 0.22 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:40 | 1 |
| Cobalt | 0.079 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:40 | 1 |
| Copper | 0.21 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:40 | 1 |
| Iron | 240 | | 0.40 | 0.20 | mg/L | | 04/05/16 07:39 | 04/05/16 15:03 | 1 |
| Lead | 0.17 | | 0.0075 | 0.0075 | mg/L | | 04/01/16 14:17 | 04/02/16 20:40 | 1 |
| Manganese | 0.70 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:40 | 1 |
| Nickel | 0.23 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:40 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/01/16 14:17 | 04/02/16 20:40 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Client Sample ID: R17-1(0-4)-032916

Lab Sample ID: 500-109413-14

Date Collected: 03/29/16 11:00

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 82.8

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|-------------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:40 | 1 |
| Zinc | 0.54 | | 0.50 | 0.020 | mg/L | | 04/01/16 14:17 | 04/02/16 20:40 | 1 |

Method: 6010B - Total Metals

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | <1.0 | | 1.0 | 0.21 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:28 | 1 |
| Arsenic | 7.3 | | 0.51 | 0.23 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:28 | 1 |
| Barium | 57 | B | 0.51 | 0.092 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:28 | 1 |
| Beryllium | 0.80 | | 0.20 | 0.044 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:28 | 1 |
| Cadmium | 0.098 | J | 0.10 | 0.029 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:28 | 1 |
| Calcium | 69000 | B | 100 | 33 | mg/Kg | ☼ | 03/31/16 09:19 | 04/02/16 22:03 | 10 |
| Chromium | 17 | | 0.51 | 0.087 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:28 | 1 |
| Cobalt | 16 | | 0.25 | 0.057 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:28 | 1 |
| Copper | 24 | | 0.51 | 0.11 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:28 | 1 |
| Iron | 21000 | | 10 | 3.9 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:28 | 1 |
| Lead | 27 | | 0.25 | 0.13 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:28 | 1 |
| Magnesium | 25000 | B | 5.1 | 2.1 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:28 | 1 |
| Manganese | 230 | | 0.51 | 0.10 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:28 | 1 |
| Nickel | 37 | | 0.51 | 0.14 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:28 | 1 |
| Potassium | 2100 | | 25 | 4.1 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:28 | 1 |
| Selenium | <0.51 | | 0.51 | 0.25 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:28 | 1 |
| Silver | <0.25 | | 0.25 | 0.059 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:28 | 1 |
| Sodium | 540 | | 51 | 6.7 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:28 | 1 |
| Thallium | <0.51 | | 0.51 | 0.25 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:28 | 1 |
| Vanadium | 24 | | 0.25 | 0.074 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:28 | 1 |
| Zinc | 69 | | 1.0 | 0.32 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:28 | 1 |

Method: 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/01/16 15:45 | 04/04/16 13:48 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/01/16 15:45 | 04/04/16 12:48 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Mercury | 41 | | 19 | 10 | ug/Kg | ☼ | 03/30/16 16:15 | 03/31/16 10:28 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-------------|-----------|-------|-------|------|---|----------|----------------|---------|
| pH | 8.95 | | 0.200 | 0.200 | SU | | | 03/31/16 11:35 | 1 |

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Client Sample ID: R17-1(4-8)-032916

Lab Sample ID: 500-109413-15

Date Collected: 03/29/16 11:05

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 82.0

Method: 8260B - VOC

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Acetone | <24 | | 24 | 4.7 | ug/Kg | ☼ | | 04/04/16 12:31 | 1 |
| Benzene | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 04/04/16 12:31 | 1 |
| Bromodichloromethane | <6.1 | | 6.1 | 1.0 | ug/Kg | ☼ | | 04/04/16 12:31 | 1 |
| Bromoform | <6.1 | | 6.1 | 1.2 | ug/Kg | ☼ | | 04/04/16 12:31 | 1 |
| Bromomethane | <6.1 | | 6.1 | 2.2 | ug/Kg | ☼ | | 04/04/16 12:31 | 1 |
| Carbon disulfide | <6.1 | | 6.1 | 2.2 | ug/Kg | ☼ | | 04/04/16 12:31 | 1 |
| Carbon tetrachloride | <6.1 | | 6.1 | 1.3 | ug/Kg | ☼ | | 04/04/16 12:31 | 1 |
| Chlorobenzene | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 04/04/16 12:31 | 1 |
| Chloroethane | <6.1 | | 6.1 | 2.6 | ug/Kg | ☼ | | 04/04/16 12:31 | 1 |
| Chloroform | <6.1 | | 6.1 | 1.2 | ug/Kg | ☼ | | 04/04/16 12:31 | 1 |
| Chloromethane | <6.1 | | 6.1 | 1.5 | ug/Kg | ☼ | | 04/04/16 12:31 | 1 |
| cis-1,2-Dichloroethene | <6.1 | | 6.1 | 1.2 | ug/Kg | ☼ | | 04/04/16 12:31 | 1 |
| cis-1,3-Dichloropropene | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 04/04/16 12:31 | 1 |
| Dibromochloromethane | <6.1 | | 6.1 | 0.70 | ug/Kg | ☼ | | 04/04/16 12:31 | 1 |
| 1,1-Dichloroethane | <6.1 | | 6.1 | 1.3 | ug/Kg | ☼ | | 04/04/16 12:31 | 1 |
| 1,2-Dichloroethane | <6.1 | | 6.1 | 0.90 | ug/Kg | ☼ | | 04/04/16 12:31 | 1 |
| 1,1-Dichloroethene | <6.1 | | 6.1 | 2.2 | ug/Kg | ☼ | | 04/04/16 12:31 | 1 |
| 1,2-Dichloropropane | <6.1 | | 6.1 | 1.6 | ug/Kg | ☼ | | 04/04/16 12:31 | 1 |
| 1,3-Dichloropropene, Total | <6.1 | | 6.1 | 1.7 | ug/Kg | ☼ | | 04/04/16 12:31 | 1 |
| Ethylbenzene | <6.1 | | 6.1 | 1.5 | ug/Kg | ☼ | | 04/04/16 12:31 | 1 |
| 2-Hexanone | <6.1 | | 6.1 | 1.9 | ug/Kg | ☼ | | 04/04/16 12:31 | 1 |
| Methylene Chloride | <6.1 | | 6.1 | 4.6 | ug/Kg | ☼ | | 04/04/16 12:31 | 1 |
| Methyl Ethyl Ketone | <6.1 | | 6.1 | 2.2 | ug/Kg | ☼ | | 04/04/16 12:31 | 1 |
| methyl isobutyl ketone | <6.1 | | 6.1 | 1.3 | ug/Kg | ☼ | | 04/04/16 12:31 | 1 |
| Methyl tert-butyl ether | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 04/04/16 12:31 | 1 |
| Styrene | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 04/04/16 12:31 | 1 |
| 1,1,2,2-Tetrachloroethane | <6.1 | | 6.1 | 0.97 | ug/Kg | ☼ | | 04/04/16 12:31 | 1 |
| Tetrachloroethene | <6.1 | | 6.1 | 1.3 | ug/Kg | ☼ | | 04/04/16 12:31 | 1 |
| Toluene | <6.1 | | 6.1 | 2.1 | ug/Kg | ☼ | | 04/04/16 12:31 | 1 |
| trans-1,2-Dichloroethene | <6.1 | | 6.1 | 1.5 | ug/Kg | ☼ | | 04/04/16 12:31 | 1 |
| trans-1,3-Dichloropropene | <6.1 | | 6.1 | 1.7 | ug/Kg | ☼ | | 04/04/16 12:31 | 1 |
| 1,1,1-Trichloroethane | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 04/04/16 12:31 | 1 |
| 1,1,2-Trichloroethane | <6.1 | | 6.1 | 1.2 | ug/Kg | ☼ | | 04/04/16 12:31 | 1 |
| Trichloroethene | <6.1 | | 6.1 | 1.6 | ug/Kg | ☼ | | 04/04/16 12:31 | 1 |
| Vinyl chloride | <6.1 | | 6.1 | 1.5 | ug/Kg | ☼ | | 04/04/16 12:31 | 1 |
| Xylenes, Total | <12 | | 12 | 2.3 | ug/Kg | ☼ | | 04/04/16 12:31 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 106 | | 70 - 120 | | 04/04/16 12:31 | 1 |
| Dibromofluoromethane | 111 | | 75 - 120 | | 04/04/16 12:31 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 113 | | 69 - 134 | | 04/04/16 12:31 | 1 |
| Toluene-d8 (Surr) | 113 | | 75 - 123 | | 04/04/16 12:31 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,2,4-Trichlorobenzene | <200 | | 200 | 43 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:50 | 1 |
| 1,2-Dichlorobenzene | <200 | | 200 | 47 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:50 | 1 |
| 1,3-Dichlorobenzene | <200 | | 200 | 45 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:50 | 1 |
| 1,4-Dichlorobenzene | <200 | | 200 | 51 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:50 | 1 |
| 2,2'-oxybis[1-chloropropane] | <200 | | 200 | 46 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:50 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Client Sample ID: R17-1(4-8)-032916

Lab Sample ID: 500-109413-15

Date Collected: 03/29/16 11:05

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 82.0

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol | <390 | | 390 | 91 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:50 | 1 |
| 2,4,6-Trichlorophenol | <390 | | 390 | 140 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:50 | 1 |
| 2,4-Dichlorophenol | <390 | | 390 | 94 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:50 | 1 |
| 2,4-Dimethylphenol | <390 | | 390 | 150 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:50 | 1 |
| 2,4-Dinitrophenol | <800 | | 800 | 700 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:50 | 1 |
| 2,4-Dinitrotoluene | <200 | | 200 | 63 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:50 | 1 |
| 2,6-Dinitrotoluene | <200 | | 200 | 78 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:50 | 1 |
| 2-Chloronaphthalene | <200 | | 200 | 44 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:50 | 1 |
| 2-Chlorophenol | <200 | | 200 | 68 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:50 | 1 |
| 2-Methylnaphthalene | <39 | | 39 | 7.3 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:50 | 1 |
| 2-Methylphenol | <200 | | 200 | 64 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:50 | 1 |
| 2-Nitroaniline | <200 | | 200 | 53 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:50 | 1 |
| 2-Nitrophenol | <390 | | 390 | 94 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:50 | 1 |
| 3 & 4 Methylphenol | <200 | | 200 | 66 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:50 | 1 |
| 3,3'-Dichlorobenzidine | <200 | | 200 | 56 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:50 | 1 |
| 3-Nitroaniline | <390 | | 390 | 120 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:50 | 1 |
| 4,6-Dinitro-2-methylphenol | <800 | | 800 | 320 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:50 | 1 |
| 4-Bromophenyl phenyl ether | <200 | | 200 | 52 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:50 | 1 |
| 4-Chloro-3-methylphenol | <390 | | 390 | 140 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:50 | 1 |
| 4-Chloroaniline | <800 | | 800 | 190 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:50 | 1 |
| 4-Chlorophenyl phenyl ether | <200 | | 200 | 46 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:50 | 1 |
| 4-Nitroaniline | <390 | | 390 | 170 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:50 | 1 |
| 4-Nitrophenol | <800 | | 800 | 380 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:50 | 1 |
| Acenaphthene | <39 | | 39 | 7.1 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:50 | 1 |
| Acenaphthylene | <39 | | 39 | 5.2 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:50 | 1 |
| Anthracene | <39 | | 39 | 6.6 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:50 | 1 |
| Benzo[a]anthracene | 21 | J | 39 | 5.3 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:50 | 1 |
| Benzo[a]pyrene | 30 | J | 39 | 7.7 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:50 | 1 |
| Benzo[b]fluoranthene | 51 | | 39 | 8.6 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:50 | 1 |
| Benzo[g,h,i]perylene | 15 | J | 39 | 13 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:50 | 1 |
| Benzo[k]fluoranthene | 23 | J | 39 | 12 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:50 | 1 |
| Bis(2-chloroethoxy)methane | <200 | | 200 | 41 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:50 | 1 |
| Bis(2-chloroethyl)ether | <200 | | 200 | 60 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:50 | 1 |
| Bis(2-ethylhexyl) phthalate | <200 | | 200 | 73 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:50 | 1 |
| Butyl benzyl phthalate | <200 | | 200 | 76 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:50 | 1 |
| Carbazole | <200 | | 200 | 99 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:50 | 1 |
| Chrysene | 28 | J | 39 | 11 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:50 | 1 |
| Dibenz(a,h)anthracene | <39 | | 39 | 7.7 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:50 | 1 |
| Dibenzofuran | <200 | | 200 | 47 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:50 | 1 |
| Diethyl phthalate | <200 | | 200 | 67 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:50 | 1 |
| Dimethyl phthalate | <200 | | 200 | 52 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:50 | 1 |
| Di-n-butyl phthalate | <200 | | 200 | 60 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:50 | 1 |
| Di-n-octyl phthalate | <200 | | 200 | 65 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:50 | 1 |
| Fluoranthene | 41 | | 39 | 7.4 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:50 | 1 |
| Fluorene | <39 | | 39 | 5.6 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:50 | 1 |
| Hexachlorobenzene | <80 | | 80 | 9.2 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:50 | 1 |
| Hexachlorobutadiene | <200 | | 200 | 62 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:50 | 1 |
| Hexachlorocyclopentadiene | <800 | | 800 | 230 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:50 | 1 |
| Hexachloroethane | <200 | | 200 | 60 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:50 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Client Sample ID: R17-1(4-8)-032916

Lab Sample ID: 500-109413-15

Date Collected: 03/29/16 11:05

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 82.0

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| Indeno[1,2,3-cd]pyrene | 16 | J | 39 | 10 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:50 | 1 |
| Isophorone | <200 | | 200 | 45 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:50 | 1 |
| Naphthalene | <39 | | 39 | 6.1 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:50 | 1 |
| Nitrobenzene | <39 | | 39 | 9.9 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:50 | 1 |
| N-Nitrosodi-n-propylamine | <80 | | 80 | 49 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:50 | 1 |
| N-Nitrosodiphenylamine | <200 | | 200 | 47 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:50 | 1 |
| Pentachlorophenol | <800 | | 800 | 640 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:50 | 1 |
| Phenanthrene | 21 | J | 39 | 5.5 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:50 | 1 |
| Phenol | <200 | | 200 | 88 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:50 | 1 |
| Pyrene | 51 | | 39 | 7.9 | ug/Kg | ☼ | 03/30/16 08:24 | 04/06/16 22:50 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| <i>2,4,6-Tribromophenol</i> | 31 | | 25 - 130 | | | | 03/30/16 08:24 | 04/06/16 22:50 | 1 |
| <i>2-Fluorobiphenyl</i> | 70 | | 42 - 115 | | | | 03/30/16 08:24 | 04/06/16 22:50 | 1 |
| <i>2-Fluorophenol</i> | 74 | | 40 - 130 | | | | 03/30/16 08:24 | 04/06/16 22:50 | 1 |
| <i>Nitrobenzene-d5</i> | 65 | | 33 - 124 | | | | 03/30/16 08:24 | 04/06/16 22:50 | 1 |
| <i>Phenol-d5</i> | 69 | | 36 - 123 | | | | 03/30/16 08:24 | 04/06/16 22:50 | 1 |
| <i>Terphenyl-d14</i> | 119 | | 25 - 150 | | | | 03/30/16 08:24 | 04/06/16 22:50 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|-------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.050 | | 0.050 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:23 | 1 |
| Barium | 0.24 | J | 0.50 | 0.050 | mg/L | | 04/01/16 14:34 | 04/02/16 18:23 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 04/01/16 14:34 | 04/02/16 18:23 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/01/16 14:34 | 04/02/16 18:23 | 1 |
| Chromium | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:23 | 1 |
| Cobalt | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:23 | 1 |
| Copper | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:23 | 1 |
| Iron | <0.40 | | 0.40 | 0.20 | mg/L | | 04/01/16 14:34 | 04/02/16 18:23 | 1 |
| Lead | <0.0075 | | 0.0075 | 0.0075 | mg/L | | 04/01/16 14:34 | 04/02/16 18:23 | 1 |
| Manganese | 0.69 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:23 | 1 |
| Nickel | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:23 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/01/16 14:34 | 04/02/16 18:23 | 1 |
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:34 | 04/02/16 18:23 | 1 |
| Zinc | <0.50 | | 0.50 | 0.020 | mg/L | | 04/01/16 14:34 | 04/02/16 18:23 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|---------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.055 | | 0.050 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:45 | 1 |
| Barium | 0.29 | J | 0.50 | 0.050 | mg/L | | 04/01/16 14:17 | 04/02/16 20:45 | 1 |
| Beryllium | 0.0054 | | 0.0040 | 0.0040 | mg/L | | 04/01/16 14:17 | 04/02/16 20:45 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/01/16 14:17 | 04/02/16 20:45 | 1 |
| Chromium | 0.14 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:45 | 1 |
| Cobalt | 0.048 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:45 | 1 |
| Copper | 0.13 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:45 | 1 |
| Iron | 190 | | 0.40 | 0.20 | mg/L | | 04/05/16 07:39 | 04/05/16 15:08 | 1 |
| Lead | 0.10 | | 0.0075 | 0.0075 | mg/L | | 04/01/16 14:17 | 04/02/16 20:45 | 1 |
| Manganese | 0.52 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:45 | 1 |
| Nickel | 0.16 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:45 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/01/16 14:17 | 04/02/16 20:45 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Client Sample ID: R17-1(4-8)-032916

Lab Sample ID: 500-109413-15

Date Collected: 03/29/16 11:05

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 82.0

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|-------------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:17 | 04/02/16 20:45 | 1 |
| Zinc | 0.36 | J | 0.50 | 0.020 | mg/L | | 04/01/16 14:17 | 04/02/16 20:45 | 1 |

Method: 6010B - Total Metals

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | <1.0 | | 1.0 | 0.21 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:33 | 1 |
| Arsenic | 4.7 | | 0.51 | 0.24 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:33 | 1 |
| Barium | 39 | B | 0.51 | 0.093 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:33 | 1 |
| Beryllium | 0.69 | | 0.20 | 0.044 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:33 | 1 |
| Cadmium | 0.083 | J | 0.10 | 0.030 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:33 | 1 |
| Calcium | 63000 | B | 100 | 33 | mg/Kg | ☼ | 03/31/16 09:19 | 04/02/16 22:07 | 10 |
| Chromium | 18 | | 0.51 | 0.088 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:33 | 1 |
| Cobalt | 12 | | 0.25 | 0.058 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:33 | 1 |
| Copper | 22 | | 0.51 | 0.11 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:33 | 1 |
| Iron | 16000 | | 10 | 3.9 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:33 | 1 |
| Lead | 27 | | 0.25 | 0.13 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:33 | 1 |
| Magnesium | 20000 | B | 5.1 | 2.1 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:33 | 1 |
| Manganese | 260 | | 0.51 | 0.10 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:33 | 1 |
| Nickel | 32 | | 0.51 | 0.14 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:33 | 1 |
| Potassium | 2500 | | 25 | 4.2 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:33 | 1 |
| Selenium | <0.51 | | 0.51 | 0.25 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:33 | 1 |
| Silver | <0.25 | | 0.25 | 0.060 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:33 | 1 |
| Sodium | 800 | | 51 | 6.7 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:33 | 1 |
| Thallium | <0.51 | | 0.51 | 0.25 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:33 | 1 |
| Vanadium | 19 | | 0.25 | 0.074 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:33 | 1 |
| Zinc | 76 | | 1.0 | 0.32 | mg/Kg | ☼ | 03/31/16 09:19 | 04/01/16 19:33 | 1 |

Method: 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/01/16 15:45 | 04/04/16 13:50 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/01/16 15:45 | 04/04/16 12:54 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Mercury | 24 | | 19 | 9.8 | ug/Kg | ☼ | 03/30/16 16:15 | 03/31/16 10:30 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-------------|-----------|-------|-------|------|---|----------|----------------|---------|
| pH | 8.50 | | 0.200 | 0.200 | SU | | | 03/31/16 11:40 | 1 |

Definitions/Glossary

Client: Environmental Design International, Inc.
Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Qualifiers

GC/MS VOA

| Qualifier | Qualifier Description |
|-----------|--|
| F1 | MS and/or MSD Recovery is outside acceptance limits. |

GC/MS Semi VOA

| Qualifier | Qualifier Description |
|-----------|--|
| F2 | MS/MSD RPD exceeds control limits |
| F1 | MS and/or MSD Recovery is outside acceptance limits. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| E | Result exceeded calibration range. |
| X | Surrogate is outside control limits |

Metals

| Qualifier | Qualifier Description |
|-----------|--|
| F1 | MS and/or MSD Recovery is outside acceptance limits. |
| F2 | MS/MSD RPD exceeds control limits |
| B | Compound was found in the blank and sample. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| ^ | ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits. |
| F5 | Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL. |
| F3 | Duplicate RPD exceeds the control limit |
| 4 | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |

Glossary

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

Certification Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109413-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|-----------|---------|------------|------------------|-----------------|
| Illinois | NELAP | 5 | 100201 | 04-30-17 |

The following analytes are included in this report, but certification is not offered by the governing authority:

| Analysis Method | Prep Method | Matrix | Analyte |
|-----------------|-------------|--------|----------------------------|
| 8260B | | Solid | 1,3-Dichloropropene, Total |
| 8260B | 5030B | Solid | 1,3-Dichloropropene, Total |
| Moisture | | Solid | Percent Moisture |
| Moisture | | Solid | Percent Solids |

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To _____ (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

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

Chain of Custody Record

Lab Job #: 500-109413
 Chain of Custody Number: _____
 Page 1 of 3
 Temperature °C of Cooler: 4.7, 5.4

| Client | | Client Project # | | Preservative | | Parameter | | Matrix | | Comments | |
|---------------|--------|------------------------|----------|---------------|-----------------|--------------|------|--------|--------------|---|----|
| EDJ | | 0795-022 | | | | | | | | Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. 1 to 4° 4. 1 to 4° 5. Cool to 4° | |
| Project Name | | Project Location/State | | Lab Project # | | Sampler | | Lab PM | | 500-109413 COC | |
| IDOT - Harvey | | Harvey, IL | | | | Celia Powers | | | | | |
| Lab ID | MS/MSD | Sample ID | Sampling | | # of Containers | Matrix | VOCs | SVOCs | Total Metals | TCCLP/SPL Metals | PH |
| | | | Date | Time | | | | | | | |
| 1 | | BB-2(0-4)-032916 | 3/24/16 | 0810 | 2 | S | X | X | X | X | X |
| 2 | | BB-2(0-4)-032916D | | 0815 | | | | | | | |
| 3 | | BB-1(0-5)-032916 | | 0855 | | | | | | | |
| 4 | | BB-1(5-10)-032916 | | 0900 | | | | | | | |
| 5 | | VL12-2(0-5)-032916 | | 0915 | | | | | | | |
| 6 | | VL12-2(5-10)-032916 | | 0920 | | | | | | | |
| 7 | | VL12-1(0-5)-032916 | | 0940 | | | | | | | |
| 8 | | VL12-1(5-10)-032916 | | 0945 | | | | | | | |
| 9 | | VL16-1(0-4)-032916 | | 1005 | | | | | | | |
| 10 | | R17-2(0-5)-032916 | | 1025 | | | X | X | X | X | X |

Turnaround Time Required (Business Days)

1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other

Requested Due Date _____

Sample Disposal

Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

| | | |
|--|---|------------------------|
| Relinquished By: <u>[Signature]</u> Company: <u>EDJ</u> Date: <u>3/24/16</u> Time: <u>1530</u> | Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/29/16</u> Time: <u>1530</u> | Lab Courier: <u>TA</u> |
| Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/29/16</u> Time: <u>1003</u> | Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>03/29/16</u> Time: <u>10:03</u> | Shipped: _____ |
| Relinquished By: _____ Company: _____ Date: _____ Time: _____ | Received By: _____ Company: _____ Date: _____ Time: _____ | Hand Delivered: _____ |

- Matrix Key
- WW - Wastewater
 - W - Water
 - S - Soil
 - SL - Sludge
 - MS - Miscellaneous
 - OL - Oil
 - A - Air
 - SE - Sediment
 - SO - Soil
 - L - Leachate
 - WI - Wipe
 - DW - Drinking Water
 - O - Other

Client Comments:

Lab Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

| | |
|----------------------------|--------------------------|
| Report To _____ (optional) | Bill To _____ (optional) |
| Contact: _____ | Contact: _____ |
| Company: _____ | Company: _____ |
| Address: _____ | Address: _____ |
| Address: _____ | Address: _____ |
| Phone: _____ | Phone: _____ |
| Fax: _____ | Fax: _____ |
| E-Mail: _____ | PO#/Reference# _____ |

Chain of Custody Record

Lab Job #: 500-109413
 Chain of Custody Number: _____
 Page 2 of 3
 Temperature °C of Cooler: 4.7, 5.4

| Client | | Client Project # | | Preservative | | Parameter | | Comments | | | | | | | | | | | | |
|---------------|--------|------------------------|----------|---------------|-----------------|-----------|-------|---|--------------|-------------------|------------------|--|--|--|--|--|--|--|--|--|
| EDI | | 02P.022 | | | | | | Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other | | | | | | | | | | | | |
| Project Name | | Project Location/State | | Lab Project # | | Lab PM | | | | | | | | | | | | | | |
| IDOT - Hervey | | Hervey, IL | | | | | | | | | | | | | | | | | | |
| Sampler | | Lab Project # | | Lab PM | | | | | | | | | | | | | | | | |
| Gloria Davis | | | | | | | | | | | | | | | | | | | | |
| Lab ID | MS/MSD | Sample ID | Sampling | | # of Containers | Matrix | Voc's | Coc's | Total Metals | Trace/Semi Metals | H ₂ O | | | | | | | | | |
| | | | Date | Time | | | | | | | | | | | | | | | | |
| 11 | | R17-2(5-10)-032916 | 3/29/16 | 1030 | 2 | S | X | X | X | X | X | | | | | | | | | |
| 12 | | R17-2(10-15)-032916 | | 1035 | | | | | | | | | | | | | | | | |
| 13 | | R17-2(10-15)-032916 D | | 1040 | | | | | | | | | | | | | | | | |
| 14 | | R17-1(0-4)-032916 | | 1100 | | | | | | | | | | | | | | | | |
| 15 | | R17-1(4-8)-032916 | | 1105 | | | | | | | | | | | | | | | | |
| 16 | | PM-1(0-4)-032916 | | 1215 | | | | | | | | | | | | | | | | |
| 17 | | PM-1(4-7.7)-032916 | | 1220 | | | | | | | | | | | | | | | | |
| 18 | | PM-2(0-4)-032916 | | 1235 | | | | | | | | | | | | | | | | |
| 19 | | PM-3(0-4)-032916 | | 1245 | | | | | | | | | | | | | | | | |
| 20 | | PM-3(0-4)-032916 D | X | 1250 | | | X | X | X | X | X | | | | | | | | | |

Turnaround Time Required (Business Days)
 1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other

Requested Due Date _____

Sample Disposal
 Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

| | | |
|--|---|------------------------|
| Relinquished By: <u>[Signature]</u> Company: <u>EDI</u> Date: <u>3/29/16</u> Time: <u>1530</u> | Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/29/16</u> Time: <u>1530</u> | Lab Courier: <u>TA</u> |
| Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/29/16</u> Time: <u>1603</u> | Received By: <u>[Signature]</u> Company: <u>TA-UMT</u> Date: <u>03/29/16</u> Time: <u>16:03</u> | Shipped: _____ |
| Relinquished By: _____ Company: _____ Date: _____ Time: _____ | Received By: _____ Company: _____ Date: _____ Time: _____ | Hand Delivered: _____ |

| | | |
|--|-----------------|---------------|
| <p>Matrix Key</p> <p>WW - Wastewater SE - Sediment W - Water SO - Soil S - Soil L - Leachate SL - Sludge WI - Wipe MS - Miscellaneous DW - Drinking Water OL - Oil O - Other A - Air</p> | Client Comments | Lab Comments: |
|--|-----------------|---------------|



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

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

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

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

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

I. Source Location Information

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

Project Name: FAU 3597: IL Route 1 (Halsted St) at Vincennes Rd Office Phone Number, if available: _____

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

15221 S. Halsted Street, (ISGS Site No. 2553V-24)

City: Phoenix State: IL Zip Code: _____

County: Cook Township: _____

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

Latitude: 41.61247222 Longitude: -87.63636389

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

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

Project Name: FAU 3597: IL Route 1 (Halsted St) at Vincennes

Latitude: 41.61247222 Longitude: -87.63636389

Uncontaminated Site Certification

III. Basis for Certification and Attachments

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

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

LOCATIONS CG-1 AND CG-2 WERE SAMPLED ADJACENT TO ISGS SITE No. 2553V-24. SEE FIGURE 3-1 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

- 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]:

TEST AMERICA REPORTS - JOB ID: 500-109464-1.
ALSO SEE FIGURE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

I, William F. Karlovitz, P.E. (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: Weston Solutions, Inc.
 Street Address: 300 Circle Plaza; Suite 202
 City: Mundelein State: IL Zip Code: 60060
 Phone: (224) 864-7200

William F. Karlovitz, P.E.
 Printed Name:

William F. Karlovitz
 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

17 May 2016
 Date:



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

Summary Table of ISGS Site No. 2553V-24
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAU 3597: Illinois Route 1 (Halsted Street) at Vincennes Road
Harvey, Cook County, Illinois

| Field Sample ID | CG-1(0-4)-033016 | CG-2(0-4)-033016 | CG-2(0-4)-033016D | Soil Reference Concentrations ^A |
|-----------------------------|------------------|------------------|-------------------|--|
| Sample Date | 3/30/2016 | 3/30/2016 | 3/30/2016 | |
| Location ID | CG-1 | CG-2 | CG-2 | |
| Depth | 0 - 4 | 0 - 4 | 0 - 4 | |
| Lab Sample ID | 500-109464-14 | 500-109464-15 | 500-109464-16 | |
| ISGS Site No. | 2553V-24 | 2553V-24 | 2553V-24 | |
| Parameter | | | | |
| Laboratory pH | 8.15 | 7.67 | 7.83 | <6.25,>9.0 |
| VOCs (ug/kg) | None Detected | | | |
| SVOCs (ug/kg) | | | | |
| Benzo(a)anthracene | ND | ND | 9.3 J | 900 / 1100 / 1800 |
| Benzo(a)pyrene | ND | ND | 8.5 J | 90 / 1300 / 2100 |
| Benzo(b)fluoranthene | ND | ND | 17 J | 900 / 1500 / 2100 |
| Chrysene | ND | ND | 14 J | 88000 |
| Fluoranthene | ND | ND | 20 J | 3100000 |
| Phenanthrene | ND | ND | 12 J | --- |
| Pyrene | ND | ND | 16 J | 2300000 |
| Total Metals (mg/kg) | | | | |
| Arsenic, Total | 4.2 J | 4.2 J | 4.5 J | 11.3 / 13.0 |
| Barium, Total | 61 J | 50 J | 66 J | 1500 |
| Beryllium, Total | 0.85 J- | 0.63 J- | 0.96 J- | 22 |
| Calcium, Total | 3700 J | 4800 J | 5000 J | --- |
| Chromium, Total | 19 B | 15 B | 19 B | 21 |
| Cobalt, Total | 13 J | 9.9 J | 13 J | 20 |
| Copper, Total | 23 J | 16 J | 22 J | 2900 |
| Iron, Total | 17000 J | 15000 J | 19000 J | 15000 / 15900 |
| Lead, Total | 19 J | 24 J | 23 J | 107 |
| Magnesium, Total | 4700 J | 4400 J | 5100 J | 325000 |
| Manganese, Total | 130 J | 140 J | 150 J | 630 / 636 |
| Mercury, Total | 0.031 | 0.029 | 0.044 | 0.89 |
| Nickel, Total | 36 J | 24 J | 36 J | 100 |
| Potassium, Total | 1600 J+ | 1300 J+ | 1700 J+ | --- |
| Selenium, Total | 0.32 J | 0.35 J | ND | 1.3 |
| Sodium, Total | 730 J- | 850 J- | 1200 J- | --- |
| Vanadium, Total | 25 J | 19 J | 24 J | 550 |
| Zinc, Total | 69 J- | 63 J- | 86 J- | 5100 |
| TCLP Metals (mg/l) | | | | |
| Arsenic, TCLP | ND | ND | ND | 0.05 |
| Barium, TCLP | 0.19 J | 0.31 J | 0.28 J | 2 |
| Beryllium, TCLP | ND | ND | ND | 0.004 |
| Chromium, TCLP | ND | ND | ND | 0.1 |
| Cobalt, TCLP | ND | ND | ND | 1 |
| Copper, TCLP | ND | ND | ND | 0.65 |
| Iron, TCLP | ND | ND | ND | 5 |
| Lead, TCLP | ND | ND | ND | 0.0075 |
| Manganese, TCLP | 0.11 | 0.76 | 0.46 | 0.15 |
| Mercury, TCLP | ND | ND | ND | 0.002 |
| Nickel, TCLP | ND | ND | ND | 0.1 |
| Selenium, TCLP | ND | ND | ND | 0.05 |
| Zinc, TCLP | ND | 0.077 J | 0.028 J | 5 |
| SPLP Metals (mg/l) | | | | |
| Arsenic, SPLP | 0.071 | 0.038 J | 0.029 J | 0.05 |
| Barium, SPLP | 0.55 J+ | 0.48 J | 0.42 J | 2 |
| Beryllium, SPLP | 0.0076 | 0.0062 | 0.0057 | 0.004 |
| Chromium, SPLP | 0.18 J+ | 0.15 J+ | 0.14 J+ | 0.1 |
| Cobalt, SPLP | 0.063 | 0.051 | 0.05 | 1 |
| Copper, SPLP | 0.15 | 0.11 | 0.1 | 0.65 |
| Iron, SPLP | 170 J+ | 120 J+ | 110 J+ | 5 |
| Lead, SPLP | 0.1 J+ | 0.075 J+ | 0.065 J+ | 0.0075 |
| Manganese, SPLP | 0.57 J+ | 0.48 J+ | 0.47 J+ | 0.15 |
| Mercury, SPLP | ND | ND | ND | 0.002 |
| Nickel, SPLP | 0.2 | 0.15 | 0.15 | 0.1 |
| Selenium, SPLP | ND | ND | ND | 0.05 |
| Zinc, SPLP | 0.37 J | 0.36 J | 0.32 J | 5 |

Summary Table of ISGS Site No. 2553V-24
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAU 3597: Illinois Route 1 (Halsted Street) at Vincennes Road
Harvey, Cook County, Illinois

Notes:

--- - not applicable or value not available.

^A - Soil reference concentrations from MAC Table. Background values for MSA Counties and Chicago corporate limits are included, as applicable.

B - Constituent detected in the blank and investigative sample.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J+ - Estimated concentration; biased high.

J- - Estimated concentration; biased low.

 Shaded values indicate concentration **exceeds** Reference Concentration.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-109464-1

Client Project/Site: IDOT - Harvey IL Route 113 - WO 041

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

Attn: Ms. Patricia Feeley

Jodie Bracken

Authorized for release by:
4/8/2016 3:17:01 PM

Jodie Bracken, Project Management Assistant II
jodie.bracken@testamericainc.com

Designee for

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.

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

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109464-1

Client Sample ID: CG-1(0-4)-033016

Lab Sample ID: 500-109464-14

Date Collected: 03/30/16 12:25

Matrix: Solid

Date Received: 03/30/16 14:45

Percent Solids: 81.1

Method: 8260B - VOC

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Acetone | <25 | | 25 | 4.8 | ug/Kg | ☼ | | 04/05/16 13:23 | 1 |
| Benzene | <6.2 | | 6.2 | 1.4 | ug/Kg | ☼ | | 04/05/16 13:23 | 1 |
| Bromodichloromethane | <6.2 | | 6.2 | 1.0 | ug/Kg | ☼ | | 04/05/16 13:23 | 1 |
| Bromoform | <6.2 | | 6.2 | 1.3 | ug/Kg | ☼ | | 04/05/16 13:23 | 1 |
| Bromomethane | <6.2 * | | 6.2 | 2.3 | ug/Kg | ☼ | | 04/05/16 13:23 | 1 |
| Carbon disulfide | <6.2 | | 6.2 | 2.3 | ug/Kg | ☼ | | 04/05/16 13:23 | 1 |
| Carbon tetrachloride | <6.2 | | 6.2 | 1.3 | ug/Kg | ☼ | | 04/05/16 13:23 | 1 |
| Chlorobenzene | <6.2 | | 6.2 | 1.5 | ug/Kg | ☼ | | 04/05/16 13:23 | 1 |
| Chloroethane | <6.2 | | 6.2 | 2.6 | ug/Kg | ☼ | | 04/05/16 13:23 | 1 |
| Chloroform | <6.2 | | 6.2 | 1.2 | ug/Kg | ☼ | | 04/05/16 13:23 | 1 |
| Chloromethane | <6.2 | | 6.2 | 1.5 | ug/Kg | ☼ | | 04/05/16 13:23 | 1 |
| cis-1,2-Dichloroethene | <6.2 | | 6.2 | 1.3 | ug/Kg | ☼ | | 04/05/16 13:23 | 1 |
| cis-1,3-Dichloropropene | <6.2 | | 6.2 | 1.4 | ug/Kg | ☼ | | 04/05/16 13:23 | 1 |
| Dibromochloromethane | <6.2 | | 6.2 | 0.71 | ug/Kg | ☼ | | 04/05/16 13:23 | 1 |
| 1,1-Dichloroethane | <6.2 | | 6.2 | 1.3 | ug/Kg | ☼ | | 04/05/16 13:23 | 1 |
| 1,2-Dichloroethane | <6.2 | | 6.2 | 0.91 | ug/Kg | ☼ | | 04/05/16 13:23 | 1 |
| 1,1-Dichloroethene | <6.2 | | 6.2 | 2.2 | ug/Kg | ☼ | | 04/05/16 13:23 | 1 |
| 1,2-Dichloropropane | <6.2 | | 6.2 | 1.6 | ug/Kg | ☼ | | 04/05/16 13:23 | 1 |
| 1,3-Dichloropropene, Total | <6.2 | | 6.2 | 1.7 | ug/Kg | ☼ | | 04/05/16 13:23 | 1 |
| Ethylbenzene | <6.2 | | 6.2 | 1.5 | ug/Kg | ☼ | | 04/05/16 13:23 | 1 |
| 2-Hexanone | <6.2 | | 6.2 | 1.9 | ug/Kg | ☼ | | 04/05/16 13:23 | 1 |
| Methylene Chloride | <6.2 | | 6.2 | 4.7 | ug/Kg | ☼ | | 04/05/16 13:23 | 1 |
| Methyl Ethyl Ketone | <6.2 | | 6.2 | 2.2 | ug/Kg | ☼ | | 04/05/16 13:23 | 1 |
| methyl isobutyl ketone | <6.2 | | 6.2 | 1.3 | ug/Kg | ☼ | | 04/05/16 13:23 | 1 |
| Methyl tert-butyl ether | <6.2 | | 6.2 | 1.5 | ug/Kg | ☼ | | 04/05/16 13:23 | 1 |
| Styrene | <6.2 | | 6.2 | 1.4 | ug/Kg | ☼ | | 04/05/16 13:23 | 1 |
| 1,1,2,2-Tetrachloroethane | <6.2 | | 6.2 | 0.98 | ug/Kg | ☼ | | 04/05/16 13:23 | 1 |
| Tetrachloroethene | <6.2 | | 6.2 | 1.3 | ug/Kg | ☼ | | 04/05/16 13:23 | 1 |
| Toluene | <6.2 | | 6.2 | 2.1 | ug/Kg | ☼ | | 04/05/16 13:23 | 1 |
| trans-1,2-Dichloroethene | <6.2 | | 6.2 | 1.5 | ug/Kg | ☼ | | 04/05/16 13:23 | 1 |
| trans-1,3-Dichloropropene | <6.2 | | 6.2 | 1.7 | ug/Kg | ☼ | | 04/05/16 13:23 | 1 |
| 1,1,1-Trichloroethane | <6.2 | | 6.2 | 1.4 | ug/Kg | ☼ | | 04/05/16 13:23 | 1 |
| 1,1,2-Trichloroethane | <6.2 | | 6.2 | 1.2 | ug/Kg | ☼ | | 04/05/16 13:23 | 1 |
| Trichloroethene | <6.2 | | 6.2 | 1.7 | ug/Kg | ☼ | | 04/05/16 13:23 | 1 |
| Vinyl chloride | <6.2 * | | 6.2 | 1.5 | ug/Kg | ☼ | | 04/05/16 13:23 | 1 |
| Xylenes, Total | <12 | | 12 | 2.3 | ug/Kg | ☼ | | 04/05/16 13:23 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 107 | | 70 - 120 | | 04/05/16 13:23 | 1 |
| Dibromofluoromethane | 112 | | 75 - 120 | | 04/05/16 13:23 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 110 | | 69 - 134 | | 04/05/16 13:23 | 1 |
| Toluene-d8 (Surr) | 114 | | 75 - 123 | | 04/05/16 13:23 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,2,4-Trichlorobenzene | <200 | | 200 | 43 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:31 | 1 |
| 1,2-Dichlorobenzene | <200 | | 200 | 48 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:31 | 1 |
| 1,3-Dichlorobenzene | <200 | | 200 | 45 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:31 | 1 |
| 1,4-Dichlorobenzene | <200 | | 200 | 51 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:31 | 1 |
| 2,2'-oxybis[1-chloropropane] | <200 | | 200 | 46 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:31 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109464-1

Client Sample ID: CG-1(0-4)-033016

Lab Sample ID: 500-109464-14

Date Collected: 03/30/16 12:25

Matrix: Solid

Date Received: 03/30/16 14:45

Percent Solids: 81.1

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol | <400 | | 400 | 91 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:31 | 1 |
| 2,4,6-Trichlorophenol | <400 | | 400 | 140 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:31 | 1 |
| 2,4-Dichlorophenol | <400 | | 400 | 95 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:31 | 1 |
| 2,4-Dimethylphenol | <400 | | 400 | 150 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:31 | 1 |
| 2,4-Dinitrophenol | <800 | | 800 | 700 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:31 | 1 |
| 2,4-Dinitrotoluene | <200 | | 200 | 63 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:31 | 1 |
| 2,6-Dinitrotoluene | <200 | | 200 | 78 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:31 | 1 |
| 2-Chloronaphthalene | <200 | | 200 | 44 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:31 | 1 |
| 2-Chlorophenol | <200 | | 200 | 68 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:31 | 1 |
| 2-Methylnaphthalene | <40 | | 40 | 7.3 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:31 | 1 |
| 2-Methylphenol | <200 | | 200 | 64 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:31 | 1 |
| 2-Nitroaniline | <200 | | 200 | 54 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:31 | 1 |
| 2-Nitrophenol | <400 | | 400 | 94 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:31 | 1 |
| 3 & 4 Methylphenol | <200 | | 200 | 67 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:31 | 1 |
| 3,3'-Dichlorobenzidine | <200 | | 200 | 56 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:31 | 1 |
| 3-Nitroaniline | <400 | | 400 | 120 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:31 | 1 |
| 4,6-Dinitro-2-methylphenol | <800 | | 800 | 320 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:31 | 1 |
| 4-Bromophenyl phenyl ether | <200 | | 200 | 53 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:31 | 1 |
| 4-Chloro-3-methylphenol | <400 | | 400 | 140 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:31 | 1 |
| 4-Chloroaniline | <800 | | 800 | 190 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:31 | 1 |
| 4-Chlorophenyl phenyl ether | <200 | | 200 | 47 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:31 | 1 |
| 4-Nitroaniline | <400 | | 400 | 170 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:31 | 1 |
| 4-Nitrophenol | <800 | | 800 | 380 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:31 | 1 |
| Acenaphthene | <40 | | 40 | 7.2 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:31 | 1 |
| Acenaphthylene | <40 | | 40 | 5.3 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:31 | 1 |
| Anthracene | <40 | | 40 | 6.7 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:31 | 1 |
| Benzo[a]anthracene | <40 | | 40 | 5.4 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:31 | 1 |
| Benzo[a]pyrene | <40 | | 40 | 7.7 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:31 | 1 |
| Benzo[b]fluoranthene | <40 | | 40 | 8.6 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:31 | 1 |
| Benzo[g,h,i]perylene | <40 | | 40 | 13 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:31 | 1 |
| Benzo[k]fluoranthene | <40 | | 40 | 12 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:31 | 1 |
| Bis(2-chloroethoxy)methane | <200 | | 200 | 41 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:31 | 1 |
| Bis(2-chloroethyl)ether | <200 | | 200 | 60 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:31 | 1 |
| Bis(2-ethylhexyl) phthalate | <200 | | 200 | 73 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:31 | 1 |
| Butyl benzyl phthalate | <200 | | 200 | 76 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:31 | 1 |
| Carbazole | <200 | | 200 | 100 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:31 | 1 |
| Chrysene | <40 | | 40 | 11 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:31 | 1 |
| Dibenz(a,h)anthracene | <40 | | 40 | 7.7 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:31 | 1 |
| Dibenzofuran | <200 | | 200 | 47 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:31 | 1 |
| Diethyl phthalate | <200 | | 200 | 68 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:31 | 1 |
| Dimethyl phthalate | <200 | | 200 | 52 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:31 | 1 |
| Di-n-butyl phthalate | <200 | | 200 | 61 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:31 | 1 |
| Di-n-octyl phthalate | <200 | | 200 | 65 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:31 | 1 |
| Fluoranthene | <40 | | 40 | 7.4 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:31 | 1 |
| Fluorene | <40 | | 40 | 5.6 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:31 | 1 |
| Hexachlorobenzene | <80 | | 80 | 9.2 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:31 | 1 |
| Hexachlorobutadiene | <200 | | 200 | 63 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:31 | 1 |
| Hexachlorocyclopentadiene | <800 | | 800 | 230 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:31 | 1 |
| Hexachloroethane | <200 | | 200 | 61 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:31 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109464-1

Client Sample ID: CG-1(0-4)-033016

Lab Sample ID: 500-109464-14

Date Collected: 03/30/16 12:25

Matrix: Solid

Date Received: 03/30/16 14:45

Percent Solids: 81.1

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Indeno[1,2,3-cd]pyrene | <40 | | 40 | 10 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:31 | 1 |
| Isophorone | <200 | | 200 | 45 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:31 | 1 |
| Naphthalene | <40 | | 40 | 6.1 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:31 | 1 |
| Nitrobenzene | <40 | | 40 | 10 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:31 | 1 |
| N-Nitrosodi-n-propylamine | <80 | | 80 | 49 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:31 | 1 |
| N-Nitrosodiphenylamine | <200 | | 200 | 47 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:31 | 1 |
| Pentachlorophenol | <800 | | 800 | 640 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:31 | 1 |
| Phenanthrene | <40 | | 40 | 5.6 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:31 | 1 |
| Phenol | <200 | | 200 | 89 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:31 | 1 |
| Pyrene | <40 | | 40 | 7.9 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:31 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2,4,6-Tribromophenol | 120 | | 25 - 130 | | | | 03/30/16 16:59 | 04/06/16 01:31 | 1 |
| 2-Fluorobiphenyl | 103 | | 42 - 115 | | | | 03/30/16 16:59 | 04/06/16 01:31 | 1 |
| 2-Fluorophenol | 67 | | 40 - 130 | | | | 03/30/16 16:59 | 04/06/16 01:31 | 1 |
| Nitrobenzene-d5 | 81 | | 33 - 124 | | | | 03/30/16 16:59 | 04/06/16 01:31 | 1 |
| Phenol-d5 | 79 | | 36 - 123 | | | | 03/30/16 16:59 | 04/06/16 01:31 | 1 |
| Terphenyl-d14 | 98 | | 25 - 150 | | | | 03/30/16 16:59 | 04/06/16 01:31 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|-------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.050 | | 0.050 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 17:04 | 1 |
| Barium | 0.19 | J | 0.50 | 0.050 | mg/L | | 04/02/16 13:50 | 04/04/16 17:04 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 04/02/16 13:50 | 04/04/16 17:04 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/02/16 13:50 | 04/04/16 17:04 | 1 |
| Chromium | <0.025 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 17:04 | 1 |
| Cobalt | <0.025 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 17:04 | 1 |
| Copper | <0.025 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 17:04 | 1 |
| Iron | <0.40 | | 0.40 | 0.20 | mg/L | | 04/02/16 13:50 | 04/04/16 17:04 | 1 |
| Lead | <0.0075 | | 0.0075 | 0.0075 | mg/L | | 04/02/16 13:50 | 04/04/16 17:04 | 1 |
| Manganese | 0.11 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 17:04 | 1 |
| Nickel | <0.025 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 17:04 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/02/16 13:50 | 04/04/16 17:04 | 1 |
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 17:04 | 1 |
| Zinc | <0.50 | | 0.50 | 0.020 | mg/L | | 04/02/16 13:50 | 04/04/16 17:04 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|---------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.071 | | 0.050 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 19:19 | 1 |
| Barium | 0.55 | | 0.50 | 0.050 | mg/L | | 04/04/16 08:37 | 04/04/16 19:19 | 1 |
| Beryllium | 0.0076 | | 0.0040 | 0.0040 | mg/L | | 04/04/16 08:37 | 04/04/16 19:19 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/04/16 08:37 | 04/04/16 19:19 | 1 |
| Chromium | 0.18 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 19:19 | 1 |
| Cobalt | 0.063 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 19:19 | 1 |
| Copper | 0.15 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 19:19 | 1 |
| Iron | 170 | | 0.40 | 0.20 | mg/L | | 04/04/16 08:37 | 04/04/16 19:19 | 1 |
| Lead | 0.10 | | 0.0075 | 0.0075 | mg/L | | 04/04/16 08:37 | 04/04/16 19:19 | 1 |
| Manganese | 0.57 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 19:19 | 1 |
| Nickel | 0.20 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 19:19 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/04/16 08:37 | 04/04/16 19:19 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109464-1

Client Sample ID: CG-1(0-4)-033016

Lab Sample ID: 500-109464-14

Date Collected: 03/30/16 12:25

Matrix: Solid

Date Received: 03/30/16 14:45

Percent Solids: 81.1

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|-------------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 19:19 | 1 |
| Zinc | 0.37 | J | 0.50 | 0.020 | mg/L | | 04/04/16 08:37 | 04/04/16 19:19 | 1 |

Method: 6010B - Total Metals

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | <1.2 | | 1.2 | 0.24 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:17 | 1 |
| Arsenic | 4.2 | | 0.59 | 0.27 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:17 | 1 |
| Barium | 61 | | 0.59 | 0.11 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:17 | 1 |
| Beryllium | 0.85 | | 0.23 | 0.051 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:17 | 1 |
| Cadmium | <0.12 | | 0.12 | 0.034 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:17 | 1 |
| Calcium | 3700 | | 12 | 3.8 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:17 | 1 |
| Chromium | 19 | B | 0.59 | 0.10 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:17 | 1 |
| Cobalt | 13 | | 0.29 | 0.066 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:17 | 1 |
| Copper | 23 | | 0.59 | 0.13 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:17 | 1 |
| Iron | 17000 | B | 12 | 4.5 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:17 | 1 |
| Lead | 19 | | 0.29 | 0.15 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:17 | 1 |
| Magnesium | 4700 | B | 5.9 | 2.4 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:17 | 1 |
| Manganese | 130 | | 0.59 | 0.12 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:17 | 1 |
| Nickel | 36 | | 0.59 | 0.16 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:17 | 1 |
| Potassium | 1600 | B | 29 | 4.8 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:17 | 1 |
| Selenium | 0.32 | J | 0.59 | 0.29 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:17 | 1 |
| Silver | <0.29 | | 0.29 | 0.069 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:17 | 1 |
| Sodium | 730 | B | 59 | 7.7 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:17 | 1 |
| Thallium | <0.59 | | 0.59 | 0.29 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:17 | 1 |
| Vanadium | 25 | | 0.29 | 0.086 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:17 | 1 |
| Zinc | 69 | B | 1.2 | 0.37 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:17 | 1 |

Method: 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/04/16 16:10 | 04/05/16 12:43 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/04/16 16:10 | 04/05/16 11:49 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Mercury | 31 | | 20 | 10 | ug/Kg | ☼ | 04/01/16 13:30 | 04/04/16 11:39 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-------------|-----------|-------|-------|------|---|----------|----------------|---------|
| pH | 8.15 | | 0.200 | 0.200 | SU | | | 04/05/16 16:07 | 1 |

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109464-1

Client Sample ID: CG-2(0-4)-033016

Lab Sample ID: 500-109464-15

Date Collected: 03/30/16 12:45

Matrix: Solid

Date Received: 03/30/16 14:45

Percent Solids: 82.6

Method: 8260B - VOC

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Acetone | <24 | | 24 | 4.7 | ug/Kg | ☼ | | 04/05/16 13:46 | 1 |
| Benzene | <6.1 | | 6.1 | 1.3 | ug/Kg | ☼ | | 04/05/16 13:46 | 1 |
| Bromodichloromethane | <6.1 | | 6.1 | 1.0 | ug/Kg | ☼ | | 04/05/16 13:46 | 1 |
| Bromoform | <6.1 | | 6.1 | 1.2 | ug/Kg | ☼ | | 04/05/16 13:46 | 1 |
| Bromomethane | <6.1 | * | 6.1 | 2.2 | ug/Kg | ☼ | | 04/05/16 13:46 | 1 |
| Carbon disulfide | <6.1 | | 6.1 | 2.2 | ug/Kg | ☼ | | 04/05/16 13:46 | 1 |
| Carbon tetrachloride | <6.1 | | 6.1 | 1.3 | ug/Kg | ☼ | | 04/05/16 13:46 | 1 |
| Chlorobenzene | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 04/05/16 13:46 | 1 |
| Chloroethane | <6.1 | | 6.1 | 2.5 | ug/Kg | ☼ | | 04/05/16 13:46 | 1 |
| Chloroform | <6.1 | | 6.1 | 1.2 | ug/Kg | ☼ | | 04/05/16 13:46 | 1 |
| Chloromethane | <6.1 | | 6.1 | 1.5 | ug/Kg | ☼ | | 04/05/16 13:46 | 1 |
| cis-1,2-Dichloroethene | <6.1 | | 6.1 | 1.2 | ug/Kg | ☼ | | 04/05/16 13:46 | 1 |
| cis-1,3-Dichloropropene | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 04/05/16 13:46 | 1 |
| Dibromochloromethane | <6.1 | | 6.1 | 0.70 | ug/Kg | ☼ | | 04/05/16 13:46 | 1 |
| 1,1-Dichloroethane | <6.1 | | 6.1 | 1.2 | ug/Kg | ☼ | | 04/05/16 13:46 | 1 |
| 1,2-Dichloroethane | <6.1 | | 6.1 | 0.90 | ug/Kg | ☼ | | 04/05/16 13:46 | 1 |
| 1,1-Dichloroethene | <6.1 | | 6.1 | 2.2 | ug/Kg | ☼ | | 04/05/16 13:46 | 1 |
| 1,2-Dichloropropane | <6.1 | | 6.1 | 1.6 | ug/Kg | ☼ | | 04/05/16 13:46 | 1 |
| 1,3-Dichloropropene, Total | <6.1 | | 6.1 | 1.7 | ug/Kg | ☼ | | 04/05/16 13:46 | 1 |
| Ethylbenzene | <6.1 | | 6.1 | 1.5 | ug/Kg | ☼ | | 04/05/16 13:46 | 1 |
| 2-Hexanone | <6.1 | | 6.1 | 1.9 | ug/Kg | ☼ | | 04/05/16 13:46 | 1 |
| Methylene Chloride | <6.1 | | 6.1 | 4.6 | ug/Kg | ☼ | | 04/05/16 13:46 | 1 |
| Methyl Ethyl Ketone | <6.1 | | 6.1 | 2.2 | ug/Kg | ☼ | | 04/05/16 13:46 | 1 |
| methyl isobutyl ketone | <6.1 | | 6.1 | 1.2 | ug/Kg | ☼ | | 04/05/16 13:46 | 1 |
| Methyl tert-butyl ether | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 04/05/16 13:46 | 1 |
| Styrene | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 04/05/16 13:46 | 1 |
| 1,1,2,2-Tetrachloroethane | <6.1 | | 6.1 | 0.96 | ug/Kg | ☼ | | 04/05/16 13:46 | 1 |
| Tetrachloroethene | <6.1 | | 6.1 | 1.3 | ug/Kg | ☼ | | 04/05/16 13:46 | 1 |
| Toluene | <6.1 | | 6.1 | 2.1 | ug/Kg | ☼ | | 04/05/16 13:46 | 1 |
| trans-1,2-Dichloroethene | <6.1 | | 6.1 | 1.5 | ug/Kg | ☼ | | 04/05/16 13:46 | 1 |
| trans-1,3-Dichloropropene | <6.1 | | 6.1 | 1.7 | ug/Kg | ☼ | | 04/05/16 13:46 | 1 |
| 1,1,1-Trichloroethane | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 04/05/16 13:46 | 1 |
| 1,1,2-Trichloroethane | <6.1 | | 6.1 | 1.2 | ug/Kg | ☼ | | 04/05/16 13:46 | 1 |
| Trichloroethene | <6.1 | | 6.1 | 1.6 | ug/Kg | ☼ | | 04/05/16 13:46 | 1 |
| Vinyl chloride | <6.1 | * | 6.1 | 1.4 | ug/Kg | ☼ | | 04/05/16 13:46 | 1 |
| Xylenes, Total | <12 | | 12 | 2.2 | ug/Kg | ☼ | | 04/05/16 13:46 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 105 | | 70 - 120 | | 04/05/16 13:46 | 1 |
| Dibromofluoromethane | 112 | | 75 - 120 | | 04/05/16 13:46 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 113 | | 69 - 134 | | 04/05/16 13:46 | 1 |
| Toluene-d8 (Surr) | 115 | | 75 - 123 | | 04/05/16 13:46 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,2,4-Trichlorobenzene | <190 | | 190 | 41 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:59 | 1 |
| 1,2-Dichlorobenzene | <190 | | 190 | 46 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:59 | 1 |
| 1,3-Dichlorobenzene | <190 | | 190 | 43 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:59 | 1 |
| 1,4-Dichlorobenzene | <190 | | 190 | 49 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:59 | 1 |
| 2,2'-oxybis[1-chloropropane] | <190 | | 190 | 45 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:59 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109464-1

Client Sample ID: CG-2(0-4)-033016

Lab Sample ID: 500-109464-15

Date Collected: 03/30/16 12:45

Matrix: Solid

Date Received: 03/30/16 14:45

Percent Solids: 82.6

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol | <380 | | 380 | 88 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:59 | 1 |
| 2,4,6-Trichlorophenol | <380 | | 380 | 130 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:59 | 1 |
| 2,4-Dichlorophenol | <380 | | 380 | 91 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:59 | 1 |
| 2,4-Dimethylphenol | <380 | | 380 | 150 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:59 | 1 |
| 2,4-Dinitrophenol | <780 | | 780 | 680 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:59 | 1 |
| 2,4-Dinitrotoluene | <190 | | 190 | 61 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:59 | 1 |
| 2,6-Dinitrotoluene | <190 | | 190 | 76 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:59 | 1 |
| 2-Chloronaphthalene | <190 | | 190 | 43 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:59 | 1 |
| 2-Chlorophenol | <190 | | 190 | 66 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:59 | 1 |
| 2-Methylnaphthalene | <38 | | 38 | 7.1 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:59 | 1 |
| 2-Methylphenol | <190 | | 190 | 62 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:59 | 1 |
| 2-Nitroaniline | <190 | | 190 | 52 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:59 | 1 |
| 2-Nitrophenol | <380 | | 380 | 91 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:59 | 1 |
| 3 & 4 Methylphenol | <190 | | 190 | 64 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:59 | 1 |
| 3,3'-Dichlorobenzidine | <190 | | 190 | 54 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:59 | 1 |
| 3-Nitroaniline | <380 | | 380 | 120 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:59 | 1 |
| 4,6-Dinitro-2-methylphenol | <780 | | 780 | 310 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:59 | 1 |
| 4-Bromophenyl phenyl ether | <190 | | 190 | 51 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:59 | 1 |
| 4-Chloro-3-methylphenol | <380 | | 380 | 130 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:59 | 1 |
| 4-Chloroaniline | <780 | | 780 | 180 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:59 | 1 |
| 4-Chlorophenyl phenyl ether | <190 | | 190 | 45 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:59 | 1 |
| 4-Nitroaniline | <380 | | 380 | 160 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:59 | 1 |
| 4-Nitrophenol | <780 | | 780 | 370 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:59 | 1 |
| Acenaphthene | <38 | | 38 | 6.9 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:59 | 1 |
| Acenaphthylene | <38 | | 38 | 5.1 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:59 | 1 |
| Anthracene | <38 | | 38 | 6.4 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:59 | 1 |
| Benzo[a]anthracene | <38 | | 38 | 5.2 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:59 | 1 |
| Benzo[a]pyrene | <38 | | 38 | 7.5 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:59 | 1 |
| Benzo[b]fluoranthene | <38 | | 38 | 8.3 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:59 | 1 |
| Benzo[g,h,i]perylene | <38 | | 38 | 12 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:59 | 1 |
| Benzo[k]fluoranthene | <38 | | 38 | 11 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:59 | 1 |
| Bis(2-chloroethoxy)methane | <190 | | 190 | 39 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:59 | 1 |
| Bis(2-chloroethyl)ether | <190 | | 190 | 58 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:59 | 1 |
| Bis(2-ethylhexyl) phthalate | <190 | | 190 | 70 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:59 | 1 |
| Butyl benzyl phthalate | <190 | | 190 | 73 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:59 | 1 |
| Carbazole | <190 | | 190 | 96 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:59 | 1 |
| Chrysene | <38 | | 38 | 10 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:59 | 1 |
| Dibenz(a,h)anthracene | <38 | | 38 | 7.4 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:59 | 1 |
| Dibenzofuran | <190 | | 190 | 45 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:59 | 1 |
| Diethyl phthalate | <190 | | 190 | 65 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:59 | 1 |
| Dimethyl phthalate | <190 | | 190 | 50 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:59 | 1 |
| Di-n-butyl phthalate | <190 | | 190 | 59 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:59 | 1 |
| Di-n-octyl phthalate | <190 | | 190 | 63 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:59 | 1 |
| Fluoranthene | <38 | | 38 | 7.1 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:59 | 1 |
| Fluorene | <38 | | 38 | 5.4 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:59 | 1 |
| Hexachlorobenzene | <78 | | 78 | 8.9 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:59 | 1 |
| Hexachlorobutadiene | <190 | | 190 | 60 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:59 | 1 |
| Hexachlorocyclopentadiene | <780 | | 780 | 220 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:59 | 1 |
| Hexachloroethane | <190 | | 190 | 59 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:59 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109464-1

Client Sample ID: CG-2(0-4)-033016

Lab Sample ID: 500-109464-15

Date Collected: 03/30/16 12:45

Matrix: Solid

Date Received: 03/30/16 14:45

Percent Solids: 82.6

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Indeno[1,2,3-cd]pyrene | <38 | | 38 | 10 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:59 | 1 |
| Isophorone | <190 | | 190 | 43 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:59 | 1 |
| Naphthalene | <38 | | 38 | 5.9 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:59 | 1 |
| Nitrobenzene | <38 | | 38 | 9.6 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:59 | 1 |
| N-Nitrosodi-n-propylamine | <78 | | 78 | 47 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:59 | 1 |
| N-Nitrosodiphenylamine | <190 | | 190 | 45 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:59 | 1 |
| Pentachlorophenol | <780 | | 780 | 620 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:59 | 1 |
| Phenanthrene | <38 | | 38 | 5.4 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:59 | 1 |
| Phenol | <190 | | 190 | 86 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:59 | 1 |
| Pyrene | <38 | | 38 | 7.6 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:59 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2,4,6-Tribromophenol | 94 | | 25 - 130 | | | | 03/30/16 16:59 | 04/06/16 01:59 | 1 |
| 2-Fluorobiphenyl | 96 | | 42 - 115 | | | | 03/30/16 16:59 | 04/06/16 01:59 | 1 |
| 2-Fluorophenol | 74 | | 40 - 130 | | | | 03/30/16 16:59 | 04/06/16 01:59 | 1 |
| Nitrobenzene-d5 | 88 | | 33 - 124 | | | | 03/30/16 16:59 | 04/06/16 01:59 | 1 |
| Phenol-d5 | 74 | | 36 - 123 | | | | 03/30/16 16:59 | 04/06/16 01:59 | 1 |
| Terphenyl-d14 | 94 | | 25 - 150 | | | | 03/30/16 16:59 | 04/06/16 01:59 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.050 | | 0.050 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 17:09 | 1 |
| Barium | 0.31 | J | 0.50 | 0.050 | mg/L | | 04/02/16 13:50 | 04/04/16 17:09 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 04/02/16 13:50 | 04/04/16 17:09 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/02/16 13:50 | 04/04/16 17:09 | 1 |
| Chromium | <0.025 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 17:09 | 1 |
| Cobalt | <0.025 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 17:09 | 1 |
| Copper | <0.025 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 17:09 | 1 |
| Iron | <0.40 | | 0.40 | 0.20 | mg/L | | 04/02/16 13:50 | 04/04/16 17:09 | 1 |
| Lead | <0.0075 | | 0.0075 | 0.0075 | mg/L | | 04/02/16 13:50 | 04/04/16 17:09 | 1 |
| Manganese | 0.76 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 17:09 | 1 |
| Nickel | <0.025 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 17:09 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/02/16 13:50 | 04/04/16 17:09 | 1 |
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 17:09 | 1 |
| Zinc | 0.077 | J | 0.50 | 0.020 | mg/L | | 04/02/16 13:50 | 04/04/16 17:09 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|---------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.038 | J | 0.050 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 19:24 | 1 |
| Barium | 0.48 | J | 0.50 | 0.050 | mg/L | | 04/04/16 08:37 | 04/04/16 19:24 | 1 |
| Beryllium | 0.0062 | | 0.0040 | 0.0040 | mg/L | | 04/04/16 08:37 | 04/04/16 19:24 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/04/16 08:37 | 04/04/16 19:24 | 1 |
| Chromium | 0.15 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 19:24 | 1 |
| Cobalt | 0.051 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 19:24 | 1 |
| Copper | 0.11 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 19:24 | 1 |
| Iron | 120 | | 0.40 | 0.20 | mg/L | | 04/04/16 08:37 | 04/04/16 19:24 | 1 |
| Lead | 0.075 | | 0.0075 | 0.0075 | mg/L | | 04/04/16 08:37 | 04/04/16 19:24 | 1 |
| Manganese | 0.48 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 19:24 | 1 |
| Nickel | 0.15 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 19:24 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/04/16 08:37 | 04/04/16 19:24 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109464-1

Client Sample ID: CG-2(0-4)-033016

Lab Sample ID: 500-109464-15

Date Collected: 03/30/16 12:45

Matrix: Solid

Date Received: 03/30/16 14:45

Percent Solids: 82.6

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|-------------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 19:24 | 1 |
| Zinc | 0.36 | J | 0.50 | 0.020 | mg/L | | 04/04/16 08:37 | 04/04/16 19:24 | 1 |

Method: 6010B - Total Metals

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | <1.1 | | 1.1 | 0.23 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:22 | 1 |
| Arsenic | 4.2 | | 0.57 | 0.26 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:22 | 1 |
| Barium | 50 | | 0.57 | 0.10 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:22 | 1 |
| Beryllium | 0.63 | | 0.23 | 0.049 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:22 | 1 |
| Cadmium | <0.11 | | 0.11 | 0.033 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:22 | 1 |
| Calcium | 4800 | | 11 | 3.6 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:22 | 1 |
| Chromium | 15 | B | 0.57 | 0.097 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:22 | 1 |
| Cobalt | 9.9 | | 0.28 | 0.064 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:22 | 1 |
| Copper | 16 | | 0.57 | 0.12 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:22 | 1 |
| Iron | 15000 | B | 11 | 4.4 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:22 | 1 |
| Lead | 24 | | 0.28 | 0.14 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:22 | 1 |
| Magnesium | 4400 | B | 5.7 | 2.3 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:22 | 1 |
| Manganese | 140 | | 0.57 | 0.11 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:22 | 1 |
| Nickel | 24 | | 0.57 | 0.15 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:22 | 1 |
| Potassium | 1300 | B | 28 | 4.6 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:22 | 1 |
| Selenium | 0.35 | J | 0.57 | 0.28 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:22 | 1 |
| Silver | <0.28 | | 0.28 | 0.066 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:22 | 1 |
| Sodium | 850 | B | 57 | 7.5 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:22 | 1 |
| Thallium | <0.57 | | 0.57 | 0.28 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:22 | 1 |
| Vanadium | 19 | | 0.28 | 0.083 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:22 | 1 |
| Zinc | 63 | B | 1.1 | 0.36 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:22 | 1 |

Method: 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/04/16 16:10 | 04/05/16 12:45 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/04/16 16:10 | 04/05/16 11:50 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Mercury | 29 | | 18 | 9.3 | ug/Kg | ☼ | 04/01/16 13:30 | 04/04/16 11:41 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-------------|-----------|-------|-------|------|---|----------|----------------|---------|
| pH | 7.67 | | 0.200 | 0.200 | SU | | | 04/05/16 16:10 | 1 |

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109464-1

Client Sample ID: CG-2(0-4)-033016D

Lab Sample ID: 500-109464-16

Date Collected: 03/30/16 12:50

Matrix: Solid

Date Received: 03/30/16 14:45

Percent Solids: 81.6

Method: 8260B - VOC

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Acetone | <25 | | 25 | 4.7 | ug/Kg | ☼ | | 04/05/16 14:10 | 1 |
| Benzene | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 04/05/16 14:10 | 1 |
| Bromodichloromethane | <6.1 | | 6.1 | 1.0 | ug/Kg | ☼ | | 04/05/16 14:10 | 1 |
| Bromoform | <6.1 | | 6.1 | 1.2 | ug/Kg | ☼ | | 04/05/16 14:10 | 1 |
| Bromomethane | <6.1 | * | 6.1 | 2.3 | ug/Kg | ☼ | | 04/05/16 14:10 | 1 |
| Carbon disulfide | <6.1 | | 6.1 | 2.3 | ug/Kg | ☼ | | 04/05/16 14:10 | 1 |
| Carbon tetrachloride | <6.1 | | 6.1 | 1.3 | ug/Kg | ☼ | | 04/05/16 14:10 | 1 |
| Chlorobenzene | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 04/05/16 14:10 | 1 |
| Chloroethane | <6.1 | | 6.1 | 2.6 | ug/Kg | ☼ | | 04/05/16 14:10 | 1 |
| Chloroform | <6.1 | | 6.1 | 1.2 | ug/Kg | ☼ | | 04/05/16 14:10 | 1 |
| Chloromethane | <6.1 | | 6.1 | 1.5 | ug/Kg | ☼ | | 04/05/16 14:10 | 1 |
| cis-1,2-Dichloroethene | <6.1 | | 6.1 | 1.2 | ug/Kg | ☼ | | 04/05/16 14:10 | 1 |
| cis-1,3-Dichloropropene | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 04/05/16 14:10 | 1 |
| Dibromochloromethane | <6.1 | | 6.1 | 0.70 | ug/Kg | ☼ | | 04/05/16 14:10 | 1 |
| 1,1-Dichloroethane | <6.1 | | 6.1 | 1.3 | ug/Kg | ☼ | | 04/05/16 14:10 | 1 |
| 1,2-Dichloroethane | <6.1 | | 6.1 | 0.91 | ug/Kg | ☼ | | 04/05/16 14:10 | 1 |
| 1,1-Dichloroethene | <6.1 | | 6.1 | 2.2 | ug/Kg | ☼ | | 04/05/16 14:10 | 1 |
| 1,2-Dichloropropane | <6.1 | | 6.1 | 1.6 | ug/Kg | ☼ | | 04/05/16 14:10 | 1 |
| 1,3-Dichloropropene, Total | <6.1 | | 6.1 | 1.7 | ug/Kg | ☼ | | 04/05/16 14:10 | 1 |
| Ethylbenzene | <6.1 | | 6.1 | 1.5 | ug/Kg | ☼ | | 04/05/16 14:10 | 1 |
| 2-Hexanone | <6.1 | | 6.1 | 1.9 | ug/Kg | ☼ | | 04/05/16 14:10 | 1 |
| Methylene Chloride | <6.1 | | 6.1 | 4.6 | ug/Kg | ☼ | | 04/05/16 14:10 | 1 |
| Methyl Ethyl Ketone | <6.1 | | 6.1 | 2.2 | ug/Kg | ☼ | | 04/05/16 14:10 | 1 |
| methyl isobutyl ketone | <6.1 | | 6.1 | 1.3 | ug/Kg | ☼ | | 04/05/16 14:10 | 1 |
| Methyl tert-butyl ether | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 04/05/16 14:10 | 1 |
| Styrene | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 04/05/16 14:10 | 1 |
| 1,1,2,2-Tetrachloroethane | <6.1 | | 6.1 | 0.97 | ug/Kg | ☼ | | 04/05/16 14:10 | 1 |
| Tetrachloroethene | <6.1 | | 6.1 | 1.3 | ug/Kg | ☼ | | 04/05/16 14:10 | 1 |
| Toluene | <6.1 | | 6.1 | 2.1 | ug/Kg | ☼ | | 04/05/16 14:10 | 1 |
| trans-1,2-Dichloroethene | <6.1 | | 6.1 | 1.5 | ug/Kg | ☼ | | 04/05/16 14:10 | 1 |
| trans-1,3-Dichloropropene | <6.1 | | 6.1 | 1.7 | ug/Kg | ☼ | | 04/05/16 14:10 | 1 |
| 1,1,1-Trichloroethane | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 04/05/16 14:10 | 1 |
| 1,1,2-Trichloroethane | <6.1 | | 6.1 | 1.2 | ug/Kg | ☼ | | 04/05/16 14:10 | 1 |
| Trichloroethene | <6.1 | | 6.1 | 1.7 | ug/Kg | ☼ | | 04/05/16 14:10 | 1 |
| Vinyl chloride | <6.1 | * | 6.1 | 1.5 | ug/Kg | ☼ | | 04/05/16 14:10 | 1 |
| Xylenes, Total | <12 | | 12 | 2.3 | ug/Kg | ☼ | | 04/05/16 14:10 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 105 | | 70 - 120 | | 04/05/16 14:10 | 1 |
| Dibromofluoromethane | 114 | | 75 - 120 | | 04/05/16 14:10 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 113 | | 69 - 134 | | 04/05/16 14:10 | 1 |
| Toluene-d8 (Surr) | 115 | | 75 - 123 | | 04/05/16 14:10 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,2,4-Trichlorobenzene | <200 | | 200 | 42 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 02:28 | 1 |
| 1,2-Dichlorobenzene | <200 | | 200 | 47 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 02:28 | 1 |
| 1,3-Dichlorobenzene | <200 | | 200 | 44 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 02:28 | 1 |
| 1,4-Dichlorobenzene | <200 | | 200 | 50 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 02:28 | 1 |
| 2,2'-oxybis[1-chloropropane] | <200 | | 200 | 46 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 02:28 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109464-1

Client Sample ID: CG-2(0-4)-033016D

Lab Sample ID: 500-109464-16

Date Collected: 03/30/16 12:50

Matrix: Solid

Date Received: 03/30/16 14:45

Percent Solids: 81.6

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol | <390 | | 390 | 90 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 02:28 | 1 |
| 2,4,6-Trichlorophenol | <390 | | 390 | 130 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 02:28 | 1 |
| 2,4-Dichlorophenol | <390 | | 390 | 93 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 02:28 | 1 |
| 2,4-Dimethylphenol | <390 | | 390 | 150 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 02:28 | 1 |
| 2,4-Dinitrophenol | <790 | | 790 | 690 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 02:28 | 1 |
| 2,4-Dinitrotoluene | <200 | | 200 | 62 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 02:28 | 1 |
| 2,6-Dinitrotoluene | <200 | | 200 | 77 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 02:28 | 1 |
| 2-Chloronaphthalene | <200 | | 200 | 43 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 02:28 | 1 |
| 2-Chlorophenol | <200 | | 200 | 67 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 02:28 | 1 |
| 2-Methylnaphthalene | <39 | | 39 | 7.2 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 02:28 | 1 |
| 2-Methylphenol | <200 | | 200 | 63 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 02:28 | 1 |
| 2-Nitroaniline | <200 | | 200 | 53 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 02:28 | 1 |
| 2-Nitrophenol | <390 | | 390 | 93 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 02:28 | 1 |
| 3 & 4 Methylphenol | <200 | | 200 | 66 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 02:28 | 1 |
| 3,3'-Dichlorobenzidine | <200 | | 200 | 55 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 02:28 | 1 |
| 3-Nitroaniline | <390 | | 390 | 120 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 02:28 | 1 |
| 4,6-Dinitro-2-methylphenol | <790 | | 790 | 320 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 02:28 | 1 |
| 4-Bromophenyl phenyl ether | <200 | | 200 | 52 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 02:28 | 1 |
| 4-Chloro-3-methylphenol | <390 | | 390 | 130 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 02:28 | 1 |
| 4-Chloroaniline | <790 | | 790 | 180 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 02:28 | 1 |
| 4-Chlorophenyl phenyl ether | <200 | | 200 | 46 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 02:28 | 1 |
| 4-Nitroaniline | <390 | | 390 | 160 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 02:28 | 1 |
| 4-Nitrophenol | <790 | | 790 | 370 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 02:28 | 1 |
| Acenaphthene | <39 | | 39 | 7.1 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 02:28 | 1 |
| Acenaphthylene | <39 | | 39 | 5.2 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 02:28 | 1 |
| Anthracene | <39 | | 39 | 6.6 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 02:28 | 1 |
| Benzo[a]anthracene | 9.3 J | | 39 | 5.3 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 02:28 | 1 |
| Benzo[a]pyrene | 8.5 J | | 39 | 7.6 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 02:28 | 1 |
| Benzo[b]fluoranthene | 17 J | | 39 | 8.5 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 02:28 | 1 |
| Benzo[g,h,i]perylene | <39 | | 39 | 13 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 02:28 | 1 |
| Benzo[k]fluoranthene | <39 | | 39 | 12 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 02:28 | 1 |
| Bis(2-chloroethoxy)methane | <200 | | 200 | 40 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 02:28 | 1 |
| Bis(2-chloroethyl)ether | <200 | | 200 | 59 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 02:28 | 1 |
| Bis(2-ethylhexyl) phthalate | <200 | | 200 | 72 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 02:28 | 1 |
| Butyl benzyl phthalate | <200 | | 200 | 75 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 02:28 | 1 |
| Carbazole | <200 | | 200 | 98 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 02:28 | 1 |
| Chrysene | 14 J | | 39 | 11 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 02:28 | 1 |
| Dibenz(a,h)anthracene | <39 | | 39 | 7.6 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 02:28 | 1 |
| Dibenzofuran | <200 | | 200 | 46 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 02:28 | 1 |
| Diethyl phthalate | <200 | | 200 | 67 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 02:28 | 1 |
| Dimethyl phthalate | <200 | | 200 | 51 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 02:28 | 1 |
| Di-n-butyl phthalate | <200 | | 200 | 60 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 02:28 | 1 |
| Di-n-octyl phthalate | <200 | | 200 | 64 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 02:28 | 1 |
| Fluoranthene | 20 J | | 39 | 7.3 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 02:28 | 1 |
| Fluorene | <39 | | 39 | 5.5 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 02:28 | 1 |
| Hexachlorobenzene | <79 | | 79 | 9.1 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 02:28 | 1 |
| Hexachlorobutadiene | <200 | | 200 | 62 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 02:28 | 1 |
| Hexachlorocyclopentadiene | <790 | | 790 | 230 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 02:28 | 1 |
| Hexachloroethane | <200 | | 200 | 60 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 02:28 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109464-1

Client Sample ID: CG-2(0-4)-033016D

Lab Sample ID: 500-109464-16

Date Collected: 03/30/16 12:50

Matrix: Solid

Date Received: 03/30/16 14:45

Percent Solids: 81.6

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Indeno[1,2,3-cd]pyrene | <39 | | 39 | 10 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 02:28 | 1 |
| Isophorone | <200 | | 200 | 44 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 02:28 | 1 |
| Naphthalene | <39 | | 39 | 6.0 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 02:28 | 1 |
| Nitrobenzene | <39 | | 39 | 9.8 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 02:28 | 1 |
| N-Nitrosodi-n-propylamine | <79 | | 79 | 48 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 02:28 | 1 |
| N-Nitrosodiphenylamine | <200 | | 200 | 46 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 02:28 | 1 |
| Pentachlorophenol | <790 | | 790 | 630 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 02:28 | 1 |
| Phenanthrene | 12 | J | 39 | 5.5 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 02:28 | 1 |
| Phenol | <200 | | 200 | 87 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 02:28 | 1 |
| Pyrene | 16 | J | 39 | 7.8 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 02:28 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2,4,6-Tribromophenol | 114 | | 25 - 130 | | | | 03/30/16 16:59 | 04/06/16 02:28 | 1 |
| 2-Fluorobiphenyl | 115 | | 42 - 115 | | | | 03/30/16 16:59 | 04/06/16 02:28 | 1 |
| 2-Fluorophenol | 107 | | 40 - 130 | | | | 03/30/16 16:59 | 04/06/16 02:28 | 1 |
| Nitrobenzene-d5 | 105 | | 33 - 124 | | | | 03/30/16 16:59 | 04/06/16 02:28 | 1 |
| Phenol-d5 | 106 | | 36 - 123 | | | | 03/30/16 16:59 | 04/06/16 02:28 | 1 |
| Terphenyl-d14 | 94 | | 25 - 150 | | | | 03/30/16 16:59 | 04/06/16 02:28 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.050 | | 0.050 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 17:14 | 1 |
| Barium | 0.28 | J | 0.50 | 0.050 | mg/L | | 04/02/16 13:50 | 04/04/16 17:14 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 04/02/16 13:50 | 04/04/16 17:14 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/02/16 13:50 | 04/04/16 17:14 | 1 |
| Chromium | <0.025 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 17:14 | 1 |
| Cobalt | <0.025 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 17:14 | 1 |
| Copper | <0.025 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 17:14 | 1 |
| Iron | <0.40 | | 0.40 | 0.20 | mg/L | | 04/02/16 13:50 | 04/04/16 17:14 | 1 |
| Lead | <0.0075 | | 0.0075 | 0.0075 | mg/L | | 04/02/16 13:50 | 04/04/16 17:14 | 1 |
| Manganese | 0.46 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 17:14 | 1 |
| Nickel | <0.025 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 17:14 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/02/16 13:50 | 04/04/16 17:14 | 1 |
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 17:14 | 1 |
| Zinc | 0.028 | J | 0.50 | 0.020 | mg/L | | 04/02/16 13:50 | 04/04/16 17:14 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|---------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.029 | J | 0.050 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 19:37 | 1 |
| Barium | 0.42 | J | 0.50 | 0.050 | mg/L | | 04/04/16 08:37 | 04/04/16 19:37 | 1 |
| Beryllium | 0.0057 | | 0.0040 | 0.0040 | mg/L | | 04/04/16 08:37 | 04/04/16 19:37 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/04/16 08:37 | 04/04/16 19:37 | 1 |
| Chromium | 0.14 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 19:37 | 1 |
| Cobalt | 0.050 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 19:37 | 1 |
| Copper | 0.10 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 19:37 | 1 |
| Iron | 110 | | 0.40 | 0.20 | mg/L | | 04/04/16 08:37 | 04/04/16 19:37 | 1 |
| Lead | 0.065 | | 0.038 | 0.038 | mg/L | | 04/04/16 08:37 | 04/06/16 15:14 | 5 |
| Manganese | 0.47 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 19:37 | 1 |
| Nickel | 0.15 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 19:37 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/04/16 08:37 | 04/04/16 19:37 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109464-1

Client Sample ID: CG-2(0-4)-033016D

Lab Sample ID: 500-109464-16

Date Collected: 03/30/16 12:50

Matrix: Solid

Date Received: 03/30/16 14:45

Percent Solids: 81.6

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|-------------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 19:37 | 1 |
| Zinc | 0.32 | J | 0.50 | 0.020 | mg/L | | 04/04/16 08:37 | 04/04/16 19:37 | 1 |

Method: 6010B - Total Metals

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | <1.2 | | 1.2 | 0.24 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:27 | 1 |
| Arsenic | 4.5 | | 0.58 | 0.27 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:27 | 1 |
| Barium | 66 | | 0.58 | 0.11 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:27 | 1 |
| Beryllium | 0.96 | | 0.23 | 0.050 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:27 | 1 |
| Cadmium | <0.12 | | 0.12 | 0.034 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:27 | 1 |
| Calcium | 5000 | | 12 | 3.7 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:27 | 1 |
| Chromium | 19 | B | 0.58 | 0.10 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:27 | 1 |
| Cobalt | 13 | | 0.29 | 0.066 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:27 | 1 |
| Copper | 22 | | 0.58 | 0.13 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:27 | 1 |
| Iron | 19000 | B | 12 | 4.5 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:27 | 1 |
| Lead | 23 | | 0.29 | 0.14 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:27 | 1 |
| Magnesium | 5100 | B | 5.8 | 2.4 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:27 | 1 |
| Manganese | 150 | | 0.58 | 0.12 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:27 | 1 |
| Nickel | 36 | | 0.58 | 0.16 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:27 | 1 |
| Potassium | 1700 | B | 29 | 4.8 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:27 | 1 |
| Selenium | <0.58 | | 0.58 | 0.29 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:27 | 1 |
| Silver | <0.29 | | 0.29 | 0.068 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:27 | 1 |
| Sodium | 1200 | B | 58 | 7.7 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:27 | 1 |
| Thallium | <0.58 | | 0.58 | 0.29 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:27 | 1 |
| Vanadium | 24 | | 0.29 | 0.085 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:27 | 1 |
| Zinc | 86 | B | 1.2 | 0.37 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:27 | 1 |

Method: 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/04/16 16:10 | 04/05/16 12:47 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/04/16 16:10 | 04/05/16 11:52 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Mercury | 44 | | 19 | 10 | ug/Kg | ☼ | 04/01/16 13:30 | 04/04/16 11:44 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-------------|-----------|-------|-------|------|---|----------|----------------|---------|
| pH | 7.83 | | 0.200 | 0.200 | SU | | | 04/05/16 16:15 | 1 |

Definitions/Glossary

Client: Environmental Design International, Inc.
Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109464-1

Qualifiers

GC/MS VOA

| Qualifier | Qualifier Description |
|-----------|--|
| F1 | MS and/or MSD Recovery is outside acceptance limits. |
| * | LCS or LCSD is outside acceptance limits. |

GC/MS Semi VOA

| Qualifier | Qualifier Description |
|-----------|--|
| F2 | MS/MSD RPD exceeds control limits |
| F1 | MS and/or MSD Recovery is outside acceptance limits. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| E | Result exceeded calibration range. |
| X | Surrogate is outside control limits |

Metals

| Qualifier | Qualifier Description |
|-----------|--|
| F1 | MS and/or MSD Recovery is outside acceptance limits. |
| F2 | MS/MSD RPD exceeds control limits |
| B | Compound was found in the blank and sample. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| F3 | Duplicate RPD exceeds the control limit |
| F5 | Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL. |
| 4 | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |

Glossary

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

Certification Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109464-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|-----------|---------|------------|------------------|-----------------|
| Illinois | NELAP | 5 | 100201 | 04-30-17 |

The following analytes are included in this report, but certification is not offered by the governing authority:

| Analysis Method | Prep Method | Matrix | Analyte |
|-----------------|-------------|--------|----------------------------|
| 8260B | | Solid | 1,3-Dichloropropene, Total |
| 8260B | 5030B | Solid | 1,3-Dichloropropene, Total |
| Moisture | | Solid | Percent Moisture |
| Moisture | | Solid | Percent Solids |

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Report To _____ (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

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

Chain of Custody Record

Lab Job #: 500-109464


Chain of Custody Number: _____

Page 1 of 2

Temperature °C of Cooler: 5.1

| Client | | Client Project # | | Preservative | | Parameter | | Matrix | | Comments | | |
|------------------------|--------|-----------------------|----------|---------------|-----------------|-----------|------|--------|--------------|------------------|----|----------|
| EDJ | | 0295.022 | | | | | | | | | | |
| Project Name | | Harvey IL | | Lab Project # | | Lab PM | | | | | | |
| Project Location/State | | Harvey IL | | Lab Project # | | Lab PM | | | | | | |
| Sampler | | Celia Pannier | | Lab PM | | | | | | | | |
| Lab ID | MS/MSD | Sample ID | Sampling | | # of Containers | Matrix | VOCs | SVOCs | Total Metals | TECH SVOC Metals | pH | Comments |
| | | | Date | Time | | | | | | | | |
| 1 | | R49-1(0-3.4)-033016 | 3/30/16 | 0845 | 2 | S | X | X | X | X | X | |
| 2 | | CB45-1(0-4)-033016 | | 0855 | | | | | | | | |
| 3 | | CB45-2(0-6.6)-033016 | | 0910 | | | | | | | | |
| 4 | | CB33-1(0-4)-033016 | | 0925 | | | | | | | | |
| 5 | | CB33-2(0-4)-033016 | | 0945 | | | | | | | | |
| 6 | | CB33-2(4-7.3)-033016 | | 0950 | | | | | | | | |
| 7 | | CB33-3(0-4)-033016 | | 1000 | | | | | | | | |
| 8 | | CB33-4(0-4)-033016 | | 1025 | | | | | | | | |
| 9 | | CB33-4(4-7.3)-033016 | | 1030 | | | | | | | | |
| 10 | | CB33-4(4-7.3)-033016D | | 1035 | | | X | X | X | X | X | |

Preservative Key
4°
to 4°
to 4°
to 4°
to 4°



500-109464 COC

Turnaround Time Required (Business Days)
 1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other
 Requested Due Date _____

Sample Disposal
 Return to Client Disposal by Lab Archive for _____ Months
 (A fee may be assessed if samples are retained longer than 1 month)

| | | |
|--|--|-----------------------|
| Relinquished By: <u>[Signature]</u> Company: EDJ Date: 3/30/16 Time: 1:25 | Received By: <u>[Signature]</u> Company: TA Date: 3/30/16 Time: 1:25 | Lab Courier: TA |
| Relinquished By: <u>[Signature]</u> Company: TA Date: 3/30/16 Time: 1:45 | Received By: <u>[Signature]</u> Company: TA Date: 03/30/16 Time: 1:45 | Shipped: _____ |
| Relinquished By: _____ Company: _____ Date: _____ Time: _____ | Received By: _____ Company: _____ Date: _____ Time: _____ | Hand Delivered: _____ |

- Matrix Key
- WW - Wastewater
 - W - Water
 - S - Soil
 - SL - Sludge
 - MS - Miscellaneous
 - OL - Oil
 - A - Air
 - SE - Sediment
 - SO - Soil
 - L - Leachate
 - WI - Wipe
 - DW - Drinking Water
 - O - Other

Client Comments: _____

Lab Comments: _____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To _____ (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

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

Chain of Custody Record

Lab Job #: 500-109464
 Chain of Custody Number: _____
 Page 2 of 2
 Temperature °C of Cooler: 5.1

| Client | | Client Project # | | Preservative | | Parameter | | Comments | | | | |
|---------------|--------|------------------------|---------|-----------------|---|-----------|------|---|--------------|------------------|----|--|
| EDI | | 0295.022 | | | | | | Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other | | | | |
| Project Name | | Project Location/State | | Lab Project # | | SAMPLING | | | | | | |
| IDOT - Harvey | | Harvey IL | | | | | | | | | | |
| Sampler | | Lab PM | | # of Containers | | Matrix | | | | | | |
| Glin Pomeroy | | | | | | | | | | | | |
| Lab ID | MS/MSD | Sample ID | Date | Time | | | | | | | | |
| 11 | | VL26-1(6-5.2)-033016 | 3/30/16 | 1135 | 2 | 5 | VOCs | SVOCS | Total Metals | TECO/SPLD Metals | pH | |
| 12 | | VL26-2(0-5.2)-033016 | | 1150 | | | | | | | | |
| 13 | | VL25-1(0-4.5)-033016 | | 1205 | | | | | | | | |
| 14 | | CG-1(0-4)-033016 | | 1225 | | | | | | | | |
| 15 | | CG-2(0-4)-033016 | | 1245 | | | | | | | | |
| 16 | | CG-2(0-4)-033016 D | | 1250 | | | | | | | | |
| 17 | | CG-3(0-4)-033016 | | 1300 | | | | | | | | |
| 18 | | CG-4(0-4)-033016 | | 1315 | | | | | | | | |
| 19 | | CG-5(0-4.5)-033016 | | 1335 | | | | | | | | |

Turnaround Time Required (Business Days)

___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days ___ Other

Sample Disposal

Requested Due Date _____ Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

| | | | | | | |
|---|---------------|------------|--|----------------|------------|-------------------|
| Relinquished By <i>[Signature]</i> Company: EDI | Date: 3/30/16 | Time: 1425 | Received By <i>[Signature]</i> Company: TA | Date: 3/30/16 | Time: 1425 | Lab Courier TA |
| Relinquished By <i>[Signature]</i> Company: TA | Date: 3/30/16 | Time: 1445 | Received By <i>[Signature]</i> Company: TA | Date: 03/30/16 | Time: 1445 | Shipped |
| Relinquished By | Date | Time | Received By | Date | Time | Hand Delivered |

Matrix Key

WW - Wastewater SE - Sediment
 W - Water SO - Soil
 S - Soil L - Leachate
 SL - Sludge WI - Wipe
 MS - Miscellaneous DW - Drinking Water
 OL - Oil O - Other
 A - Air

Client Comments

Lab Comments:



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

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

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

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

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

I. Source Location Information

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

Project Name: FAU 3597: IL Route 1 (Halsted St) at Vincennes Rd Office Phone Number, if available: _____

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

15229 S. Halsted Street, (ISGS Site No. 2553V-25)

City: Phoenix State: IL Zip Code: _____

County: Cook Township: _____

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

Latitude: 41.61208611 Longitude: -87.63634167
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

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

Project Name: FAU 3597: IL Route 1 (Halsted St) at Vincennes

Latitude: 41.61208611 Longitude: -87.63634167

Uncontaminated Site Certification

III. Basis for Certification and Attachments

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

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

LOCATION VL25-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2553V-25. SEE FIGURE 3-1 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

- 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]:

TEST AMERICA REPORTS - JOB ID: 500-109464-1.
ALSO SEE FIGURE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

I, William F. Karlovitz, P.E. (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: Weston Solutions, Inc.

Street Address: 300 Circle Plaza; Suite 202

City: Mundelein State: IL Zip Code: 60060

Phone: (224) 864-7200

William F. Karlovitz, P.E.

Printed Name:

[Handwritten Signature]

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

17 MAY 2016

Date:



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

Summary Table of ISGS Site No. 2553V-25
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAU 3597: Illinois Route 1 (Halsted Street) at Vincennes Road
Harvey, Cook County, Illinois

| Field Sample ID | VL25-1(0-4.5)-033016 | Soil Reference Concentrations^A |
|-----------------------------|----------------------|--|
| Sample Date | 3/30/2016 | |
| Location ID | VL25-1 | |
| Depth | 0 - 4.5 | |
| Lab Sample ID | 500-109464-13 | |
| ISGS Site No. | 2553V-25 | |
| Parameter | | |
| Laboratory pH | 8.26 | <6.25,>9.0 |
| VOCs (ug/kg) | None Detected | |
| SVOCs (ug/kg) | | |
| Benzo(a)anthracene | 16 J | 900 / 1100 / 1800 |
| Benzo(a)pyrene | 18 J | 90 / 1300 / 2100 |
| Benzo(b)fluoranthene | 24 J | 900 / 1500 / 2100 |
| Chrysene | 22 J | 88000 |
| Fluoranthene | 37 J | 3100000 |
| Phenanthrene | 11 J | --- |
| Pyrene | 23 J | 2300000 |
| Total Metals (mg/kg) | | |
| Arsenic, Total | 7.6 J | 11.3 / 13.0 |
| Barium, Total | 37 J | 1500 |
| Beryllium, Total | 0.75 J- | 22 |
| Cadmium, Total | 0.051 J | 5.2 |
| Calcium, Total | 30000 J | --- |
| Chromium, Total | 18 B | 21 |
| Cobalt, Total | 10 J | 20 |
| Copper, Total | 30 J | 2900 |
| Iron, Total | 22000 J | 15000 / 15900 |
| Lead, Total | 33 J | 107 |
| Magnesium, Total | 18000 J | 325000 |
| Manganese, Total | 190 J | 630 / 636 |
| Mercury, Total | 0.029 | 0.89 |
| Nickel, Total | 33 J | 100 |
| Potassium, Total | 2500 J+ | --- |
| Selenium, Total | 0.39 J | 1.3 |
| Sodium, Total | 600 J- | --- |
| Vanadium, Total | 22 J | 550 |
| Zinc, Total | 87 J- | 5100 |
| TCLP Metals (mg/l) | | |
| Arsenic, TCLP | ND | 0.05 |
| Barium, TCLP | 0.31 J | 2 |
| Beryllium, TCLP | ND | 0.004 |
| Cadmium, TCLP | ND | 0.005 |
| Chromium, TCLP | ND | 0.1 |
| Cobalt, TCLP | ND | 1 |
| Copper, TCLP | ND | 0.65 |
| Iron, TCLP | ND | 5 |
| Lead, TCLP | ND | 0.0075 |
| Manganese, TCLP | 0.13 | 0.15 |
| Mercury, TCLP | ND | 0.002 |
| Nickel, TCLP | ND | 0.1 |
| Selenium, TCLP | ND | 0.05 |
| Zinc, TCLP | 0.042 J | 5 |
| SPLP Metals (mg/l) | | |
| Arsenic, SPLP | 0.045 J | 0.05 |
| Barium, SPLP | 0.34 J | 2 |
| Beryllium, SPLP | 0.0046 | 0.004 |
| Cadmium, SPLP | ND | 0.005 |
| Chromium, SPLP | 0.11 J+ | 0.1 |
| Cobalt, SPLP | 0.035 | 1 |
| Copper, SPLP | 0.11 | 0.65 |
| Iron, SPLP | 100 J+ | 5 |
| Lead, SPLP | 0.091 J+ | 0.0075 |
| Manganese, SPLP | 0.42 J+ | 0.15 |
| Mercury, SPLP | ND | 0.002 |
| Nickel, SPLP | 0.11 | 0.1 |
| Selenium, SPLP | ND | 0.05 |
| Zinc, SPLP | 0.31 J | 5 |

Summary Table of ISGS Site No. 2553V-25
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAU 3597: Illinois Route 1 (Halsted Street) at Vincennes Road
Harvey, Cook County, Illinois

Notes:

--- - not applicable or value not available.

^A - Soil reference concentrations from MAC Table. Background values for MSA Counties and Chicago corporate limits are included, as applicable.

B - Constituent detected in the blank and investigative sample.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J+ - Estimated concentration; biased high.

J- - Estimated concentration; biased low.

 Shaded values indicate concentration **exceeds** Reference Concentration.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-109464-1

Client Project/Site: IDOT - Harvey IL Route 113 - WO 041

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

Attn: Ms. Patricia Feeley

Jodie Bracken

Authorized for release by:
4/8/2016 3:17:01 PM

Jodie Bracken, Project Management Assistant II
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Designee for

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

Review your project
results through
TotalAccess

Have a Question?



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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.

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

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109464-1

Client Sample ID: VL25-1(0-4.5)-033016

Lab Sample ID: 500-109464-13

Date Collected: 03/30/16 12:05

Matrix: Solid

Date Received: 03/30/16 14:45

Percent Solids: 78.7

Method: 8260B - VOC

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Acetone | <25 | | 25 | 4.9 | ug/Kg | ☼ | | 04/05/16 12:59 | 1 |
| Benzene | <6.4 | | 6.4 | 1.4 | ug/Kg | ☼ | | 04/05/16 12:59 | 1 |
| Bromodichloromethane | <6.4 | | 6.4 | 1.1 | ug/Kg | ☼ | | 04/05/16 12:59 | 1 |
| Bromoform | <6.4 | | 6.4 | 1.3 | ug/Kg | ☼ | | 04/05/16 12:59 | 1 |
| Bromomethane | <6.4 * | | 6.4 | 2.3 | ug/Kg | ☼ | | 04/05/16 12:59 | 1 |
| Carbon disulfide | <6.4 | | 6.4 | 2.3 | ug/Kg | ☼ | | 04/05/16 12:59 | 1 |
| Carbon tetrachloride | <6.4 | | 6.4 | 1.4 | ug/Kg | ☼ | | 04/05/16 12:59 | 1 |
| Chlorobenzene | <6.4 | | 6.4 | 1.5 | ug/Kg | ☼ | | 04/05/16 12:59 | 1 |
| Chloroethane | <6.4 | | 6.4 | 2.7 | ug/Kg | ☼ | | 04/05/16 12:59 | 1 |
| Chloroform | <6.4 | | 6.4 | 1.2 | ug/Kg | ☼ | | 04/05/16 12:59 | 1 |
| Chloromethane | <6.4 | | 6.4 | 1.5 | ug/Kg | ☼ | | 04/05/16 12:59 | 1 |
| cis-1,2-Dichloroethene | <6.4 | | 6.4 | 1.3 | ug/Kg | ☼ | | 04/05/16 12:59 | 1 |
| cis-1,3-Dichloropropene | <6.4 | | 6.4 | 1.4 | ug/Kg | ☼ | | 04/05/16 12:59 | 1 |
| Dibromochloromethane | <6.4 | | 6.4 | 0.73 | ug/Kg | ☼ | | 04/05/16 12:59 | 1 |
| 1,1-Dichloroethane | <6.4 | | 6.4 | 1.3 | ug/Kg | ☼ | | 04/05/16 12:59 | 1 |
| 1,2-Dichloroethane | <6.4 | | 6.4 | 0.94 | ug/Kg | ☼ | | 04/05/16 12:59 | 1 |
| 1,1-Dichloroethene | <6.4 | | 6.4 | 2.3 | ug/Kg | ☼ | | 04/05/16 12:59 | 1 |
| 1,2-Dichloropropane | <6.4 | | 6.4 | 1.7 | ug/Kg | ☼ | | 04/05/16 12:59 | 1 |
| 1,3-Dichloropropene, Total | <6.4 | | 6.4 | 1.8 | ug/Kg | ☼ | | 04/05/16 12:59 | 1 |
| Ethylbenzene | <6.4 | | 6.4 | 1.6 | ug/Kg | ☼ | | 04/05/16 12:59 | 1 |
| 2-Hexanone | <6.4 | | 6.4 | 2.0 | ug/Kg | ☼ | | 04/05/16 12:59 | 1 |
| Methylene Chloride | <6.4 | | 6.4 | 4.8 | ug/Kg | ☼ | | 04/05/16 12:59 | 1 |
| Methyl Ethyl Ketone | <6.4 | | 6.4 | 2.3 | ug/Kg | ☼ | | 04/05/16 12:59 | 1 |
| methyl isobutyl ketone | <6.4 | | 6.4 | 1.3 | ug/Kg | ☼ | | 04/05/16 12:59 | 1 |
| Methyl tert-butyl ether | <6.4 | | 6.4 | 1.5 | ug/Kg | ☼ | | 04/05/16 12:59 | 1 |
| Styrene | <6.4 | | 6.4 | 1.5 | ug/Kg | ☼ | | 04/05/16 12:59 | 1 |
| 1,1,2,2-Tetrachloroethane | <6.4 | | 6.4 | 1.0 | ug/Kg | ☼ | | 04/05/16 12:59 | 1 |
| Tetrachloroethene | <6.4 | | 6.4 | 1.3 | ug/Kg | ☼ | | 04/05/16 12:59 | 1 |
| Toluene | <6.4 | | 6.4 | 2.2 | ug/Kg | ☼ | | 04/05/16 12:59 | 1 |
| trans-1,2-Dichloroethene | <6.4 | | 6.4 | 1.6 | ug/Kg | ☼ | | 04/05/16 12:59 | 1 |
| trans-1,3-Dichloropropene | <6.4 | | 6.4 | 1.8 | ug/Kg | ☼ | | 04/05/16 12:59 | 1 |
| 1,1,1-Trichloroethane | <6.4 | | 6.4 | 1.5 | ug/Kg | ☼ | | 04/05/16 12:59 | 1 |
| 1,1,2-Trichloroethane | <6.4 | | 6.4 | 1.2 | ug/Kg | ☼ | | 04/05/16 12:59 | 1 |
| Trichloroethene | <6.4 | | 6.4 | 1.7 | ug/Kg | ☼ | | 04/05/16 12:59 | 1 |
| Vinyl chloride | <6.4 * | | 6.4 | 1.5 | ug/Kg | ☼ | | 04/05/16 12:59 | 1 |
| Xylenes, Total | <13 | | 13 | 2.3 | ug/Kg | ☼ | | 04/05/16 12:59 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 107 | | 70 - 120 | | 04/05/16 12:59 | 1 |
| Dibromofluoromethane | 114 | | 75 - 120 | | 04/05/16 12:59 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 115 | | 69 - 134 | | 04/05/16 12:59 | 1 |
| Toluene-d8 (Surr) | 115 | | 75 - 123 | | 04/05/16 12:59 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,2,4-Trichlorobenzene | <210 | | 210 | 44 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:02 | 1 |
| 1,2-Dichlorobenzene | <210 | | 210 | 49 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:02 | 1 |
| 1,3-Dichlorobenzene | <210 | | 210 | 46 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:02 | 1 |
| 1,4-Dichlorobenzene | <210 | | 210 | 52 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:02 | 1 |
| 2,2'-oxybis[1-chloropropane] | <210 | | 210 | 47 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:02 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109464-1

Client Sample ID: VL25-1(0-4.5)-033016

Lab Sample ID: 500-109464-13

Date Collected: 03/30/16 12:05

Matrix: Solid

Date Received: 03/30/16 14:45

Percent Solids: 78.7

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-------------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol | <410 | | 410 | 93 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:02 | 1 |
| 2,4,6-Trichlorophenol | <410 | | 410 | 140 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:02 | 1 |
| 2,4-Dichlorophenol | <410 | | 410 | 97 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:02 | 1 |
| 2,4-Dimethylphenol | <410 | | 410 | 150 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:02 | 1 |
| 2,4-Dinitrophenol | <820 | | 820 | 720 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:02 | 1 |
| 2,4-Dinitrotoluene | <210 | | 210 | 65 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:02 | 1 |
| 2,6-Dinitrotoluene | <210 | | 210 | 80 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:02 | 1 |
| 2-Chloronaphthalene | <210 | | 210 | 45 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:02 | 1 |
| 2-Chlorophenol | <210 | | 210 | 70 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:02 | 1 |
| 2-Methylnaphthalene | <41 | | 41 | 7.5 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:02 | 1 |
| 2-Methylphenol | <210 | | 210 | 65 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:02 | 1 |
| 2-Nitroaniline | <210 | | 210 | 55 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:02 | 1 |
| 2-Nitrophenol | <410 | | 410 | 96 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:02 | 1 |
| 3 & 4 Methylphenol | <210 | | 210 | 68 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:02 | 1 |
| 3,3'-Dichlorobenzidine | <210 | | 210 | 57 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:02 | 1 |
| 3-Nitroaniline | <410 | | 410 | 130 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:02 | 1 |
| 4,6-Dinitro-2-methylphenol | <820 | | 820 | 330 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:02 | 1 |
| 4-Bromophenyl phenyl ether | <210 | | 210 | 54 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:02 | 1 |
| 4-Chloro-3-methylphenol | <410 | | 410 | 140 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:02 | 1 |
| 4-Chloroaniline | <820 | | 820 | 190 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:02 | 1 |
| 4-Chlorophenyl phenyl ether | <210 | | 210 | 48 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:02 | 1 |
| 4-Nitroaniline | <410 | | 410 | 170 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:02 | 1 |
| 4-Nitrophenol | <820 | | 820 | 390 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:02 | 1 |
| Acenaphthene | <41 | | 41 | 7.3 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:02 | 1 |
| Acenaphthylene | <41 | | 41 | 5.4 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:02 | 1 |
| Anthracene | <41 | | 41 | 6.8 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:02 | 1 |
| Benzo[a]anthracene | 16 J | | 41 | 5.5 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:02 | 1 |
| Benzo[a]pyrene | 18 J | | 41 | 7.9 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:02 | 1 |
| Benzo[b]fluoranthene | 24 J | | 41 | 8.8 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:02 | 1 |
| Benzo[g,h,i]perylene | <41 | | 41 | 13 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:02 | 1 |
| Benzo[k]fluoranthene | <41 | | 41 | 12 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:02 | 1 |
| Bis(2-chloroethoxy)methane | <210 | | 210 | 42 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:02 | 1 |
| Bis(2-chloroethyl)ether | <210 | | 210 | 61 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:02 | 1 |
| Bis(2-ethylhexyl) phthalate | <210 | | 210 | 75 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:02 | 1 |
| Butyl benzyl phthalate | <210 | | 210 | 78 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:02 | 1 |
| Carbazole | <210 | | 210 | 100 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:02 | 1 |
| Chrysene | 22 J | | 41 | 11 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:02 | 1 |
| Dibenz(a,h)anthracene | <41 | | 41 | 7.9 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:02 | 1 |
| Dibenzofuran | <210 | | 210 | 48 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:02 | 1 |
| Diethyl phthalate | <210 | | 210 | 69 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:02 | 1 |
| Dimethyl phthalate | <210 | | 210 | 53 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:02 | 1 |
| Di-n-butyl phthalate | <210 | | 210 | 62 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:02 | 1 |
| Di-n-octyl phthalate | <210 | | 210 | 67 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:02 | 1 |
| Fluoranthene | 37 J | | 41 | 7.6 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:02 | 1 |
| Fluorene | <41 | | 41 | 5.7 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:02 | 1 |
| Hexachlorobenzene | <82 | | 82 | 9.5 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:02 | 1 |
| Hexachlorobutadiene | <210 | | 210 | 64 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:02 | 1 |
| Hexachlorocyclopentadiene | <820 | | 820 | 230 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:02 | 1 |
| Hexachloroethane | <210 | | 210 | 62 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:02 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109464-1

Client Sample ID: VL25-1(0-4.5)-033016

Lab Sample ID: 500-109464-13

Date Collected: 03/30/16 12:05

Matrix: Solid

Date Received: 03/30/16 14:45

Percent Solids: 78.7

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Indeno[1,2,3-cd]pyrene | <41 | | 41 | 11 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:02 | 1 |
| Isophorone | <210 | | 210 | 46 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:02 | 1 |
| Naphthalene | <41 | | 41 | 6.3 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:02 | 1 |
| Nitrobenzene | <41 | | 41 | 10 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:02 | 1 |
| N-Nitrosodi-n-propylamine | <82 | | 82 | 50 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:02 | 1 |
| N-Nitrosodiphenylamine | <210 | | 210 | 48 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:02 | 1 |
| Pentachlorophenol | <820 | | 820 | 650 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:02 | 1 |
| Phenanthrene | 11 | J | 41 | 5.7 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:02 | 1 |
| Phenol | <210 | | 210 | 91 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:02 | 1 |
| Pyrene | 23 | J | 41 | 8.1 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 01:02 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2,4,6-Tribromophenol | 75 | | 25 - 130 | | | | 03/30/16 16:59 | 04/06/16 01:02 | 1 |
| 2-Fluorobiphenyl | 60 | | 42 - 115 | | | | 03/30/16 16:59 | 04/06/16 01:02 | 1 |
| 2-Fluorophenol | 71 | | 40 - 130 | | | | 03/30/16 16:59 | 04/06/16 01:02 | 1 |
| Nitrobenzene-d5 | 51 | | 33 - 124 | | | | 03/30/16 16:59 | 04/06/16 01:02 | 1 |
| Phenol-d5 | 70 | | 36 - 123 | | | | 03/30/16 16:59 | 04/06/16 01:02 | 1 |
| Terphenyl-d14 | 83 | | 25 - 150 | | | | 03/30/16 16:59 | 04/06/16 01:02 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.050 | | 0.050 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 16:58 | 1 |
| Barium | 0.31 | J | 0.50 | 0.050 | mg/L | | 04/02/16 13:50 | 04/04/16 16:58 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 04/02/16 13:50 | 04/04/16 16:58 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/02/16 13:50 | 04/04/16 16:58 | 1 |
| Chromium | <0.025 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 16:58 | 1 |
| Cobalt | <0.025 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 16:58 | 1 |
| Copper | <0.025 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 16:58 | 1 |
| Iron | <0.40 | | 0.40 | 0.20 | mg/L | | 04/02/16 13:50 | 04/04/16 16:58 | 1 |
| Lead | <0.0075 | | 0.0075 | 0.0075 | mg/L | | 04/02/16 13:50 | 04/04/16 16:58 | 1 |
| Manganese | 0.13 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 16:58 | 1 |
| Nickel | <0.025 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 16:58 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/02/16 13:50 | 04/04/16 16:58 | 1 |
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 16:58 | 1 |
| Zinc | 0.042 | J | 0.50 | 0.020 | mg/L | | 04/02/16 13:50 | 04/04/16 16:58 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|---------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.045 | J | 0.050 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 19:15 | 1 |
| Barium | 0.34 | J | 0.50 | 0.050 | mg/L | | 04/04/16 08:37 | 04/04/16 19:15 | 1 |
| Beryllium | 0.0046 | | 0.0040 | 0.0040 | mg/L | | 04/04/16 08:37 | 04/04/16 19:15 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/04/16 08:37 | 04/04/16 19:15 | 1 |
| Chromium | 0.11 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 19:15 | 1 |
| Cobalt | 0.035 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 19:15 | 1 |
| Copper | 0.11 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 19:15 | 1 |
| Iron | 100 | | 0.40 | 0.20 | mg/L | | 04/04/16 08:37 | 04/04/16 19:15 | 1 |
| Lead | 0.091 | | 0.0075 | 0.0075 | mg/L | | 04/04/16 08:37 | 04/04/16 19:15 | 1 |
| Manganese | 0.42 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 19:15 | 1 |
| Nickel | 0.11 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 19:15 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/04/16 08:37 | 04/04/16 19:15 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109464-1

Client Sample ID: VL25-1(0-4.5)-033016

Lab Sample ID: 500-109464-13

Date Collected: 03/30/16 12:05

Matrix: Solid

Date Received: 03/30/16 14:45

Percent Solids: 78.7

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|-------------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 19:15 | 1 |
| Zinc | 0.31 | J | 0.50 | 0.020 | mg/L | | 04/04/16 08:37 | 04/04/16 19:15 | 1 |

Method: 6010B - Total Metals

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | <1.2 | | 1.2 | 0.26 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:12 | 1 |
| Arsenic | 7.6 | | 0.62 | 0.29 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:12 | 1 |
| Barium | 37 | | 0.62 | 0.11 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:12 | 1 |
| Beryllium | 0.75 | | 0.25 | 0.054 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:12 | 1 |
| Cadmium | 0.051 | J | 0.12 | 0.036 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:12 | 1 |
| Calcium | 30000 | | 12 | 4.0 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:12 | 1 |
| Chromium | 18 | B | 0.62 | 0.11 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:12 | 1 |
| Cobalt | 10 | | 0.31 | 0.071 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:12 | 1 |
| Copper | 30 | | 0.62 | 0.14 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:12 | 1 |
| Iron | 22000 | B | 12 | 4.8 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:12 | 1 |
| Lead | 33 | | 0.31 | 0.16 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:12 | 1 |
| Magnesium | 18000 | B | 6.2 | 2.5 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:12 | 1 |
| Manganese | 190 | | 0.62 | 0.12 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:12 | 1 |
| Nickel | 33 | | 0.62 | 0.17 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:12 | 1 |
| Potassium | 2500 | B | 31 | 5.1 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:12 | 1 |
| Selenium | 0.39 | J | 0.62 | 0.31 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:12 | 1 |
| Silver | <0.31 | | 0.31 | 0.073 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:12 | 1 |
| Sodium | 600 | B | 62 | 8.2 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:12 | 1 |
| Thallium | <0.62 | | 0.62 | 0.31 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:12 | 1 |
| Vanadium | 22 | | 0.31 | 0.091 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:12 | 1 |
| Zinc | 87 | B | 1.2 | 0.40 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:12 | 1 |

Method: 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/04/16 16:10 | 04/05/16 12:41 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/04/16 16:10 | 04/05/16 11:47 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Mercury | 29 | | 19 | 9.7 | ug/Kg | ☼ | 04/01/16 13:30 | 04/04/16 11:37 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-------------|-----------|-------|-------|------|---|----------|----------------|---------|
| pH | 8.26 | | 0.200 | 0.200 | SU | | | 04/05/16 16:05 | 1 |

Definitions/Glossary

Client: Environmental Design International, Inc.
Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109464-1

Qualifiers

GC/MS VOA

| Qualifier | Qualifier Description |
|-----------|--|
| F1 | MS and/or MSD Recovery is outside acceptance limits. |
| * | LCS or LCSD is outside acceptance limits. |

GC/MS Semi VOA

| Qualifier | Qualifier Description |
|-----------|--|
| F2 | MS/MSD RPD exceeds control limits |
| F1 | MS and/or MSD Recovery is outside acceptance limits. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| E | Result exceeded calibration range. |
| X | Surrogate is outside control limits |

Metals

| Qualifier | Qualifier Description |
|-----------|--|
| F1 | MS and/or MSD Recovery is outside acceptance limits. |
| F2 | MS/MSD RPD exceeds control limits |
| B | Compound was found in the blank and sample. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| F3 | Duplicate RPD exceeds the control limit |
| F5 | Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL. |
| 4 | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |

Glossary

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

Certification Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109464-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|-----------|---------|------------|------------------|-----------------|
| Illinois | NELAP | 5 | 100201 | 04-30-17 |

The following analytes are included in this report, but certification is not offered by the governing authority:

| Analysis Method | Prep Method | Matrix | Analyte |
|-----------------|-------------|--------|----------------------------|
| 8260B | | Solid | 1,3-Dichloropropene, Total |
| 8260B | 5030B | Solid | 1,3-Dichloropropene, Total |
| Moisture | | Solid | Percent Moisture |
| Moisture | | Solid | Percent Solids |

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Report To _____ (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

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

Chain of Custody Record

Lab Job #: 500-109464


Chain of Custody Number: _____

Page 1 of 2

Temperature °C of Cooler: 5.1

| Client | | Client Project # | | Preservative | | Parameter | | Matrix | | Comments | | |
|------------------------|--------|----------------------|----------|---------------|-----------------|---------------|------|--------|--------------|------------------|----|----------|
| EDJ | | 0295.022 | | | | | | | | | | |
| Project Name | | Harvey IL | | Lab Project # | | Lab Project # | | Lab PM | | | | |
| Project Location/State | | Harvey IL | | Lab Project # | | Lab Project # | | Lab PM | | | | |
| Sampler | | Celia Pannier | | Lab PM | | Lab PM | | Lab PM | | | | |
| Lab ID | MS/MSD | Sample ID | Sampling | | # of Containers | Matrix | VOCs | SVOCs | Total Metals | TECH SVOC Metals | pH | Comments |
| | | | Date | Time | | | | | | | | |
| 1 | | R49-1(0-3.4)-033016 | 3/30/16 | 0845 | 2 | S | X | X | X | X | X | |
| 2 | | CB45-1(0-4)-033016 | | 0855 | | | | | | | | |
| 3 | | CB45-2(0-6.6)-033016 | | 0910 | | | | | | | | |
| 4 | | CB33-1(0-4)-033016 | | 0925 | | | | | | | | |
| 5 | | CB33-2(0-4)-033016 | | 0945 | | | | | | | | |
| 6 | | CB33-2(4-7.3)-033016 | | 0950 | | | | | | | | |
| 7 | | CB33-3(0-4)-033016 | | 1000 | | | | | | | | |
| 8 | | CB33-4(0-4)-033016 | | 1025 | | | | | | | | |
| 9 | | CB33-4(4-7.3)-033016 | | 1030 | | | | | | | | |
| 10 | | CB33-4(4-7.3)-033016 | | 1035 | | | X | X | X | X | X | |

Preservative Key
4°
to 4°
to 4°
to 4°
to 4°



500-109464 COC

Turnaround Time Required (Business Days)
 1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other
 Requested Due Date _____

Sample Disposal
 Return to Client Disposal by Lab Archive for _____ Months
 (A fee may be assessed if samples are retained longer than 1 month)

| | | |
|--|--|-----------------------|
| Relinquished By: <u>[Signature]</u> Company: EDJ Date: 3/30/16 Time: 1:25 | Received By: <u>[Signature]</u> Company: TA Date: 3/30/16 Time: 1:25 | Lab Courier: TA |
| Relinquished By: <u>[Signature]</u> Company: TA Date: 3/30/16 Time: 1:45 | Received By: <u>[Signature]</u> Company: TA Date: 03/30/16 Time: 1:45 | Shipped: _____ |
| Relinquished By: _____ Company: _____ Date: _____ Time: _____ | Received By: _____ Company: _____ Date: _____ Time: _____ | Hand Delivered: _____ |

- Matrix Key
- WW - Wastewater
 - W - Water
 - S - Soil
 - SL - Sludge
 - MS - Miscellaneous
 - OL - Oil
 - A - Air
 - SE - Sediment
 - SO - Soil
 - L - Leachate
 - WI - Wipe
 - DW - Drinking Water
 - O - Other

Client Comments: _____

Lab Comments: _____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To _____ (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

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

Chain of Custody Record

Lab Job #: 500-109464
 Chain of Custody Number: _____
 Page 2 of 2
 Temperature °C of Cooler: 5.1

| Client | | Client Project # | | Preservative | | Parameter | | Comments | | | |
|------------------------|--------|----------------------|---------|-----------------|-----------------|-----------|------|---|--------------|------------------|----|
| EDI | | 0295.022 | | | | | | Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other | | | |
| Project Name | | Lab Project # | | # of Containers | | Matrix | | | | | |
| IDOT - Harvey | | | | | | | | | | | |
| Project Location/State | | Lab PM | | Date | | Time | | | | | |
| Harvey IL | | | | | | | | | | | |
| Sampler | | Sampling | | Date | | Time | | | | | |
| Glin Pomeroy | | | | | | | | | | | |
| Lab ID | MS/MSD | Sample ID | Date | Time | # of Containers | Matrix | VOCs | SVOCS | Total Metals | TECO/SPLD Metals | pH |
| 11 | | VL26-1(6-5.2)-033016 | 3/30/16 | 1135 | 2 | S | X | X | X | X | X |
| 12 | | VL26-2(0-5.2)-033016 | | 1150 | | | | | | | |
| 13 | | VL25-1(0-4.5)-033016 | | 1205 | | | | | | | |
| 14 | | CG-1(0-4)-033016 | | 1225 | | | | | | | |
| 15 | | CG-2(0-4)-033016 | | 1245 | | | | | | | |
| 16 | | CG-2(0-4)-033016 D | | 1250 | | | | | | | |
| 17 | | CG-3(0-4)-033016 | | 1300 | | | | | | | |
| 18 | | CG-4(0-4)-033016 | | 1315 | | | | | | | |
| 19 | | CG-5(0-4.5)-033016 | | 1335 | | | X | X | X | X | X |

Turnaround Time Required (Business Days)

___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days ___ Other

Sample Disposal

Requested Due Date _____ Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

| | | | | | | |
|---|---------------|------------|--|----------------|------------|-------------------|
| Relinquished By <i>[Signature]</i> Company: EDI | Date: 3/30/16 | Time: 1425 | Received By <i>[Signature]</i> Company: TA | Date: 3/30/16 | Time: 1425 | Lab Courier TA |
| Relinquished By <i>[Signature]</i> Company: TA | Date: 3/30/16 | Time: 1445 | Received By <i>[Signature]</i> Company: TA | Date: 03/30/16 | Time: 1445 | Shipped |
| Relinquished By | Date | Time | Received By | Date | Time | Hand Delivered |

Matrix Key

WW - Wastewater SE - Sediment
 W - Water SO - Soil
 S - Soil L - Leachate
 SL - Sludge WI - Wipe
 MS - Miscellaneous DW - Drinking Water
 OL - Oil O - Other
 A - Air

Client Comments

Lab Comments:



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

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

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

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

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

I. Source Location Information

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

Project Name: FAU 3597: IL Route 1 (Halsted St) at Vincennes Rd Office Phone Number, if available: _____

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

15240 Vincennes Road, (ISGS Site No. 2553V-26)

City: Phoenix State: IL Zip Code: _____

County: Cook Township: _____

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

Latitude: 41.61191389 Longitude: -87.63634167

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

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

Project Name: FAU 3597: IL Route 1 (Halsted St) at Vincennes

Latitude: 41.61191389 Longitude: -87.63634167

Uncontaminated Site Certification

III. Basis for Certification and Attachments

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

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

LOCATION VL26-2 WAS SAMPLED ADJACENT TO ISGS SITE No. 2553V-26. SEE FIGURE 3-1 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

- 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]:

TEST AMERICA REPORTS - JOB ID: 500-109464-1.
ALSO SEE FIGURE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

I, William F. Karlovitz, P.E. (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: Weston Solutions, Inc.
 Street Address: 300 Circle Plaza; Suite 202
 City: Mundelein State: IL Zip Code: 60060
 Phone: (224) 864-7200

William F. Karlovitz, P.E.
 Printed Name:



Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

17 MAY 2016
 Date:



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

Summary Table of ISGS Site No. 2553V-26
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAU 3597: Illinois Route 1 (Halsted Street) at Vincennes Road
Harvey, Cook County, Illinois

| Field Sample ID | VL26-2(0-5.2)-033016 | Soil Reference Concentrations^A |
|-----------------------------|----------------------|--|
| Sample Date | 3/30/2016 | |
| Location ID | VL26-2 | |
| Depth | 0 - 5.2 | |
| Lab Sample ID | 500-109464-12 | |
| ISGS Site No. | 2553V-26 | |
| Parameter | | |
| Laboratory pH | 8.46 | <6.25,>9.0 |
| VOCs (ug/kg) | None Detected | |
| SVOCs (ug/kg) | None Detected | |
| Total Metals (mg/kg) | | |
| Arsenic, Total | 5.9 J | 11.3 / 13.0 |
| Barium, Total | 32 J | 1500 |
| Beryllium, Total | 0.72 J- | 22 |
| Calcium, Total | 20000 J | --- |
| Chromium, Total | 18 B | 21 |
| Cobalt, Total | 10 J | 20 |
| Copper, Total | 25 J | 2900 |
| Iron, Total | 20000 J | 15000 / 15900 |
| Lead, Total | 17 J | 107 |
| Magnesium, Total | 16000 J | 325000 |
| Manganese, Total | 170 J | 630 / 636 |
| Mercury, Total | 0.033 | 0.89 |
| Nickel, Total | 33 J | 100 |
| Potassium, Total | 2200 J+ | --- |
| Selenium, Total | 0.31 J | 1.3 |
| Sodium, Total | 970 J- | --- |
| Vanadium, Total | 22 J | 550 |
| Zinc, Total | 97 J- | 5100 |
| TCLP Metals (mg/l) | | |
| Arsenic, TCLP | ND | 0.05 |
| Barium, TCLP | 0.24 J | 2 |
| Beryllium, TCLP | ND | 0.004 |
| Chromium, TCLP | ND | 0.1 |
| Cobalt, TCLP | ND | 1 |
| Copper, TCLP | ND | 0.65 |
| Iron, TCLP | ND | 5 |
| Lead, TCLP | ND | 0.0075 |
| Manganese, TCLP | 0.76 | 0.15 |
| Mercury, TCLP | ND | 0.002 |
| Nickel, TCLP | ND | 0.1 |
| Selenium, TCLP | ND | 0.05 |
| Zinc, TCLP | 0.062 J | 5 |
| SPLP Metals (mg/l) | | |
| Arsenic, SPLP | 0.073 | 0.05 |
| Barium, SPLP | 0.71 J+ | 2 |
| Beryllium, SPLP | 0.01 | 0.004 |
| Chromium, SPLP | 0.22 J+ | 0.1 |
| Cobalt, SPLP | 0.076 | 1 |
| Copper, SPLP | 0.2 | 0.65 |
| Iron, SPLP | 200 J+ | 5 |
| Lead, SPLP | 0.13 J+ | 0.0075 |
| Manganese, SPLP | 0.74 J+ | 0.15 |
| Mercury, SPLP | ND | 0.002 |
| Nickel, SPLP | 0.26 | 0.1 |
| Selenium, SPLP | ND | 0.05 |
| Zinc, SPLP | 0.65 | 5 |

Notes:

--- - not applicable or value not available.

^A - Soil reference concentrations from MAC Table. Background values for MSA Counties and Chicago corporate limits are included, as applicable.

B - Constituent detected in the blank and investigative sample.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J+ - Estimated concentration; biased high.

J- - Estimated concentration; biased low.

 Shaded values indicate concentration **exceeds** Reference Concentration.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-109464-1

Client Project/Site: IDOT - Harvey IL Route 113 - WO 041

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

Attn: Ms. Patricia Feeley

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Authorized for release by:
4/8/2016 3:17:01 PM

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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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Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109464-1

Client Sample ID: VL26-2(0-5.2)-033016

Lab Sample ID: 500-109464-12

Date Collected: 03/30/16 11:50

Matrix: Solid

Date Received: 03/30/16 14:45

Percent Solids: 78.8

Method: 8260B - VOC

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Acetone | <25 | | 25 | 4.9 | ug/Kg | ☼ | | 04/04/16 19:18 | 1 |
| Benzene | <6.3 | | 6.3 | 1.4 | ug/Kg | ☼ | | 04/04/16 19:18 | 1 |
| Bromodichloromethane | <6.3 | | 6.3 | 1.1 | ug/Kg | ☼ | | 04/04/16 19:18 | 1 |
| Bromoform | <6.3 | | 6.3 | 1.3 | ug/Kg | ☼ | | 04/04/16 19:18 | 1 |
| Bromomethane | <6.3 | | 6.3 | 2.3 | ug/Kg | ☼ | | 04/04/16 19:18 | 1 |
| Carbon disulfide | <6.3 | | 6.3 | 2.3 | ug/Kg | ☼ | | 04/04/16 19:18 | 1 |
| Carbon tetrachloride | <6.3 | | 6.3 | 1.4 | ug/Kg | ☼ | | 04/04/16 19:18 | 1 |
| Chlorobenzene | <6.3 | | 6.3 | 1.5 | ug/Kg | ☼ | | 04/04/16 19:18 | 1 |
| Chloroethane | <6.3 | | 6.3 | 2.7 | ug/Kg | ☼ | | 04/04/16 19:18 | 1 |
| Chloroform | <6.3 | | 6.3 | 1.2 | ug/Kg | ☼ | | 04/04/16 19:18 | 1 |
| Chloromethane | <6.3 | | 6.3 | 1.5 | ug/Kg | ☼ | | 04/04/16 19:18 | 1 |
| cis-1,2-Dichloroethene | <6.3 | | 6.3 | 1.3 | ug/Kg | ☼ | | 04/04/16 19:18 | 1 |
| cis-1,3-Dichloropropene | <6.3 | | 6.3 | 1.4 | ug/Kg | ☼ | | 04/04/16 19:18 | 1 |
| Dibromochloromethane | <6.3 | | 6.3 | 0.73 | ug/Kg | ☼ | | 04/04/16 19:18 | 1 |
| 1,1-Dichloroethane | <6.3 | | 6.3 | 1.3 | ug/Kg | ☼ | | 04/04/16 19:18 | 1 |
| 1,2-Dichloroethane | <6.3 | | 6.3 | 0.94 | ug/Kg | ☼ | | 04/04/16 19:18 | 1 |
| 1,1-Dichloroethene | <6.3 | | 6.3 | 2.3 | ug/Kg | ☼ | | 04/04/16 19:18 | 1 |
| 1,2-Dichloropropane | <6.3 | | 6.3 | 1.7 | ug/Kg | ☼ | | 04/04/16 19:18 | 1 |
| 1,3-Dichloropropene, Total | <6.3 | | 6.3 | 1.8 | ug/Kg | ☼ | | 04/04/16 19:18 | 1 |
| Ethylbenzene | <6.3 | | 6.3 | 1.6 | ug/Kg | ☼ | | 04/04/16 19:18 | 1 |
| 2-Hexanone | <6.3 | | 6.3 | 2.0 | ug/Kg | ☼ | | 04/04/16 19:18 | 1 |
| Methylene Chloride | <6.3 | | 6.3 | 4.8 | ug/Kg | ☼ | | 04/04/16 19:18 | 1 |
| Methyl Ethyl Ketone | <6.3 | | 6.3 | 2.3 | ug/Kg | ☼ | | 04/04/16 19:18 | 1 |
| methyl isobutyl ketone | <6.3 | | 6.3 | 1.3 | ug/Kg | ☼ | | 04/04/16 19:18 | 1 |
| Methyl tert-butyl ether | <6.3 | | 6.3 | 1.5 | ug/Kg | ☼ | | 04/04/16 19:18 | 1 |
| Styrene | <6.3 | | 6.3 | 1.5 | ug/Kg | ☼ | | 04/04/16 19:18 | 1 |
| 1,1,2,2-Tetrachloroethane | <6.3 | | 6.3 | 1.0 | ug/Kg | ☼ | | 04/04/16 19:18 | 1 |
| Tetrachloroethene | <6.3 | | 6.3 | 1.3 | ug/Kg | ☼ | | 04/04/16 19:18 | 1 |
| Toluene | <6.3 | | 6.3 | 2.2 | ug/Kg | ☼ | | 04/04/16 19:18 | 1 |
| trans-1,2-Dichloroethene | <6.3 | | 6.3 | 1.6 | ug/Kg | ☼ | | 04/04/16 19:18 | 1 |
| trans-1,3-Dichloropropene | <6.3 | | 6.3 | 1.8 | ug/Kg | ☼ | | 04/04/16 19:18 | 1 |
| 1,1,1-Trichloroethane | <6.3 | | 6.3 | 1.5 | ug/Kg | ☼ | | 04/04/16 19:18 | 1 |
| 1,1,2-Trichloroethane | <6.3 | | 6.3 | 1.2 | ug/Kg | ☼ | | 04/04/16 19:18 | 1 |
| Trichloroethene | <6.3 | | 6.3 | 1.7 | ug/Kg | ☼ | | 04/04/16 19:18 | 1 |
| Vinyl chloride | <6.3 | | 6.3 | 1.5 | ug/Kg | ☼ | | 04/04/16 19:18 | 1 |
| Xylenes, Total | <13 | | 13 | 2.3 | ug/Kg | ☼ | | 04/04/16 19:18 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 107 | | 70 - 120 | | 04/04/16 19:18 | 1 |
| Dibromofluoromethane | 112 | | 75 - 120 | | 04/04/16 19:18 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 115 | | 69 - 134 | | 04/04/16 19:18 | 1 |
| Toluene-d8 (Surr) | 112 | | 75 - 123 | | 04/04/16 19:18 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,2,4-Trichlorobenzene | <200 | | 200 | 44 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:34 | 1 |
| 1,2-Dichlorobenzene | <200 | | 200 | 49 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:34 | 1 |
| 1,3-Dichlorobenzene | <200 | | 200 | 46 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:34 | 1 |
| 1,4-Dichlorobenzene | <200 | | 200 | 52 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:34 | 1 |
| 2,2'-oxybis[1-chloropropane] | <200 | | 200 | 47 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:34 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109464-1

Client Sample ID: VL26-2(0-5.2)-033016

Lab Sample ID: 500-109464-12

Date Collected: 03/30/16 11:50

Matrix: Solid

Date Received: 03/30/16 14:45

Percent Solids: 78.8

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol | <400 | | 400 | 93 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:34 | 1 |
| 2,4,6-Trichlorophenol | <400 | | 400 | 140 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:34 | 1 |
| 2,4-Dichlorophenol | <400 | | 400 | 97 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:34 | 1 |
| 2,4-Dimethylphenol | <400 | | 400 | 150 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:34 | 1 |
| 2,4-Dinitrophenol | <820 | | 820 | 720 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:34 | 1 |
| 2,4-Dinitrotoluene | <200 | | 200 | 65 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:34 | 1 |
| 2,6-Dinitrotoluene | <200 | | 200 | 80 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:34 | 1 |
| 2-Chloronaphthalene | <200 | | 200 | 45 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:34 | 1 |
| 2-Chlorophenol | <200 | | 200 | 69 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:34 | 1 |
| 2-Methylnaphthalene | <40 | | 40 | 7.5 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:34 | 1 |
| 2-Methylphenol | <200 | | 200 | 65 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:34 | 1 |
| 2-Nitroaniline | <200 | | 200 | 55 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:34 | 1 |
| 2-Nitrophenol | <400 | | 400 | 96 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:34 | 1 |
| 3 & 4 Methylphenol | <200 | | 200 | 68 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:34 | 1 |
| 3,3'-Dichlorobenzidine | <200 | | 200 | 57 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:34 | 1 |
| 3-Nitroaniline | <400 | | 400 | 130 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:34 | 1 |
| 4,6-Dinitro-2-methylphenol | <820 | | 820 | 330 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:34 | 1 |
| 4-Bromophenyl phenyl ether | <200 | | 200 | 54 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:34 | 1 |
| 4-Chloro-3-methylphenol | <400 | | 400 | 140 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:34 | 1 |
| 4-Chloroaniline | <820 | | 820 | 190 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:34 | 1 |
| 4-Chlorophenyl phenyl ether | <200 | | 200 | 48 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:34 | 1 |
| 4-Nitroaniline | <400 | | 400 | 170 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:34 | 1 |
| 4-Nitrophenol | <820 | | 820 | 390 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:34 | 1 |
| Acenaphthene | <40 | | 40 | 7.3 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:34 | 1 |
| Acenaphthylene | <40 | | 40 | 5.4 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:34 | 1 |
| Anthracene | <40 | | 40 | 6.8 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:34 | 1 |
| Benzo[a]anthracene | <40 | | 40 | 5.5 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:34 | 1 |
| Benzo[a]pyrene | <40 | | 40 | 7.9 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:34 | 1 |
| Benzo[b]fluoranthene | <40 | | 40 | 8.8 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:34 | 1 |
| Benzo[g,h,i]perylene | <40 | | 40 | 13 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:34 | 1 |
| Benzo[k]fluoranthene | <40 | | 40 | 12 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:34 | 1 |
| Bis(2-chloroethoxy)methane | <200 | | 200 | 42 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:34 | 1 |
| Bis(2-chloroethyl)ether | <200 | | 200 | 61 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:34 | 1 |
| Bis(2-ethylhexyl) phthalate | <200 | | 200 | 74 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:34 | 1 |
| Butyl benzyl phthalate | <200 | | 200 | 77 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:34 | 1 |
| Carbazole | <200 | | 200 | 100 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:34 | 1 |
| Chrysene | <40 | | 40 | 11 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:34 | 1 |
| Dibenz(a,h)anthracene | <40 | | 40 | 7.9 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:34 | 1 |
| Dibenzofuran | <200 | | 200 | 48 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:34 | 1 |
| Diethyl phthalate | <200 | | 200 | 69 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:34 | 1 |
| Dimethyl phthalate | <200 | | 200 | 53 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:34 | 1 |
| Di-n-butyl phthalate | <200 | | 200 | 62 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:34 | 1 |
| Di-n-octyl phthalate | <200 | | 200 | 66 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:34 | 1 |
| Fluoranthene | <40 | | 40 | 7.5 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:34 | 1 |
| Fluorene | <40 | | 40 | 5.7 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:34 | 1 |
| Hexachlorobenzene | <82 | | 82 | 9.4 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:34 | 1 |
| Hexachlorobutadiene | <200 | | 200 | 64 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:34 | 1 |
| Hexachlorocyclopentadiene | <820 | | 820 | 230 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:34 | 1 |
| Hexachloroethane | <200 | | 200 | 62 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:34 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109464-1

Client Sample ID: VL26-2(0-5.2)-033016

Lab Sample ID: 500-109464-12

Date Collected: 03/30/16 11:50

Matrix: Solid

Date Received: 03/30/16 14:45

Percent Solids: 78.8

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Indeno[1,2,3-cd]pyrene | <40 | | 40 | 11 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:34 | 1 |
| Isophorone | <200 | | 200 | 46 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:34 | 1 |
| Naphthalene | <40 | | 40 | 6.3 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:34 | 1 |
| Nitrobenzene | <40 | | 40 | 10 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:34 | 1 |
| N-Nitrosodi-n-propylamine | <82 | | 82 | 50 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:34 | 1 |
| N-Nitrosodiphenylamine | <200 | | 200 | 48 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:34 | 1 |
| Pentachlorophenol | <820 | | 820 | 650 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:34 | 1 |
| Phenanthrene | <40 | | 40 | 5.7 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:34 | 1 |
| Phenol | <200 | | 200 | 90 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:34 | 1 |
| Pyrene | <40 | | 40 | 8.1 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:34 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2,4,6-Tribromophenol | 93 | | 25 - 130 | | | | 03/30/16 16:59 | 04/06/16 00:34 | 1 |
| 2-Fluorobiphenyl | 77 | | 42 - 115 | | | | 03/30/16 16:59 | 04/06/16 00:34 | 1 |
| 2-Fluorophenol | 66 | | 40 - 130 | | | | 03/30/16 16:59 | 04/06/16 00:34 | 1 |
| Nitrobenzene-d5 | 77 | | 33 - 124 | | | | 03/30/16 16:59 | 04/06/16 00:34 | 1 |
| Phenol-d5 | 76 | | 36 - 123 | | | | 03/30/16 16:59 | 04/06/16 00:34 | 1 |
| Terphenyl-d14 | 100 | | 25 - 150 | | | | 03/30/16 16:59 | 04/06/16 00:34 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.050 | | 0.050 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 16:53 | 1 |
| Barium | 0.24 | J | 0.50 | 0.050 | mg/L | | 04/02/16 13:50 | 04/04/16 16:53 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 04/02/16 13:50 | 04/04/16 16:53 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/02/16 13:50 | 04/04/16 16:53 | 1 |
| Chromium | <0.025 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 16:53 | 1 |
| Cobalt | <0.025 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 16:53 | 1 |
| Copper | <0.025 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 16:53 | 1 |
| Iron | <0.40 | | 0.40 | 0.20 | mg/L | | 04/02/16 13:50 | 04/04/16 16:53 | 1 |
| Lead | <0.0075 | | 0.0075 | 0.0075 | mg/L | | 04/02/16 13:50 | 04/04/16 16:53 | 1 |
| Manganese | 0.76 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 16:53 | 1 |
| Nickel | <0.025 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 16:53 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/02/16 13:50 | 04/04/16 16:53 | 1 |
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 16:53 | 1 |
| Zinc | 0.062 | J | 0.50 | 0.020 | mg/L | | 04/02/16 13:50 | 04/04/16 16:53 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.073 | | 0.050 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 19:10 | 1 |
| Barium | 0.71 | | 0.50 | 0.050 | mg/L | | 04/04/16 08:37 | 04/04/16 19:10 | 1 |
| Beryllium | 0.010 | | 0.0040 | 0.0040 | mg/L | | 04/04/16 08:37 | 04/04/16 19:10 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/04/16 08:37 | 04/04/16 19:10 | 1 |
| Chromium | 0.22 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 19:10 | 1 |
| Cobalt | 0.076 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 19:10 | 1 |
| Copper | 0.20 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 19:10 | 1 |
| Iron | 200 | | 0.40 | 0.20 | mg/L | | 04/04/16 08:37 | 04/04/16 19:10 | 1 |
| Lead | 0.13 | | 0.038 | 0.038 | mg/L | | 04/04/16 08:37 | 04/06/16 15:10 | 5 |
| Manganese | 0.74 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 19:10 | 1 |
| Nickel | 0.26 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 19:10 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/04/16 08:37 | 04/04/16 19:10 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109464-1

Client Sample ID: VL26-2(0-5.2)-033016

Lab Sample ID: 500-109464-12

Date Collected: 03/30/16 11:50

Matrix: Solid

Date Received: 03/30/16 14:45

Percent Solids: 78.8

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|-------------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 19:10 | 1 |
| Zinc | 0.65 | | 0.50 | 0.020 | mg/L | | 04/04/16 08:37 | 04/04/16 19:10 | 1 |

Method: 6010B - Total Metals

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | <1.1 | | 1.1 | 0.24 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:07 | 1 |
| Arsenic | 5.9 | | 0.57 | 0.27 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:07 | 1 |
| Barium | 32 | | 0.57 | 0.10 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:07 | 1 |
| Beryllium | 0.72 | | 0.23 | 0.050 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:07 | 1 |
| Cadmium | <0.11 | | 0.11 | 0.033 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:07 | 1 |
| Calcium | 20000 | | 11 | 3.7 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:07 | 1 |
| Chromium | 18 | B | 0.57 | 0.099 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:07 | 1 |
| Cobalt | 10 | | 0.29 | 0.065 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:07 | 1 |
| Copper | 25 | | 0.57 | 0.12 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:07 | 1 |
| Iron | 20000 | B | 11 | 4.4 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:07 | 1 |
| Lead | 17 | | 0.29 | 0.14 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:07 | 1 |
| Magnesium | 16000 | B | 5.7 | 2.3 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:07 | 1 |
| Manganese | 170 | | 0.57 | 0.11 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:07 | 1 |
| Nickel | 33 | | 0.57 | 0.16 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:07 | 1 |
| Potassium | 2200 | B | 29 | 4.7 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:07 | 1 |
| Selenium | 0.31 | J | 0.57 | 0.28 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:07 | 1 |
| Silver | <0.29 | | 0.29 | 0.067 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:07 | 1 |
| Sodium | 970 | B | 57 | 7.6 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:07 | 1 |
| Thallium | <0.57 | | 0.57 | 0.28 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:07 | 1 |
| Vanadium | 22 | | 0.29 | 0.084 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:07 | 1 |
| Zinc | 97 | B | 1.1 | 0.36 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 19:07 | 1 |

Method: 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/04/16 16:10 | 04/05/16 12:39 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/04/16 16:10 | 04/05/16 11:41 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Mercury | 33 | | 19 | 10 | ug/Kg | ☼ | 04/01/16 13:30 | 04/04/16 11:30 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-------------|-----------|-------|-------|------|---|----------|----------------|---------|
| pH | 8.46 | | 0.200 | 0.200 | SU | | | 04/05/16 16:02 | 1 |

Definitions/Glossary

Client: Environmental Design International, Inc.
Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109464-1

Qualifiers

GC/MS VOA

| Qualifier | Qualifier Description |
|-----------|--|
| F1 | MS and/or MSD Recovery is outside acceptance limits. |
| * | LCS or LCSD is outside acceptance limits. |

GC/MS Semi VOA

| Qualifier | Qualifier Description |
|-----------|--|
| F2 | MS/MSD RPD exceeds control limits |
| F1 | MS and/or MSD Recovery is outside acceptance limits. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| E | Result exceeded calibration range. |
| X | Surrogate is outside control limits |

Metals

| Qualifier | Qualifier Description |
|-----------|--|
| F1 | MS and/or MSD Recovery is outside acceptance limits. |
| F2 | MS/MSD RPD exceeds control limits |
| B | Compound was found in the blank and sample. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| F3 | Duplicate RPD exceeds the control limit |
| F5 | Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL. |
| 4 | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |

Glossary

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

Certification Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109464-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|-----------|---------|------------|------------------|-----------------|
| Illinois | NELAP | 5 | 100201 | 04-30-17 |

The following analytes are included in this report, but certification is not offered by the governing authority:

| Analysis Method | Prep Method | Matrix | Analyte |
|-----------------|-------------|--------|----------------------------|
| 8260B | | Solid | 1,3-Dichloropropene, Total |
| 8260B | 5030B | Solid | 1,3-Dichloropropene, Total |
| Moisture | | Solid | Percent Moisture |
| Moisture | | Solid | Percent Solids |

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Report To _____ (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

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


Chain of Custody Record

Lab Job #: 500-109464

Chain of Custody Number: _____

Page 1 of 2

Temperature °C of Cooler: 5.1

| Client | | Client Project # | | Preservative | | Parameter | | Matrix | | Comments | |
|---------------|--------|------------------------|----------|---------------|-----------------|---------------|------|--------|--------------|--|----|
| EDJ | | 0295.022 | | | | | | | | | |
| Project Name | | Project Location/State | | Lab Project # | | Sampler | | Lab PM | | Preservative Key | |
| IDOT - Harvey | | Harvey IL | | | | Celia Pannier | | | |  500-109464 COC 4° to 4° > 4° > 4° pl to 4° | |
| Lab ID | MS/MSD | Sample ID | Sampling | | # of Containers | Matrix | VOCs | SVOCs | Total Metals | TEC/PAH/PCB Metals | pH |
| | | | Date | Time | | | | | | | |
| 1 | | R49-1(0-3.4)-033016 | 3/30/16 | 0845 | 2 | S | X | X | X | X | X |
| 2 | | CB45-1(0-4)-033016 | | 0855 | | | | | | | |
| 3 | | CB45-2(0.6.6)-033016 | | 0910 | | | | | | | |
| 4 | | CB33-1(0-4)-033016 | | 0925 | | | | | | | |
| 5 | | CB33-2(0-4)-033016 | | 0945 | | | | | | | |
| 6 | | CB33-2(4-7.3)-033016 | | 0950 | | | | | | | |
| 7 | | CB33-3(0-4)-033016 | | 1000 | | | | | | | |
| 8 | | CB33-4(0-4)-033016 | | 1025 | | | | | | | |
| 9 | | CB33-4(4-7.3)-033016 | | 1030 | | | | | | | |
| 10 | | CB33-4(4-7.3)-033016D | | 1035 | | | X | X | X | X | X |


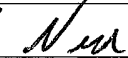
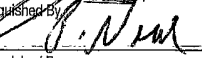

Turnaround Time Required (Business Days)

___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days ___ Other

Requested Due Date _____

Sample Disposal

Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

| | | | | | | | | |
|---|----------------|---------------|-------------|---|-----------------|----------------|-------------|-----------------------|
| Relinquished By:  | Company: EDJ | Date: 3/30/16 | Time: 1:25 | Received By:  | Company: TA | Date: 3/30/16 | Time: 1:25 | Lab Courier: TA |
| Relinquished By:  | Company: TA | Date: 3/30/16 | Time: 1:45 | Received By:  | Company: TA-CHI | Date: 03/30/16 | Time: 1:45 | Shipped: _____ |
| Relinquished By: _____ | Company: _____ | Date: _____ | Time: _____ | Received By: _____ | Company: _____ | Date: _____ | Time: _____ | Hand Delivered: _____ |

Matrix Key
 WW - Wastewater SE - Sediment
 W - Water SO - Soil
 S - Soil L - Leachate
 SL - Sludge WI - Wipe
 MS - Miscellaneous DW - Drinking Water
 OL - Oil O - Other
 A - Air

Client Comments:

Lab Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To _____ (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

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

Chain of Custody Record

Lab Job #: 500-109464
 Chain of Custody Number: _____
 Page 2 of 2
 Temperature °C of Cooler: 5.1

| Client | | Client Project # | | Preservative | | Parameter | | Comments | | | |
|------------------------|--------|----------------------|---------|-----------------|-----------------|-----------|------|---|--------------|------------------|----|
| EDI | | 0295.022 | | | | | | Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other | | | |
| Project Name | | Lab Project # | | # of Containers | | Matrix | | | | | |
| IDOT - Harvey | | | | | | | | | | | |
| Project Location/State | | Lab PM | | Date | | Time | | | | | |
| Harvey IL | | | | | | | | | | | |
| Sampler | | Sample ID | | Date | | Time | | | | | |
| Glin Pomeroy | | | | | | | | | | | |
| Lab ID | MS/MSD | Sample ID | Date | Time | # of Containers | Matrix | VOCs | SVOCS | Total Metals | TECO/SPLD Metals | pH |
| 11 | | VL26-1(6-5.2)-033016 | 3/30/16 | 1135 | 2 | S | X | X | X | X | X |
| 12 | | VL26-2(0-5.2)-033016 | | 1150 | | | | | | | |
| 13 | | VL25-1(0-4.5)-033016 | | 1205 | | | | | | | |
| 14 | | CG-1(0-4)-033016 | | 1225 | | | | | | | |
| 15 | | CG-2(0-4)-033016 | | 1245 | | | | | | | |
| 16 | | CG-2(0-4)-033016 D | | 1250 | | | | | | | |
| 17 | | CG-3(0-4)-033016 | | 1300 | | | | | | | |
| 18 | | CG-4(0-4)-033016 | | 1315 | | | | | | | |
| 19 | | CG-5(0-4.5)-033016 | | 1335 | | | X | X | X | X | X |

Turnaround Time Required (Business Days)

___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days ___ Other

Sample Disposal

Requested Due Date _____ Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

| | | | | | | |
|---|---------------|------------|--|----------------|------------|-------------------|
| Relinquished By <i>[Signature]</i> Company: EDI | Date: 3/30/16 | Time: 1425 | Received By <i>[Signature]</i> Company: TA | Date: 3/30/16 | Time: 1425 | Lab Courier TA |
| Relinquished By <i>[Signature]</i> Company: TA | Date: 3/30/16 | Time: 1445 | Received By <i>[Signature]</i> Company: TA | Date: 03/30/16 | Time: 1445 | Shipped |
| Relinquished By | Date | Time | Received By | Date | Time | Hand Delivered |

Matrix Key

WW - Wastewater SE - Sediment
 W - Water SO - Soil
 S - Soil L - Leachate
 SL - Sludge WI - Wipe
 MS - Miscellaneous DW - Drinking Water
 OL - Oil O - Other
 A - Air

Client Comments

Lab Comments:



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

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

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

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

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

I. Source Location Information

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

Project Name: FAU 3597: IL Route 1 (Halsted St) at Vincennes Rd Office Phone Number, if available: _____

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

15303 to 15305 S. Halsted Street, (ISGS Site No. 2553V-33)

City: Phoenix State: IL Zip Code: _____

County: Cook Township: _____

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

Latitude: 41.61123889 Longitude: -87.63635556

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

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

Project Name: FAU 3597: IL Route 1 (Halsted St) at Vincennes

Latitude: 41.61123889 Longitude: -87.63635556

Uncontaminated Site Certification

III. Basis for Certification and Attachments

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

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

LOCATIONS CB33-1, CB33-3, AND CB33-4 WERE SAMPLED ADJACENT TO ISGS SITE No. 2553V-33. SEE FIGURE 3-1 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

- 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]:

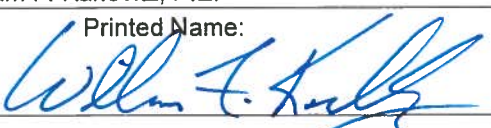
TEST AMERICA REPORTS - JOB ID: 500-109464-1.
ALSO SEE FIGURE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

I, William F. Karlovitz, P.E. (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: Weston Solutions, Inc.
 Street Address: 300 Circle Plaza; Suite 202
 City: Mundelein State: IL Zip Code: 60060
 Phone: (224) 864-7200

William F. Karlovitz, P.E.
 Printed Name:

 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

17 May 2016
 Date:



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

Summary Table of ISGS Site No. 2553V-33
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAU 3597: Illinois Route 1 (Halsted Street) at Vincennes Road
Harvey, Cook County, Illinois

| Field Sample ID | CB33-1(0-4)-033016 | CB33-3(0-4)-033016 | CB33-4(0-4)-033016 | CB33-4(4-7.3)-033016 | CB33-4(4-7.3)-033016 | Soil Reference Concentrations ^A |
|-----------------------------|--------------------|--------------------|--------------------|----------------------|----------------------|--|
| Sample Date | 3/30/2016 | 3/30/2016 | 3/30/2016 | 3/30/2016 | 3/30/2016 | |
| Location ID | CB33-1 | CB33-3 | CB33-4 | CB33-4 | CB33-4 | |
| Depth | 0 - 4 | 0 - 4 | 0 - 4 | 4 - 7.3 | 4 - 7.3 | |
| Lab Sample ID | 500-109464-4 | 500-109464-7 | 500-109464-8 | 500-109464-9 | 500-109464-10 | |
| ISGS Site No. | 2553V-33 | 2553V-33 | 2553V-33 | 2553V-33 | 2553V-33 | |
| Parameter | | | | | | |
| Laboratory pH | 7.86 | 7.71 | 8.49 | 8.77 | 8.46 | <6.25,>9.0 |
| VOCs (ug/kg) | | | | | | |
| Acetone | ND | ND | 57 | 36 | 47 | 25000 |
| SVOCs (ug/kg) | | | | | | |
| 2-Methylnaphthalene | ND | ND | 28 J | ND | 73 | --- |
| Acenaphthene | ND | ND | 15 J | ND | ND | 570000 |
| Chrysene | ND | 11 J | ND | ND | 11 J | 88000 |
| Naphthalene, SVOC | ND | ND | 170 | ND | ND | 1800 |
| Phenanthrene | 14 J | ND | ND | 11 J | 46 | --- |
| Pyrene | ND | ND | ND | ND | 13 J | 2300000 |
| Total Metals (mg/kg) | | | | | | |
| Antimony, Total | 0.24 J | ND | ND | ND | 0.26 J | 5 |
| Arsenic, Total | 7.2 J | 7.2 J | 8.1 J | 7.7 J | 7 J | 11.3 / 13.0 |
| Barium, Total | 24 J | 44 J | 51 J | 30 J | 27 J | 1500 |
| Beryllium, Total | 0.54 J- | 0.85 J- | 0.87 J- | 0.63 J- | 0.57 J- | 22 |
| Cadmium, Total | ND | ND | ND | ND | ND | 5.2 |
| Calcium, Total | 12000 J | 13000 J | 4800 J | 54000 J | 64000 J | --- |
| Chromium, Total | 12 B | 19 B | 21 B | 15 B | 15 B | 21 |
| Cobalt, Total | 9.2 J | 13 J | 16 J | 12 J | 8.9 J | 20 |
| Copper, Total | 14 J | 21 J | 19 J | 21 J | 20 J | 2900 |
| Iron, Total | 16000 J | 26000 J | 20000 J | 18000 J | 19000 J | 15000 / 15900 |
| Lead, Total | 13 J | 17 J | 17 J | 15 J | 13 J | 107 |
| Magnesium, Total | 9100 J | 10000 J | 5500 J | 21000 J | 19000 J | 325000 |
| Manganese, Total | 130 J | 230 J | 320 J | 250 J | 240 J | 630 / 636 |
| Mercury, Total | 0.024 | 0.033 | 0.017 J | 0.021 | 0.026 | 0.89 |
| Nickel, Total | 22 J | 36 J | 41 J | 32 J | 31 J | 100 |
| Potassium, Total | 1400 J+ | 2300 J+ | 2200 J+ | 2400 J+ | 2100 J+ | --- |
| Selenium, Total | ND | ND | 0.46 J | ND | ND | 1.3 |
| Sodium, Total | 340 J- | 480 J- | 1000 J- | 590 J- | 790 J- | --- |
| Vanadium, Total | 19 J | 25 J | 24 J | 17 J | 17 J | 550 |
| Zinc, Total | 40 J- | 67 J- | 84 J- | 56 J- | 58 J- | 5100 |

Summary Table of ISGS Site No. 2553V-33
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAU 3597: Illinois Route 1 (Halsted Street) at Vincennes Road
Harvey, Cook County, Illinois

| Field Sample ID | CB33-1(0-4)-033016 | CB33-3(0-4)-033016 | CB33-4(0-4)-033016 | CB33-4(4-7.3)-033016 | CB33-4(4-7.3)-033016 | Soil Reference Concentrations ^A |
|---------------------------|--------------------|--------------------|--------------------|----------------------|----------------------|--|
| Sample Date | 3/30/2016 | 3/30/2016 | 3/30/2016 | 3/30/2016 | 3/30/2016 | |
| Location ID | CB33-1 | CB33-3 | CB33-4 | CB33-4 | CB33-4 | |
| Depth | 0 - 4 | 0 - 4 | 0 - 4 | 4 - 7.3 | 4 - 7.3 | |
| Lab Sample ID | 500-109464-4 | 500-109464-7 | 500-109464-8 | 500-109464-9 | 500-109464-10 | |
| ISGS Site No. | 2553V-33 | 2553V-33 | 2553V-33 | 2553V-33 | 2553V-33 | |
| Parameter | | | | | | |
| TCLP Metals (mg/l) | | | | | | |
| Arsenic, TCLP | ND | ND | ND | ND | ND | 0.05 |
| Barium, TCLP | 0.064 J | 0.2 J | 0.32 J | 0.29 J | 0.27 J | 2 |
| Beryllium, TCLP | ND | ND | ND | ND | ND | 0.004 |
| Cadmium, TCLP | ND | ND | ND | ND | ND | 0.005 |
| Chromium, TCLP | ND | ND | ND | ND | ND | 0.1 |
| Cobalt, TCLP | ND | ND | 0.013 J | 0.012 J | ND | 1 |
| Copper, TCLP | ND | ND | ND | ND | ND | 0.65 |
| Iron, TCLP | 0.22 J | ND | ND | ND | ND | 5 |
| Lead, TCLP | ND | ND | ND | ND | ND | 0.0075 |
| Manganese, TCLP | 0.021 J | 1.5 | 3.7 | 2.2 | 2.4 | 0.15 |
| Mercury, TCLP | ND | ND | ND | ND | ND | 0.002 |
| Nickel, TCLP | ND | ND | 0.011 J | 0.024 J | 0.012 J | 0.1 |
| Selenium, TCLP | ND | ND | ND | ND | ND | 0.05 |
| Zinc, TCLP | ND | ND | ND | 0.023 J | ND | 5 |
| SPLP Metals (mg/l) | | | | | | |
| Arsenic, SPLP | 0.11 | 0.056 | 0.062 | 0.049 J | 0.042 J | 0.05 |
| Barium, SPLP | 0.59 J+ | 0.48 J | 0.75 J+ | 0.38 J | 0.38 J | 2 |
| Beryllium, SPLP | 0.01 | 0.0076 | 0.0097 | 0.0058 | 0.0053 | 0.004 |
| Cadmium, SPLP | ND | ND | ND | ND | ND | 0.005 |
| Chromium, SPLP | 0.23 J+ | 0.18 J+ | 0.22 J+ | 0.13 J+ | 0.11 J+ | 0.1 |
| Cobalt, SPLP | 0.081 | 0.068 | 0.099 | 0.056 | 0.056 | 1 |
| Copper, SPLP | 0.18 | 0.14 | 0.2 | 0.14 | 0.14 | 0.65 |
| Iron, SPLP | 250 J+ | 170 J+ | 190 J+ | 120 J+ | 110 J+ | 5 |
| Lead, SPLP | 0.15 J+ | 0.085 J+ | 0.14 J+ | 0.098 J+ | 0.078 J+ | 0.0075 |
| Manganese, SPLP | 0.72 J+ | 0.78 J+ | 1.7 J+ | 1 J+ | 1.2 J+ | 0.15 |
| Mercury, SPLP | ND | ND | ND | ND | ND | 0.002 |
| Nickel, SPLP | 0.26 | 0.19 | 0.26 | 0.16 | 0.15 | 0.1 |
| Selenium, SPLP | ND | ND | ND | ND | ND | 0.05 |
| Zinc, SPLP | 0.48 J | 0.36 J | 0.46 J | 0.31 J | 0.29 J | 5 |

Notes:

--- - not applicable or value not available.

^A - Soil reference concentrations from MAC Table. Background values for MSA Counties and Chicago corporate limits are included, as applicable.

B - Constituent detected in the blank and investigative sample.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J+ - Estimated concentration; biased high.

J- - Estimated concentration; biased low.

 Shaded values indicate concentration **exceeds** Reference Concentration.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-109464-1

Client Project/Site: IDOT - Harvey IL Route 113 - WO 041

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

Attn: Ms. Patricia Feeley

Jodie Bracken

Authorized for release by:
4/8/2016 3:17:01 PM

Jodie Bracken, Project Management Assistant II
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Designee for

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

Review your project
results through
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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.

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

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109464-1

Client Sample ID: CB33-1(0-4)-033016

Lab Sample ID: 500-109464-4

Date Collected: 03/30/16 09:25

Matrix: Solid

Date Received: 03/30/16 14:45

Percent Solids: 83.7

Method: 8260B - VOC

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Acetone | <24 | | 24 | 4.6 | ug/Kg | ☼ | | 04/04/16 16:06 | 1 |
| Benzene | <6.0 | | 6.0 | 1.3 | ug/Kg | ☼ | | 04/04/16 16:06 | 1 |
| Bromodichloromethane | <6.0 | | 6.0 | 1.0 | ug/Kg | ☼ | | 04/04/16 16:06 | 1 |
| Bromoform | <6.0 | | 6.0 | 1.2 | ug/Kg | ☼ | | 04/04/16 16:06 | 1 |
| Bromomethane | <6.0 | | 6.0 | 2.2 | ug/Kg | ☼ | | 04/04/16 16:06 | 1 |
| Carbon disulfide | <6.0 | | 6.0 | 2.2 | ug/Kg | ☼ | | 04/04/16 16:06 | 1 |
| Carbon tetrachloride | <6.0 | | 6.0 | 1.3 | ug/Kg | ☼ | | 04/04/16 16:06 | 1 |
| Chlorobenzene | <6.0 | | 6.0 | 1.4 | ug/Kg | ☼ | | 04/04/16 16:06 | 1 |
| Chloroethane | <6.0 | | 6.0 | 2.5 | ug/Kg | ☼ | | 04/04/16 16:06 | 1 |
| Chloroform | <6.0 | | 6.0 | 1.2 | ug/Kg | ☼ | | 04/04/16 16:06 | 1 |
| Chloromethane | <6.0 | | 6.0 | 1.4 | ug/Kg | ☼ | | 04/04/16 16:06 | 1 |
| cis-1,2-Dichloroethene | <6.0 | | 6.0 | 1.2 | ug/Kg | ☼ | | 04/04/16 16:06 | 1 |
| cis-1,3-Dichloropropene | <6.0 | | 6.0 | 1.4 | ug/Kg | ☼ | | 04/04/16 16:06 | 1 |
| Dibromochloromethane | <6.0 | | 6.0 | 0.69 | ug/Kg | ☼ | | 04/04/16 16:06 | 1 |
| 1,1-Dichloroethane | <6.0 | | 6.0 | 1.2 | ug/Kg | ☼ | | 04/04/16 16:06 | 1 |
| 1,2-Dichloroethane | <6.0 | | 6.0 | 0.88 | ug/Kg | ☼ | | 04/04/16 16:06 | 1 |
| 1,1-Dichloroethene | <6.0 | | 6.0 | 2.2 | ug/Kg | ☼ | | 04/04/16 16:06 | 1 |
| 1,2-Dichloropropane | <6.0 | | 6.0 | 1.6 | ug/Kg | ☼ | | 04/04/16 16:06 | 1 |
| 1,3-Dichloropropene, Total | <6.0 | | 6.0 | 1.7 | ug/Kg | ☼ | | 04/04/16 16:06 | 1 |
| Ethylbenzene | <6.0 | | 6.0 | 1.5 | ug/Kg | ☼ | | 04/04/16 16:06 | 1 |
| 2-Hexanone | <6.0 | | 6.0 | 1.9 | ug/Kg | ☼ | | 04/04/16 16:06 | 1 |
| Methylene Chloride | <6.0 | | 6.0 | 4.5 | ug/Kg | ☼ | | 04/04/16 16:06 | 1 |
| Methyl Ethyl Ketone | <6.0 | | 6.0 | 2.1 | ug/Kg | ☼ | | 04/04/16 16:06 | 1 |
| methyl isobutyl ketone | <6.0 | | 6.0 | 1.2 | ug/Kg | ☼ | | 04/04/16 16:06 | 1 |
| Methyl tert-butyl ether | <6.0 | | 6.0 | 1.4 | ug/Kg | ☼ | | 04/04/16 16:06 | 1 |
| Styrene | <6.0 | | 6.0 | 1.4 | ug/Kg | ☼ | | 04/04/16 16:06 | 1 |
| 1,1,2,2-Tetrachloroethane | <6.0 | | 6.0 | 0.95 | ug/Kg | ☼ | | 04/04/16 16:06 | 1 |
| Tetrachloroethene | <6.0 | | 6.0 | 1.2 | ug/Kg | ☼ | | 04/04/16 16:06 | 1 |
| Toluene | <6.0 | | 6.0 | 2.1 | ug/Kg | ☼ | | 04/04/16 16:06 | 1 |
| trans-1,2-Dichloroethene | <6.0 | | 6.0 | 1.5 | ug/Kg | ☼ | | 04/04/16 16:06 | 1 |
| trans-1,3-Dichloropropene | <6.0 | | 6.0 | 1.7 | ug/Kg | ☼ | | 04/04/16 16:06 | 1 |
| 1,1,1-Trichloroethane | <6.0 | | 6.0 | 1.4 | ug/Kg | ☼ | | 04/04/16 16:06 | 1 |
| 1,1,2-Trichloroethane | <6.0 | | 6.0 | 1.2 | ug/Kg | ☼ | | 04/04/16 16:06 | 1 |
| Trichloroethene | <6.0 | | 6.0 | 1.6 | ug/Kg | ☼ | | 04/04/16 16:06 | 1 |
| Vinyl chloride | <6.0 | | 6.0 | 1.4 | ug/Kg | ☼ | | 04/04/16 16:06 | 1 |
| Xylenes, Total | <12 | | 12 | 2.2 | ug/Kg | ☼ | | 04/04/16 16:06 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 104 | | 70 - 120 | | 04/04/16 16:06 | 1 |
| Dibromofluoromethane | 113 | | 75 - 120 | | 04/04/16 16:06 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 114 | | 69 - 134 | | 04/04/16 16:06 | 1 |
| Toluene-d8 (Surr) | 113 | | 75 - 123 | | 04/04/16 16:06 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,2,4-Trichlorobenzene | <190 | | 190 | 42 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:20 | 1 |
| 1,2-Dichlorobenzene | <190 | | 190 | 46 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:20 | 1 |
| 1,3-Dichlorobenzene | <190 | | 190 | 43 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:20 | 1 |
| 1,4-Dichlorobenzene | <190 | | 190 | 49 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:20 | 1 |
| 2,2'-oxybis[1-chloropropane] | <190 | | 190 | 45 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:20 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109464-1

Client Sample ID: CB33-1(0-4)-033016

Lab Sample ID: 500-109464-4

Date Collected: 03/30/16 09:25

Matrix: Solid

Date Received: 03/30/16 14:45

Percent Solids: 83.7

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol | <380 | | 380 | 88 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:20 | 1 |
| 2,4,6-Trichlorophenol | <380 | | 380 | 130 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:20 | 1 |
| 2,4-Dichlorophenol | <380 | | 380 | 92 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:20 | 1 |
| 2,4-Dimethylphenol | <380 | | 380 | 150 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:20 | 1 |
| 2,4-Dinitrophenol | <780 | | 780 | 680 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:20 | 1 |
| 2,4-Dinitrotoluene | <190 | | 190 | 61 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:20 | 1 |
| 2,6-Dinitrotoluene | <190 | | 190 | 76 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:20 | 1 |
| 2-Chloronaphthalene | <190 | | 190 | 43 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:20 | 1 |
| 2-Chlorophenol | <190 | | 190 | 66 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:20 | 1 |
| 2-Methylnaphthalene | <38 | | 38 | 7.1 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:20 | 1 |
| 2-Methylphenol | <190 | | 190 | 62 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:20 | 1 |
| 2-Nitroaniline | <190 | | 190 | 52 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:20 | 1 |
| 2-Nitrophenol | <380 | | 380 | 91 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:20 | 1 |
| 3 & 4 Methylphenol | <190 | | 190 | 64 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:20 | 1 |
| 3,3'-Dichlorobenzidine | <190 | | 190 | 54 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:20 | 1 |
| 3-Nitroaniline | <380 | | 380 | 120 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:20 | 1 |
| 4,6-Dinitro-2-methylphenol | <780 | | 780 | 310 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:20 | 1 |
| 4-Bromophenyl phenyl ether | <190 | | 190 | 51 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:20 | 1 |
| 4-Chloro-3-methylphenol | <380 | | 380 | 130 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:20 | 1 |
| 4-Chloroaniline | <780 | | 780 | 180 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:20 | 1 |
| 4-Chlorophenyl phenyl ether | <190 | | 190 | 45 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:20 | 1 |
| 4-Nitroaniline | <380 | | 380 | 160 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:20 | 1 |
| 4-Nitrophenol | <780 | | 780 | 370 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:20 | 1 |
| Acenaphthene | <38 | | 38 | 6.9 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:20 | 1 |
| Acenaphthylene | <38 | | 38 | 5.1 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:20 | 1 |
| Anthracene | <38 | | 38 | 6.4 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:20 | 1 |
| Benzo[a]anthracene | <38 | | 38 | 5.2 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:20 | 1 |
| Benzo[a]pyrene | <38 | | 38 | 7.5 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:20 | 1 |
| Benzo[b]fluoranthene | <38 | | 38 | 8.3 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:20 | 1 |
| Benzo[g,h,i]perylene | <38 | | 38 | 12 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:20 | 1 |
| Benzo[k]fluoranthene | <38 | | 38 | 11 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:20 | 1 |
| Bis(2-chloroethoxy)methane | <190 | | 190 | 39 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:20 | 1 |
| Bis(2-chloroethyl)ether | <190 | | 190 | 58 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:20 | 1 |
| Bis(2-ethylhexyl) phthalate | <190 | | 190 | 70 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:20 | 1 |
| Butyl benzyl phthalate | <190 | | 190 | 73 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:20 | 1 |
| Carbazole | <190 | | 190 | 96 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:20 | 1 |
| Chrysene | <38 | | 38 | 11 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:20 | 1 |
| Dibenz(a,h)anthracene | <38 | | 38 | 7.4 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:20 | 1 |
| Dibenzofuran | <190 | | 190 | 45 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:20 | 1 |
| Diethyl phthalate | <190 | | 190 | 65 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:20 | 1 |
| Dimethyl phthalate | <190 | | 190 | 50 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:20 | 1 |
| Di-n-butyl phthalate | <190 | | 190 | 59 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:20 | 1 |
| Di-n-octyl phthalate | <190 | | 190 | 63 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:20 | 1 |
| Fluoranthene | <38 | | 38 | 7.1 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:20 | 1 |
| Fluorene | <38 | | 38 | 5.4 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:20 | 1 |
| Hexachlorobenzene | <78 | | 78 | 8.9 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:20 | 1 |
| Hexachlorobutadiene | <190 | | 190 | 61 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:20 | 1 |
| Hexachlorocyclopentadiene | <780 | | 780 | 220 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:20 | 1 |
| Hexachloroethane | <190 | | 190 | 59 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:20 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109464-1

Client Sample ID: CB33-1(0-4)-033016

Lab Sample ID: 500-109464-4

Date Collected: 03/30/16 09:25

Matrix: Solid

Date Received: 03/30/16 14:45

Percent Solids: 83.7

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Indeno[1,2,3-cd]pyrene | <38 | | 38 | 10 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:20 | 1 |
| Isophorone | <190 | | 190 | 43 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:20 | 1 |
| Naphthalene | <38 | | 38 | 5.9 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:20 | 1 |
| Nitrobenzene | <38 | | 38 | 9.6 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:20 | 1 |
| N-Nitrosodi-n-propylamine | <78 | | 78 | 47 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:20 | 1 |
| N-Nitrosodiphenylamine | <190 | | 190 | 45 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:20 | 1 |
| Pentachlorophenol | <780 | | 780 | 620 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:20 | 1 |
| Phenanthrene | 14 | J | 38 | 5.4 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:20 | 1 |
| Phenol | <190 | | 190 | 86 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:20 | 1 |
| Pyrene | <38 | | 38 | 7.7 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:20 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2,4,6-Tribromophenol | 106 | | 25 - 130 | | | | 03/30/16 16:59 | 04/06/16 05:20 | 1 |
| 2-Fluorobiphenyl | 45 | | 42 - 115 | | | | 03/30/16 16:59 | 04/06/16 05:20 | 1 |
| 2-Fluorophenol | 32 | X | 40 - 130 | | | | 03/30/16 16:59 | 04/06/16 05:20 | 1 |
| Nitrobenzene-d5 | 33 | | 33 - 124 | | | | 03/30/16 16:59 | 04/06/16 05:20 | 1 |
| Phenol-d5 | 37 | | 36 - 123 | | | | 03/30/16 16:59 | 04/06/16 05:20 | 1 |
| Terphenyl-d14 | 123 | | 25 - 150 | | | | 03/30/16 16:59 | 04/06/16 05:20 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.050 | | 0.050 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 15:54 | 1 |
| Barium | 0.064 | J | 0.50 | 0.050 | mg/L | | 04/02/16 13:50 | 04/04/16 15:54 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 04/02/16 13:50 | 04/04/16 15:54 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/02/16 13:50 | 04/04/16 15:54 | 1 |
| Chromium | <0.025 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 15:54 | 1 |
| Cobalt | <0.025 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 15:54 | 1 |
| Copper | <0.025 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 15:54 | 1 |
| Iron | 0.22 | J | 0.40 | 0.20 | mg/L | | 04/02/16 13:50 | 04/04/16 15:54 | 1 |
| Lead | <0.0075 | | 0.0075 | 0.0075 | mg/L | | 04/02/16 13:50 | 04/04/16 15:54 | 1 |
| Manganese | 0.021 | J | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 15:54 | 1 |
| Nickel | <0.025 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 15:54 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/02/16 13:50 | 04/04/16 15:54 | 1 |
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 15:54 | 1 |
| Zinc | <0.50 | | 0.50 | 0.020 | mg/L | | 04/02/16 13:50 | 04/04/16 15:54 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.11 | | 0.050 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 18:23 | 1 |
| Barium | 0.59 | | 0.50 | 0.050 | mg/L | | 04/04/16 08:37 | 04/04/16 18:23 | 1 |
| Beryllium | 0.010 | | 0.0040 | 0.0040 | mg/L | | 04/04/16 08:37 | 04/04/16 18:23 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/04/16 08:37 | 04/04/16 18:23 | 1 |
| Chromium | 0.23 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 18:23 | 1 |
| Cobalt | 0.081 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 18:23 | 1 |
| Copper | 0.18 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 18:23 | 1 |
| Iron | 250 | | 0.40 | 0.20 | mg/L | | 04/04/16 08:37 | 04/04/16 18:23 | 1 |
| Lead | 0.15 | | 0.038 | 0.038 | mg/L | | 04/04/16 08:37 | 04/05/16 17:08 | 5 |
| Manganese | 0.72 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 18:23 | 1 |
| Nickel | 0.26 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 18:23 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/04/16 08:37 | 04/04/16 18:23 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109464-1

Client Sample ID: CB33-1(0-4)-033016

Lab Sample ID: 500-109464-4

Date Collected: 03/30/16 09:25

Matrix: Solid

Date Received: 03/30/16 14:45

Percent Solids: 83.7

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 18:23 | 1 |
| Zinc | 0.48 | J | 0.50 | 0.020 | mg/L | | 04/04/16 08:37 | 04/04/16 18:23 | 1 |

Method: 6010B - Total Metals

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | 0.24 | J | 1.1 | 0.22 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:20 | 1 |
| Arsenic | 7.2 | | 0.53 | 0.25 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:20 | 1 |
| Barium | 24 | | 0.53 | 0.097 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:20 | 1 |
| Beryllium | 0.54 | | 0.21 | 0.046 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:20 | 1 |
| Cadmium | <0.11 | | 0.11 | 0.031 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:20 | 1 |
| Calcium | 12000 | | 11 | 3.4 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:20 | 1 |
| Chromium | 12 | B | 0.53 | 0.092 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:20 | 1 |
| Cobalt | 9.2 | | 0.27 | 0.060 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:20 | 1 |
| Copper | 14 | | 0.53 | 0.12 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:20 | 1 |
| Iron | 16000 | B | 11 | 4.1 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:20 | 1 |
| Lead | 13 | | 0.27 | 0.13 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:20 | 1 |
| Magnesium | 9100 | B | 5.3 | 2.2 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:20 | 1 |
| Manganese | 130 | | 0.53 | 0.11 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:20 | 1 |
| Nickel | 22 | | 0.53 | 0.14 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:20 | 1 |
| Potassium | 1400 | B | 27 | 4.3 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:20 | 1 |
| Selenium | <0.53 | | 0.53 | 0.26 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:20 | 1 |
| Silver | <0.27 | | 0.27 | 0.062 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:20 | 1 |
| Sodium | 340 | B | 53 | 7.0 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:20 | 1 |
| Thallium | <0.53 | | 0.53 | 0.26 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:20 | 1 |
| Vanadium | 19 | | 0.27 | 0.078 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:20 | 1 |
| Zinc | 40 | B | 1.1 | 0.34 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:20 | 1 |

Method: 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/04/16 16:10 | 04/05/16 12:20 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/04/16 16:10 | 04/05/16 11:25 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Mercury | 24 | | 19 | 9.9 | ug/Kg | ☼ | 04/01/16 13:30 | 04/04/16 11:10 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-------|-------|------|---|----------|----------------|---------|
| pH | 7.86 | | 0.200 | 0.200 | SU | | | 04/05/16 15:42 | 1 |

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109464-1

Client Sample ID: CB33-3(0-4)-033016

Lab Sample ID: 500-109464-7

Date Collected: 03/30/16 10:00

Matrix: Solid

Date Received: 03/30/16 14:45

Percent Solids: 78.7

Method: 8260B - VOC

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Acetone | <25 | | 25 | 4.9 | ug/Kg | ☼ | | 04/04/16 17:18 | 1 |
| Benzene | <6.4 | | 6.4 | 1.4 | ug/Kg | ☼ | | 04/04/16 17:18 | 1 |
| Bromodichloromethane | <6.4 | | 6.4 | 1.1 | ug/Kg | ☼ | | 04/04/16 17:18 | 1 |
| Bromoform | <6.4 | | 6.4 | 1.3 | ug/Kg | ☼ | | 04/04/16 17:18 | 1 |
| Bromomethane | <6.4 | | 6.4 | 2.3 | ug/Kg | ☼ | | 04/04/16 17:18 | 1 |
| Carbon disulfide | <6.4 | | 6.4 | 2.3 | ug/Kg | ☼ | | 04/04/16 17:18 | 1 |
| Carbon tetrachloride | <6.4 | | 6.4 | 1.4 | ug/Kg | ☼ | | 04/04/16 17:18 | 1 |
| Chlorobenzene | <6.4 | | 6.4 | 1.5 | ug/Kg | ☼ | | 04/04/16 17:18 | 1 |
| Chloroethane | <6.4 | | 6.4 | 2.7 | ug/Kg | ☼ | | 04/04/16 17:18 | 1 |
| Chloroform | <6.4 | | 6.4 | 1.2 | ug/Kg | ☼ | | 04/04/16 17:18 | 1 |
| Chloromethane | <6.4 | | 6.4 | 1.5 | ug/Kg | ☼ | | 04/04/16 17:18 | 1 |
| cis-1,2-Dichloroethene | <6.4 | | 6.4 | 1.3 | ug/Kg | ☼ | | 04/04/16 17:18 | 1 |
| cis-1,3-Dichloropropene | <6.4 | | 6.4 | 1.4 | ug/Kg | ☼ | | 04/04/16 17:18 | 1 |
| Dibromochloromethane | <6.4 | | 6.4 | 0.73 | ug/Kg | ☼ | | 04/04/16 17:18 | 1 |
| 1,1-Dichloroethane | <6.4 | | 6.4 | 1.3 | ug/Kg | ☼ | | 04/04/16 17:18 | 1 |
| 1,2-Dichloroethane | <6.4 | | 6.4 | 0.94 | ug/Kg | ☼ | | 04/04/16 17:18 | 1 |
| 1,1-Dichloroethene | <6.4 | | 6.4 | 2.3 | ug/Kg | ☼ | | 04/04/16 17:18 | 1 |
| 1,2-Dichloropropane | <6.4 | | 6.4 | 1.7 | ug/Kg | ☼ | | 04/04/16 17:18 | 1 |
| 1,3-Dichloropropene, Total | <6.4 | | 6.4 | 1.8 | ug/Kg | ☼ | | 04/04/16 17:18 | 1 |
| Ethylbenzene | <6.4 | | 6.4 | 1.6 | ug/Kg | ☼ | | 04/04/16 17:18 | 1 |
| 2-Hexanone | <6.4 | | 6.4 | 2.0 | ug/Kg | ☼ | | 04/04/16 17:18 | 1 |
| Methylene Chloride | <6.4 | | 6.4 | 4.8 | ug/Kg | ☼ | | 04/04/16 17:18 | 1 |
| Methyl Ethyl Ketone | <6.4 | | 6.4 | 2.3 | ug/Kg | ☼ | | 04/04/16 17:18 | 1 |
| methyl isobutyl ketone | <6.4 | | 6.4 | 1.3 | ug/Kg | ☼ | | 04/04/16 17:18 | 1 |
| Methyl tert-butyl ether | <6.4 | | 6.4 | 1.5 | ug/Kg | ☼ | | 04/04/16 17:18 | 1 |
| Styrene | <6.4 | | 6.4 | 1.5 | ug/Kg | ☼ | | 04/04/16 17:18 | 1 |
| 1,1,2,2-Tetrachloroethane | <6.4 | | 6.4 | 1.0 | ug/Kg | ☼ | | 04/04/16 17:18 | 1 |
| Tetrachloroethene | <6.4 | | 6.4 | 1.3 | ug/Kg | ☼ | | 04/04/16 17:18 | 1 |
| Toluene | <6.4 | | 6.4 | 2.2 | ug/Kg | ☼ | | 04/04/16 17:18 | 1 |
| trans-1,2-Dichloroethene | <6.4 | | 6.4 | 1.6 | ug/Kg | ☼ | | 04/04/16 17:18 | 1 |
| trans-1,3-Dichloropropene | <6.4 | | 6.4 | 1.8 | ug/Kg | ☼ | | 04/04/16 17:18 | 1 |
| 1,1,1-Trichloroethane | <6.4 | | 6.4 | 1.5 | ug/Kg | ☼ | | 04/04/16 17:18 | 1 |
| 1,1,2-Trichloroethane | <6.4 | | 6.4 | 1.2 | ug/Kg | ☼ | | 04/04/16 17:18 | 1 |
| Trichloroethene | <6.4 | | 6.4 | 1.7 | ug/Kg | ☼ | | 04/04/16 17:18 | 1 |
| Vinyl chloride | <6.4 | | 6.4 | 1.5 | ug/Kg | ☼ | | 04/04/16 17:18 | 1 |
| Xylenes, Total | <13 | | 13 | 2.4 | ug/Kg | ☼ | | 04/04/16 17:18 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 108 | | 70 - 120 | | 04/04/16 17:18 | 1 |
| Dibromofluoromethane | 113 | | 75 - 120 | | 04/04/16 17:18 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 114 | | 69 - 134 | | 04/04/16 17:18 | 1 |
| Toluene-d8 (Surr) | 114 | | 75 - 123 | | 04/04/16 17:18 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,2,4-Trichlorobenzene | <210 | | 210 | 44 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:49 | 1 |
| 1,2-Dichlorobenzene | <210 | | 210 | 49 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:49 | 1 |
| 1,3-Dichlorobenzene | <210 | | 210 | 46 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:49 | 1 |
| 1,4-Dichlorobenzene | <210 | | 210 | 53 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:49 | 1 |
| 2,2'-oxybis[1-chloropropane] | <210 | | 210 | 48 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:49 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109464-1

Client Sample ID: CB33-3(0-4)-033016

Lab Sample ID: 500-109464-7

Date Collected: 03/30/16 10:00

Matrix: Solid

Date Received: 03/30/16 14:45

Percent Solids: 78.7

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-------------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol | <410 | | 410 | 94 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:49 | 1 |
| 2,4,6-Trichlorophenol | <410 | | 410 | 140 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:49 | 1 |
| 2,4-Dichlorophenol | <410 | | 410 | 97 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:49 | 1 |
| 2,4-Dimethylphenol | <410 | | 410 | 160 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:49 | 1 |
| 2,4-Dinitrophenol | <830 | | 830 | 720 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:49 | 1 |
| 2,4-Dinitrotoluene | <210 | | 210 | 65 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:49 | 1 |
| 2,6-Dinitrotoluene | <210 | | 210 | 81 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:49 | 1 |
| 2-Chloronaphthalene | <210 | | 210 | 45 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:49 | 1 |
| 2-Chlorophenol | <210 | | 210 | 70 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:49 | 1 |
| 2-Methylnaphthalene | <41 | | 41 | 7.5 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:49 | 1 |
| 2-Methylphenol | <210 | | 210 | 66 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:49 | 1 |
| 2-Nitroaniline | <210 | | 210 | 55 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:49 | 1 |
| 2-Nitrophenol | <410 | | 410 | 97 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:49 | 1 |
| 3 & 4 Methylphenol | <210 | | 210 | 68 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:49 | 1 |
| 3,3'-Dichlorobenzidine | <210 | | 210 | 57 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:49 | 1 |
| 3-Nitroaniline | <410 | | 410 | 130 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:49 | 1 |
| 4,6-Dinitro-2-methylphenol | <830 | | 830 | 330 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:49 | 1 |
| 4-Bromophenyl phenyl ether | <210 | | 210 | 54 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:49 | 1 |
| 4-Chloro-3-methylphenol | <410 | | 410 | 140 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:49 | 1 |
| 4-Chloroaniline | <830 | | 830 | 190 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:49 | 1 |
| 4-Chlorophenyl phenyl ether | <210 | | 210 | 48 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:49 | 1 |
| 4-Nitroaniline | <410 | | 410 | 170 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:49 | 1 |
| 4-Nitrophenol | <830 | | 830 | 390 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:49 | 1 |
| Acenaphthene | <41 | | 41 | 7.4 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:49 | 1 |
| Acenaphthylene | <41 | | 41 | 5.4 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:49 | 1 |
| Anthracene | <41 | | 41 | 6.8 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:49 | 1 |
| Benzo[a]anthracene | <41 | | 41 | 5.5 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:49 | 1 |
| Benzo[a]pyrene | <41 | | 41 | 7.9 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:49 | 1 |
| Benzo[b]fluoranthene | <41 | | 41 | 8.8 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:49 | 1 |
| Benzo[g,h,i]perylene | <41 | | 41 | 13 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:49 | 1 |
| Benzo[k]fluoranthene | <41 | | 41 | 12 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:49 | 1 |
| Bis(2-chloroethoxy)methane | <210 | | 210 | 42 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:49 | 1 |
| Bis(2-chloroethyl)ether | <210 | | 210 | 61 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:49 | 1 |
| Bis(2-ethylhexyl) phthalate | <210 | | 210 | 75 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:49 | 1 |
| Butyl benzyl phthalate | <210 | | 210 | 78 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:49 | 1 |
| Carbazole | <210 | | 210 | 100 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:49 | 1 |
| Chrysene | 11 J | | 41 | 11 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:49 | 1 |
| Dibenz(a,h)anthracene | <41 | | 41 | 7.9 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:49 | 1 |
| Dibenzofuran | <210 | | 210 | 48 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:49 | 1 |
| Diethyl phthalate | <210 | | 210 | 69 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:49 | 1 |
| Dimethyl phthalate | <210 | | 210 | 54 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:49 | 1 |
| Di-n-butyl phthalate | <210 | | 210 | 62 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:49 | 1 |
| Di-n-octyl phthalate | <210 | | 210 | 67 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:49 | 1 |
| Fluoranthene | <41 | | 41 | 7.6 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:49 | 1 |
| Fluorene | <41 | | 41 | 5.8 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:49 | 1 |
| Hexachlorobenzene | <83 | | 83 | 9.5 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:49 | 1 |
| Hexachlorobutadiene | <210 | | 210 | 64 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:49 | 1 |
| Hexachlorocyclopentadiene | <830 | | 830 | 240 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:49 | 1 |
| Hexachloroethane | <210 | | 210 | 62 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:49 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109464-1

Client Sample ID: CB33-3(0-4)-033016

Lab Sample ID: 500-109464-7

Date Collected: 03/30/16 10:00

Matrix: Solid

Date Received: 03/30/16 14:45

Percent Solids: 78.7

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Indeno[1,2,3-cd]pyrene | <41 | | 41 | 11 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:49 | 1 |
| Isophorone | <210 | | 210 | 46 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:49 | 1 |
| Naphthalene | <41 | | 41 | 6.3 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:49 | 1 |
| Nitrobenzene | <41 | | 41 | 10 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:49 | 1 |
| N-Nitrosodi-n-propylamine | <83 | | 83 | 50 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:49 | 1 |
| N-Nitrosodiphenylamine | <210 | | 210 | 48 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:49 | 1 |
| Pentachlorophenol | <830 | | 830 | 660 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:49 | 1 |
| Phenanthrene | <41 | | 41 | 5.7 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:49 | 1 |
| Phenol | <210 | | 210 | 91 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:49 | 1 |
| Pyrene | <41 | | 41 | 8.1 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 05:49 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2,4,6-Tribromophenol | 86 | | 25 - 130 | | | | 03/30/16 16:59 | 04/06/16 05:49 | 1 |
| 2-Fluorobiphenyl | 83 | | 42 - 115 | | | | 03/30/16 16:59 | 04/06/16 05:49 | 1 |
| 2-Fluorophenol | 62 | | 40 - 130 | | | | 03/30/16 16:59 | 04/06/16 05:49 | 1 |
| Nitrobenzene-d5 | 70 | | 33 - 124 | | | | 03/30/16 16:59 | 04/06/16 05:49 | 1 |
| Phenol-d5 | 67 | | 36 - 123 | | | | 03/30/16 16:59 | 04/06/16 05:49 | 1 |
| Terphenyl-d14 | 118 | | 25 - 150 | | | | 03/30/16 16:59 | 04/06/16 05:49 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|-------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.050 | | 0.050 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 16:18 | 1 |
| Barium | 0.20 | J | 0.50 | 0.050 | mg/L | | 04/02/16 13:50 | 04/04/16 16:18 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 04/02/16 13:50 | 04/04/16 16:18 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/02/16 13:50 | 04/04/16 16:18 | 1 |
| Chromium | <0.025 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 16:18 | 1 |
| Cobalt | <0.025 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 16:18 | 1 |
| Copper | <0.025 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 16:18 | 1 |
| Iron | <0.40 | | 0.40 | 0.20 | mg/L | | 04/02/16 13:50 | 04/04/16 16:18 | 1 |
| Lead | <0.0075 | | 0.0075 | 0.0075 | mg/L | | 04/02/16 13:50 | 04/04/16 16:18 | 1 |
| Manganese | 1.5 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 16:18 | 1 |
| Nickel | <0.025 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 16:18 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/02/16 13:50 | 04/04/16 16:18 | 1 |
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 16:18 | 1 |
| Zinc | <0.50 | | 0.50 | 0.020 | mg/L | | 04/02/16 13:50 | 04/04/16 16:18 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|---------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.056 | | 0.050 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 18:47 | 1 |
| Barium | 0.48 | J | 0.50 | 0.050 | mg/L | | 04/04/16 08:37 | 04/04/16 18:47 | 1 |
| Beryllium | 0.0076 | | 0.0040 | 0.0040 | mg/L | | 04/04/16 08:37 | 04/04/16 18:47 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/04/16 08:37 | 04/04/16 18:47 | 1 |
| Chromium | 0.18 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 18:47 | 1 |
| Cobalt | 0.068 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 18:47 | 1 |
| Copper | 0.14 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 18:47 | 1 |
| Iron | 170 | | 0.40 | 0.20 | mg/L | | 04/04/16 08:37 | 04/04/16 18:47 | 1 |
| Lead | 0.085 | | 0.0075 | 0.0075 | mg/L | | 04/04/16 08:37 | 04/04/16 18:47 | 1 |
| Manganese | 0.78 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 18:47 | 1 |
| Nickel | 0.19 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 18:47 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/04/16 08:37 | 04/04/16 18:47 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109464-1

Client Sample ID: CB33-3(0-4)-033016

Lab Sample ID: 500-109464-7

Date Collected: 03/30/16 10:00

Matrix: Solid

Date Received: 03/30/16 14:45

Percent Solids: 78.7

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|-------------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 18:47 | 1 |
| Zinc | 0.36 | J | 0.50 | 0.020 | mg/L | | 04/04/16 08:37 | 04/04/16 18:47 | 1 |

Method: 6010B - Total Metals

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | <1.2 | | 1.2 | 0.24 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:35 | 1 |
| Arsenic | 7.2 | | 0.58 | 0.27 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:35 | 1 |
| Barium | 44 | | 0.58 | 0.11 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:35 | 1 |
| Beryllium | 0.85 | | 0.23 | 0.051 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:35 | 1 |
| Cadmium | <0.12 | | 0.12 | 0.034 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:35 | 1 |
| Calcium | 13000 | | 12 | 3.8 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:35 | 1 |
| Chromium | 19 | B | 0.58 | 0.10 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:35 | 1 |
| Cobalt | 13 | | 0.29 | 0.066 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:35 | 1 |
| Copper | 21 | | 0.58 | 0.13 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:35 | 1 |
| Iron | 26000 | B | 12 | 4.5 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:35 | 1 |
| Lead | 17 | | 0.29 | 0.15 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:35 | 1 |
| Magnesium | 10000 | B | 5.8 | 2.4 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:35 | 1 |
| Manganese | 230 | | 0.58 | 0.12 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:35 | 1 |
| Nickel | 36 | | 0.58 | 0.16 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:35 | 1 |
| Potassium | 2300 | B | 29 | 4.8 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:35 | 1 |
| Selenium | <0.58 | | 0.58 | 0.29 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:35 | 1 |
| Silver | <0.29 | | 0.29 | 0.068 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:35 | 1 |
| Sodium | 480 | B | 58 | 7.7 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:35 | 1 |
| Thallium | <0.58 | | 0.58 | 0.29 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:35 | 1 |
| Vanadium | 25 | | 0.29 | 0.085 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:35 | 1 |
| Zinc | 67 | B | 1.2 | 0.37 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:35 | 1 |

Method: 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/04/16 16:10 | 04/05/16 12:26 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/04/16 16:10 | 04/05/16 11:31 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Mercury | 33 | | 20 | 10 | ug/Kg | ☼ | 04/01/16 13:30 | 04/04/16 11:17 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-------------|-----------|-------|-------|------|---|----------|----------------|---------|
| pH | 7.71 | | 0.200 | 0.200 | SU | | | 04/05/16 15:50 | 1 |

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109464-1

Client Sample ID: CB33-4(0-4)-033016

Lab Sample ID: 500-109464-8

Date Collected: 03/30/16 10:25

Matrix: Solid

Date Received: 03/30/16 14:45

Percent Solids: 80.0

Method: 8260B - VOC

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Acetone | 57 | | 25 | 4.8 | ug/Kg | ☼ | | 04/04/16 17:43 | 1 |
| Benzene | <6.3 | | 6.3 | 1.4 | ug/Kg | ☼ | | 04/04/16 17:43 | 1 |
| Bromodichloromethane | <6.3 | | 6.3 | 1.1 | ug/Kg | ☼ | | 04/04/16 17:43 | 1 |
| Bromoform | <6.3 | | 6.3 | 1.3 | ug/Kg | ☼ | | 04/04/16 17:43 | 1 |
| Bromomethane | <6.3 | | 6.3 | 2.3 | ug/Kg | ☼ | | 04/04/16 17:43 | 1 |
| Carbon disulfide | <6.3 | | 6.3 | 2.3 | ug/Kg | ☼ | | 04/04/16 17:43 | 1 |
| Carbon tetrachloride | <6.3 | | 6.3 | 1.3 | ug/Kg | ☼ | | 04/04/16 17:43 | 1 |
| Chlorobenzene | <6.3 | | 6.3 | 1.5 | ug/Kg | ☼ | | 04/04/16 17:43 | 1 |
| Chloroethane | <6.3 | | 6.3 | 2.6 | ug/Kg | ☼ | | 04/04/16 17:43 | 1 |
| Chloroform | <6.3 | | 6.3 | 1.2 | ug/Kg | ☼ | | 04/04/16 17:43 | 1 |
| Chloromethane | <6.3 | | 6.3 | 1.5 | ug/Kg | ☼ | | 04/04/16 17:43 | 1 |
| cis-1,2-Dichloroethene | <6.3 | | 6.3 | 1.3 | ug/Kg | ☼ | | 04/04/16 17:43 | 1 |
| cis-1,3-Dichloropropene | <6.3 | | 6.3 | 1.4 | ug/Kg | ☼ | | 04/04/16 17:43 | 1 |
| Dibromochloromethane | <6.3 | | 6.3 | 0.72 | ug/Kg | ☼ | | 04/04/16 17:43 | 1 |
| 1,1-Dichloroethane | <6.3 | | 6.3 | 1.3 | ug/Kg | ☼ | | 04/04/16 17:43 | 1 |
| 1,2-Dichloroethane | <6.3 | | 6.3 | 0.93 | ug/Kg | ☼ | | 04/04/16 17:43 | 1 |
| 1,1-Dichloroethene | <6.3 | | 6.3 | 2.3 | ug/Kg | ☼ | | 04/04/16 17:43 | 1 |
| 1,2-Dichloropropane | <6.3 | | 6.3 | 1.6 | ug/Kg | ☼ | | 04/04/16 17:43 | 1 |
| 1,3-Dichloropropene, Total | <6.3 | | 6.3 | 1.8 | ug/Kg | ☼ | | 04/04/16 17:43 | 1 |
| Ethylbenzene | <6.3 | | 6.3 | 1.6 | ug/Kg | ☼ | | 04/04/16 17:43 | 1 |
| 2-Hexanone | <6.3 | | 6.3 | 1.9 | ug/Kg | ☼ | | 04/04/16 17:43 | 1 |
| Methylene Chloride | <6.3 | | 6.3 | 4.7 | ug/Kg | ☼ | | 04/04/16 17:43 | 1 |
| Methyl Ethyl Ketone | <6.3 | | 6.3 | 2.2 | ug/Kg | ☼ | | 04/04/16 17:43 | 1 |
| methyl isobutyl ketone | <6.3 | | 6.3 | 1.3 | ug/Kg | ☼ | | 04/04/16 17:43 | 1 |
| Methyl tert-butyl ether | <6.3 | | 6.3 | 1.5 | ug/Kg | ☼ | | 04/04/16 17:43 | 1 |
| Styrene | <6.3 | | 6.3 | 1.5 | ug/Kg | ☼ | | 04/04/16 17:43 | 1 |
| 1,1,2,2-Tetrachloroethane | <6.3 | | 6.3 | 0.99 | ug/Kg | ☼ | | 04/04/16 17:43 | 1 |
| Tetrachloroethene | <6.3 | | 6.3 | 1.3 | ug/Kg | ☼ | | 04/04/16 17:43 | 1 |
| Toluene | <6.3 | | 6.3 | 2.2 | ug/Kg | ☼ | | 04/04/16 17:43 | 1 |
| trans-1,2-Dichloroethene | <6.3 | | 6.3 | 1.6 | ug/Kg | ☼ | | 04/04/16 17:43 | 1 |
| trans-1,3-Dichloropropene | <6.3 | | 6.3 | 1.8 | ug/Kg | ☼ | | 04/04/16 17:43 | 1 |
| 1,1,1-Trichloroethane | <6.3 | | 6.3 | 1.5 | ug/Kg | ☼ | | 04/04/16 17:43 | 1 |
| 1,1,2-Trichloroethane | <6.3 | | 6.3 | 1.2 | ug/Kg | ☼ | | 04/04/16 17:43 | 1 |
| Trichloroethene | <6.3 | | 6.3 | 1.7 | ug/Kg | ☼ | | 04/04/16 17:43 | 1 |
| Vinyl chloride | <6.3 | | 6.3 | 1.5 | ug/Kg | ☼ | | 04/04/16 17:43 | 1 |
| Xylenes, Total | <13 | | 13 | 2.3 | ug/Kg | ☼ | | 04/04/16 17:43 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 107 | | 70 - 120 | | 04/04/16 17:43 | 1 |
| Dibromofluoromethane | 110 | | 75 - 120 | | 04/04/16 17:43 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 111 | | 69 - 134 | | 04/04/16 17:43 | 1 |
| Toluene-d8 (Surr) | 114 | | 75 - 123 | | 04/04/16 17:43 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,2,4-Trichlorobenzene | <200 | | 200 | 43 | ug/Kg | ☼ | 03/30/16 16:59 | 04/05/16 23:37 | 1 |
| 1,2-Dichlorobenzene | <200 | | 200 | 48 | ug/Kg | ☼ | 03/30/16 16:59 | 04/05/16 23:37 | 1 |
| 1,3-Dichlorobenzene | <200 | | 200 | 45 | ug/Kg | ☼ | 03/30/16 16:59 | 04/05/16 23:37 | 1 |
| 1,4-Dichlorobenzene | <200 | | 200 | 52 | ug/Kg | ☼ | 03/30/16 16:59 | 04/05/16 23:37 | 1 |
| 2,2'-oxybis[1-chloropropane] | <200 | | 200 | 47 | ug/Kg | ☼ | 03/30/16 16:59 | 04/05/16 23:37 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109464-1

Client Sample ID: CB33-4(0-4)-033016

Lab Sample ID: 500-109464-8

Date Collected: 03/30/16 10:25

Matrix: Solid

Date Received: 03/30/16 14:45

Percent Solids: 80.0

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol | <400 | | 400 | 92 | ug/Kg | ☼ | 03/30/16 16:59 | 04/05/16 23:37 | 1 |
| 2,4,6-Trichlorophenol | <400 | | 400 | 140 | ug/Kg | ☼ | 03/30/16 16:59 | 04/05/16 23:37 | 1 |
| 2,4-Dichlorophenol | <400 | | 400 | 96 | ug/Kg | ☼ | 03/30/16 16:59 | 04/05/16 23:37 | 1 |
| 2,4-Dimethylphenol | <400 | | 400 | 150 | ug/Kg | ☼ | 03/30/16 16:59 | 04/05/16 23:37 | 1 |
| 2,4-Dinitrophenol | <810 | | 810 | 710 | ug/Kg | ☼ | 03/30/16 16:59 | 04/05/16 23:37 | 1 |
| 2,4-Dinitrotoluene | <200 | | 200 | 64 | ug/Kg | ☼ | 03/30/16 16:59 | 04/05/16 23:37 | 1 |
| 2,6-Dinitrotoluene | <200 | | 200 | 79 | ug/Kg | ☼ | 03/30/16 16:59 | 04/05/16 23:37 | 1 |
| 2-Chloronaphthalene | <200 | | 200 | 45 | ug/Kg | ☼ | 03/30/16 16:59 | 04/05/16 23:37 | 1 |
| 2-Chlorophenol | <200 | | 200 | 69 | ug/Kg | ☼ | 03/30/16 16:59 | 04/05/16 23:37 | 1 |
| 2-Methylnaphthalene | 28 | J | 40 | 7.4 | ug/Kg | ☼ | 03/30/16 16:59 | 04/05/16 23:37 | 1 |
| 2-Methylphenol | <200 | | 200 | 65 | ug/Kg | ☼ | 03/30/16 16:59 | 04/05/16 23:37 | 1 |
| 2-Nitroaniline | <200 | | 200 | 54 | ug/Kg | ☼ | 03/30/16 16:59 | 04/05/16 23:37 | 1 |
| 2-Nitrophenol | <400 | | 400 | 95 | ug/Kg | ☼ | 03/30/16 16:59 | 04/05/16 23:37 | 1 |
| 3 & 4 Methylphenol | <200 | | 200 | 67 | ug/Kg | ☼ | 03/30/16 16:59 | 04/05/16 23:37 | 1 |
| 3,3'-Dichlorobenzidine | <200 | | 200 | 57 | ug/Kg | ☼ | 03/30/16 16:59 | 04/05/16 23:37 | 1 |
| 3-Nitroaniline | <400 | | 400 | 130 | ug/Kg | ☼ | 03/30/16 16:59 | 04/05/16 23:37 | 1 |
| 4,6-Dinitro-2-methylphenol | <810 | | 810 | 320 | ug/Kg | ☼ | 03/30/16 16:59 | 04/05/16 23:37 | 1 |
| 4-Bromophenyl phenyl ether | <200 | | 200 | 53 | ug/Kg | ☼ | 03/30/16 16:59 | 04/05/16 23:37 | 1 |
| 4-Chloro-3-methylphenol | <400 | | 400 | 140 | ug/Kg | ☼ | 03/30/16 16:59 | 04/05/16 23:37 | 1 |
| 4-Chloroaniline | <810 | | 810 | 190 | ug/Kg | ☼ | 03/30/16 16:59 | 04/05/16 23:37 | 1 |
| 4-Chlorophenyl phenyl ether | <200 | | 200 | 47 | ug/Kg | ☼ | 03/30/16 16:59 | 04/05/16 23:37 | 1 |
| 4-Nitroaniline | <400 | | 400 | 170 | ug/Kg | ☼ | 03/30/16 16:59 | 04/05/16 23:37 | 1 |
| 4-Nitrophenol | <810 | | 810 | 380 | ug/Kg | ☼ | 03/30/16 16:59 | 04/05/16 23:37 | 1 |
| Acenaphthene | 15 | J | 40 | 7.3 | ug/Kg | ☼ | 03/30/16 16:59 | 04/05/16 23:37 | 1 |
| Acenaphthylene | <40 | | 40 | 5.3 | ug/Kg | ☼ | 03/30/16 16:59 | 04/05/16 23:37 | 1 |
| Anthracene | <40 | | 40 | 6.7 | ug/Kg | ☼ | 03/30/16 16:59 | 04/05/16 23:37 | 1 |
| Benzo[a]anthracene | <40 | | 40 | 5.4 | ug/Kg | ☼ | 03/30/16 16:59 | 04/05/16 23:37 | 1 |
| Benzo[a]pyrene | <40 | | 40 | 7.8 | ug/Kg | ☼ | 03/30/16 16:59 | 04/05/16 23:37 | 1 |
| Benzo[b]fluoranthene | <40 | | 40 | 8.7 | ug/Kg | ☼ | 03/30/16 16:59 | 04/05/16 23:37 | 1 |
| Benzo[g,h,i]perylene | <40 | | 40 | 13 | ug/Kg | ☼ | 03/30/16 16:59 | 04/05/16 23:37 | 1 |
| Benzo[k]fluoranthene | <40 | | 40 | 12 | ug/Kg | ☼ | 03/30/16 16:59 | 04/05/16 23:37 | 1 |
| Bis(2-chloroethoxy)methane | <200 | | 200 | 41 | ug/Kg | ☼ | 03/30/16 16:59 | 04/05/16 23:37 | 1 |
| Bis(2-chloroethyl)ether | <200 | | 200 | 61 | ug/Kg | ☼ | 03/30/16 16:59 | 04/05/16 23:37 | 1 |
| Bis(2-ethylhexyl) phthalate | <200 | | 200 | 74 | ug/Kg | ☼ | 03/30/16 16:59 | 04/05/16 23:37 | 1 |
| Butyl benzyl phthalate | <200 | | 200 | 77 | ug/Kg | ☼ | 03/30/16 16:59 | 04/05/16 23:37 | 1 |
| Carbazole | <200 | | 200 | 100 | ug/Kg | ☼ | 03/30/16 16:59 | 04/05/16 23:37 | 1 |
| Chrysene | <40 | | 40 | 11 | ug/Kg | ☼ | 03/30/16 16:59 | 04/05/16 23:37 | 1 |
| Dibenz(a,h)anthracene | <40 | | 40 | 7.8 | ug/Kg | ☼ | 03/30/16 16:59 | 04/05/16 23:37 | 1 |
| Dibenzofuran | <200 | | 200 | 47 | ug/Kg | ☼ | 03/30/16 16:59 | 04/05/16 23:37 | 1 |
| Diethyl phthalate | <200 | | 200 | 68 | ug/Kg | ☼ | 03/30/16 16:59 | 04/05/16 23:37 | 1 |
| Dimethyl phthalate | <200 | | 200 | 53 | ug/Kg | ☼ | 03/30/16 16:59 | 04/05/16 23:37 | 1 |
| Di-n-butyl phthalate | <200 | | 200 | 61 | ug/Kg | ☼ | 03/30/16 16:59 | 04/05/16 23:37 | 1 |
| Di-n-octyl phthalate | <200 | | 200 | 66 | ug/Kg | ☼ | 03/30/16 16:59 | 04/05/16 23:37 | 1 |
| Fluoranthene | <40 | | 40 | 7.5 | ug/Kg | ☼ | 03/30/16 16:59 | 04/05/16 23:37 | 1 |
| Fluorene | <40 | | 40 | 5.7 | ug/Kg | ☼ | 03/30/16 16:59 | 04/05/16 23:37 | 1 |
| Hexachlorobenzene | <81 | | 81 | 9.4 | ug/Kg | ☼ | 03/30/16 16:59 | 04/05/16 23:37 | 1 |
| Hexachlorobutadiene | <200 | | 200 | 63 | ug/Kg | ☼ | 03/30/16 16:59 | 04/05/16 23:37 | 1 |
| Hexachlorocyclopentadiene | <810 | | 810 | 230 | ug/Kg | ☼ | 03/30/16 16:59 | 04/05/16 23:37 | 1 |
| Hexachloroethane | <200 | | 200 | 61 | ug/Kg | ☼ | 03/30/16 16:59 | 04/05/16 23:37 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109464-1

Client Sample ID: CB33-4(0-4)-033016

Lab Sample ID: 500-109464-8

Date Collected: 03/30/16 10:25

Matrix: Solid

Date Received: 03/30/16 14:45

Percent Solids: 80.0

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| Indeno[1,2,3-cd]pyrene | <40 | | 40 | 10 | ug/Kg | ☼ | 03/30/16 16:59 | 04/05/16 23:37 | 1 |
| Isophorone | <200 | | 200 | 45 | ug/Kg | ☼ | 03/30/16 16:59 | 04/05/16 23:37 | 1 |
| Naphthalene | 170 | | 40 | 6.2 | ug/Kg | ☼ | 03/30/16 16:59 | 04/05/16 23:37 | 1 |
| Nitrobenzene | <40 | | 40 | 10 | ug/Kg | ☼ | 03/30/16 16:59 | 04/05/16 23:37 | 1 |
| N-Nitrosodi-n-propylamine | <81 | | 81 | 49 | ug/Kg | ☼ | 03/30/16 16:59 | 04/05/16 23:37 | 1 |
| N-Nitrosodiphenylamine | <200 | | 200 | 48 | ug/Kg | ☼ | 03/30/16 16:59 | 04/05/16 23:37 | 1 |
| Pentachlorophenol | <810 | | 810 | 650 | ug/Kg | ☼ | 03/30/16 16:59 | 04/05/16 23:37 | 1 |
| Phenanthrene | <40 | | 40 | 5.6 | ug/Kg | ☼ | 03/30/16 16:59 | 04/05/16 23:37 | 1 |
| Phenol | <200 | | 200 | 90 | ug/Kg | ☼ | 03/30/16 16:59 | 04/05/16 23:37 | 1 |
| Pyrene | <40 | | 40 | 8.0 | ug/Kg | ☼ | 03/30/16 16:59 | 04/05/16 23:37 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2,4,6-Tribromophenol | 110 | | 25 - 130 | | | | 03/30/16 16:59 | 04/05/16 23:37 | 1 |
| 2-Fluorobiphenyl | 77 | | 42 - 115 | | | | 03/30/16 16:59 | 04/05/16 23:37 | 1 |
| 2-Fluorophenol | 91 | | 40 - 130 | | | | 03/30/16 16:59 | 04/05/16 23:37 | 1 |
| Nitrobenzene-d5 | 80 | | 33 - 124 | | | | 03/30/16 16:59 | 04/05/16 23:37 | 1 |
| Phenol-d5 | 91 | | 36 - 123 | | | | 03/30/16 16:59 | 04/05/16 23:37 | 1 |
| Terphenyl-d14 | 98 | | 25 - 150 | | | | 03/30/16 16:59 | 04/05/16 23:37 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.050 | | 0.050 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 16:24 | 1 |
| Barium | 0.32 | J | 0.50 | 0.050 | mg/L | | 04/02/16 13:50 | 04/04/16 16:24 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 04/02/16 13:50 | 04/04/16 16:24 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/02/16 13:50 | 04/04/16 16:24 | 1 |
| Chromium | <0.025 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 16:24 | 1 |
| Cobalt | 0.013 | J | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 16:24 | 1 |
| Copper | <0.025 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 16:24 | 1 |
| Iron | <0.40 | | 0.40 | 0.20 | mg/L | | 04/02/16 13:50 | 04/04/16 16:24 | 1 |
| Lead | <0.0075 | | 0.0075 | 0.0075 | mg/L | | 04/02/16 13:50 | 04/04/16 16:24 | 1 |
| Manganese | 3.7 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 16:24 | 1 |
| Nickel | 0.011 | J | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 16:24 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/02/16 13:50 | 04/04/16 16:24 | 1 |
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 16:24 | 1 |
| Zinc | <0.50 | | 0.50 | 0.020 | mg/L | | 04/02/16 13:50 | 04/04/16 16:24 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|---------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.062 | | 0.050 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 18:52 | 1 |
| Barium | 0.75 | | 0.50 | 0.050 | mg/L | | 04/04/16 08:37 | 04/04/16 18:52 | 1 |
| Beryllium | 0.0097 | | 0.0040 | 0.0040 | mg/L | | 04/04/16 08:37 | 04/04/16 18:52 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/04/16 08:37 | 04/04/16 18:52 | 1 |
| Chromium | 0.22 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 18:52 | 1 |
| Cobalt | 0.099 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 18:52 | 1 |
| Copper | 0.20 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 18:52 | 1 |
| Iron | 190 | | 0.40 | 0.20 | mg/L | | 04/04/16 08:37 | 04/04/16 18:52 | 1 |
| Lead | 0.14 | | 0.038 | 0.038 | mg/L | | 04/04/16 08:37 | 04/05/16 17:16 | 5 |
| Manganese | 1.7 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 18:52 | 1 |
| Nickel | 0.26 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 18:52 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/04/16 08:37 | 04/04/16 18:52 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109464-1

Client Sample ID: CB33-4(0-4)-033016

Lab Sample ID: 500-109464-8

Date Collected: 03/30/16 10:25

Matrix: Solid

Date Received: 03/30/16 14:45

Percent Solids: 80.0

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|-------------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 18:52 | 1 |
| Zinc | 0.46 | J | 0.50 | 0.020 | mg/L | | 04/04/16 08:37 | 04/04/16 18:52 | 1 |

Method: 6010B - Total Metals

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | <1.2 | | 1.2 | 0.24 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:47 | 1 |
| Arsenic | 8.1 | | 0.58 | 0.27 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:47 | 1 |
| Barium | 51 | | 0.58 | 0.11 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:47 | 1 |
| Beryllium | 0.87 | | 0.23 | 0.050 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:47 | 1 |
| Cadmium | <0.12 | | 0.12 | 0.033 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:47 | 1 |
| Calcium | 4800 | | 12 | 3.7 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:47 | 1 |
| Chromium | 21 | B | 0.58 | 0.099 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:47 | 1 |
| Cobalt | 16 | | 0.29 | 0.065 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:47 | 1 |
| Copper | 19 | | 0.58 | 0.12 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:47 | 1 |
| Iron | 20000 | B | 12 | 4.4 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:47 | 1 |
| Lead | 17 | | 0.29 | 0.14 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:47 | 1 |
| Magnesium | 5500 | B | 5.8 | 2.3 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:47 | 1 |
| Manganese | 320 | | 0.58 | 0.11 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:47 | 1 |
| Nickel | 41 | | 0.58 | 0.16 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:47 | 1 |
| Potassium | 2200 | B | 29 | 4.7 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:47 | 1 |
| Selenium | 0.46 | J | 0.58 | 0.28 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:47 | 1 |
| Silver | <0.29 | | 0.29 | 0.067 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:47 | 1 |
| Sodium | 1000 | B | 58 | 7.6 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:47 | 1 |
| Thallium | <0.58 | | 0.58 | 0.28 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:47 | 1 |
| Vanadium | 24 | | 0.29 | 0.084 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:47 | 1 |
| Zinc | 84 | B | 1.2 | 0.36 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:47 | 1 |

Method: 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/04/16 16:10 | 04/05/16 12:27 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/04/16 16:10 | 04/05/16 11:33 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Mercury | 17 | J | 18 | 9.5 | ug/Kg | ☼ | 04/01/16 13:30 | 04/04/16 11:20 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-------------|-----------|-------|-------|------|---|----------|----------------|---------|
| pH | 8.49 | | 0.200 | 0.200 | SU | | | 04/05/16 15:52 | 1 |

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109464-1

Client Sample ID: CB33-4(4-7.3)-033016

Lab Sample ID: 500-109464-9

Date Collected: 03/30/16 10:30

Matrix: Solid

Date Received: 03/30/16 14:45

Percent Solids: 82.2

Method: 8260B - VOC

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|-----------|-----------|-----|------|-------|---|----------|----------------|---------|
| Acetone | 36 | | 24 | 4.7 | ug/Kg | ☼ | | 04/04/16 18:07 | 1 |
| Benzene | <6.1 | | 6.1 | 1.3 | ug/Kg | ☼ | | 04/04/16 18:07 | 1 |
| Bromodichloromethane | <6.1 | | 6.1 | 1.0 | ug/Kg | ☼ | | 04/04/16 18:07 | 1 |
| Bromoform | <6.1 | | 6.1 | 1.2 | ug/Kg | ☼ | | 04/04/16 18:07 | 1 |
| Bromomethane | <6.1 | | 6.1 | 2.2 | ug/Kg | ☼ | | 04/04/16 18:07 | 1 |
| Carbon disulfide | <6.1 | | 6.1 | 2.2 | ug/Kg | ☼ | | 04/04/16 18:07 | 1 |
| Carbon tetrachloride | <6.1 | | 6.1 | 1.3 | ug/Kg | ☼ | | 04/04/16 18:07 | 1 |
| Chlorobenzene | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 04/04/16 18:07 | 1 |
| Chloroethane | <6.1 | | 6.1 | 2.6 | ug/Kg | ☼ | | 04/04/16 18:07 | 1 |
| Chloroform | <6.1 | | 6.1 | 1.2 | ug/Kg | ☼ | | 04/04/16 18:07 | 1 |
| Chloromethane | <6.1 | | 6.1 | 1.5 | ug/Kg | ☼ | | 04/04/16 18:07 | 1 |
| cis-1,2-Dichloroethene | <6.1 | | 6.1 | 1.2 | ug/Kg | ☼ | | 04/04/16 18:07 | 1 |
| cis-1,3-Dichloropropene | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 04/04/16 18:07 | 1 |
| Dibromochloromethane | <6.1 | | 6.1 | 0.70 | ug/Kg | ☼ | | 04/04/16 18:07 | 1 |
| 1,1-Dichloroethane | <6.1 | | 6.1 | 1.3 | ug/Kg | ☼ | | 04/04/16 18:07 | 1 |
| 1,2-Dichloroethane | <6.1 | | 6.1 | 0.90 | ug/Kg | ☼ | | 04/04/16 18:07 | 1 |
| 1,1-Dichloroethene | <6.1 | | 6.1 | 2.2 | ug/Kg | ☼ | | 04/04/16 18:07 | 1 |
| 1,2-Dichloropropane | <6.1 | | 6.1 | 1.6 | ug/Kg | ☼ | | 04/04/16 18:07 | 1 |
| 1,3-Dichloropropene, Total | <6.1 | | 6.1 | 1.7 | ug/Kg | ☼ | | 04/04/16 18:07 | 1 |
| Ethylbenzene | <6.1 | | 6.1 | 1.5 | ug/Kg | ☼ | | 04/04/16 18:07 | 1 |
| 2-Hexanone | <6.1 | | 6.1 | 1.9 | ug/Kg | ☼ | | 04/04/16 18:07 | 1 |
| Methylene Chloride | <6.1 | | 6.1 | 4.6 | ug/Kg | ☼ | | 04/04/16 18:07 | 1 |
| Methyl Ethyl Ketone | <6.1 | | 6.1 | 2.2 | ug/Kg | ☼ | | 04/04/16 18:07 | 1 |
| methyl isobutyl ketone | <6.1 | | 6.1 | 1.3 | ug/Kg | ☼ | | 04/04/16 18:07 | 1 |
| Methyl tert-butyl ether | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 04/04/16 18:07 | 1 |
| Styrene | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 04/04/16 18:07 | 1 |
| 1,1,2,2-Tetrachloroethane | <6.1 | | 6.1 | 0.97 | ug/Kg | ☼ | | 04/04/16 18:07 | 1 |
| Tetrachloroethene | <6.1 | | 6.1 | 1.3 | ug/Kg | ☼ | | 04/04/16 18:07 | 1 |
| Toluene | <6.1 | | 6.1 | 2.1 | ug/Kg | ☼ | | 04/04/16 18:07 | 1 |
| trans-1,2-Dichloroethene | <6.1 | | 6.1 | 1.5 | ug/Kg | ☼ | | 04/04/16 18:07 | 1 |
| trans-1,3-Dichloropropene | <6.1 | | 6.1 | 1.7 | ug/Kg | ☼ | | 04/04/16 18:07 | 1 |
| 1,1,1-Trichloroethane | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 04/04/16 18:07 | 1 |
| 1,1,2-Trichloroethane | <6.1 | | 6.1 | 1.2 | ug/Kg | ☼ | | 04/04/16 18:07 | 1 |
| Trichloroethene | <6.1 | | 6.1 | 1.6 | ug/Kg | ☼ | | 04/04/16 18:07 | 1 |
| Vinyl chloride | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 04/04/16 18:07 | 1 |
| Xylenes, Total | <12 | | 12 | 2.2 | ug/Kg | ☼ | | 04/04/16 18:07 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 106 | | 70 - 120 | | 04/04/16 18:07 | 1 |
| Dibromofluoromethane | 114 | | 75 - 120 | | 04/04/16 18:07 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 117 | | 69 - 134 | | 04/04/16 18:07 | 1 |
| Toluene-d8 (Surr) | 114 | | 75 - 123 | | 04/04/16 18:07 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,2,4-Trichlorobenzene | <200 | | 200 | 43 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:05 | 1 |
| 1,2-Dichlorobenzene | <200 | | 200 | 48 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:05 | 1 |
| 1,3-Dichlorobenzene | <200 | | 200 | 45 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:05 | 1 |
| 1,4-Dichlorobenzene | <200 | | 200 | 52 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:05 | 1 |
| 2,2'-oxybis[1-chloropropane] | <200 | | 200 | 47 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:05 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109464-1

Client Sample ID: CB33-4(4-7.3)-033016

Lab Sample ID: 500-109464-9

Date Collected: 03/30/16 10:30

Matrix: Solid

Date Received: 03/30/16 14:45

Percent Solids: 82.2

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol | <400 | | 400 | 92 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:05 | 1 |
| 2,4,6-Trichlorophenol | <400 | | 400 | 140 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:05 | 1 |
| 2,4-Dichlorophenol | <400 | | 400 | 96 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:05 | 1 |
| 2,4-Dimethylphenol | <400 | | 400 | 150 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:05 | 1 |
| 2,4-Dinitrophenol | <810 | | 810 | 710 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:05 | 1 |
| 2,4-Dinitrotoluene | <200 | | 200 | 64 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:05 | 1 |
| 2,6-Dinitrotoluene | <200 | | 200 | 79 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:05 | 1 |
| 2-Chloronaphthalene | <200 | | 200 | 45 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:05 | 1 |
| 2-Chlorophenol | <200 | | 200 | 69 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:05 | 1 |
| 2-Methylnaphthalene | <40 | | 40 | 7.4 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:05 | 1 |
| 2-Methylphenol | <200 | | 200 | 65 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:05 | 1 |
| 2-Nitroaniline | <200 | | 200 | 54 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:05 | 1 |
| 2-Nitrophenol | <400 | | 400 | 95 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:05 | 1 |
| 3 & 4 Methylphenol | <200 | | 200 | 67 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:05 | 1 |
| 3,3'-Dichlorobenzidine | <200 | | 200 | 56 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:05 | 1 |
| 3-Nitroaniline | <400 | | 400 | 120 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:05 | 1 |
| 4,6-Dinitro-2-methylphenol | <810 | | 810 | 320 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:05 | 1 |
| 4-Bromophenyl phenyl ether | <200 | | 200 | 53 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:05 | 1 |
| 4-Chloro-3-methylphenol | <400 | | 400 | 140 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:05 | 1 |
| 4-Chloroaniline | <810 | | 810 | 190 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:05 | 1 |
| 4-Chlorophenyl phenyl ether | <200 | | 200 | 47 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:05 | 1 |
| 4-Nitroaniline | <400 | | 400 | 170 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:05 | 1 |
| 4-Nitrophenol | <810 | | 810 | 380 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:05 | 1 |
| Acenaphthene | <40 | | 40 | 7.2 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:05 | 1 |
| Acenaphthylene | <40 | | 40 | 5.3 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:05 | 1 |
| Anthracene | <40 | | 40 | 6.7 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:05 | 1 |
| Benzo[a]anthracene | <40 | | 40 | 5.4 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:05 | 1 |
| Benzo[a]pyrene | <40 | | 40 | 7.8 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:05 | 1 |
| Benzo[b]fluoranthene | <40 | | 40 | 8.7 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:05 | 1 |
| Benzo[g,h,i]perylene | <40 | | 40 | 13 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:05 | 1 |
| Benzo[k]fluoranthene | <40 | | 40 | 12 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:05 | 1 |
| Bis(2-chloroethoxy)methane | <200 | | 200 | 41 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:05 | 1 |
| Bis(2-chloroethyl)ether | <200 | | 200 | 60 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:05 | 1 |
| Bis(2-ethylhexyl) phthalate | <200 | | 200 | 74 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:05 | 1 |
| Butyl benzyl phthalate | <200 | | 200 | 77 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:05 | 1 |
| Carbazole | <200 | | 200 | 100 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:05 | 1 |
| Chrysene | <40 | | 40 | 11 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:05 | 1 |
| Dibenz(a,h)anthracene | <40 | | 40 | 7.8 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:05 | 1 |
| Dibenzofuran | <200 | | 200 | 47 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:05 | 1 |
| Diethyl phthalate | <200 | | 200 | 68 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:05 | 1 |
| Dimethyl phthalate | <200 | | 200 | 53 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:05 | 1 |
| Di-n-butyl phthalate | <200 | | 200 | 61 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:05 | 1 |
| Di-n-octyl phthalate | <200 | | 200 | 66 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:05 | 1 |
| Fluoranthene | <40 | | 40 | 7.5 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:05 | 1 |
| Fluorene | <40 | | 40 | 5.7 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:05 | 1 |
| Hexachlorobenzene | <81 | | 81 | 9.3 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:05 | 1 |
| Hexachlorobutadiene | <200 | | 200 | 63 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:05 | 1 |
| Hexachlorocyclopentadiene | <810 | | 810 | 230 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:05 | 1 |
| Hexachloroethane | <200 | | 200 | 61 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:05 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109464-1

Client Sample ID: CB33-4(4-7.3)-033016

Lab Sample ID: 500-109464-9

Date Collected: 03/30/16 10:30

Matrix: Solid

Date Received: 03/30/16 14:45

Percent Solids: 82.2

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|-----------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Indeno[1,2,3-cd]pyrene | <40 | | 40 | 10 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:05 | 1 |
| Isophorone | <200 | | 200 | 45 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:05 | 1 |
| Naphthalene | <40 | | 40 | 6.2 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:05 | 1 |
| Nitrobenzene | <40 | | 40 | 10 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:05 | 1 |
| N-Nitrosodi-n-propylamine | <81 | | 81 | 49 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:05 | 1 |
| N-Nitrosodiphenylamine | <200 | | 200 | 48 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:05 | 1 |
| Pentachlorophenol | <810 | | 810 | 650 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:05 | 1 |
| Phenanthrene | 11 | J | 40 | 5.6 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:05 | 1 |
| Phenol | <200 | | 200 | 90 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:05 | 1 |
| Pyrene | <40 | | 40 | 8.0 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 00:05 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2,4,6-Tribromophenol | 62 | | 25 - 130 | 03/30/16 16:59 | 04/06/16 00:05 | 1 |
| 2-Fluorobiphenyl | 84 | | 42 - 115 | 03/30/16 16:59 | 04/06/16 00:05 | 1 |
| 2-Fluorophenol | 72 | | 40 - 130 | 03/30/16 16:59 | 04/06/16 00:05 | 1 |
| Nitrobenzene-d5 | 76 | | 33 - 124 | 03/30/16 16:59 | 04/06/16 00:05 | 1 |
| Phenol-d5 | 77 | | 36 - 123 | 03/30/16 16:59 | 04/06/16 00:05 | 1 |
| Terphenyl-d14 | 99 | | 25 - 150 | 03/30/16 16:59 | 04/06/16 00:05 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.050 | | 0.050 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 16:29 | 1 |
| Barium | 0.29 | J | 0.50 | 0.050 | mg/L | | 04/02/16 13:50 | 04/04/16 16:29 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 04/02/16 13:50 | 04/04/16 16:29 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/02/16 13:50 | 04/04/16 16:29 | 1 |
| Chromium | <0.025 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 16:29 | 1 |
| Cobalt | 0.012 | J | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 16:29 | 1 |
| Copper | <0.025 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 16:29 | 1 |
| Iron | <0.40 | | 0.40 | 0.20 | mg/L | | 04/02/16 13:50 | 04/04/16 16:29 | 1 |
| Lead | <0.0075 | | 0.0075 | 0.0075 | mg/L | | 04/02/16 13:50 | 04/04/16 16:29 | 1 |
| Manganese | 2.2 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 16:29 | 1 |
| Nickel | 0.024 | J | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 16:29 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/02/16 13:50 | 04/04/16 16:29 | 1 |
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 16:29 | 1 |
| Zinc | 0.023 | J | 0.50 | 0.020 | mg/L | | 04/02/16 13:50 | 04/04/16 16:29 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|---------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.049 | J | 0.050 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 18:57 | 1 |
| Barium | 0.38 | J | 0.50 | 0.050 | mg/L | | 04/04/16 08:37 | 04/04/16 18:57 | 1 |
| Beryllium | 0.0058 | | 0.0040 | 0.0040 | mg/L | | 04/04/16 08:37 | 04/04/16 18:57 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/04/16 08:37 | 04/04/16 18:57 | 1 |
| Chromium | 0.13 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 18:57 | 1 |
| Cobalt | 0.056 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 18:57 | 1 |
| Copper | 0.14 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 18:57 | 1 |
| Iron | 120 | | 0.40 | 0.20 | mg/L | | 04/04/16 08:37 | 04/04/16 18:57 | 1 |
| Lead | 0.098 | | 0.038 | 0.038 | mg/L | | 04/04/16 08:37 | 04/05/16 17:20 | 5 |
| Manganese | 1.0 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 18:57 | 1 |
| Nickel | 0.16 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 18:57 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/04/16 08:37 | 04/04/16 18:57 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109464-1

Client Sample ID: CB33-4(4-7.3)-033016

Lab Sample ID: 500-109464-9

Date Collected: 03/30/16 10:30

Matrix: Solid

Date Received: 03/30/16 14:45

Percent Solids: 82.2

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|-------------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 18:57 | 1 |
| Zinc | 0.31 | J | 0.50 | 0.020 | mg/L | | 04/04/16 08:37 | 04/04/16 18:57 | 1 |

Method: 6010B - Total Metals

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | <1.2 | | 1.2 | 0.25 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:52 | 1 |
| Arsenic | 7.7 | | 0.59 | 0.27 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:52 | 1 |
| Barium | 30 | | 0.59 | 0.11 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:52 | 1 |
| Beryllium | 0.63 | | 0.24 | 0.051 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:52 | 1 |
| Cadmium | <0.12 | | 0.12 | 0.034 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:52 | 1 |
| Calcium | 54000 | | 120 | 38 | mg/Kg | ☼ | 04/01/16 08:37 | 04/02/16 22:37 | 10 |
| Chromium | 15 | B | 0.59 | 0.10 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:52 | 1 |
| Cobalt | 12 | | 0.30 | 0.067 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:52 | 1 |
| Copper | 21 | | 0.59 | 0.13 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:52 | 1 |
| Iron | 18000 | B | 12 | 4.6 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:52 | 1 |
| Lead | 15 | | 0.30 | 0.15 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:52 | 1 |
| Magnesium | 21000 | B | 5.9 | 2.4 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:52 | 1 |
| Manganese | 250 | | 0.59 | 0.12 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:52 | 1 |
| Nickel | 32 | | 0.59 | 0.16 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:52 | 1 |
| Potassium | 2400 | B | 30 | 4.8 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:52 | 1 |
| Selenium | <0.59 | | 0.59 | 0.29 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:52 | 1 |
| Silver | <0.30 | | 0.30 | 0.070 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:52 | 1 |
| Sodium | 590 | B | 59 | 7.8 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:52 | 1 |
| Thallium | <0.59 | | 0.59 | 0.29 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:52 | 1 |
| Vanadium | 17 | | 0.30 | 0.087 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:52 | 1 |
| Zinc | 56 | B | 1.2 | 0.38 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:52 | 1 |

Method: 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/04/16 16:10 | 04/05/16 12:33 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/04/16 16:10 | 04/05/16 11:35 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Mercury | 21 | | 18 | 9.4 | ug/Kg | ☼ | 04/01/16 13:30 | 04/04/16 11:22 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-------------|-----------|-------|-------|------|---|----------|----------------|---------|
| pH | 8.77 | | 0.200 | 0.200 | SU | | | 04/05/16 15:55 | 1 |

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109464-1

Client Sample ID: CB33-4(4-7.3)-033016D

Lab Sample ID: 500-109464-10

Date Collected: 03/30/16 10:35

Matrix: Solid

Date Received: 03/30/16 14:45

Percent Solids: 84.2

Method: 8260B - VOC

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Acetone | 47 | | 24 | 4.6 | ug/Kg | ☼ | | 04/04/16 18:31 | 1 |
| Benzene | <5.9 | | 5.9 | 1.3 | ug/Kg | ☼ | | 04/04/16 18:31 | 1 |
| Bromodichloromethane | <5.9 | | 5.9 | 1.0 | ug/Kg | ☼ | | 04/04/16 18:31 | 1 |
| Bromoform | <5.9 | | 5.9 | 1.2 | ug/Kg | ☼ | | 04/04/16 18:31 | 1 |
| Bromomethane | <5.9 | | 5.9 | 2.2 | ug/Kg | ☼ | | 04/04/16 18:31 | 1 |
| Carbon disulfide | <5.9 | | 5.9 | 2.2 | ug/Kg | ☼ | | 04/04/16 18:31 | 1 |
| Carbon tetrachloride | <5.9 | | 5.9 | 1.3 | ug/Kg | ☼ | | 04/04/16 18:31 | 1 |
| Chlorobenzene | <5.9 | | 5.9 | 1.4 | ug/Kg | ☼ | | 04/04/16 18:31 | 1 |
| Chloroethane | <5.9 | | 5.9 | 2.5 | ug/Kg | ☼ | | 04/04/16 18:31 | 1 |
| Chloroform | <5.9 | | 5.9 | 1.2 | ug/Kg | ☼ | | 04/04/16 18:31 | 1 |
| Chloromethane | <5.9 | | 5.9 | 1.4 | ug/Kg | ☼ | | 04/04/16 18:31 | 1 |
| cis-1,2-Dichloroethene | <5.9 | | 5.9 | 1.2 | ug/Kg | ☼ | | 04/04/16 18:31 | 1 |
| cis-1,3-Dichloropropene | <5.9 | | 5.9 | 1.4 | ug/Kg | ☼ | | 04/04/16 18:31 | 1 |
| Dibromochloromethane | <5.9 | | 5.9 | 0.68 | ug/Kg | ☼ | | 04/04/16 18:31 | 1 |
| 1,1-Dichloroethane | <5.9 | | 5.9 | 1.2 | ug/Kg | ☼ | | 04/04/16 18:31 | 1 |
| 1,2-Dichloroethane | <5.9 | | 5.9 | 0.88 | ug/Kg | ☼ | | 04/04/16 18:31 | 1 |
| 1,1-Dichloroethene | <5.9 | | 5.9 | 2.2 | ug/Kg | ☼ | | 04/04/16 18:31 | 1 |
| 1,2-Dichloropropane | <5.9 | | 5.9 | 1.6 | ug/Kg | ☼ | | 04/04/16 18:31 | 1 |
| 1,3-Dichloropropene, Total | <5.9 | | 5.9 | 1.7 | ug/Kg | ☼ | | 04/04/16 18:31 | 1 |
| Ethylbenzene | <5.9 | | 5.9 | 1.5 | ug/Kg | ☼ | | 04/04/16 18:31 | 1 |
| 2-Hexanone | <5.9 | | 5.9 | 1.8 | ug/Kg | ☼ | | 04/04/16 18:31 | 1 |
| Methylene Chloride | <5.9 | | 5.9 | 4.5 | ug/Kg | ☼ | | 04/04/16 18:31 | 1 |
| Methyl Ethyl Ketone | <5.9 | | 5.9 | 2.1 | ug/Kg | ☼ | | 04/04/16 18:31 | 1 |
| methyl isobutyl ketone | <5.9 | | 5.9 | 1.2 | ug/Kg | ☼ | | 04/04/16 18:31 | 1 |
| Methyl tert-butyl ether | <5.9 | | 5.9 | 1.4 | ug/Kg | ☼ | | 04/04/16 18:31 | 1 |
| Styrene | <5.9 | | 5.9 | 1.4 | ug/Kg | ☼ | | 04/04/16 18:31 | 1 |
| 1,1,2,2-Tetrachloroethane | <5.9 | | 5.9 | 0.94 | ug/Kg | ☼ | | 04/04/16 18:31 | 1 |
| Tetrachloroethene | <5.9 | | 5.9 | 1.2 | ug/Kg | ☼ | | 04/04/16 18:31 | 1 |
| Toluene | <5.9 | | 5.9 | 2.1 | ug/Kg | ☼ | | 04/04/16 18:31 | 1 |
| trans-1,2-Dichloroethene | <5.9 | | 5.9 | 1.5 | ug/Kg | ☼ | | 04/04/16 18:31 | 1 |
| trans-1,3-Dichloropropene | <5.9 | | 5.9 | 1.7 | ug/Kg | ☼ | | 04/04/16 18:31 | 1 |
| 1,1,1-Trichloroethane | <5.9 | | 5.9 | 1.4 | ug/Kg | ☼ | | 04/04/16 18:31 | 1 |
| 1,1,2-Trichloroethane | <5.9 | | 5.9 | 1.2 | ug/Kg | ☼ | | 04/04/16 18:31 | 1 |
| Trichloroethene | <5.9 | | 5.9 | 1.6 | ug/Kg | ☼ | | 04/04/16 18:31 | 1 |
| Vinyl chloride | <5.9 | | 5.9 | 1.4 | ug/Kg | ☼ | | 04/04/16 18:31 | 1 |
| Xylenes, Total | <12 | | 12 | 2.2 | ug/Kg | ☼ | | 04/04/16 18:31 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 98 | | 70 - 120 | | 04/04/16 18:31 | 1 |
| Dibromofluoromethane | 110 | | 75 - 120 | | 04/04/16 18:31 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 114 | | 69 - 134 | | 04/04/16 18:31 | 1 |
| Toluene-d8 (Surr) | 118 | | 75 - 123 | | 04/04/16 18:31 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,2,4-Trichlorobenzene | <190 | | 190 | 40 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 06:18 | 1 |
| 1,2-Dichlorobenzene | <190 | | 190 | 45 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 06:18 | 1 |
| 1,3-Dichlorobenzene | <190 | | 190 | 42 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 06:18 | 1 |
| 1,4-Dichlorobenzene | <190 | | 190 | 48 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 06:18 | 1 |
| 2,2'-oxybis[1-chloropropane] | <190 | | 190 | 43 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 06:18 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109464-1

Client Sample ID: CB33-4(4-7.3)-033016D

Lab Sample ID: 500-109464-10

Date Collected: 03/30/16 10:35

Matrix: Solid

Date Received: 03/30/16 14:45

Percent Solids: 84.2

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-------------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol | <370 | | 370 | 86 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 06:18 | 1 |
| 2,4,6-Trichlorophenol | <370 | | 370 | 130 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 06:18 | 1 |
| 2,4-Dichlorophenol | <370 | | 370 | 89 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 06:18 | 1 |
| 2,4-Dimethylphenol | <370 | | 370 | 140 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 06:18 | 1 |
| 2,4-Dinitrophenol | <760 | | 760 | 660 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 06:18 | 1 |
| 2,4-Dinitrotoluene | <190 | | 190 | 60 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 06:18 | 1 |
| 2,6-Dinitrotoluene | <190 | | 190 | 74 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 06:18 | 1 |
| 2-Chloronaphthalene | <190 | | 190 | 41 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 06:18 | 1 |
| 2-Chlorophenol | <190 | | 190 | 64 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 06:18 | 1 |
| 2-Methylnaphthalene | 73 | | 37 | 6.9 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 06:18 | 1 |
| 2-Methylphenol | <190 | | 190 | 60 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 06:18 | 1 |
| 2-Nitroaniline | <190 | | 190 | 50 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 06:18 | 1 |
| 2-Nitrophenol | <370 | | 370 | 89 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 06:18 | 1 |
| 3 & 4 Methylphenol | <190 | | 190 | 63 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 06:18 | 1 |
| 3,3'-Dichlorobenzidine | <190 | | 190 | 52 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 06:18 | 1 |
| 3-Nitroaniline | <370 | | 370 | 120 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 06:18 | 1 |
| 4,6-Dinitro-2-methylphenol | <760 | | 760 | 300 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 06:18 | 1 |
| 4-Bromophenyl phenyl ether | <190 | | 190 | 49 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 06:18 | 1 |
| 4-Chloro-3-methylphenol | <370 | | 370 | 130 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 06:18 | 1 |
| 4-Chloroaniline | <760 | | 760 | 180 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 06:18 | 1 |
| 4-Chlorophenyl phenyl ether | <190 | | 190 | 44 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 06:18 | 1 |
| 4-Nitroaniline | <370 | | 370 | 160 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 06:18 | 1 |
| 4-Nitrophenol | <760 | | 760 | 360 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 06:18 | 1 |
| Acenaphthene | <37 | | 37 | 6.7 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 06:18 | 1 |
| Acenaphthylene | <37 | | 37 | 4.9 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 06:18 | 1 |
| Anthracene | <37 | | 37 | 6.3 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 06:18 | 1 |
| Benzo[a]anthracene | <37 | | 37 | 5.0 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 06:18 | 1 |
| Benzo[a]pyrene | <37 | | 37 | 7.3 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 06:18 | 1 |
| Benzo[b]fluoranthene | <37 | | 37 | 8.1 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 06:18 | 1 |
| Benzo[g,h,i]perylene | <37 | | 37 | 12 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 06:18 | 1 |
| Benzo[k]fluoranthene | <37 | | 37 | 11 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 06:18 | 1 |
| Bis(2-chloroethoxy)methane | <190 | | 190 | 38 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 06:18 | 1 |
| Bis(2-chloroethyl)ether | <190 | | 190 | 56 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 06:18 | 1 |
| Bis(2-ethylhexyl) phthalate | <190 | | 190 | 69 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 06:18 | 1 |
| Butyl benzyl phthalate | <190 | | 190 | 71 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 06:18 | 1 |
| Carbazole | <190 | | 190 | 94 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 06:18 | 1 |
| Chrysene | 11 J | | 37 | 10 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 06:18 | 1 |
| Dibenz(a,h)anthracene | <37 | | 37 | 7.2 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 06:18 | 1 |
| Dibenzofuran | <190 | | 190 | 44 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 06:18 | 1 |
| Diethyl phthalate | <190 | | 190 | 64 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 06:18 | 1 |
| Dimethyl phthalate | <190 | | 190 | 49 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 06:18 | 1 |
| Di-n-butyl phthalate | <190 | | 190 | 57 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 06:18 | 1 |
| Di-n-octyl phthalate | <190 | | 190 | 61 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 06:18 | 1 |
| Fluoranthene | <37 | | 37 | 7.0 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 06:18 | 1 |
| Fluorene | <37 | | 37 | 5.3 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 06:18 | 1 |
| Hexachlorobenzene | <76 | | 76 | 8.7 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 06:18 | 1 |
| Hexachlorobutadiene | <190 | | 190 | 59 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 06:18 | 1 |
| Hexachlorocyclopentadiene | <760 | | 760 | 220 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 06:18 | 1 |
| Hexachloroethane | <190 | | 190 | 57 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 06:18 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109464-1

Client Sample ID: CB33-4(4-7.3)-033016D

Lab Sample ID: 500-109464-10

Date Collected: 03/30/16 10:35

Matrix: Solid

Date Received: 03/30/16 14:45

Percent Solids: 84.2

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| Indeno[1,2,3-cd]pyrene | <37 | | 37 | 9.7 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 06:18 | 1 |
| Isophorone | <190 | | 190 | 42 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 06:18 | 1 |
| Naphthalene | <37 | | 37 | 5.8 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 06:18 | 1 |
| Nitrobenzene | <37 | | 37 | 9.4 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 06:18 | 1 |
| N-Nitrosodi-n-propylamine | <76 | | 76 | 46 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 06:18 | 1 |
| N-Nitrosodiphenylamine | <190 | | 190 | 44 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 06:18 | 1 |
| Pentachlorophenol | <760 | | 760 | 600 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 06:18 | 1 |
| Phenanthrene | 46 | | 37 | 5.2 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 06:18 | 1 |
| Phenol | <190 | | 190 | 83 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 06:18 | 1 |
| Pyrene | 13 J | | 37 | 7.4 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 06:18 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| <i>2,4,6-Tribromophenol</i> | 78 | | 25 - 130 | | | | 03/30/16 16:59 | 04/06/16 06:18 | 1 |
| <i>2-Fluorobiphenyl</i> | 78 | | 42 - 115 | | | | 03/30/16 16:59 | 04/06/16 06:18 | 1 |
| <i>2-Fluorophenol</i> | 76 | | 40 - 130 | | | | 03/30/16 16:59 | 04/06/16 06:18 | 1 |
| <i>Nitrobenzene-d5</i> | 75 | | 33 - 124 | | | | 03/30/16 16:59 | 04/06/16 06:18 | 1 |
| <i>Phenol-d5</i> | 77 | | 36 - 123 | | | | 03/30/16 16:59 | 04/06/16 06:18 | 1 |
| <i>Terphenyl-d14</i> | 117 | | 25 - 150 | | | | 03/30/16 16:59 | 04/06/16 06:18 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|----------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.050 | | 0.050 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 16:43 | 1 |
| Barium | 0.27 J | | 0.50 | 0.050 | mg/L | | 04/02/16 13:50 | 04/04/16 16:43 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 04/02/16 13:50 | 04/04/16 16:43 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/02/16 13:50 | 04/04/16 16:43 | 1 |
| Chromium | <0.025 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 16:43 | 1 |
| Cobalt | <0.025 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 16:43 | 1 |
| Copper | <0.025 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 16:43 | 1 |
| Iron | <0.40 | | 0.40 | 0.20 | mg/L | | 04/02/16 13:50 | 04/04/16 16:43 | 1 |
| Lead | <0.0075 | | 0.0075 | 0.0075 | mg/L | | 04/02/16 13:50 | 04/04/16 16:43 | 1 |
| Manganese | 2.4 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 16:43 | 1 |
| Nickel | 0.012 J | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 16:43 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/02/16 13:50 | 04/04/16 16:43 | 1 |
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 16:43 | 1 |
| Zinc | <0.50 | | 0.50 | 0.020 | mg/L | | 04/02/16 13:50 | 04/04/16 16:43 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|----------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.042 J | | 0.050 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 19:02 | 1 |
| Barium | 0.38 J | | 0.50 | 0.050 | mg/L | | 04/04/16 08:37 | 04/04/16 19:02 | 1 |
| Beryllium | 0.0053 | | 0.0040 | 0.0040 | mg/L | | 04/04/16 08:37 | 04/04/16 19:02 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/04/16 08:37 | 04/04/16 19:02 | 1 |
| Chromium | 0.11 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 19:02 | 1 |
| Cobalt | 0.056 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 19:02 | 1 |
| Copper | 0.14 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 19:02 | 1 |
| Iron | 110 | | 0.40 | 0.20 | mg/L | | 04/04/16 08:37 | 04/04/16 19:02 | 1 |
| Lead | 0.078 | | 0.0075 | 0.0075 | mg/L | | 04/04/16 08:37 | 04/04/16 19:02 | 1 |
| Manganese | 1.2 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 19:02 | 1 |
| Nickel | 0.15 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 19:02 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/04/16 08:37 | 04/04/16 19:02 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109464-1

Client Sample ID: CB33-4(4-7.3)-033016D

Lab Sample ID: 500-109464-10

Date Collected: 03/30/16 10:35

Matrix: Solid

Date Received: 03/30/16 14:45

Percent Solids: 84.2

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|-------------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 19:02 | 1 |
| Zinc | 0.29 | J | 0.50 | 0.020 | mg/L | | 04/04/16 08:37 | 04/04/16 19:02 | 1 |

Method: 6010B - Total Metals

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | 0.26 | J | 1.0 | 0.21 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:57 | 1 |
| Arsenic | 7.0 | | 0.51 | 0.23 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:57 | 1 |
| Barium | 27 | | 0.51 | 0.093 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:57 | 1 |
| Beryllium | 0.57 | | 0.20 | 0.044 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:57 | 1 |
| Cadmium | <0.10 | | 0.10 | 0.029 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:57 | 1 |
| Calcium | 64000 | | 100 | 33 | mg/Kg | ☼ | 04/01/16 08:37 | 04/02/16 22:50 | 10 |
| Chromium | 15 | B | 0.51 | 0.087 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:57 | 1 |
| Cobalt | 8.9 | | 0.25 | 0.057 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:57 | 1 |
| Copper | 20 | | 0.51 | 0.11 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:57 | 1 |
| Iron | 19000 | B | 10 | 3.9 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:57 | 1 |
| Lead | 13 | | 0.25 | 0.13 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:57 | 1 |
| Magnesium | 19000 | B | 5.1 | 2.1 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:57 | 1 |
| Manganese | 240 | | 0.51 | 0.10 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:57 | 1 |
| Nickel | 31 | | 0.51 | 0.14 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:57 | 1 |
| Potassium | 2100 | B | 25 | 4.1 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:57 | 1 |
| Selenium | <0.51 | | 0.51 | 0.25 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:57 | 1 |
| Silver | <0.25 | | 0.25 | 0.059 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:57 | 1 |
| Sodium | 790 | B | 51 | 6.7 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:57 | 1 |
| Thallium | <0.51 | | 0.51 | 0.25 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:57 | 1 |
| Vanadium | 17 | | 0.25 | 0.074 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:57 | 1 |
| Zinc | 58 | B | 1.0 | 0.32 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:57 | 1 |

Method: 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/04/16 16:10 | 04/05/16 12:35 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/04/16 16:10 | 04/05/16 11:37 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Mercury | 26 | | 20 | 10 | ug/Kg | ☼ | 04/01/16 13:30 | 04/04/16 11:24 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-------------|-----------|-------|-------|------|---|----------|----------------|---------|
| pH | 8.46 | | 0.200 | 0.200 | SU | | | 04/05/16 15:57 | 1 |

Definitions/Glossary

Client: Environmental Design International, Inc.
Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109464-1

Qualifiers

GC/MS VOA

| Qualifier | Qualifier Description |
|-----------|--|
| F1 | MS and/or MSD Recovery is outside acceptance limits. |
| * | LCS or LCSD is outside acceptance limits. |

GC/MS Semi VOA

| Qualifier | Qualifier Description |
|-----------|--|
| F2 | MS/MSD RPD exceeds control limits |
| F1 | MS and/or MSD Recovery is outside acceptance limits. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| E | Result exceeded calibration range. |
| X | Surrogate is outside control limits |

Metals

| Qualifier | Qualifier Description |
|-----------|--|
| F1 | MS and/or MSD Recovery is outside acceptance limits. |
| F2 | MS/MSD RPD exceeds control limits |
| B | Compound was found in the blank and sample. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| F3 | Duplicate RPD exceeds the control limit |
| F5 | Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL. |
| 4 | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |

Glossary

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

Certification Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109464-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|-----------|---------|------------|------------------|-----------------|
| Illinois | NELAP | 5 | 100201 | 04-30-17 |

The following analytes are included in this report, but certification is not offered by the governing authority:

| Analysis Method | Prep Method | Matrix | Analyte |
|-----------------|-------------|--------|----------------------------|
| 8260B | | Solid | 1,3-Dichloropropene, Total |
| 8260B | 5030B | Solid | 1,3-Dichloropropene, Total |
| Moisture | | Solid | Percent Moisture |
| Moisture | | Solid | Percent Solids |

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To _____ (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

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


Chain of Custody Record

Lab Job #: 500-109464

Chain of Custody Number: _____

Page 1 of 2

Temperature °C of Cooler: 5.1

| Client | | Client Project # | | Preservative | | Parameter | | Comments | | | | |
|------------------------|--------|-----------------------|---------|-----------------|-----------------|-----------|------|---|--------------|------------------|----|----------|
| EDJ | | 0295.022 | | | | | |  Preservative Key 4° 5 4° 3 4° 2 4° 1 4° 500-109464 COC | | | | |
| Project Name | | Lab Project # | | # of Containers | | Matrix | | Comments | | | | |
| IDOT - Harvey | | | | | | | | | | | | |
| Project Location/State | | Lab Project # | | Date | | Time | | Comments | | | | |
| Harvey IL | | | | | | | | | | | | |
| Sampler | | Lab PM | | Date | | Time | | Comments | | | | |
| Colin Pannier | | | | | | | | | | | | |
| Lab ID | MS/MSD | Sample ID | Date | Time | # of Containers | Matrix | VOCS | SVOCs | Total Metals | TECH SVOC Metals | pH | Comments |
| 1 | | R44-1(0-3.4)-033016 | 3/30/16 | 0845 | 2 | S | X | X | X | X | X | |
| 2 | | CB45-1(0-4)-033016 | | 0855 | | | | | | | | |
| 3 | | CB45-2(0.6.6)-033016 | | 0910 | | | | | | | | |
| 4 | | CB33-1(0-4)-033016 | | 0925 | | | | | | | | |
| 5 | | CB33-2(0-4)-033016 | | 0945 | | | | | | | | |
| 6 | | CB33-2(4-7.3)-033016 | | 0950 | | | | | | | | |
| 7 | | CB33-3(0-4)-033016 | | 1000 | | | | | | | | |
| 8 | | CB33-4(0-4)-033016 | | 1025 | | | | | | | | |
| 9 | | CB33-4(4-7.3)-033016 | | 1030 | | | | | | | | |
| 10 | | CB33-4(4-7.3)-033016D | | 1035 | | | X | X | X | X | X | |


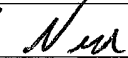
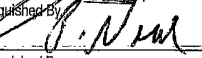

Turnaround Time Required (Business Days)

1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other

Requested Due Date _____

Sample Disposal

Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

| | | | | | | | | |
|---|----------------|---------------|-------------|---|-----------------|----------------|-------------|-----------------------|
| Relinquished By:  | Company: EDJ | Date: 3/30/16 | Time: 1:25 | Received By:  | Company: TA | Date: 3/30/16 | Time: 1:25 | Lab Courier: TA |
| Relinquished By:  | Company: TA | Date: 3/30/16 | Time: 1:45 | Received By:  | Company: TA-CHI | Date: 03/30/16 | Time: 1:45 | Shipped: _____ |
| Relinquished By: _____ | Company: _____ | Date: _____ | Time: _____ | Received By: _____ | Company: _____ | Date: _____ | Time: _____ | Hand Delivered: _____ |

Matrix Key
 WW - Wastewater SE - Sediment
 W - Water SO - Soil
 S - Soil L - Leachate
 SL - Sludge WI - Wipe
 MS - Miscellaneous DW - Drinking Water
 OL - Oil O - Other
 A - Air

Client Comments:

Lab Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional) _____
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

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

Chain of Custody Record

Lab Job #: 500-109464
 Chain of Custody Number: _____
 Page 2 of 2
 Temperature °C of Cooler: 5.1

| Client | | Client Project # | | Preservative | | Parameter | | Matrix | | Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other | | |
|------------------------|--------|----------------------|---------|--------------|-----------------|-----------------|---|--------|---|---|----------|--|
| Project Name | | Lab Project # | | Sampling | | # of Containers | | Matrix | | | | |
| Project Location/State | | Lab PM | | Date | Time | | | | | | | |
| EDI | | 0295.022 | | | | | | | | VOCs SVOCs Total Metals TECD/SPLD Metals pH | | |
| IDOT - Harvey | | | | | | | | | | | | |
| Harvey IL | | | | | | | | | | | | |
| Glin Ponder | | | | | | | | | | | | |
| Lab ID | MS/MSD | Sample ID | Date | Time | # of Containers | Matrix | | | | | Comments | |
| 11 | | VL26-1(6-5.2)-033016 | 3/30/16 | 1135 | 2 | 5 | X | X | X | | X | |
| 12 | | VL26-2(0-5.2)-033016 | | 1150 | | | X | X | X | | X | |
| 13 | | VL25-1(0-4.5)-033016 | | 1205 | | | X | X | X | | X | |
| 14 | | CG-1(0-4)-033016 | | 1225 | | | X | X | X | | X | |
| 15 | | CG-2(0-4)-033016 | | 1245 | | | X | X | X | | X | |
| 16 | | CG-2(0-4)-033016 D | | 1250 | | | X | X | X | X | | |
| 17 | | CG-3(0-4)-033016 | | 1300 | | | X | X | X | X | | |
| 18 | | CG-4(0-4)-033016 | | 1315 | | | X | X | X | X | | |
| 19 | | CG-5(0-4.5)-033016 | | 1335 | | | X | X | X | X | | |

Turnaround Time Required (Business Days)

___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days ___ Other

Sample Disposal

Requested Due Date _____
 Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

| | | | | | | |
|---|---------------|-------------|--|----------------|-------------|-----------------------|
| Relinquished By <i>[Signature]</i> Company: EDI | Date: 3/30/16 | Time: 1425 | Received By <i>[Signature]</i> Company: TA | Date: 3/30/16 | Time: 1425 | Lab Courier: TA |
| Relinquished By <i>[Signature]</i> Company: TA | Date: 3/30/16 | Time: 1445 | Received By <i>[Signature]</i> Company: TA | Date: 03/30/16 | Time: 1445 | Shipped: _____ |
| Relinquished By Company: _____ | Date: _____ | Time: _____ | Received By Company: _____ | Date: _____ | Time: _____ | Hand Delivered: _____ |

Matrix Key

- WW - Wastewater
- W - Water
- S - Soil
- SL - Sludge
- MS - Miscellaneous
- OL - Oil
- A - Air
- SE - Sediment
- SO - Soil
- L - Leachate
- WI - Wipe
- DW - Drinking Water
- O - Other

Client Comments

Lab Comments:



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

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

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

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

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

I. Source Location Information

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

Project Name: FAU 3597: IL Route 1 (Halsted St) at Vincennes Rd Office Phone Number, if available: _____

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

503 to 513 E. 153rd Street (ISGS Site No. 2553V-45)

City: Phoenix State: IL Zip Code: _____

County: Cook Township: _____

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

Latitude: 41.61078611 Longitude: -87.63636389

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

- GPS Map Interpolation Photo Interpolation Survey Other

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

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

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

Project Name: FAU 3597: IL Route 1 (Halsted St) at VincennesLatitude: 41.61078611 Longitude: -87.63636389Uncontaminated Site Certification**III. Basis for Certification and Attachments**

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

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

LOCATIONS CB45-1 AND CB45-2 WERE SAMPLED ADJACENT TO ISGS SITE No. 2553V-45. SEE FIGURE 3-1 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

- 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]:

TEST AMERICA REPORTS - JOB ID: 500-109464-1.
ALSO SEE FIGURE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

I, William F. Karlovitz, P.E. (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: Weston Solutions, Inc.Street Address: 300 Circle Plaza; Suite 202City: Mundelein State: IL Zip Code: 60060Phone: (224) 864-7200William F. Karlovitz, P.E.

Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

17 May 2016

Date:



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

Summary Table of ISGS Site No. 2553V-45
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAU 3597: Illinois Route 1 (Halsted Street) at Vincennes Road
Harvey, Cook County, Illinois

| Field Sample ID | CB45-1(0-4)-033016 | CB45-2(0-6.6)-033016 | Soil Reference Concentrations ^A |
|-----------------------------|--------------------|----------------------|--|
| Sample Date | 3/30/2016 | 3/30/2016 | |
| Location ID | CB45-1 | CB45-2 | |
| Depth | 0 - 4 | 0 - 6.6 | |
| Lab Sample ID | 500-109464-2 | 500-109464-3 | |
| ISGS Site No. | 2553V-45 | 2553V-45 | |
| Parameter | | | |
| Laboratory pH | 8.25 | 8.27 | <6.25,>9.0 |
| VOCs (ug/kg) | None Detected | | |
| SVOCs (ug/kg) | | | |
| Benzo(a)anthracene | 5.6 J | ND | 900 / 1100 / 1800 |
| Total Metals (mg/kg) | | | |
| Arsenic, Total | 8.5 J | 6.7 J | 11.3 / 13.0 |
| Barium, Total | 38 J | 21 J | 1500 |
| Beryllium, Total | 0.52 J- | 0.44 J- | 22 |
| Cadmium, Total | 0.061 J | ND | 5.2 |
| Calcium, Total | 2800 J | 10000 J | --- |
| Chromium, Total | 15 B | 13 B | 21 |
| Cobalt, Total | 24 J | 9.9 J | 20 |
| Copper, Total | 20 J | 21 J | 2900 |
| Iron, Total | 21000 J | 18000 J | 15000 / 15900 |
| Lead, Total | 21 J | 18 J | 107 |
| Magnesium, Total | 3900 J | 8300 J | 325000 |
| Manganese, Total | 540 J | 250 J | 630 / 636 |
| Mercury, Total | 0.039 | 0.03 | 0.89 |
| Nickel, Total | 35 J | 27 J | 100 |
| Potassium, Total | 1500 J+ | 1500 J+ | --- |
| Selenium, Total | 0.54 J | 0.36 J | 1.3 |
| Sodium, Total | 350 J- | 740 J- | --- |
| Thallium, Total | 0.31 J | ND | 2.6 |
| Vanadium, Total | 16 J | 14 J | 550 |
| Zinc, Total | 57 J- | 81 J- | 5100 |
| TCLP Metals (mg/l) | | | |
| Arsenic, TCLP | ND | ND | 0.05 |
| Barium, TCLP | 0.092 J | 0.14 J | 2 |
| Beryllium, TCLP | ND | ND | 0.004 |
| Cadmium, TCLP | ND | ND | 0.005 |
| Chromium, TCLP | ND | ND | 0.1 |
| Cobalt, TCLP | ND | ND | 1 |
| Copper, TCLP | ND | ND | 0.65 |
| Iron, TCLP | 0.24 J | ND | 5 |
| Lead, TCLP | ND | ND | 0.0075 |
| Manganese, TCLP | 0.046 | 1.1 | 0.15 |
| Mercury, TCLP | ND | ND | 0.002 |
| Nickel, TCLP | ND | 0.015 J | 0.1 |
| Selenium, TCLP | ND | ND | 0.05 |
| Zinc, TCLP | ND | 0.11 J | 5 |
| SPLP Metals (mg/l) | | | |
| Arsenic, SPLP | 0.067 | 0.08 | 0.05 |
| Barium, SPLP | 0.39 J | 0.27 J | 2 |
| Beryllium, SPLP | 0.007 | 0.0062 | 0.004 |
| Cadmium, SPLP | ND | ND | 0.005 |
| Chromium, SPLP | 0.16 J+ | 0.15 J+ | 0.1 |
| Cobalt, SPLP | 0.061 | 0.048 | 1 |
| Copper, SPLP | 0.14 | 0.13 | 0.65 |
| Iron, SPLP | 200 J+ | 160 J+ | 5 |
| Lead, SPLP | 0.1 J+ | 0.098 J+ | 0.0075 |
| Manganese, SPLP | 0.69 J+ | 0.46 J+ | 0.15 |
| Mercury, SPLP | ND | ND | 0.002 |
| Nickel, SPLP | 0.2 | 0.15 | 0.1 |
| Selenium, SPLP | ND | ND | 0.05 |
| Zinc, SPLP | 0.36 J | 0.31 J | 5 |

Summary Table of ISGS Site No. 2553V-45
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAU 3597: Illinois Route 1 (Halsted Street) at Vincennes Road
Harvey, Cook County, Illinois

Notes:

--- - not applicable or value not available.

^A - Soil reference concentrations from MAC Table. Background values for MSA Counties and Chicago corporate limits are included, as applicable.

B - Constituent detected in the blank and investigative sample.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J+ - Estimated concentration; biased high.

J- - Estimated concentration; biased low.

 Shaded values indicate concentration **exceeds** Reference Concentration.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-109464-1

Client Project/Site: IDOT - Harvey IL Route 113 - WO 041

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

Attn: Ms. Patricia Feeley

Jodie Bracken

Authorized for release by:
4/8/2016 3:17:01 PM

Jodie Bracken, Project Management Assistant II
jodie.bracken@testamericainc.com

Designee for

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.

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

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109464-1

Client Sample ID: CB45-1(0-4)-033016

Lab Sample ID: 500-109464-2

Date Collected: 03/30/16 08:55

Matrix: Solid

Date Received: 03/30/16 14:45

Percent Solids: 78.6

Method: 8260B - VOC

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Acetone | <25 | | 25 | 4.9 | ug/Kg | ☼ | | 04/04/16 15:18 | 1 |
| Benzene | <6.4 | | 6.4 | 1.4 | ug/Kg | ☼ | | 04/04/16 15:18 | 1 |
| Bromodichloromethane | <6.4 | | 6.4 | 1.1 | ug/Kg | ☼ | | 04/04/16 15:18 | 1 |
| Bromoform | <6.4 | | 6.4 | 1.3 | ug/Kg | ☼ | | 04/04/16 15:18 | 1 |
| Bromomethane | <6.4 | | 6.4 | 2.3 | ug/Kg | ☼ | | 04/04/16 15:18 | 1 |
| Carbon disulfide | <6.4 | | 6.4 | 2.3 | ug/Kg | ☼ | | 04/04/16 15:18 | 1 |
| Carbon tetrachloride | <6.4 | | 6.4 | 1.4 | ug/Kg | ☼ | | 04/04/16 15:18 | 1 |
| Chlorobenzene | <6.4 | | 6.4 | 1.5 | ug/Kg | ☼ | | 04/04/16 15:18 | 1 |
| Chloroethane | <6.4 | | 6.4 | 2.7 | ug/Kg | ☼ | | 04/04/16 15:18 | 1 |
| Chloroform | <6.4 | | 6.4 | 1.2 | ug/Kg | ☼ | | 04/04/16 15:18 | 1 |
| Chloromethane | <6.4 | | 6.4 | 1.5 | ug/Kg | ☼ | | 04/04/16 15:18 | 1 |
| cis-1,2-Dichloroethene | <6.4 | | 6.4 | 1.3 | ug/Kg | ☼ | | 04/04/16 15:18 | 1 |
| cis-1,3-Dichloropropene | <6.4 | | 6.4 | 1.5 | ug/Kg | ☼ | | 04/04/16 15:18 | 1 |
| Dibromochloromethane | <6.4 | | 6.4 | 0.73 | ug/Kg | ☼ | | 04/04/16 15:18 | 1 |
| 1,1-Dichloroethane | <6.4 | | 6.4 | 1.3 | ug/Kg | ☼ | | 04/04/16 15:18 | 1 |
| 1,2-Dichloroethane | <6.4 | | 6.4 | 0.94 | ug/Kg | ☼ | | 04/04/16 15:18 | 1 |
| 1,1-Dichloroethene | <6.4 | | 6.4 | 2.3 | ug/Kg | ☼ | | 04/04/16 15:18 | 1 |
| 1,2-Dichloropropane | <6.4 | | 6.4 | 1.7 | ug/Kg | ☼ | | 04/04/16 15:18 | 1 |
| 1,3-Dichloropropene, Total | <6.4 | | 6.4 | 1.8 | ug/Kg | ☼ | | 04/04/16 15:18 | 1 |
| Ethylbenzene | <6.4 | | 6.4 | 1.6 | ug/Kg | ☼ | | 04/04/16 15:18 | 1 |
| 2-Hexanone | <6.4 | | 6.4 | 2.0 | ug/Kg | ☼ | | 04/04/16 15:18 | 1 |
| Methylene Chloride | <6.4 | | 6.4 | 4.8 | ug/Kg | ☼ | | 04/04/16 15:18 | 1 |
| Methyl Ethyl Ketone | <6.4 | | 6.4 | 2.3 | ug/Kg | ☼ | | 04/04/16 15:18 | 1 |
| methyl isobutyl ketone | <6.4 | | 6.4 | 1.3 | ug/Kg | ☼ | | 04/04/16 15:18 | 1 |
| Methyl tert-butyl ether | <6.4 | | 6.4 | 1.5 | ug/Kg | ☼ | | 04/04/16 15:18 | 1 |
| Styrene | <6.4 | | 6.4 | 1.5 | ug/Kg | ☼ | | 04/04/16 15:18 | 1 |
| 1,1,2,2-Tetrachloroethane | <6.4 | | 6.4 | 1.0 | ug/Kg | ☼ | | 04/04/16 15:18 | 1 |
| Tetrachloroethene | <6.4 | | 6.4 | 1.3 | ug/Kg | ☼ | | 04/04/16 15:18 | 1 |
| Toluene | <6.4 | | 6.4 | 2.2 | ug/Kg | ☼ | | 04/04/16 15:18 | 1 |
| trans-1,2-Dichloroethene | <6.4 | | 6.4 | 1.6 | ug/Kg | ☼ | | 04/04/16 15:18 | 1 |
| trans-1,3-Dichloropropene | <6.4 | | 6.4 | 1.8 | ug/Kg | ☼ | | 04/04/16 15:18 | 1 |
| 1,1,1-Trichloroethane | <6.4 | | 6.4 | 1.5 | ug/Kg | ☼ | | 04/04/16 15:18 | 1 |
| 1,1,2-Trichloroethane | <6.4 | | 6.4 | 1.2 | ug/Kg | ☼ | | 04/04/16 15:18 | 1 |
| Trichloroethene | <6.4 | | 6.4 | 1.7 | ug/Kg | ☼ | | 04/04/16 15:18 | 1 |
| Vinyl chloride | <6.4 | | 6.4 | 1.5 | ug/Kg | ☼ | | 04/04/16 15:18 | 1 |
| Xylenes, Total | <13 | | 13 | 2.4 | ug/Kg | ☼ | | 04/04/16 15:18 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 105 | | 70 - 120 | | 04/04/16 15:18 | 1 |
| Dibromofluoromethane | 112 | | 75 - 120 | | 04/04/16 15:18 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 113 | | 69 - 134 | | 04/04/16 15:18 | 1 |
| Toluene-d8 (Surr) | 113 | | 75 - 123 | | 04/04/16 15:18 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,2,4-Trichlorobenzene | <210 | | 210 | 44 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:23 | 1 |
| 1,2-Dichlorobenzene | <210 | | 210 | 49 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:23 | 1 |
| 1,3-Dichlorobenzene | <210 | | 210 | 46 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:23 | 1 |
| 1,4-Dichlorobenzene | <210 | | 210 | 53 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:23 | 1 |
| 2,2'-oxybis[1-chloropropane] | <210 | | 210 | 48 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:23 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109464-1

Client Sample ID: CB45-1(0-4)-033016

Lab Sample ID: 500-109464-2

Date Collected: 03/30/16 08:55

Matrix: Solid

Date Received: 03/30/16 14:45

Percent Solids: 78.6

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol | <410 | | 410 | 94 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:23 | 1 |
| 2,4,6-Trichlorophenol | <410 | | 410 | 140 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:23 | 1 |
| 2,4-Dichlorophenol | <410 | | 410 | 98 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:23 | 1 |
| 2,4-Dimethylphenol | <410 | | 410 | 160 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:23 | 1 |
| 2,4-Dinitrophenol | <830 | | 830 | 720 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:23 | 1 |
| 2,4-Dinitrotoluene | <210 | | 210 | 65 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:23 | 1 |
| 2,6-Dinitrotoluene | <210 | | 210 | 81 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:23 | 1 |
| 2-Chloronaphthalene | <210 | | 210 | 45 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:23 | 1 |
| 2-Chlorophenol | <210 | | 210 | 70 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:23 | 1 |
| 2-Methylnaphthalene | <41 | | 41 | 7.6 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:23 | 1 |
| 2-Methylphenol | <210 | | 210 | 66 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:23 | 1 |
| 2-Nitroaniline | <210 | | 210 | 55 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:23 | 1 |
| 2-Nitrophenol | <410 | | 410 | 97 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:23 | 1 |
| 3 & 4 Methylphenol | <210 | | 210 | 69 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:23 | 1 |
| 3,3'-Dichlorobenzidine | <210 | | 210 | 58 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:23 | 1 |
| 3-Nitroaniline | <410 | | 410 | 130 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:23 | 1 |
| 4,6-Dinitro-2-methylphenol | <830 | | 830 | 330 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:23 | 1 |
| 4-Bromophenyl phenyl ether | <210 | | 210 | 54 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:23 | 1 |
| 4-Chloro-3-methylphenol | <410 | | 410 | 140 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:23 | 1 |
| 4-Chloroaniline | <830 | | 830 | 190 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:23 | 1 |
| 4-Chlorophenyl phenyl ether | <210 | | 210 | 48 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:23 | 1 |
| 4-Nitroaniline | <410 | | 410 | 170 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:23 | 1 |
| 4-Nitrophenol | <830 | | 830 | 390 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:23 | 1 |
| Acenaphthene | <41 | | 41 | 7.4 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:23 | 1 |
| Acenaphthylene | <41 | | 41 | 5.4 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:23 | 1 |
| Anthracene | <41 | | 41 | 6.9 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:23 | 1 |
| Benzo[a]anthracene | 5.6 J | | 41 | 5.5 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:23 | 1 |
| Benzo[a]pyrene | <41 | | 41 | 8.0 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:23 | 1 |
| Benzo[b]fluoranthene | <41 | | 41 | 8.9 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:23 | 1 |
| Benzo[g,h,i]perylene | <41 | | 41 | 13 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:23 | 1 |
| Benzo[k]fluoranthene | <41 | | 41 | 12 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:23 | 1 |
| Bis(2-chloroethoxy)methane | <210 | | 210 | 42 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:23 | 1 |
| Bis(2-chloroethyl)ether | <210 | | 210 | 62 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:23 | 1 |
| Bis(2-ethylhexyl) phthalate | <210 | | 210 | 75 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:23 | 1 |
| Butyl benzyl phthalate | <210 | | 210 | 78 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:23 | 1 |
| Carbazole | <210 | | 210 | 100 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:23 | 1 |
| Chrysene | <41 | | 41 | 11 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:23 | 1 |
| Dibenz(a,h)anthracene | <41 | | 41 | 7.9 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:23 | 1 |
| Dibenzofuran | <210 | | 210 | 48 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:23 | 1 |
| Diethyl phthalate | <210 | | 210 | 70 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:23 | 1 |
| Dimethyl phthalate | <210 | | 210 | 54 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:23 | 1 |
| Di-n-butyl phthalate | <210 | | 210 | 63 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:23 | 1 |
| Di-n-octyl phthalate | <210 | | 210 | 67 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:23 | 1 |
| Fluoranthene | <41 | | 41 | 7.6 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:23 | 1 |
| Fluorene | <41 | | 41 | 5.8 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:23 | 1 |
| Hexachlorobenzene | <83 | | 83 | 9.5 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:23 | 1 |
| Hexachlorobutadiene | <210 | | 210 | 65 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:23 | 1 |
| Hexachlorocyclopentadiene | <830 | | 830 | 240 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:23 | 1 |
| Hexachloroethane | <210 | | 210 | 62 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:23 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109464-1

Client Sample ID: CB45-1(0-4)-033016

Lab Sample ID: 500-109464-2

Date Collected: 03/30/16 08:55

Matrix: Solid

Date Received: 03/30/16 14:45

Percent Solids: 78.6

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Indeno[1,2,3-cd]pyrene | <41 | | 41 | 11 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:23 | 1 |
| Isophorone | <210 | | 210 | 46 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:23 | 1 |
| Naphthalene | <41 | | 41 | 6.3 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:23 | 1 |
| Nitrobenzene | <41 | | 41 | 10 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:23 | 1 |
| N-Nitrosodi-n-propylamine | <83 | | 83 | 50 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:23 | 1 |
| N-Nitrosodiphenylamine | <210 | | 210 | 48 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:23 | 1 |
| Pentachlorophenol | <830 | | 830 | 660 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:23 | 1 |
| Phenanthrene | <41 | | 41 | 5.7 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:23 | 1 |
| Phenol | <210 | | 210 | 91 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:23 | 1 |
| Pyrene | <41 | | 41 | 8.2 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:23 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2,4,6-Tribromophenol | 83 | | 25 - 130 | 03/30/16 16:59 | 04/06/16 04:23 | 1 |
| 2-Fluorobiphenyl | 89 | | 42 - 115 | 03/30/16 16:59 | 04/06/16 04:23 | 1 |
| 2-Fluorophenol | 65 | | 40 - 130 | 03/30/16 16:59 | 04/06/16 04:23 | 1 |
| Nitrobenzene-d5 | 72 | | 33 - 124 | 03/30/16 16:59 | 04/06/16 04:23 | 1 |
| Phenol-d5 | 70 | | 36 - 123 | 03/30/16 16:59 | 04/06/16 04:23 | 1 |
| Terphenyl-d14 | 119 | | 25 - 150 | 03/30/16 16:59 | 04/06/16 04:23 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.050 | | 0.050 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 15:44 | 1 |
| Barium | 0.092 | J | 0.50 | 0.050 | mg/L | | 04/02/16 13:50 | 04/04/16 15:44 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 04/02/16 13:50 | 04/04/16 15:44 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/02/16 13:50 | 04/04/16 15:44 | 1 |
| Chromium | <0.025 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 15:44 | 1 |
| Cobalt | <0.025 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 15:44 | 1 |
| Copper | <0.025 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 15:44 | 1 |
| Iron | 0.24 | J | 0.40 | 0.20 | mg/L | | 04/02/16 13:50 | 04/04/16 15:44 | 1 |
| Lead | <0.0075 | | 0.0075 | 0.0075 | mg/L | | 04/02/16 13:50 | 04/04/16 15:44 | 1 |
| Manganese | 0.046 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 15:44 | 1 |
| Nickel | <0.025 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 15:44 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/02/16 13:50 | 04/04/16 15:44 | 1 |
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 15:44 | 1 |
| Zinc | <0.50 | | 0.50 | 0.020 | mg/L | | 04/02/16 13:50 | 04/04/16 15:44 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|---------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.067 | | 0.050 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 18:14 | 1 |
| Barium | 0.39 | J | 0.50 | 0.050 | mg/L | | 04/04/16 08:37 | 04/04/16 18:14 | 1 |
| Beryllium | 0.0070 | | 0.0040 | 0.0040 | mg/L | | 04/04/16 08:37 | 04/04/16 18:14 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/04/16 08:37 | 04/04/16 18:14 | 1 |
| Chromium | 0.16 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 18:14 | 1 |
| Cobalt | 0.061 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 18:14 | 1 |
| Copper | 0.14 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 18:14 | 1 |
| Iron | 200 | | 0.40 | 0.20 | mg/L | | 04/04/16 08:37 | 04/04/16 18:14 | 1 |
| Lead | 0.10 | | 0.0075 | 0.0075 | mg/L | | 04/04/16 08:37 | 04/04/16 18:14 | 1 |
| Manganese | 0.69 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 18:14 | 1 |
| Nickel | 0.20 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 18:14 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/04/16 08:37 | 04/04/16 18:14 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109464-1

Client Sample ID: CB45-1(0-4)-033016

Lab Sample ID: 500-109464-2

Date Collected: 03/30/16 08:55

Matrix: Solid

Date Received: 03/30/16 14:45

Percent Solids: 78.6

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|-------------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 18:14 | 1 |
| Zinc | 0.36 | J | 0.50 | 0.020 | mg/L | | 04/04/16 08:37 | 04/04/16 18:14 | 1 |

Method: 6010B - Total Metals

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | <1.2 | | 1.2 | 0.25 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:10 | 1 |
| Arsenic | 8.5 | | 0.61 | 0.28 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:10 | 1 |
| Barium | 38 | | 0.61 | 0.11 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:10 | 1 |
| Beryllium | 0.52 | | 0.25 | 0.053 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:10 | 1 |
| Cadmium | 0.061 | J | 0.12 | 0.036 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:10 | 1 |
| Calcium | 2800 | | 12 | 4.0 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:10 | 1 |
| Chromium | 15 | B | 0.61 | 0.11 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:10 | 1 |
| Cobalt | 24 | | 0.31 | 0.069 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:10 | 1 |
| Copper | 20 | | 0.61 | 0.13 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:10 | 1 |
| Iron | 21000 | B | 12 | 4.7 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:10 | 1 |
| Lead | 21 | | 0.31 | 0.15 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:10 | 1 |
| Magnesium | 3900 | B | 6.1 | 2.5 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:10 | 1 |
| Manganese | 540 | | 0.61 | 0.12 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:10 | 1 |
| Nickel | 35 | | 0.61 | 0.17 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:10 | 1 |
| Potassium | 1500 | B | 31 | 5.0 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:10 | 1 |
| Selenium | 0.54 | J | 0.61 | 0.30 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:10 | 1 |
| Silver | <0.31 | | 0.31 | 0.072 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:10 | 1 |
| Sodium | 350 | B | 61 | 8.1 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:10 | 1 |
| Thallium | 0.31 | J | 0.61 | 0.30 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:10 | 1 |
| Vanadium | 16 | | 0.31 | 0.090 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:10 | 1 |
| Zinc | 57 | B | 1.2 | 0.39 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:10 | 1 |

Method: 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/04/16 16:10 | 04/05/16 12:12 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/04/16 16:10 | 04/05/16 11:14 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Mercury | 39 | | 19 | 9.8 | ug/Kg | ☼ | 04/01/16 13:30 | 04/04/16 11:00 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-------------|-----------|-------|-------|------|---|----------|----------------|---------|
| pH | 8.25 | | 0.200 | 0.200 | SU | | | 04/05/16 15:37 | 1 |

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109464-1

Client Sample ID: CB45-2(0-6.6)-033016

Lab Sample ID: 500-109464-3

Date Collected: 03/30/16 09:10

Matrix: Solid

Date Received: 03/30/16 14:45

Percent Solids: 78.2

Method: 8260B - VOC

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Acetone | <26 | | 26 | 4.9 | ug/Kg | ☼ | | 04/04/16 15:42 | 1 |
| Benzene | <6.4 | | 6.4 | 1.4 | ug/Kg | ☼ | | 04/04/16 15:42 | 1 |
| Bromodichloromethane | <6.4 | | 6.4 | 1.1 | ug/Kg | ☼ | | 04/04/16 15:42 | 1 |
| Bromoform | <6.4 | | 6.4 | 1.3 | ug/Kg | ☼ | | 04/04/16 15:42 | 1 |
| Bromomethane | <6.4 | | 6.4 | 2.4 | ug/Kg | ☼ | | 04/04/16 15:42 | 1 |
| Carbon disulfide | <6.4 | | 6.4 | 2.4 | ug/Kg | ☼ | | 04/04/16 15:42 | 1 |
| Carbon tetrachloride | <6.4 | | 6.4 | 1.4 | ug/Kg | ☼ | | 04/04/16 15:42 | 1 |
| Chlorobenzene | <6.4 | | 6.4 | 1.5 | ug/Kg | ☼ | | 04/04/16 15:42 | 1 |
| Chloroethane | <6.4 | | 6.4 | 2.7 | ug/Kg | ☼ | | 04/04/16 15:42 | 1 |
| Chloroform | <6.4 | | 6.4 | 1.2 | ug/Kg | ☼ | | 04/04/16 15:42 | 1 |
| Chloromethane | <6.4 | | 6.4 | 1.5 | ug/Kg | ☼ | | 04/04/16 15:42 | 1 |
| cis-1,2-Dichloroethene | <6.4 | | 6.4 | 1.3 | ug/Kg | ☼ | | 04/04/16 15:42 | 1 |
| cis-1,3-Dichloropropene | <6.4 | | 6.4 | 1.5 | ug/Kg | ☼ | | 04/04/16 15:42 | 1 |
| Dibromochloromethane | <6.4 | | 6.4 | 0.74 | ug/Kg | ☼ | | 04/04/16 15:42 | 1 |
| 1,1-Dichloroethane | <6.4 | | 6.4 | 1.3 | ug/Kg | ☼ | | 04/04/16 15:42 | 1 |
| 1,2-Dichloroethane | <6.4 | | 6.4 | 0.95 | ug/Kg | ☼ | | 04/04/16 15:42 | 1 |
| 1,1-Dichloroethene | <6.4 | | 6.4 | 2.3 | ug/Kg | ☼ | | 04/04/16 15:42 | 1 |
| 1,2-Dichloropropane | <6.4 | | 6.4 | 1.7 | ug/Kg | ☼ | | 04/04/16 15:42 | 1 |
| 1,3-Dichloropropene, Total | <6.4 | | 6.4 | 1.8 | ug/Kg | ☼ | | 04/04/16 15:42 | 1 |
| Ethylbenzene | <6.4 | | 6.4 | 1.6 | ug/Kg | ☼ | | 04/04/16 15:42 | 1 |
| 2-Hexanone | <6.4 | | 6.4 | 2.0 | ug/Kg | ☼ | | 04/04/16 15:42 | 1 |
| Methylene Chloride | <6.4 | | 6.4 | 4.8 | ug/Kg | ☼ | | 04/04/16 15:42 | 1 |
| Methyl Ethyl Ketone | <6.4 | | 6.4 | 2.3 | ug/Kg | ☼ | | 04/04/16 15:42 | 1 |
| methyl isobutyl ketone | <6.4 | | 6.4 | 1.3 | ug/Kg | ☼ | | 04/04/16 15:42 | 1 |
| Methyl tert-butyl ether | <6.4 | | 6.4 | 1.5 | ug/Kg | ☼ | | 04/04/16 15:42 | 1 |
| Styrene | <6.4 | | 6.4 | 1.5 | ug/Kg | ☼ | | 04/04/16 15:42 | 1 |
| 1,1,2,2-Tetrachloroethane | <6.4 | | 6.4 | 1.0 | ug/Kg | ☼ | | 04/04/16 15:42 | 1 |
| Tetrachloroethene | <6.4 | | 6.4 | 1.3 | ug/Kg | ☼ | | 04/04/16 15:42 | 1 |
| Toluene | <6.4 | | 6.4 | 2.2 | ug/Kg | ☼ | | 04/04/16 15:42 | 1 |
| trans-1,2-Dichloroethene | <6.4 | | 6.4 | 1.6 | ug/Kg | ☼ | | 04/04/16 15:42 | 1 |
| trans-1,3-Dichloropropene | <6.4 | | 6.4 | 1.8 | ug/Kg | ☼ | | 04/04/16 15:42 | 1 |
| 1,1,1-Trichloroethane | <6.4 | | 6.4 | 1.5 | ug/Kg | ☼ | | 04/04/16 15:42 | 1 |
| 1,1,2-Trichloroethane | <6.4 | | 6.4 | 1.2 | ug/Kg | ☼ | | 04/04/16 15:42 | 1 |
| Trichloroethene | <6.4 | | 6.4 | 1.7 | ug/Kg | ☼ | | 04/04/16 15:42 | 1 |
| Vinyl chloride | <6.4 | | 6.4 | 1.5 | ug/Kg | ☼ | | 04/04/16 15:42 | 1 |
| Xylenes, Total | <13 | | 13 | 2.4 | ug/Kg | ☼ | | 04/04/16 15:42 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 100 | | 70 - 120 | | 04/04/16 15:42 | 1 |
| Dibromofluoromethane | 110 | | 75 - 120 | | 04/04/16 15:42 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 110 | | 69 - 134 | | 04/04/16 15:42 | 1 |
| Toluene-d8 (Surr) | 118 | | 75 - 123 | | 04/04/16 15:42 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,2,4-Trichlorobenzene | <210 | | 210 | 45 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:52 | 1 |
| 1,2-Dichlorobenzene | <210 | | 210 | 50 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:52 | 1 |
| 1,3-Dichlorobenzene | <210 | | 210 | 48 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:52 | 1 |
| 1,4-Dichlorobenzene | <210 | | 210 | 54 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:52 | 1 |
| 2,2'-oxybis[1-chloropropane] | <210 | | 210 | 49 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:52 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109464-1

Client Sample ID: CB45-2(0-6.6)-033016

Lab Sample ID: 500-109464-3

Date Collected: 03/30/16 09:10

Matrix: Solid

Date Received: 03/30/16 14:45

Percent Solids: 78.2

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol | <420 | | 420 | 96 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:52 | 1 |
| 2,4,6-Trichlorophenol | <420 | | 420 | 140 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:52 | 1 |
| 2,4-Dichlorophenol | <420 | | 420 | 100 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:52 | 1 |
| 2,4-Dimethylphenol | <420 | | 420 | 160 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:52 | 1 |
| 2,4-Dinitrophenol | <850 | | 850 | 740 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:52 | 1 |
| 2,4-Dinitrotoluene | <210 | | 210 | 67 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:52 | 1 |
| 2,6-Dinitrotoluene | <210 | | 210 | 83 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:52 | 1 |
| 2-Chloronaphthalene | <210 | | 210 | 47 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:52 | 1 |
| 2-Chlorophenol | <210 | | 210 | 72 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:52 | 1 |
| 2-Methylnaphthalene | <42 | | 42 | 7.8 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:52 | 1 |
| 2-Methylphenol | <210 | | 210 | 68 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:52 | 1 |
| 2-Nitroaniline | <210 | | 210 | 57 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:52 | 1 |
| 2-Nitrophenol | <420 | | 420 | 100 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:52 | 1 |
| 3 & 4 Methylphenol | <210 | | 210 | 70 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:52 | 1 |
| 3,3'-Dichlorobenzidine | <210 | | 210 | 59 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:52 | 1 |
| 3-Nitroaniline | <420 | | 420 | 130 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:52 | 1 |
| 4,6-Dinitro-2-methylphenol | <850 | | 850 | 340 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:52 | 1 |
| 4-Bromophenyl phenyl ether | <210 | | 210 | 56 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:52 | 1 |
| 4-Chloro-3-methylphenol | <420 | | 420 | 140 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:52 | 1 |
| 4-Chloroaniline | <850 | | 850 | 200 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:52 | 1 |
| 4-Chlorophenyl phenyl ether | <210 | | 210 | 49 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:52 | 1 |
| 4-Nitroaniline | <420 | | 420 | 180 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:52 | 1 |
| 4-Nitrophenol | <850 | | 850 | 400 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:52 | 1 |
| Acenaphthene | <42 | | 42 | 7.6 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:52 | 1 |
| Acenaphthylene | <42 | | 42 | 5.6 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:52 | 1 |
| Anthracene | <42 | | 42 | 7.0 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:52 | 1 |
| Benzo[a]anthracene | <42 | | 42 | 5.7 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:52 | 1 |
| Benzo[a]pyrene | <42 | | 42 | 8.2 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:52 | 1 |
| Benzo[b]fluoranthene | <42 | | 42 | 9.1 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:52 | 1 |
| Benzo[g,h,i]perylene | <42 | | 42 | 14 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:52 | 1 |
| Benzo[k]fluoranthene | <42 | | 42 | 12 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:52 | 1 |
| Bis(2-chloroethoxy)methane | <210 | | 210 | 43 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:52 | 1 |
| Bis(2-chloroethyl)ether | <210 | | 210 | 63 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:52 | 1 |
| Bis(2-ethylhexyl) phthalate | <210 | | 210 | 77 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:52 | 1 |
| Butyl benzyl phthalate | <210 | | 210 | 80 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:52 | 1 |
| Carbazole | <210 | | 210 | 110 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:52 | 1 |
| Chrysene | <42 | | 42 | 12 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:52 | 1 |
| Dibenz(a,h)anthracene | <42 | | 42 | 8.2 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:52 | 1 |
| Dibenzofuran | <210 | | 210 | 49 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:52 | 1 |
| Diethyl phthalate | <210 | | 210 | 72 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:52 | 1 |
| Dimethyl phthalate | <210 | | 210 | 55 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:52 | 1 |
| Di-n-butyl phthalate | <210 | | 210 | 64 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:52 | 1 |
| Di-n-octyl phthalate | <210 | | 210 | 69 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:52 | 1 |
| Fluoranthene | <42 | | 42 | 7.8 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:52 | 1 |
| Fluorene | <42 | | 42 | 5.9 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:52 | 1 |
| Hexachlorobenzene | <85 | | 85 | 9.8 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:52 | 1 |
| Hexachlorobutadiene | <210 | | 210 | 66 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:52 | 1 |
| Hexachlorocyclopentadiene | <850 | | 850 | 240 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:52 | 1 |
| Hexachloroethane | <210 | | 210 | 64 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:52 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109464-1

Client Sample ID: CB45-2(0-6.6)-033016

Lab Sample ID: 500-109464-3

Date Collected: 03/30/16 09:10

Matrix: Solid

Date Received: 03/30/16 14:45

Percent Solids: 78.2

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Indeno[1,2,3-cd]pyrene | <42 | | 42 | 11 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:52 | 1 |
| Isophorone | <210 | | 210 | 47 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:52 | 1 |
| Naphthalene | <42 | | 42 | 6.5 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:52 | 1 |
| Nitrobenzene | <42 | | 42 | 11 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:52 | 1 |
| N-Nitrosodi-n-propylamine | <85 | | 85 | 52 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:52 | 1 |
| N-Nitrosodiphenylamine | <210 | | 210 | 50 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:52 | 1 |
| Pentachlorophenol | <850 | | 850 | 680 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:52 | 1 |
| Phenanthrene | <42 | | 42 | 5.9 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:52 | 1 |
| Phenol | <210 | | 210 | 94 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:52 | 1 |
| Pyrene | <42 | | 42 | 8.4 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 04:52 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2,4,6-Tribromophenol | 79 | | 25 - 130 | | | | 03/30/16 16:59 | 04/06/16 04:52 | 1 |
| 2-Fluorobiphenyl | 99 | | 42 - 115 | | | | 03/30/16 16:59 | 04/06/16 04:52 | 1 |
| 2-Fluorophenol | 71 | | 40 - 130 | | | | 03/30/16 16:59 | 04/06/16 04:52 | 1 |
| Nitrobenzene-d5 | 100 | | 33 - 124 | | | | 03/30/16 16:59 | 04/06/16 04:52 | 1 |
| Phenol-d5 | 80 | | 36 - 123 | | | | 03/30/16 16:59 | 04/06/16 04:52 | 1 |
| Terphenyl-d14 | 129 | | 25 - 150 | | | | 03/30/16 16:59 | 04/06/16 04:52 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.050 | | 0.050 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 15:49 | 1 |
| Barium | 0.14 | J | 0.50 | 0.050 | mg/L | | 04/02/16 13:50 | 04/04/16 15:49 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 04/02/16 13:50 | 04/04/16 15:49 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/02/16 13:50 | 04/04/16 15:49 | 1 |
| Chromium | <0.025 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 15:49 | 1 |
| Cobalt | <0.025 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 15:49 | 1 |
| Copper | <0.025 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 15:49 | 1 |
| Iron | <0.40 | | 0.40 | 0.20 | mg/L | | 04/02/16 13:50 | 04/04/16 15:49 | 1 |
| Lead | <0.0075 | | 0.0075 | 0.0075 | mg/L | | 04/02/16 13:50 | 04/04/16 15:49 | 1 |
| Manganese | 1.1 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 15:49 | 1 |
| Nickel | 0.015 | J | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 15:49 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/02/16 13:50 | 04/04/16 15:49 | 1 |
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 15:49 | 1 |
| Zinc | 0.11 | J | 0.50 | 0.020 | mg/L | | 04/02/16 13:50 | 04/04/16 15:49 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|---------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.080 | | 0.050 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 18:18 | 1 |
| Barium | 0.27 | J | 0.50 | 0.050 | mg/L | | 04/04/16 08:37 | 04/04/16 18:18 | 1 |
| Beryllium | 0.0062 | | 0.0040 | 0.0040 | mg/L | | 04/04/16 08:37 | 04/04/16 18:18 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/04/16 08:37 | 04/04/16 18:18 | 1 |
| Chromium | 0.15 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 18:18 | 1 |
| Cobalt | 0.048 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 18:18 | 1 |
| Copper | 0.13 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 18:18 | 1 |
| Iron | 160 | | 0.40 | 0.20 | mg/L | | 04/04/16 08:37 | 04/04/16 18:18 | 1 |
| Lead | 0.098 | | 0.0075 | 0.0075 | mg/L | | 04/04/16 08:37 | 04/04/16 18:18 | 1 |
| Manganese | 0.46 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 18:18 | 1 |
| Nickel | 0.15 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 18:18 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/04/16 08:37 | 04/04/16 18:18 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109464-1

Client Sample ID: CB45-2(0-6.6)-033016

Lab Sample ID: 500-109464-3

Date Collected: 03/30/16 09:10

Matrix: Solid

Date Received: 03/30/16 14:45

Percent Solids: 78.2

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|-------------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 18:18 | 1 |
| Zinc | 0.31 | J | 0.50 | 0.020 | mg/L | | 04/04/16 08:37 | 04/04/16 18:18 | 1 |

Method: 6010B - Total Metals

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | <1.1 | | 1.1 | 0.23 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:15 | 1 |
| Arsenic | 6.7 | | 0.56 | 0.26 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:15 | 1 |
| Barium | 21 | | 0.56 | 0.10 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:15 | 1 |
| Beryllium | 0.44 | | 0.22 | 0.049 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:15 | 1 |
| Cadmium | <0.11 | | 0.11 | 0.033 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:15 | 1 |
| Calcium | 10000 | | 11 | 3.6 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:15 | 1 |
| Chromium | 13 | B | 0.56 | 0.097 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:15 | 1 |
| Cobalt | 9.9 | | 0.28 | 0.063 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:15 | 1 |
| Copper | 21 | | 0.56 | 0.12 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:15 | 1 |
| Iron | 18000 | B | 11 | 4.3 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:15 | 1 |
| Lead | 18 | | 0.28 | 0.14 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:15 | 1 |
| Magnesium | 8300 | B | 5.6 | 2.3 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:15 | 1 |
| Manganese | 250 | | 0.56 | 0.11 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:15 | 1 |
| Nickel | 27 | | 0.56 | 0.15 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:15 | 1 |
| Potassium | 1500 | B | 28 | 4.6 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:15 | 1 |
| Selenium | 0.36 | J | 0.56 | 0.28 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:15 | 1 |
| Silver | <0.28 | | 0.28 | 0.066 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:15 | 1 |
| Sodium | 740 | B | 56 | 7.4 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:15 | 1 |
| Thallium | <0.56 | | 0.56 | 0.28 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:15 | 1 |
| Vanadium | 14 | | 0.28 | 0.082 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:15 | 1 |
| Zinc | 81 | B | 1.1 | 0.36 | mg/Kg | ☼ | 04/01/16 08:37 | 04/01/16 18:15 | 1 |

Method: 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/04/16 16:10 | 04/05/16 12:18 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/04/16 16:10 | 04/05/16 11:23 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Mercury | 30 | | 21 | 11 | ug/Kg | ☼ | 04/01/16 13:30 | 04/04/16 11:08 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-------------|-----------|-------|-------|------|---|----------|----------------|---------|
| pH | 8.27 | | 0.200 | 0.200 | SU | | | 04/05/16 15:40 | 1 |

Definitions/Glossary

Client: Environmental Design International, Inc.
Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109464-1

Qualifiers

GC/MS VOA

| Qualifier | Qualifier Description |
|-----------|--|
| F1 | MS and/or MSD Recovery is outside acceptance limits. |
| * | LCS or LCSD is outside acceptance limits. |

GC/MS Semi VOA

| Qualifier | Qualifier Description |
|-----------|--|
| F2 | MS/MSD RPD exceeds control limits |
| F1 | MS and/or MSD Recovery is outside acceptance limits. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| E | Result exceeded calibration range. |
| X | Surrogate is outside control limits |

Metals

| Qualifier | Qualifier Description |
|-----------|--|
| F1 | MS and/or MSD Recovery is outside acceptance limits. |
| F2 | MS/MSD RPD exceeds control limits |
| B | Compound was found in the blank and sample. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| F3 | Duplicate RPD exceeds the control limit |
| F5 | Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL. |
| 4 | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |

Glossary

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

Certification Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109464-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|-----------|---------|------------|------------------|-----------------|
| Illinois | NELAP | 5 | 100201 | 04-30-17 |

The following analytes are included in this report, but certification is not offered by the governing authority:

| Analysis Method | Prep Method | Matrix | Analyte |
|-----------------|-------------|--------|----------------------------|
| 8260B | | Solid | 1,3-Dichloropropene, Total |
| 8260B | 5030B | Solid | 1,3-Dichloropropene, Total |
| Moisture | | Solid | Percent Moisture |
| Moisture | | Solid | Percent Solids |

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Report To _____ (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

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


Chain of Custody Record

Lab Job #: 500-109464

Chain of Custody Number: _____

Page 1 of 2

Temperature °C of Cooler: 5.1

| Client | | Client Project # | | Preservative | | Parameter | | Matrix | | Comments | |
|---------------|--------|------------------------|----------|---------------|-----------------|---------------|------|--------|--------------|--|----|
| EDJ | | 0295.022 | | | | | | | | | |
| Project Name | | Project Location/State | | Lab Project # | | Sampler | | Lab PM | | Preservative Key | |
| IDOT - Harvey | | Harvey IL | | | | Celia Pannier | | | |  500-109464 COC 4° to 4° > 4° > 4° pl to 4° | |
| Lab ID | MS/MSD | Sample ID | Sampling | | # of Containers | Matrix | VOCs | SVOCs | Total Metals | TECH SVOC Metals | pH |
| | | | Date | Time | | | | | | | |
| 1 | | R49-1(0-3.4)-033016 | 3/30/16 | 0845 | 2 | S | X | X | X | X | X |
| 2 | | CB45-1(0-4)-033016 | | 0855 | | | | | | | |
| 3 | | CB45-2(0.6.6)-033016 | | 0910 | | | | | | | |
| 4 | | CB33-1(0-4)-033016 | | 0925 | | | | | | | |
| 5 | | CB33-2(0-4)-033016 | | 0945 | | | | | | | |
| 6 | | CB33-2(4-7.3)-033016 | | 0950 | | | | | | | |
| 7 | | CB33-3(0-4)-033016 | | 1000 | | | | | | | |
| 8 | | CB33-4(0-4)-033016 | | 1025 | | | | | | | |
| 9 | | CB33-4(4-7.3)-033016 | | 1030 | | | | | | | |
| 10 | | CB33-4(4-7.3)-033016D | | 1035 | | | X | X | X | X | X |


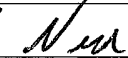
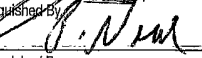

Turnaround Time Required (Business Days)

1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other

Requested Due Date _____

Sample Disposal

Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

| | | | | | | | | |
|---|----------------|---------------|-------------|---|-----------------|----------------|-------------|-----------------------|
| Relinquished By:  | Company: EDJ | Date: 3/30/16 | Time: 1:25 | Received By:  | Company: TA | Date: 3/30/16 | Time: 1:25 | Lab Courier: TA |
| Relinquished By:  | Company: TA | Date: 3/30/16 | Time: 1:45 | Received By:  | Company: TA-CHI | Date: 03/30/16 | Time: 1:45 | Shipped: _____ |
| Relinquished By: _____ | Company: _____ | Date: _____ | Time: _____ | Received By: _____ | Company: _____ | Date: _____ | Time: _____ | Hand Delivered: _____ |

Matrix Key
 WW - Wastewater SE - Sediment
 W - Water SO - Soil
 S - Soil L - Leachate
 SL - Sludge WI - Wipe
 MS - Miscellaneous DW - Drinking Water
 OL - Oil O - Other
 A - Air

Client Comments:

Lab Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To _____ (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

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

Chain of Custody Record

Lab Job #: 500-109464

Chain of Custody Number: _____

Page 2 of 2

Temperature °C of Cooler: 5.1

| Client | | Client Project # | | Preservative | | Parameter | | Comments | | | | |
|------------------------|--------|----------------------|---------|-----------------|-----------------|-----------|------|---|--------------|------------------|----|----------|
| EDI | | 0295.022 | | | | | | Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other | | | | |
| Project Name | | Lab Project # | | # of Containers | | Matrix | | | | | | |
| IDOT - Harvey | | | | | | | | | | | | |
| Project Location/State | | Lab PM | | Date | | Time | | | | | | |
| Harvey IL | | | | | | | | | | | | |
| Sampler | | Lab PM | | Date | | Time | | | | | | |
| Glin Pomeroy | | | | | | | | | | | | |
| Lab ID | MS/MSD | Sample ID | Date | Time | # of Containers | Matrix | VOCs | SVOCS | Total Metals | TECO/SPLD Metals | pH | Comments |
| 11 | | VL26-1(6-5.2)-033016 | 3/30/16 | 1135 | 2 | S | X | X | X | X | X | |
| 12 | | VL26-2(0-5.2)-033016 | | 1150 | | | X | X | X | X | X | |
| 13 | | VL25-1(0-4.5)-033016 | | 1205 | | | X | X | X | X | X | |
| 14 | | CG-1(0-4)-033016 | | 1225 | | | X | X | X | X | X | |
| 15 | | CG-2(0-4)-033016 | | 1245 | | | X | X | X | X | X | |
| 16 | | CG-2(0-4)-033016 D | | 1250 | | | X | X | X | X | X | |
| 17 | | CG-3(0-4)-033016 | | 1300 | | | X | X | X | X | X | |
| 18 | | CG-4(0-4)-033016 | | 1315 | | | X | X | X | X | X | |
| 19 | | CG-5(0-4.5)-033016 | | 1335 | | | X | X | X | X | X | |

Turnaround Time Required (Business Days)

___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days ___ Other

Sample Disposal

Requested Due Date _____ Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

| | | | | | | |
|---|---------------|------------|--|----------------|------------|-------------------|
| Relinquished By <i>[Signature]</i> Company: EDI | Date: 3/30/16 | Time: 1425 | Received By <i>[Signature]</i> Company: TA | Date: 3/30/16 | Time: 1425 | Lab Courier TA |
| Relinquished By <i>[Signature]</i> Company: TA | Date: 3/30/16 | Time: 1445 | Received By <i>[Signature]</i> Company: TA | Date: 03/30/16 | Time: 1445 | Shipped |
| Relinquished By | Date | Time | Received By | Date | Time | Hand Delivered |

Matrix Key

WW - Wastewater SE - Sediment
 W - Water SO - Soil
 S - Soil L - Leachate
 SL - Sludge WI - Wipe
 MS - Miscellaneous DW - Drinking Water
 OL - Oil O - Other
 A - Air

Client Comments

Lab Comments:



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

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

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

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

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

I. Source Location Information

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

Project Name: FAU 3597: IL Route 1 (Halsted St) at Vincennes Rd Office Phone Number, if available: _____

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

500 E. 154th Street, (ISGS Site No. 2553V-48)

City: Phoenix State: IL Zip Code: _____

County: Cook Township: _____

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

Latitude: 41.61010833 Longitude: -87.63636389

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

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

Project Name: FAU 3597: IL Route 1 (Halsted St) at Vincennes 

Latitude: 41.61010833 Longitude: -87.63636389

Uncontaminated Site Certification

III. Basis for Certification and Attachments

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

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

LOCATION R48-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2553V-48. SEE FIGURE 3-1 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

- 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]:

TEST AMERICA REPORTS - JOB ID: 500-109414-1.
ALSO SEE FIGURE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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


I, William F. Karlovitz, P.E. (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: Weston Solutions, Inc.
 Street Address: 300 Circle Plaza; Suite 202
 City: Mundelein State: IL Zip Code: 60060
 Phone: (224) 864-7200

William F. Karlovitz, P.E.

Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

17 MAY 2016

Date:



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

Summary Table of ISGS Site No. 2553V-48
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAU 3597: Illinois Route 1 (Halsted Street) at Vincennes Road
Harvey, Cook County, Illinois

| Field Sample ID | R48-1(0-2)-032916 | R48-1(0-2)-032916D | Soil Reference Concentrations ^A |
|-----------------------------|-------------------|--------------------|--|
| Sample Date | 3/29/2016 | 3/29/2016 | |
| Location ID | R48-1 | R48-1 | |
| Depth | 0 - 2 | 0 - 2 | |
| Lab Sample ID | 500-109414-9 | 500-109414-10 | |
| ISGS Site No. | 2553V-48 | 2553V-48 | |
| Parameter | | | |
| Laboratory pH | 8.33 | 8.31 | <6.25,>9.0 |
| VOCs (ug/kg) | None Detected | | |
| SVOCs (ug/kg) | None Detected | | |
| Total Metals (mg/kg) | | | |
| Arsenic, Total | 6.7 | 6.5 | 11.3 / 13.0 |
| Barium, Total | 52 B | 57 B | 1500 |
| Beryllium, Total | 0.82 | 0.94 | 22 |
| Cadmium, Total | 0.051 J | 0.061 J | 5.2 |
| Calcium, Total | 3700 B | 4100 B | --- |
| Chromium, Total | 21 | 23 | 21 |
| Cobalt, Total | 13 | 16 | 20 |
| Copper, Total | 22 | 27 | 2900 |
| Iron, Total | 21000 B | 22000 B | 15000 / 15900 |
| Lead, Total | 17 | 22 | 107 |
| Magnesium, Total | 4900 | 5400 | 325000 |
| Manganese, Total | 110 | 130 | 630 / 636 |
| Mercury, Total | 0.029 | 0.036 | 0.89 |
| Nickel, Total | 38 | 40 | 100 |
| Potassium, Total | 2100 | 2400 | --- |
| Selenium, Total | 0.69 | 0.9 | 1.3 |
| Sodium, Total | 510 B | 530 B | --- |
| Vanadium, Total | 23 | 29 | 550 |
| Zinc, Total | 63 | 67 | 5100 |
| TCLP Metals (mg/l) | | | |
| Arsenic, TCLP | ND | ND | 0.05 |
| Barium, TCLP | 0.094 J | 0.11 J | 2 |
| Beryllium, TCLP | ND | ND | 0.004 |
| Cadmium, TCLP | ND | ND | 0.005 |
| Chromium, TCLP | ND | ND | 0.1 |
| Cobalt, TCLP | ND | ND | 1 |
| Copper, TCLP | ND | ND | 0.65 |
| Iron, TCLP | 0.5 | 0.48 | 5 |
| Lead, TCLP | ND | ND | 0.0075 |
| Manganese, TCLP | 0.01 J | 0.012 J | 0.15 |
| Mercury, TCLP | ND | ND | 0.002 |
| Nickel, TCLP | ND | ND | 0.1 |
| Selenium, TCLP | ND | ND | 0.05 |
| Zinc, TCLP | ND | ND | 5 |
| SPLP Metals (mg/l) | | | |
| Arsenic, SPLP | 0.097 | 0.077 | 0.05 |
| Barium, SPLP | 0.81 | 0.86 | 2 |
| Beryllium, SPLP | 0.012 | 0.013 | 0.004 |
| Cadmium, SPLP | ND | ND | 0.005 |
| Chromium, SPLP | 0.31 | 0.3 | 0.1 |
| Cobalt, SPLP | 0.13 | 0.12 | 1 |
| Copper, SPLP | 0.25 | 0.25 | 0.65 |
| Iron, SPLP | 290 J+ | 260 J+ | 5 |
| Lead, SPLP | 0.21 J+ | 0.22 J+ | 0.0075 |
| Manganese, SPLP | 0.87 | 0.79 | 0.15 |
| Mercury, SPLP | ND | ND | 0.002 |
| Nickel, SPLP | 0.42 | 0.38 | 0.1 |
| Selenium, SPLP | ND | ND | 0.05 |
| Zinc, SPLP | 0.69 | 0.67 | 5 |

Summary Table of ISGS Site No. 2553V-48
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAU 3597: Illinois Route 1 (Halsted Street) at Vincennes Road
Harvey, Cook County, Illinois

Notes:

--- - not applicable or value not available.


^A - Soil reference concentrations from MAC Table. Background values for MSA Counties and Chicago corporate limits are included, as applicable.

B - Constituent detected in the blank and investigative sample.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J+ - Estimated concentration; biased high.

 Shaded values indicate concentration **exceeds** Reference Concentration.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-109414-1

Client Project/Site: IDOT - Harvey IL Route 113 - WO 041

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

Attn: Ms. Patricia Feeley



Authorized for release by:
4/6/2016 3:04:11 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.

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

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109414-1

Client Sample ID: R48-1(0-2)-032916

Lab Sample ID: 500-109414-9

Date Collected: 03/29/16 14:50

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 81.0

Method: 8260B - VOC

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Acetone | <25 | | 25 | 4.8 | ug/Kg | ☼ | | 03/31/16 18:22 | 1 |
| Benzene | <6.2 | | 6.2 | 1.4 | ug/Kg | ☼ | | 03/31/16 18:22 | 1 |
| Bromodichloromethane | <6.2 | | 6.2 | 1.0 | ug/Kg | ☼ | | 03/31/16 18:22 | 1 |
| Bromoform | <6.2 | | 6.2 | 1.3 | ug/Kg | ☼ | | 03/31/16 18:22 | 1 |
| Bromomethane | <6.2 | | 6.2 | 2.3 | ug/Kg | ☼ | | 03/31/16 18:22 | 1 |
| Carbon disulfide | <6.2 | | 6.2 | 2.3 | ug/Kg | ☼ | | 03/31/16 18:22 | 1 |
| Carbon tetrachloride | <6.2 | | 6.2 | 1.3 | ug/Kg | ☼ | | 03/31/16 18:22 | 1 |
| Chlorobenzene | <6.2 | | 6.2 | 1.5 | ug/Kg | ☼ | | 03/31/16 18:22 | 1 |
| Chloroethane | <6.2 | | 6.2 | 2.6 | ug/Kg | ☼ | | 03/31/16 18:22 | 1 |
| Chloroform | <6.2 | | 6.2 | 1.2 | ug/Kg | ☼ | | 03/31/16 18:22 | 1 |
| Chloromethane | <6.2 | | 6.2 | 1.5 | ug/Kg | ☼ | | 03/31/16 18:22 | 1 |
| cis-1,2-Dichloroethene | <6.2 | | 6.2 | 1.3 | ug/Kg | ☼ | | 03/31/16 18:22 | 1 |
| cis-1,3-Dichloropropene | <6.2 | | 6.2 | 1.4 | ug/Kg | ☼ | | 03/31/16 18:22 | 1 |
| Dibromochloromethane | <6.2 | | 6.2 | 0.71 | ug/Kg | ☼ | | 03/31/16 18:22 | 1 |
| 1,1-Dichloroethane | <6.2 | | 6.2 | 1.3 | ug/Kg | ☼ | | 03/31/16 18:22 | 1 |
| 1,2-Dichloroethane | <6.2 | | 6.2 | 0.92 | ug/Kg | ☼ | | 03/31/16 18:22 | 1 |
| 1,1-Dichloroethene | <6.2 | | 6.2 | 2.2 | ug/Kg | ☼ | | 03/31/16 18:22 | 1 |
| 1,2-Dichloropropane | <6.2 | | 6.2 | 1.6 | ug/Kg | ☼ | | 03/31/16 18:22 | 1 |
| 1,3-Dichloropropene, Total | <6.2 | | 6.2 | 1.7 | ug/Kg | ☼ | | 03/31/16 18:22 | 1 |
| Ethylbenzene | <6.2 | | 6.2 | 1.5 | ug/Kg | ☼ | | 03/31/16 18:22 | 1 |
| 2-Hexanone | <6.2 | | 6.2 | 1.9 | ug/Kg | ☼ | | 03/31/16 18:22 | 1 |
| Methylene Chloride | <6.2 | | 6.2 | 4.7 | ug/Kg | ☼ | | 03/31/16 18:22 | 1 |
| Methyl Ethyl Ketone | <6.2 | | 6.2 | 2.2 | ug/Kg | ☼ | | 03/31/16 18:22 | 1 |
| methyl isobutyl ketone | <6.2 | | 6.2 | 1.3 | ug/Kg | ☼ | | 03/31/16 18:22 | 1 |
| Methyl tert-butyl ether | <6.2 | | 6.2 | 1.5 | ug/Kg | ☼ | | 03/31/16 18:22 | 1 |
| Styrene | <6.2 | | 6.2 | 1.4 | ug/Kg | ☼ | | 03/31/16 18:22 | 1 |
| 1,1,2,2-Tetrachloroethane | <6.2 | | 6.2 | 0.98 | ug/Kg | ☼ | | 03/31/16 18:22 | 1 |
| Tetrachloroethene | <6.2 | | 6.2 | 1.3 | ug/Kg | ☼ | | 03/31/16 18:22 | 1 |
| Toluene | <6.2 | | 6.2 | 2.1 | ug/Kg | ☼ | | 03/31/16 18:22 | 1 |
| trans-1,2-Dichloroethene | <6.2 | | 6.2 | 1.5 | ug/Kg | ☼ | | 03/31/16 18:22 | 1 |
| trans-1,3-Dichloropropene | <6.2 | | 6.2 | 1.7 | ug/Kg | ☼ | | 03/31/16 18:22 | 1 |
| 1,1,1-Trichloroethane | <6.2 | | 6.2 | 1.4 | ug/Kg | ☼ | | 03/31/16 18:22 | 1 |
| 1,1,2-Trichloroethane | <6.2 | | 6.2 | 1.2 | ug/Kg | ☼ | | 03/31/16 18:22 | 1 |
| Trichloroethene | <6.2 | | 6.2 | 1.7 | ug/Kg | ☼ | | 03/31/16 18:22 | 1 |
| Vinyl chloride | <6.2 | | 6.2 | 1.5 | ug/Kg | ☼ | | 03/31/16 18:22 | 1 |
| Xylenes, Total | <12 | | 12 | 2.3 | ug/Kg | ☼ | | 03/31/16 18:22 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 105 | | 70 - 120 | | 03/31/16 18:22 | 1 |
| Dibromofluoromethane | 108 | | 75 - 120 | | 03/31/16 18:22 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 110 | | 69 - 134 | | 03/31/16 18:22 | 1 |
| Toluene-d8 (Surr) | 115 | | 75 - 123 | | 03/31/16 18:22 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,2,4-Trichlorobenzene | <200 | | 200 | 44 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:56 | 1 |
| 1,2-Dichlorobenzene | <200 | | 200 | 48 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:56 | 1 |
| 1,3-Dichlorobenzene | <200 | | 200 | 46 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:56 | 1 |
| 1,4-Dichlorobenzene | <200 | | 200 | 52 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:56 | 1 |
| 2,2'-oxybis[1-chloropropane] | <200 | | 200 | 47 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:56 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109414-1

Client Sample ID: R48-1(0-2)-032916

Lab Sample ID: 500-109414-9

Date Collected: 03/29/16 14:50

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 81.0

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol | <400 | | 400 | 92 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:56 | 1 |
| 2,4,6-Trichlorophenol | <400 | | 400 | 140 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:56 | 1 |
| 2,4-Dichlorophenol | <400 | | 400 | 96 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:56 | 1 |
| 2,4-Dimethylphenol | <400 | | 400 | 150 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:56 | 1 |
| 2,4-Dinitrophenol | <820 | | 820 | 710 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:56 | 1 |
| 2,4-Dinitrotoluene | <200 | | 200 | 64 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:56 | 1 |
| 2,6-Dinitrotoluene | <200 | | 200 | 80 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:56 | 1 |
| 2-Chloronaphthalene | <200 | | 200 | 45 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:56 | 1 |
| 2-Chlorophenol | <200 | | 200 | 69 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:56 | 1 |
| 2-Methylnaphthalene | <40 | | 40 | 7.4 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:56 | 1 |
| 2-Methylphenol | <200 | | 200 | 65 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:56 | 1 |
| 2-Nitroaniline | <200 | | 200 | 54 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:56 | 1 |
| 2-Nitrophenol | <400 | | 400 | 96 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:56 | 1 |
| 3 & 4 Methylphenol | <200 | | 200 | 67 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:56 | 1 |
| 3,3'-Dichlorobenzidine | <200 | | 200 | 57 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:56 | 1 |
| 3-Nitroaniline | <400 | | 400 | 130 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:56 | 1 |
| 4,6-Dinitro-2-methylphenol | <820 | | 820 | 330 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:56 | 1 |
| 4-Bromophenyl phenyl ether | <200 | | 200 | 53 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:56 | 1 |
| 4-Chloro-3-methylphenol | <400 | | 400 | 140 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:56 | 1 |
| 4-Chloroaniline | <820 | | 820 | 190 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:56 | 1 |
| 4-Chlorophenyl phenyl ether | <200 | | 200 | 47 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:56 | 1 |
| 4-Nitroaniline | <400 | | 400 | 170 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:56 | 1 |
| 4-Nitrophenol | <820 | | 820 | 380 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:56 | 1 |
| Acenaphthene | <40 | | 40 | 7.3 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:56 | 1 |
| Acenaphthylene | <40 | | 40 | 5.3 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:56 | 1 |
| Anthracene | <40 | | 40 | 6.8 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:56 | 1 |
| Benzo[a]anthracene | <40 | | 40 | 5.4 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:56 | 1 |
| Benzo[a]pyrene | <40 | | 40 | 7.8 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:56 | 1 |
| Benzo[b]fluoranthene | <40 | | 40 | 8.7 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:56 | 1 |
| Benzo[g,h,i]perylene | <40 | | 40 | 13 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:56 | 1 |
| Benzo[k]fluoranthene | <40 | | 40 | 12 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:56 | 1 |
| Bis(2-chloroethoxy)methane | <200 | | 200 | 41 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:56 | 1 |
| Bis(2-chloroethyl)ether | <200 | | 200 | 61 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:56 | 1 |
| Bis(2-ethylhexyl) phthalate | <200 | | 200 | 74 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:56 | 1 |
| Butyl benzyl phthalate | <200 | | 200 | 77 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:56 | 1 |
| Carbazole | <200 | | 200 | 100 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:56 | 1 |
| Chrysene | <40 | | 40 | 11 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:56 | 1 |
| Dibenz(a,h)anthracene | <40 | | 40 | 7.8 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:56 | 1 |
| Dibenzofuran | <200 | | 200 | 47 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:56 | 1 |
| Diethyl phthalate | <200 | | 200 | 69 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:56 | 1 |
| Dimethyl phthalate | <200 | | 200 | 53 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:56 | 1 |
| Di-n-butyl phthalate | <200 | | 200 | 62 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:56 | 1 |
| Di-n-octyl phthalate | <200 | | 200 | 66 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:56 | 1 |
| Fluoranthene | <40 | | 40 | 7.5 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:56 | 1 |
| Fluorene | <40 | | 40 | 5.7 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:56 | 1 |
| Hexachlorobenzene | <82 | | 82 | 9.4 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:56 | 1 |
| Hexachlorobutadiene | <200 | | 200 | 64 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:56 | 1 |
| Hexachlorocyclopentadiene | <820 | | 820 | 230 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:56 | 1 |
| Hexachloroethane | <200 | | 200 | 61 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:56 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109414-1

Client Sample ID: R48-1(0-2)-032916

Lab Sample ID: 500-109414-9

Date Collected: 03/29/16 14:50

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 81.0

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Indeno[1,2,3-cd]pyrene | <40 | | 40 | 10 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:56 | 1 |
| Isophorone | <200 | | 200 | 45 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:56 | 1 |
| Naphthalene | <40 | | 40 | 6.2 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:56 | 1 |
| Nitrobenzene | <40 | | 40 | 10 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:56 | 1 |
| N-Nitrosodi-n-propylamine | <82 | | 82 | 49 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:56 | 1 |
| N-Nitrosodiphenylamine | <200 | | 200 | 48 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:56 | 1 |
| Pentachlorophenol | <820 | | 820 | 650 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:56 | 1 |
| Phenanthrene | <40 | | 40 | 5.6 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:56 | 1 |
| Phenol | <200 | | 200 | 90 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:56 | 1 |
| Pyrene | <40 | | 40 | 8.0 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:56 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2,4,6-Tribromophenol | 75 | | 25 - 130 | 03/30/16 07:12 | 04/05/16 07:56 | 1 |
| 2-Fluorobiphenyl | 69 | | 42 - 115 | 03/30/16 07:12 | 04/05/16 07:56 | 1 |
| 2-Fluorophenol | 63 | | 40 - 130 | 03/30/16 07:12 | 04/05/16 07:56 | 1 |
| Nitrobenzene-d5 | 71 | | 33 - 124 | 03/30/16 07:12 | 04/05/16 07:56 | 1 |
| Phenol-d5 | 68 | | 36 - 123 | 03/30/16 07:12 | 04/05/16 07:56 | 1 |
| Terphenyl-d14 | 149 | | 25 - 150 | 03/30/16 07:12 | 04/05/16 07:56 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.050 | | 0.050 | 0.010 | mg/L | | 04/01/16 14:15 | 04/02/16 20:21 | 1 |
| Barium | 0.094 | J | 0.50 | 0.050 | mg/L | | 04/01/16 14:15 | 04/02/16 20:21 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 04/01/16 14:15 | 04/02/16 20:21 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/01/16 14:15 | 04/02/16 20:21 | 1 |
| Chromium | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:15 | 04/02/16 20:21 | 1 |
| Cobalt | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:15 | 04/02/16 20:21 | 1 |
| Copper | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:15 | 04/02/16 20:21 | 1 |
| Iron | 0.50 | | 0.40 | 0.20 | mg/L | | 04/01/16 14:15 | 04/02/16 20:21 | 1 |
| Lead | <0.0075 | | 0.0075 | 0.0075 | mg/L | | 04/01/16 14:15 | 04/02/16 20:21 | 1 |
| Manganese | 0.010 | J | 0.025 | 0.010 | mg/L | | 04/01/16 14:15 | 04/02/16 20:21 | 1 |
| Nickel | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:15 | 04/02/16 20:21 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/01/16 14:15 | 04/02/16 20:21 | 1 |
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:15 | 04/02/16 20:21 | 1 |
| Zinc | <0.50 | | 0.50 | 0.020 | mg/L | | 04/01/16 14:15 | 04/02/16 20:21 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.097 | | 0.050 | 0.010 | mg/L | | 04/01/16 09:30 | 04/02/16 00:44 | 1 |
| Barium | 0.81 | | 0.50 | 0.050 | mg/L | | 04/01/16 09:30 | 04/02/16 00:44 | 1 |
| Beryllium | 0.012 | | 0.0040 | 0.0040 | mg/L | | 04/01/16 09:30 | 04/02/16 00:44 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/01/16 09:30 | 04/02/16 00:44 | 1 |
| Chromium | 0.31 | | 0.025 | 0.010 | mg/L | | 04/01/16 09:30 | 04/02/16 00:44 | 1 |
| Cobalt | 0.13 | | 0.025 | 0.010 | mg/L | | 04/01/16 09:30 | 04/02/16 00:44 | 1 |
| Copper | 0.25 | | 0.025 | 0.010 | mg/L | | 04/01/16 09:30 | 04/02/16 00:44 | 1 |
| Iron | 290 | | 0.40 | 0.20 | mg/L | | 04/01/16 09:30 | 04/02/16 00:44 | 1 |
| Lead | 0.21 | | 0.0075 | 0.0075 | mg/L | | 04/01/16 09:30 | 04/02/16 00:44 | 1 |
| Manganese | 0.87 | | 0.025 | 0.010 | mg/L | | 04/01/16 09:30 | 04/02/16 00:44 | 1 |
| Nickel | 0.42 | | 0.025 | 0.010 | mg/L | | 04/01/16 09:30 | 04/02/16 00:44 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/01/16 09:30 | 04/02/16 00:44 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109414-1

Client Sample ID: R48-1(0-2)-032916

Lab Sample ID: 500-109414-9

Date Collected: 03/29/16 14:50

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 81.0

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|-------------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 09:30 | 04/02/16 00:44 | 1 |
| Zinc | 0.69 | | 0.50 | 0.020 | mg/L | | 04/01/16 09:30 | 04/02/16 00:44 | 1 |

Method: 6010B - Total Metals

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | <1.2 | | 1.2 | 0.25 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:32 | 1 |
| Arsenic | 6.7 | | 0.61 | 0.28 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:32 | 1 |
| Barium | 52 | B | 0.61 | 0.11 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:32 | 1 |
| Beryllium | 0.82 | | 0.24 | 0.052 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:32 | 1 |
| Cadmium | 0.051 | J | 0.12 | 0.035 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:32 | 1 |
| Calcium | 3700 | B | 12 | 3.9 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:32 | 1 |
| Chromium | 21 | | 0.61 | 0.10 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:32 | 1 |
| Cobalt | 13 | | 0.30 | 0.068 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:32 | 1 |
| Copper | 22 | | 0.61 | 0.13 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:32 | 1 |
| Iron | 21000 | B | 12 | 4.7 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:32 | 1 |
| Lead | 17 | | 0.30 | 0.15 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:32 | 1 |
| Magnesium | 4900 | | 6.1 | 2.5 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:32 | 1 |
| Manganese | 110 | | 0.61 | 0.12 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:32 | 1 |
| Nickel | 38 | | 0.61 | 0.16 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:32 | 1 |
| Potassium | 2100 | | 30 | 4.9 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:32 | 1 |
| Selenium | 0.69 | | 0.61 | 0.30 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:32 | 1 |
| Silver | <0.30 | | 0.30 | 0.071 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:32 | 1 |
| Sodium | 510 | B | 61 | 8.0 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:32 | 1 |
| Thallium | <0.61 | | 0.61 | 0.30 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:32 | 1 |
| Vanadium | 23 | | 0.30 | 0.088 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:32 | 1 |
| Zinc | 63 | | 1.2 | 0.38 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:32 | 1 |

Method: 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/01/16 15:45 | 04/04/16 12:01 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/01/16 15:45 | 04/04/16 11:32 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Mercury | 29 | | 19 | 10 | ug/Kg | ☼ | 03/31/16 15:20 | 04/01/16 12:24 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-------------|-----------|-------|-------|------|---|----------|----------------|---------|
| pH | 8.33 | | 0.200 | 0.200 | SU | | | 03/31/16 12:47 | 1 |

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109414-1

Client Sample ID: R48-1(0-2)-032916D

Lab Sample ID: 500-109414-10

Date Collected: 03/29/16 14:55

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 81.0

Method: 8260B - VOC

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Acetone | <25 | | 25 | 4.8 | ug/Kg | ☼ | | 03/31/16 18:47 | 1 |
| Benzene | <6.2 | | 6.2 | 1.4 | ug/Kg | ☼ | | 03/31/16 18:47 | 1 |
| Bromodichloromethane | <6.2 | F1 | 6.2 | 1.0 | ug/Kg | ☼ | | 03/31/16 18:47 | 1 |
| Bromoform | <6.2 | | 6.2 | 1.3 | ug/Kg | ☼ | | 03/31/16 18:47 | 1 |
| Bromomethane | <6.2 | | 6.2 | 2.3 | ug/Kg | ☼ | | 03/31/16 18:47 | 1 |
| Carbon disulfide | <6.2 | F1 | 6.2 | 2.3 | ug/Kg | ☼ | | 03/31/16 18:47 | 1 |
| Carbon tetrachloride | <6.2 | | 6.2 | 1.3 | ug/Kg | ☼ | | 03/31/16 18:47 | 1 |
| Chlorobenzene | <6.2 | F1 | 6.2 | 1.5 | ug/Kg | ☼ | | 03/31/16 18:47 | 1 |
| Chloroethane | <6.2 | | 6.2 | 2.6 | ug/Kg | ☼ | | 03/31/16 18:47 | 1 |
| Chloroform | <6.2 | | 6.2 | 1.2 | ug/Kg | ☼ | | 03/31/16 18:47 | 1 |
| Chloromethane | <6.2 | | 6.2 | 1.5 | ug/Kg | ☼ | | 03/31/16 18:47 | 1 |
| cis-1,2-Dichloroethene | <6.2 | F1 | 6.2 | 1.3 | ug/Kg | ☼ | | 03/31/16 18:47 | 1 |
| cis-1,3-Dichloropropene | <6.2 | F1 | 6.2 | 1.4 | ug/Kg | ☼ | | 03/31/16 18:47 | 1 |
| Dibromochloromethane | <6.2 | F1 | 6.2 | 0.71 | ug/Kg | ☼ | | 03/31/16 18:47 | 1 |
| 1,1-Dichloroethane | <6.2 | | 6.2 | 1.3 | ug/Kg | ☼ | | 03/31/16 18:47 | 1 |
| 1,2-Dichloroethane | <6.2 | | 6.2 | 0.92 | ug/Kg | ☼ | | 03/31/16 18:47 | 1 |
| 1,1-Dichloroethene | <6.2 | | 6.2 | 2.2 | ug/Kg | ☼ | | 03/31/16 18:47 | 1 |
| 1,2-Dichloropropane | <6.2 | F1 | 6.2 | 1.6 | ug/Kg | ☼ | | 03/31/16 18:47 | 1 |
| 1,3-Dichloropropene, Total | <6.2 | | 6.2 | 1.7 | ug/Kg | ☼ | | 03/31/16 18:47 | 1 |
| Ethylbenzene | <6.2 | F1 | 6.2 | 1.5 | ug/Kg | ☼ | | 03/31/16 18:47 | 1 |
| 2-Hexanone | <6.2 | | 6.2 | 1.9 | ug/Kg | ☼ | | 03/31/16 18:47 | 1 |
| Methylene Chloride | <6.2 | | 6.2 | 4.7 | ug/Kg | ☼ | | 03/31/16 18:47 | 1 |
| Methyl Ethyl Ketone | <6.2 | | 6.2 | 2.2 | ug/Kg | ☼ | | 03/31/16 18:47 | 1 |
| methyl isobutyl ketone | <6.2 | | 6.2 | 1.3 | ug/Kg | ☼ | | 03/31/16 18:47 | 1 |
| Methyl tert-butyl ether | <6.2 | | 6.2 | 1.5 | ug/Kg | ☼ | | 03/31/16 18:47 | 1 |
| Styrene | <6.2 | F1 | 6.2 | 1.4 | ug/Kg | ☼ | | 03/31/16 18:47 | 1 |
| 1,1,2,2-Tetrachloroethane | <6.2 | F1 | 6.2 | 0.98 | ug/Kg | ☼ | | 03/31/16 18:47 | 1 |
| Tetrachloroethene | <6.2 | F1 | 6.2 | 1.3 | ug/Kg | ☼ | | 03/31/16 18:47 | 1 |
| Toluene | <6.2 | F1 | 6.2 | 2.1 | ug/Kg | ☼ | | 03/31/16 18:47 | 1 |
| trans-1,2-Dichloroethene | <6.2 | | 6.2 | 1.5 | ug/Kg | ☼ | | 03/31/16 18:47 | 1 |
| trans-1,3-Dichloropropene | <6.2 | F1 | 6.2 | 1.7 | ug/Kg | ☼ | | 03/31/16 18:47 | 1 |
| 1,1,1-Trichloroethane | <6.2 | | 6.2 | 1.4 | ug/Kg | ☼ | | 03/31/16 18:47 | 1 |
| 1,1,2-Trichloroethane | <6.2 | F1 | 6.2 | 1.2 | ug/Kg | ☼ | | 03/31/16 18:47 | 1 |
| Trichloroethene | <6.2 | F1 | 6.2 | 1.7 | ug/Kg | ☼ | | 03/31/16 18:47 | 1 |
| Vinyl chloride | <6.2 | | 6.2 | 1.5 | ug/Kg | ☼ | | 03/31/16 18:47 | 1 |
| Xylenes, Total | <12 | F1 | 12 | 2.3 | ug/Kg | ☼ | | 03/31/16 18:47 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 106 | | 70 - 120 | | 03/31/16 18:47 | 1 |
| Dibromofluoromethane | 111 | | 75 - 120 | | 03/31/16 18:47 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 108 | | 69 - 134 | | 03/31/16 18:47 | 1 |
| Toluene-d8 (Surr) | 116 | | 75 - 123 | | 03/31/16 18:47 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,2,4-Trichlorobenzene | <200 | | 200 | 43 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 08:24 | 1 |
| 1,2-Dichlorobenzene | <200 | | 200 | 48 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 08:24 | 1 |
| 1,3-Dichlorobenzene | <200 | | 200 | 45 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 08:24 | 1 |
| 1,4-Dichlorobenzene | <200 | | 200 | 51 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 08:24 | 1 |
| 2,2'-oxybis[1-chloropropane] | <200 | | 200 | 46 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 08:24 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109414-1

Client Sample ID: R48-1(0-2)-032916D

Lab Sample ID: 500-109414-10

Date Collected: 03/29/16 14:55

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 81.0

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol | <400 | | 400 | 91 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 08:24 | 1 |
| 2,4,6-Trichlorophenol | <400 | | 400 | 140 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 08:24 | 1 |
| 2,4-Dichlorophenol | <400 | | 400 | 95 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 08:24 | 1 |
| 2,4-Dimethylphenol | <400 | | 400 | 150 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 08:24 | 1 |
| 2,4-Dinitrophenol | <800 | | 800 | 700 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 08:24 | 1 |
| 2,4-Dinitrotoluene | <200 | | 200 | 63 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 08:24 | 1 |
| 2,6-Dinitrotoluene | <200 | | 200 | 78 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 08:24 | 1 |
| 2-Chloronaphthalene | <200 | | 200 | 44 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 08:24 | 1 |
| 2-Chlorophenol | <200 | | 200 | 68 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 08:24 | 1 |
| 2-Methylnaphthalene | <40 | | 40 | 7.3 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 08:24 | 1 |
| 2-Methylphenol | <200 | | 200 | 64 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 08:24 | 1 |
| 2-Nitroaniline | <200 | | 200 | 54 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 08:24 | 1 |
| 2-Nitrophenol | <400 | | 400 | 94 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 08:24 | 1 |
| 3 & 4 Methylphenol | <200 | | 200 | 66 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 08:24 | 1 |
| 3,3'-Dichlorobenzidine | <200 | | 200 | 56 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 08:24 | 1 |
| 3-Nitroaniline | <400 | | 400 | 120 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 08:24 | 1 |
| 4,6-Dinitro-2-methylphenol | <800 | | 800 | 320 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 08:24 | 1 |
| 4-Bromophenyl phenyl ether | <200 | | 200 | 53 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 08:24 | 1 |
| 4-Chloro-3-methylphenol | <400 | | 400 | 140 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 08:24 | 1 |
| 4-Chloroaniline | <800 | | 800 | 190 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 08:24 | 1 |
| 4-Chlorophenyl phenyl ether | <200 | | 200 | 47 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 08:24 | 1 |
| 4-Nitroaniline | <400 | | 400 | 170 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 08:24 | 1 |
| 4-Nitrophenol | <800 | | 800 | 380 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 08:24 | 1 |
| Acenaphthene | <40 | | 40 | 7.2 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 08:24 | 1 |
| Acenaphthylene | <40 | | 40 | 5.3 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 08:24 | 1 |
| Anthracene | <40 | | 40 | 6.7 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 08:24 | 1 |
| Benzo[a]anthracene | <40 | | 40 | 5.4 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 08:24 | 1 |
| Benzo[a]pyrene | <40 | | 40 | 7.7 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 08:24 | 1 |
| Benzo[b]fluoranthene | <40 | | 40 | 8.6 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 08:24 | 1 |
| Benzo[g,h,i]perylene | <40 | | 40 | 13 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 08:24 | 1 |
| Benzo[k]fluoranthene | <40 | | 40 | 12 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 08:24 | 1 |
| Bis(2-chloroethoxy)methane | <200 | | 200 | 41 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 08:24 | 1 |
| Bis(2-chloroethyl)ether | <200 | | 200 | 60 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 08:24 | 1 |
| Bis(2-ethylhexyl) phthalate | <200 | | 200 | 73 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 08:24 | 1 |
| Butyl benzyl phthalate | <200 | | 200 | 76 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 08:24 | 1 |
| Carbazole | <200 | | 200 | 100 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 08:24 | 1 |
| Chrysene | <40 | | 40 | 11 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 08:24 | 1 |
| Dibenz(a,h)anthracene | <40 | | 40 | 7.7 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 08:24 | 1 |
| Dibenzofuran | <200 | | 200 | 47 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 08:24 | 1 |
| Diethyl phthalate | <200 | | 200 | 68 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 08:24 | 1 |
| Dimethyl phthalate | <200 | | 200 | 52 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 08:24 | 1 |
| Di-n-butyl phthalate | <200 | | 200 | 61 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 08:24 | 1 |
| Di-n-octyl phthalate | <200 | | 200 | 65 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 08:24 | 1 |
| Fluoranthene | <40 | | 40 | 7.4 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 08:24 | 1 |
| Fluorene | <40 | | 40 | 5.6 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 08:24 | 1 |
| Hexachlorobenzene | <80 | | 80 | 9.2 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 08:24 | 1 |
| Hexachlorobutadiene | <200 | | 200 | 63 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 08:24 | 1 |
| Hexachlorocyclopentadiene | <800 | | 800 | 230 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 08:24 | 1 |
| Hexachloroethane | <200 | | 200 | 61 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 08:24 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109414-1

Client Sample ID: R48-1(0-2)-032916D

Lab Sample ID: 500-109414-10

Date Collected: 03/29/16 14:55

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 81.0

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Indeno[1,2,3-cd]pyrene | <40 | | 40 | 10 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 08:24 | 1 |
| Isophorone | <200 | | 200 | 45 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 08:24 | 1 |
| Naphthalene | <40 | | 40 | 6.1 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 08:24 | 1 |
| Nitrobenzene | <40 | | 40 | 9.9 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 08:24 | 1 |
| N-Nitrosodi-n-propylamine | <80 | | 80 | 49 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 08:24 | 1 |
| N-Nitrosodiphenylamine | <200 | | 200 | 47 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 08:24 | 1 |
| Pentachlorophenol | <800 | | 800 | 640 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 08:24 | 1 |
| Phenanthrene | <40 | | 40 | 5.6 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 08:24 | 1 |
| Phenol | <200 | | 200 | 89 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 08:24 | 1 |
| Pyrene | <40 | | 40 | 7.9 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 08:24 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2,4,6-Tribromophenol | 77 | | 25 - 130 | | | | 03/30/16 07:12 | 04/05/16 08:24 | 1 |
| 2-Fluorobiphenyl | 86 | | 42 - 115 | | | | 03/30/16 07:12 | 04/05/16 08:24 | 1 |
| 2-Fluorophenol | 73 | | 40 - 130 | | | | 03/30/16 07:12 | 04/05/16 08:24 | 1 |
| Nitrobenzene-d5 | 78 | | 33 - 124 | | | | 03/30/16 07:12 | 04/05/16 08:24 | 1 |
| Phenol-d5 | 75 | | 36 - 123 | | | | 03/30/16 07:12 | 04/05/16 08:24 | 1 |
| Terphenyl-d14 | 139 | | 25 - 150 | | | | 03/30/16 07:12 | 04/05/16 08:24 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.050 | | 0.050 | 0.010 | mg/L | | 04/01/16 14:15 | 04/02/16 20:26 | 1 |
| Barium | 0.11 | J | 0.50 | 0.050 | mg/L | | 04/01/16 14:15 | 04/02/16 20:26 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 04/01/16 14:15 | 04/02/16 20:26 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/01/16 14:15 | 04/02/16 20:26 | 1 |
| Chromium | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:15 | 04/02/16 20:26 | 1 |
| Cobalt | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:15 | 04/02/16 20:26 | 1 |
| Copper | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:15 | 04/02/16 20:26 | 1 |
| Iron | 0.48 | | 0.40 | 0.20 | mg/L | | 04/01/16 14:15 | 04/02/16 20:26 | 1 |
| Lead | <0.0075 | | 0.0075 | 0.0075 | mg/L | | 04/01/16 14:15 | 04/02/16 20:26 | 1 |
| Manganese | 0.012 | J | 0.025 | 0.010 | mg/L | | 04/01/16 14:15 | 04/02/16 20:26 | 1 |
| Nickel | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:15 | 04/02/16 20:26 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/01/16 14:15 | 04/02/16 20:26 | 1 |
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:15 | 04/02/16 20:26 | 1 |
| Zinc | <0.50 | | 0.50 | 0.020 | mg/L | | 04/01/16 14:15 | 04/02/16 20:26 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.077 | | 0.050 | 0.010 | mg/L | | 04/01/16 09:30 | 04/02/16 00:49 | 1 |
| Barium | 0.86 | | 0.50 | 0.050 | mg/L | | 04/01/16 09:30 | 04/02/16 00:49 | 1 |
| Beryllium | 0.013 | | 0.0040 | 0.0040 | mg/L | | 04/01/16 09:30 | 04/02/16 00:49 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/01/16 09:30 | 04/02/16 00:49 | 1 |
| Chromium | 0.30 | | 0.025 | 0.010 | mg/L | | 04/01/16 09:30 | 04/02/16 00:49 | 1 |
| Cobalt | 0.12 | | 0.025 | 0.010 | mg/L | | 04/01/16 09:30 | 04/02/16 00:49 | 1 |
| Copper | 0.25 | | 0.025 | 0.010 | mg/L | | 04/01/16 09:30 | 04/02/16 00:49 | 1 |
| Iron | 260 | | 0.40 | 0.20 | mg/L | | 04/01/16 09:30 | 04/02/16 00:49 | 1 |
| Lead | 0.22 | F1 | 0.038 | 0.038 | mg/L | | 04/01/16 09:30 | 04/02/16 17:59 | 5 |
| Manganese | 0.79 | | 0.025 | 0.010 | mg/L | | 04/01/16 09:30 | 04/02/16 00:49 | 1 |
| Nickel | 0.38 | | 0.025 | 0.010 | mg/L | | 04/01/16 09:30 | 04/02/16 00:49 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/01/16 09:30 | 04/02/16 00:49 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109414-1

Client Sample ID: R48-1(0-2)-032916D

Lab Sample ID: 500-109414-10

Date Collected: 03/29/16 14:55

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 81.0

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|-------------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 09:30 | 04/02/16 00:49 | 1 |
| Zinc | 0.67 | | 0.50 | 0.020 | mg/L | | 04/01/16 09:30 | 04/02/16 00:49 | 1 |

Method: 6010B - Total Metals

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | <1.2 | | 1.2 | 0.25 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:37 | 1 |
| Arsenic | 6.5 | | 0.61 | 0.28 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:37 | 1 |
| Barium | 57 | B | 0.61 | 0.11 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:37 | 1 |
| Beryllium | 0.94 | | 0.24 | 0.052 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:37 | 1 |
| Cadmium | 0.061 | J | 0.12 | 0.035 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:37 | 1 |
| Calcium | 4100 | B | 12 | 3.9 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:37 | 1 |
| Chromium | 23 | | 0.61 | 0.10 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:37 | 1 |
| Cobalt | 16 | | 0.30 | 0.068 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:37 | 1 |
| Copper | 27 | | 0.61 | 0.13 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:37 | 1 |
| Iron | 22000 | B | 12 | 4.7 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:37 | 1 |
| Lead | 22 | | 0.30 | 0.15 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:37 | 1 |
| Magnesium | 5400 | | 6.1 | 2.5 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:37 | 1 |
| Manganese | 130 | | 0.61 | 0.12 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:37 | 1 |
| Nickel | 40 | | 0.61 | 0.16 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:37 | 1 |
| Potassium | 2400 | | 30 | 4.9 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:37 | 1 |
| Selenium | 0.90 | | 0.61 | 0.30 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:37 | 1 |
| Silver | <0.30 | | 0.30 | 0.071 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:37 | 1 |
| Sodium | 530 | B | 61 | 8.0 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:37 | 1 |
| Thallium | <0.61 | | 0.61 | 0.30 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:37 | 1 |
| Vanadium | 29 | | 0.30 | 0.088 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:37 | 1 |
| Zinc | 67 | | 1.2 | 0.38 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:37 | 1 |

Method: 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/01/16 15:45 | 04/04/16 12:07 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/01/16 15:45 | 04/04/16 11:34 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Mercury | 36 | | 20 | 10 | ug/Kg | ☼ | 03/31/16 15:20 | 04/01/16 12:26 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-------------|-----------|-------|-------|------|---|----------|----------------|---------|
| pH | 8.31 | | 0.200 | 0.200 | SU | | | 03/31/16 12:51 | 1 |

Definitions/Glossary

Client: Environmental Design International, Inc.
Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109414-1

Qualifiers

GC/MS VOA

| Qualifier | Qualifier Description |
|-----------|--|
| F1 | MS and/or MSD Recovery is outside acceptance limits. |

GC/MS Semi VOA

| Qualifier | Qualifier Description |
|-----------|--|
| X | Surrogate is outside control limits |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

Metals

| Qualifier | Qualifier Description |
|-----------|--|
| B | Compound was found in the blank and sample. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| F5 | Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL. |
| F1 | MS and/or MSD Recovery is outside acceptance limits. |
| 4 | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |

Glossary

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

Certification Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109414-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|-----------|---------|------------|------------------|-----------------|
| Illinois | NELAP | 5 | 100201 | 04-30-17 |

The following analytes are included in this report, but certification is not offered by the governing authority:


| Analysis Method | Prep Method | Matrix | Analyte |
|-----------------|-------------|--------|----------------------------|
| 8260B | | Solid | 1,3-Dichloropropene, Total |
| Moisture | | Solid | Percent Moisture |
| Moisture | | Solid | Percent Solids |



| | |
|----------------------------|--------------------------|
| Report To _____ (optional) | Bill To _____ (optional) |
| Contact: _____ | Contact: _____ |
| Company: _____ | Company: _____ |
| Address: _____ | Address: _____ |
| Address: _____ | Address: _____ |
| Phone: _____ | Phone: _____ |
| Fax: _____ | Fax: _____ |
| E-Mail: _____ | PO#/Reference# _____ |

Chain of Custody Record

Lab Job #: 500-109414
 Chain of Custody Number: _____
 Page 3 of 3
 Temperature °C of Cooler: 4.7, 5.4

| Client | | Client Project # | | Preservative | | Parameter | | | | |  Preservative Key to 4° ol to 4° l to 4° Cool to 4° 500-109414 COC | |
|------------------------|--------|---------------------|---------|--------------|-----------------|-----------|------|-------|--------------|---------------|---|----------|
| Project Name | | Lab Project # | | Matrix | | | | | | | | |
| Project Location/State | | Lab PM | | | | | | | | | | |
| Sampler | | | | | | | | | | | | |
| Lab ID | MS/MSD | Sample ID | Date | Time | # of Containers | Matrix | VOCs | SUOCs | Total Metals | SPLD/TECHNICS | PH | Comments |
| 1 | | PM-3(4-7.7)-032916 | 3/24/16 | 1255 | 2 | S | X | X | X | X | X | |
| 2 | | PM-4(0-4)-032916 | | 1315 | | | | | | | | |
| 3 | | PM-4(4-7.7)-032916 | | 1320 | | | | | | | | |
| 4 | | PM-5(0-4)-032916 | | 1340 | | | | | | | | |
| 5 | | PM-6(0-4)-032916 | | 1405 | | | | | | | | |
| 6 | | PM-6(4-7.7)-032916 | | 1410 | | | | | | | | |
| 7 | | PM-7(0-4)-032916 | | 1420 | | | | | | | | |
| 8 | | R48-1(0-0.5)-032916 | | 1435 | | | | | | | | |
| 9 | | R48-1(0-2)-032916 | | 1450 | | | | | | | | |
| 10 | | R48-1(0-2)-032916D | | 1455 | | | | | | | | |

Turnaround Time Required (Business Days) _____
 Requested Due Date _____

Sample Disposal: Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

| | | |
|--|--|------------------------|
| Relinquished By: <u>[Signature]</u> Company: <u>EDZ</u> Date: <u>3/24/16</u> Time: <u>1530</u> | Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/29/16</u> Time: <u>1530</u> | Lab Courier: <u>TA</u> |
| Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>3/29/16</u> Time: <u>1623</u> | Received By: <u>[Signature]</u> Company: <u>TA-CTP</u> Date: <u>3/29/16</u> Time: <u>16:03</u> | Shipped: _____ |
| Relinquished By: _____ Company: _____ Date: _____ Time: _____ | Received By: _____ Company: _____ Date: _____ Time: _____ | Hand Delivered: _____ |

- Matrix Key
- WW - Wastewater
 - W - Water
 - S - Soil
 - SL - Sludge
 - MS - Miscellaneous
 - OL - Oil
 - A - Air
 - SE - Sediment
 - SO - Soil
 - L - Leachate
 - WI - Wipe
 - DW - Drinking Water
 - O - Other

Client Comments: _____

Lab Comments: _____



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

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

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

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

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

I. Source Location Information

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

Project Name: FAU 3597: IL Route 1 (Halsted St) at Vincennes Rd Office Phone Number, if available: _____

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

502 E. 154th Street, (ISGS Site No. 2553V-49)

City: Phoenix State: IL Zip Code: _____

County: Cook Township: _____

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

Latitude: 41.610325 Longitude: -87.63636667

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

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

Project Name: FAU 3597: IL Route 1 (Halsted St) at Vincennes

Latitude: 41.610325 Longitude: -87.63636667

Uncontaminated Site Certification

III. Basis for Certification and Attachments

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

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

LOCATION R49-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2553V-49. SEE FIGURE 3-1 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

- 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]:

TEST AMERICA REPORTS - JOB ID: 500-109464-1.
ALSO SEE FIGURE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

I, William F. Karlovitz, P.E. (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: Weston Solutions, Inc.
 Street Address: 300 Circle Plaza; Suite 202
 City: Mundelein State: IL Zip Code: 60060
 Phone: (224) 864-7200

William F. Karlovitz, P.E.

Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

17 May 2016
Date:



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

Summary Table of ISGS Site No. 2553V-49
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAU 3597: Illinois Route 1 (Halsted Street) at Vincennes Road
Harvey, Cook County, Illinois

| Field Sample ID | R49-1(0-3.4)-033016 | Soil Reference Concentrations^A |
|-----------------------------|---------------------|--|
| Sample Date | 3/30/2016 | |
| Location ID | R49-1 | |
| Depth | 0 - 3.4 | |
| Lab Sample ID | 500-109464-1 | |
| ISGS Site No. | 2553V-49 | |
| Parameter | | |
| Laboratory pH | 8.71 | <6.25,>9.0 |
| VOCs (ug/kg) | None Detected | |
| SVOCs (ug/kg) | None Detected | |
| Total Metals (mg/kg) | | |
| Arsenic, Total | 4.3 J | 11.3 / 13.0 |
| Barium, Total | 38 J | 1500 |
| Beryllium, Total | 0.73 J- | 22 |
| Calcium, Total | 23000 J | --- |
| Chromium, Total | 17 B | 21 |
| Cobalt, Total | 9.6 J | 20 |
| Copper, Total | 17 J | 2900 |
| Iron, Total | 15000 J | 15000 / 15900 |
| Lead, Total | 13 J | 107 |
| Magnesium, Total | 17000 J | 325000 |
| Manganese, Total | 94 J | 630 / 636 |
| Mercury, Total | 0.037 | 0.89 |
| Nickel, Total | 31 J | 100 |
| Potassium, Total | 2000 J+ | --- |
| Selenium, Total | 0.46 J | 1.3 |
| Sodium, Total | 600 J- | --- |
| Vanadium, Total | 19 J | 550 |
| Zinc, Total | 55 J- | 5100 |
| TCLP Metals (mg/l) | | |
| Arsenic, TCLP | ND | 0.05 |
| Barium, TCLP | 0.13 J | 2 |
| Beryllium, TCLP | ND | 0.004 |
| Chromium, TCLP | ND | 0.1 |
| Cobalt, TCLP | ND | 1 |
| Copper, TCLP | ND | 0.65 |
| Iron, TCLP | ND | 5 |
| Lead, TCLP | ND | 0.0075 |
| Manganese, TCLP | 0.11 | 0.15 |
| Mercury, TCLP | ND | 0.002 |
| Nickel, TCLP | ND | 0.1 |
| Selenium, TCLP | ND | 0.05 |
| Zinc, TCLP | ND | 5 |
| SPLP Metals (mg/l) | | |
| Arsenic, SPLP | 0.068 | 0.05 |
| Barium, SPLP | 0.62 J+ | 2 |
| Beryllium, SPLP | 0.01 | 0.004 |
| Chromium, SPLP | 0.23 J+ | 0.1 |
| Cobalt, SPLP | 0.081 | 1 |
| Copper, SPLP | 0.17 | 0.65 |
| Iron, SPLP | 200 J+ | 5 |
| Lead, SPLP | 0.14 J+ | 0.0075 |
| Manganese, SPLP | 0.61 J+ | 0.15 |
| Mercury, SPLP | ND | 0.002 |
| Nickel, SPLP | 0.26 | 0.1 |
| Selenium, SPLP | ND | 0.05 |
| Zinc, SPLP | 0.47 J | 5 |

Notes:

--- - not applicable or value not available.

^A - Soil reference concentrations from MAC Table. Background values for MSA Counties and Chicago corporate limits are included, as applicable.

B - Constituent detected in the blank and investigative sample.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J+ - Estimated concentration; biased high.

J- - Estimated concentration; biased low.

Shaded values indicate concentration **exceeds** Reference Concentration.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-109464-1

Client Project/Site: IDOT - Harvey IL Route 113 - WO 041

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

Attn: Ms. Patricia Feeley

Jodie Bracken

Authorized for release by:
4/8/2016 3:17:01 PM

Jodie Bracken, Project Management Assistant II
jodie.bracken@testamericainc.com

Designee for

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.

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

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109464-1

Client Sample ID: R49-1(0-3.4)-033016

Lab Sample ID: 500-109464-1

Date Collected: 03/30/16 08:45

Matrix: Solid

Date Received: 03/30/16 14:45

Percent Solids: 82.2

Method: 8260B - VOC

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Acetone | <24 | | 24 | 4.7 | ug/Kg | ☼ | | 04/04/16 14:54 | 1 |
| Benzene | <6.1 | F1 | 6.1 | 1.4 | ug/Kg | ☼ | | 04/04/16 14:54 | 1 |
| Bromodichloromethane | <6.1 | F1 | 6.1 | 1.0 | ug/Kg | ☼ | | 04/04/16 14:54 | 1 |
| Bromoform | <6.1 | F1 | 6.1 | 1.2 | ug/Kg | ☼ | | 04/04/16 14:54 | 1 |
| Bromomethane | <6.1 | | 6.1 | 2.2 | ug/Kg | ☼ | | 04/04/16 14:54 | 1 |
| Carbon disulfide | <6.1 | | 6.1 | 2.2 | ug/Kg | ☼ | | 04/04/16 14:54 | 1 |
| Carbon tetrachloride | <6.1 | | 6.1 | 1.3 | ug/Kg | ☼ | | 04/04/16 14:54 | 1 |
| Chlorobenzene | <6.1 | F1 | 6.1 | 1.4 | ug/Kg | ☼ | | 04/04/16 14:54 | 1 |
| Chloroethane | <6.1 | | 6.1 | 2.6 | ug/Kg | ☼ | | 04/04/16 14:54 | 1 |
| Chloroform | <6.1 | F1 | 6.1 | 1.2 | ug/Kg | ☼ | | 04/04/16 14:54 | 1 |
| Chloromethane | <6.1 | | 6.1 | 1.5 | ug/Kg | ☼ | | 04/04/16 14:54 | 1 |
| cis-1,2-Dichloroethene | <6.1 | F1 | 6.1 | 1.2 | ug/Kg | ☼ | | 04/04/16 14:54 | 1 |
| cis-1,3-Dichloropropene | <6.1 | F1 | 6.1 | 1.4 | ug/Kg | ☼ | | 04/04/16 14:54 | 1 |
| Dibromochloromethane | <6.1 | F1 | 6.1 | 0.70 | ug/Kg | ☼ | | 04/04/16 14:54 | 1 |
| 1,1-Dichloroethane | <6.1 | F1 | 6.1 | 1.3 | ug/Kg | ☼ | | 04/04/16 14:54 | 1 |
| 1,2-Dichloroethane | <6.1 | F1 | 6.1 | 0.90 | ug/Kg | ☼ | | 04/04/16 14:54 | 1 |
| 1,1-Dichloroethene | <6.1 | | 6.1 | 2.2 | ug/Kg | ☼ | | 04/04/16 14:54 | 1 |
| 1,2-Dichloropropane | <6.1 | F1 | 6.1 | 1.6 | ug/Kg | ☼ | | 04/04/16 14:54 | 1 |
| 1,3-Dichloropropene, Total | <6.1 | | 6.1 | 1.7 | ug/Kg | ☼ | | 04/04/16 14:54 | 1 |
| Ethylbenzene | <6.1 | F1 | 6.1 | 1.5 | ug/Kg | ☼ | | 04/04/16 14:54 | 1 |
| 2-Hexanone | <6.1 | F1 | 6.1 | 1.9 | ug/Kg | ☼ | | 04/04/16 14:54 | 1 |
| Methylene Chloride | <6.1 | F1 | 6.1 | 4.6 | ug/Kg | ☼ | | 04/04/16 14:54 | 1 |
| Methyl Ethyl Ketone | <6.1 | | 6.1 | 2.2 | ug/Kg | ☼ | | 04/04/16 14:54 | 1 |
| methyl isobutyl ketone | <6.1 | F1 | 6.1 | 1.3 | ug/Kg | ☼ | | 04/04/16 14:54 | 1 |
| Methyl tert-butyl ether | <6.1 | F1 | 6.1 | 1.4 | ug/Kg | ☼ | | 04/04/16 14:54 | 1 |
| Styrene | <6.1 | F1 | 6.1 | 1.4 | ug/Kg | ☼ | | 04/04/16 14:54 | 1 |
| 1,1,2,2-Tetrachloroethane | <6.1 | F1 | 6.1 | 0.97 | ug/Kg | ☼ | | 04/04/16 14:54 | 1 |
| Tetrachloroethene | <6.1 | F1 | 6.1 | 1.3 | ug/Kg | ☼ | | 04/04/16 14:54 | 1 |
| Toluene | <6.1 | F1 | 6.1 | 2.1 | ug/Kg | ☼ | | 04/04/16 14:54 | 1 |
| trans-1,2-Dichloroethene | <6.1 | | 6.1 | 1.5 | ug/Kg | ☼ | | 04/04/16 14:54 | 1 |
| trans-1,3-Dichloropropene | <6.1 | F1 | 6.1 | 1.7 | ug/Kg | ☼ | | 04/04/16 14:54 | 1 |
| 1,1,1-Trichloroethane | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 04/04/16 14:54 | 1 |
| 1,1,2-Trichloroethane | <6.1 | F1 | 6.1 | 1.2 | ug/Kg | ☼ | | 04/04/16 14:54 | 1 |
| Trichloroethene | <6.1 | F1 | 6.1 | 1.6 | ug/Kg | ☼ | | 04/04/16 14:54 | 1 |
| Vinyl chloride | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 04/04/16 14:54 | 1 |
| Xylenes, Total | <12 | F1 | 12 | 2.3 | ug/Kg | ☼ | | 04/04/16 14:54 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 105 | | 70 - 120 | | 04/04/16 14:54 | 1 |
| Dibromofluoromethane | 112 | | 75 - 120 | | 04/04/16 14:54 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 110 | | 69 - 134 | | 04/04/16 14:54 | 1 |
| Toluene-d8 (Surr) | 112 | | 75 - 123 | | 04/04/16 14:54 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,2,4-Trichlorobenzene | <190 | | 190 | 42 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 03:54 | 1 |
| 1,2-Dichlorobenzene | <190 | | 190 | 46 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 03:54 | 1 |
| 1,3-Dichlorobenzene | <190 | | 190 | 44 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 03:54 | 1 |
| 1,4-Dichlorobenzene | <190 | | 190 | 50 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 03:54 | 1 |
| 2,2'-oxybis[1-chloropropane] | <190 | | 190 | 45 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 03:54 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109464-1

Client Sample ID: R49-1(0-3.4)-033016

Lab Sample ID: 500-109464-1

Date Collected: 03/30/16 08:45

Matrix: Solid

Date Received: 03/30/16 14:45

Percent Solids: 82.2

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol | <380 | F2 | 380 | 88 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 03:54 | 1 |
| 2,4,6-Trichlorophenol | <380 | | 380 | 130 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 03:54 | 1 |
| 2,4-Dichlorophenol | <380 | | 380 | 92 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 03:54 | 1 |
| 2,4-Dimethylphenol | <380 | F1 F2 | 380 | 150 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 03:54 | 1 |
| 2,4-Dinitrophenol | <780 | F1 | 780 | 680 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 03:54 | 1 |
| 2,4-Dinitrotoluene | <190 | | 190 | 62 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 03:54 | 1 |
| 2,6-Dinitrotoluene | <190 | | 190 | 76 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 03:54 | 1 |
| 2-Chloronaphthalene | <190 | | 190 | 43 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 03:54 | 1 |
| 2-Chlorophenol | <190 | | 190 | 66 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 03:54 | 1 |
| 2-Methylnaphthalene | <38 | | 38 | 7.1 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 03:54 | 1 |
| 2-Methylphenol | <190 | | 190 | 62 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 03:54 | 1 |
| 2-Nitroaniline | <190 | | 190 | 52 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 03:54 | 1 |
| 2-Nitrophenol | <380 | | 380 | 91 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 03:54 | 1 |
| 3 & 4 Methylphenol | <190 | F2 | 190 | 65 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 03:54 | 1 |
| 3,3'-Dichlorobenzidine | <190 | | 190 | 54 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 03:54 | 1 |
| 3-Nitroaniline | <380 | | 380 | 120 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 03:54 | 1 |
| 4,6-Dinitro-2-methylphenol | <780 | | 780 | 310 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 03:54 | 1 |
| 4-Bromophenyl phenyl ether | <190 | | 190 | 51 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 03:54 | 1 |
| 4-Chloro-3-methylphenol | <380 | F1 F2 | 380 | 130 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 03:54 | 1 |
| 4-Chloroaniline | <780 | F2 | 780 | 180 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 03:54 | 1 |
| 4-Chlorophenyl phenyl ether | <190 | | 190 | 45 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 03:54 | 1 |
| 4-Nitroaniline | <380 | | 380 | 160 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 03:54 | 1 |
| 4-Nitrophenol | <780 | F2 | 780 | 370 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 03:54 | 1 |
| Acenaphthene | <38 | | 38 | 7.0 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 03:54 | 1 |
| Acenaphthylene | <38 | | 38 | 5.1 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 03:54 | 1 |
| Anthracene | <38 | | 38 | 6.5 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 03:54 | 1 |
| Benzo[a]anthracene | <38 | | 38 | 5.2 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 03:54 | 1 |
| Benzo[a]pyrene | <38 | | 38 | 7.5 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 03:54 | 1 |
| Benzo[b]fluoranthene | <38 | | 38 | 8.4 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 03:54 | 1 |
| Benzo[g,h,i]perylene | <38 | | 38 | 12 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 03:54 | 1 |
| Benzo[k]fluoranthene | <38 | | 38 | 11 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 03:54 | 1 |
| Bis(2-chloroethoxy)methane | <190 | | 190 | 40 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 03:54 | 1 |
| Bis(2-chloroethyl)ether | <190 | | 190 | 58 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 03:54 | 1 |
| Bis(2-ethylhexyl) phthalate | <190 | F1 | 190 | 71 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 03:54 | 1 |
| Butyl benzyl phthalate | <190 | F1 | 190 | 74 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 03:54 | 1 |
| Carbazole | <190 | | 190 | 97 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 03:54 | 1 |
| Chrysene | <38 | | 38 | 11 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 03:54 | 1 |
| Dibenz(a,h)anthracene | <38 | | 38 | 7.5 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 03:54 | 1 |
| Dibenzofuran | <190 | | 190 | 45 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 03:54 | 1 |
| Diethyl phthalate | <190 | | 190 | 66 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 03:54 | 1 |
| Dimethyl phthalate | <190 | | 190 | 51 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 03:54 | 1 |
| Di-n-butyl phthalate | <190 | | 190 | 59 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 03:54 | 1 |
| Di-n-octyl phthalate | <190 | F1 | 190 | 63 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 03:54 | 1 |
| Fluoranthene | <38 | F1 | 38 | 7.2 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 03:54 | 1 |
| Fluorene | <38 | | 38 | 5.4 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 03:54 | 1 |
| Hexachlorobenzene | <78 | | 78 | 9.0 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 03:54 | 1 |
| Hexachlorobutadiene | <190 | | 190 | 61 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 03:54 | 1 |
| Hexachlorocyclopentadiene | <780 | F1 | 780 | 220 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 03:54 | 1 |
| Hexachloroethane | <190 | F1 | 190 | 59 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 03:54 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109464-1

Client Sample ID: R49-1(0-3.4)-033016

Lab Sample ID: 500-109464-1

Date Collected: 03/30/16 08:45

Matrix: Solid

Date Received: 03/30/16 14:45

Percent Solids: 82.2

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Indeno[1,2,3-cd]pyrene | <38 | | 38 | 10 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 03:54 | 1 |
| Isophorone | <190 | | 190 | 43 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 03:54 | 1 |
| Naphthalene | <38 | | 38 | 6.0 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 03:54 | 1 |
| Nitrobenzene | <38 | | 38 | 9.7 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 03:54 | 1 |
| N-Nitrosodi-n-propylamine | <78 | | 78 | 47 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 03:54 | 1 |
| N-Nitrosodiphenylamine | <190 | | 190 | 46 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 03:54 | 1 |
| Pentachlorophenol | <780 | F1 | 780 | 620 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 03:54 | 1 |
| Phenanthrene | <38 | | 38 | 5.4 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 03:54 | 1 |
| Phenol | <190 | | 190 | 86 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 03:54 | 1 |
| Pyrene | <38 | F1 | 38 | 7.7 | ug/Kg | ☼ | 03/30/16 16:59 | 04/06/16 03:54 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2,4,6-Tribromophenol | 40 | | 25 - 130 | | | | 03/30/16 16:59 | 04/06/16 03:54 | 1 |
| 2-Fluorobiphenyl | 96 | | 42 - 115 | | | | 03/30/16 16:59 | 04/06/16 03:54 | 1 |
| 2-Fluorophenol | 85 | | 40 - 130 | | | | 03/30/16 16:59 | 04/06/16 03:54 | 1 |
| Nitrobenzene-d5 | 81 | | 33 - 124 | | | | 03/30/16 16:59 | 04/06/16 03:54 | 1 |
| Phenol-d5 | 83 | | 36 - 123 | | | | 03/30/16 16:59 | 04/06/16 03:54 | 1 |
| Terphenyl-d14 | 105 | | 25 - 150 | | | | 03/30/16 16:59 | 04/06/16 03:54 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|-------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.050 | | 0.050 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 15:39 | 1 |
| Barium | 0.13 | J | 0.50 | 0.050 | mg/L | | 04/02/16 13:50 | 04/04/16 15:39 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 04/02/16 13:50 | 04/04/16 15:39 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/02/16 13:50 | 04/04/16 15:39 | 1 |
| Chromium | <0.025 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 15:39 | 1 |
| Cobalt | <0.025 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 15:39 | 1 |
| Copper | <0.025 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 15:39 | 1 |
| Iron | <0.40 | | 0.40 | 0.20 | mg/L | | 04/02/16 13:50 | 04/04/16 15:39 | 1 |
| Lead | <0.0075 | | 0.0075 | 0.0075 | mg/L | | 04/06/16 09:45 | 04/06/16 14:44 | 1 |
| Manganese | 0.11 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 15:39 | 1 |
| Nickel | <0.025 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 15:39 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/02/16 13:50 | 04/04/16 15:39 | 1 |
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/02/16 13:50 | 04/04/16 15:39 | 1 |
| Zinc | <0.50 | | 0.50 | 0.020 | mg/L | | 04/02/16 13:50 | 04/04/16 15:39 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.068 | | 0.050 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 18:09 | 1 |
| Barium | 0.62 | | 0.50 | 0.050 | mg/L | | 04/04/16 08:37 | 04/04/16 18:09 | 1 |
| Beryllium | 0.010 | | 0.0040 | 0.0040 | mg/L | | 04/04/16 08:37 | 04/04/16 18:09 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/04/16 08:37 | 04/04/16 18:09 | 1 |
| Chromium | 0.23 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 18:09 | 1 |
| Cobalt | 0.081 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 18:09 | 1 |
| Copper | 0.17 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 18:09 | 1 |
| Iron | 200 | | 0.40 | 0.20 | mg/L | | 04/04/16 08:37 | 04/04/16 18:09 | 1 |
| Lead | 0.14 | | 0.0075 | 0.0075 | mg/L | | 04/04/16 08:37 | 04/04/16 18:09 | 1 |
| Manganese | 0.61 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 18:09 | 1 |
| Nickel | 0.26 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 18:09 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/04/16 08:37 | 04/04/16 18:09 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109464-1

Client Sample ID: R49-1(0-3.4)-033016

Lab Sample ID: 500-109464-1

Date Collected: 03/30/16 08:45

Matrix: Solid

Date Received: 03/30/16 14:45

Percent Solids: 82.2

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|-------------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/04/16 08:37 | 04/04/16 18:09 | 1 |
| Zinc | 0.47 | J | 0.50 | 0.020 | mg/L | | 04/04/16 08:37 | 04/04/16 18:09 | 1 |

Method: 6010B - Total Metals

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|--------------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | <1.1 | F1 | 1.1 | 0.23 | mg/Kg | ☼ | 04/01/16 08:37 | 04/02/16 22:13 | 1 |
| Arsenic | 4.3 | F1 F2 | 0.56 | 0.26 | mg/Kg | ☼ | 04/01/16 08:37 | 04/02/16 22:13 | 1 |
| Barium | 38 | F1 | 0.56 | 0.10 | mg/Kg | ☼ | 04/01/16 08:37 | 04/02/16 22:13 | 1 |
| Beryllium | 0.73 | F1 | 0.22 | 0.048 | mg/Kg | ☼ | 04/01/16 08:37 | 04/02/16 22:13 | 1 |
| Cadmium | <0.11 | F1 | 0.11 | 0.032 | mg/Kg | ☼ | 04/01/16 08:37 | 04/02/16 22:13 | 1 |
| Calcium | 23000 | F2 | 11 | 3.6 | mg/Kg | ☼ | 04/01/16 08:37 | 04/02/16 22:13 | 1 |
| Chromium | 17 | B | 0.56 | 0.096 | mg/Kg | ☼ | 04/01/16 08:37 | 04/02/16 22:13 | 1 |
| Cobalt | 9.6 | | 0.28 | 0.063 | mg/Kg | ☼ | 04/01/16 08:37 | 04/02/16 22:13 | 1 |
| Copper | 17 | F1 F2 | 0.56 | 0.12 | mg/Kg | ☼ | 04/01/16 08:37 | 04/02/16 22:13 | 1 |
| Iron | 15000 | B F2 | 11 | 4.3 | mg/Kg | ☼ | 04/01/16 08:37 | 04/02/16 22:13 | 1 |
| Lead | 13 | F1 F2 | 0.28 | 0.14 | mg/Kg | ☼ | 04/01/16 08:37 | 04/02/16 22:13 | 1 |
| Magnesium | 17000 | B | 5.6 | 2.3 | mg/Kg | ☼ | 04/01/16 08:37 | 04/02/16 22:13 | 1 |
| Manganese | 94 | F1 F2 | 0.56 | 0.11 | mg/Kg | ☼ | 04/01/16 08:37 | 04/02/16 22:13 | 1 |
| Nickel | 31 | F1 | 0.56 | 0.15 | mg/Kg | ☼ | 04/01/16 08:37 | 04/02/16 22:13 | 1 |
| Potassium | 2000 | B F1 | 28 | 4.5 | mg/Kg | ☼ | 04/01/16 08:37 | 04/02/16 22:13 | 1 |
| Selenium | 0.46 | J F1 | 0.56 | 0.28 | mg/Kg | ☼ | 04/01/16 08:37 | 04/02/16 22:13 | 1 |
| Silver | <0.28 | F1 | 0.28 | 0.065 | mg/Kg | ☼ | 04/01/16 08:37 | 04/02/16 22:13 | 1 |
| Sodium | 600 | B F1 | 56 | 7.3 | mg/Kg | ☼ | 04/01/16 08:37 | 04/02/16 22:13 | 1 |
| Thallium | <0.56 | | 0.56 | 0.27 | mg/Kg | ☼ | 04/01/16 08:37 | 04/02/16 22:13 | 1 |
| Vanadium | 19 | F1 | 0.28 | 0.081 | mg/Kg | ☼ | 04/01/16 08:37 | 04/02/16 22:13 | 1 |
| Zinc | 55 | B F1 | 1.1 | 0.35 | mg/Kg | ☼ | 04/01/16 08:37 | 04/02/16 22:13 | 1 |

Method: 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/04/16 16:10 | 04/05/16 12:10 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/04/16 16:10 | 04/05/16 11:12 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Mercury | 37 | | 19 | 10 | ug/Kg | ☼ | 04/01/16 13:30 | 04/04/16 10:51 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-------------|-----------|-------|-------|------|---|----------|----------------|---------|
| pH | 8.71 | | 0.200 | 0.200 | SU | | | 04/05/16 15:35 | 1 |

Definitions/Glossary

Client: Environmental Design International, Inc.
Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109464-1

Qualifiers

GC/MS VOA

| Qualifier | Qualifier Description |
|-----------|--|
| F1 | MS and/or MSD Recovery is outside acceptance limits. |
| * | LCS or LCSD is outside acceptance limits. |

GC/MS Semi VOA

| Qualifier | Qualifier Description |
|-----------|--|
| F2 | MS/MSD RPD exceeds control limits |
| F1 | MS and/or MSD Recovery is outside acceptance limits. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| E | Result exceeded calibration range. |
| X | Surrogate is outside control limits |

Metals

| Qualifier | Qualifier Description |
|-----------|--|
| F1 | MS and/or MSD Recovery is outside acceptance limits. |
| F2 | MS/MSD RPD exceeds control limits |
| B | Compound was found in the blank and sample. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| F3 | Duplicate RPD exceeds the control limit |
| F5 | Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL. |
| 4 | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |

Glossary

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

Certification Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109464-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|-----------|---------|------------|------------------|-----------------|
| Illinois | NELAP | 5 | 100201 | 04-30-17 |

The following analytes are included in this report, but certification is not offered by the governing authority:

| Analysis Method | Prep Method | Matrix | Analyte |
|-----------------|-------------|--------|----------------------------|
| 8260B | | Solid | 1,3-Dichloropropene, Total |
| 8260B | 5030B | Solid | 1,3-Dichloropropene, Total |
| Moisture | | Solid | Percent Moisture |
| Moisture | | Solid | Percent Solids |

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Report To _____ (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

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

Chain of Custody Record

Lab Job #: 500-109464


Chain of Custody Number: _____

Page 1 of 2

Temperature °C of Cooler: 5.1

| Client | | Client Project # | | Preservative | | Parameter | | Matrix | | Comments | | |
|------------------------|--------|-----------------------|----------|---------------|-----------------|-----------|------|--------|--------------|------------------|----|----------|
| EDJ | | 0295.022 | | | | | | | | | | |
| Project Name | | Harvey IL | | Lab Project # | | Lab PM | | | | | | |
| Project Location/State | | Harvey IL | | Lab Project # | | Lab PM | | | | | | |
| Sampler | | Celia Pannier | | Lab PM | | | | | | | | |
| Lab ID | MS/MSD | Sample ID | Sampling | | # of Containers | Matrix | VOCs | SVOCs | Total Metals | TEC/SP/PP Metals | pH | Comments |
| | | | Date | Time | | | | | | | | |
| 1 | | R49-1(0-3.4)-033016 | 3/30/16 | 0845 | 2 | S | X | X | X | X | X | |
| 2 | | CB45-1(0-4)-033016 | | 0855 | | | | | | | | |
| 3 | | CB45-2(0-6.6)-033016 | | 0910 | | | | | | | | |
| 4 | | CB33-1(0-4)-033016 | | 0925 | | | | | | | | |
| 5 | | CB33-2(0-4)-033016 | | 0945 | | | | | | | | |
| 6 | | CB33-2(4-7.3)-033016 | | 0950 | | | | | | | | |
| 7 | | CB33-3(0-4)-033016 | | 1000 | | | | | | | | |
| 8 | | CB33-4(0-4)-033016 | | 1025 | | | | | | | | |
| 9 | | CB33-4(4-7.3)-033016 | | 1030 | | | | | | | | |
| 10 | | CB33-4(4-7.3)-033016D | | 1035 | | | X | X | X | X | X | |

Preservative Key
4°
to 4°
to 4°
to 4°
to 4°



500-109464 COC

Turnaround Time Required (Business Days)
 1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other
 Requested Due Date _____

Sample Disposal
 Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

| | | |
|--|--|-----------------------|
| Relinquished By: <u>[Signature]</u> Company: EDJ Date: 3/30/16 Time: 1:25 | Received By: <u>[Signature]</u> Company: TA Date: 3/30/16 Time: 1:25 | Lab Courier: TA |
| Relinquished By: <u>[Signature]</u> Company: TA Date: 3/30/16 Time: 1:45 | Received By: <u>[Signature]</u> Company: TA-CHI Date: 03/30/16 Time: 1:45 | Shipped: _____ |
| Relinquished By: _____ Company: _____ Date: _____ Time: _____ | Received By: _____ Company: _____ Date: _____ Time: _____ | Hand Delivered: _____ |

- Matrix Key
- WW - Wastewater
 - W - Water
 - S - Soil
 - SL - Sludge
 - MS - Miscellaneous
 - OL - Oil
 - A - Air
 - SE - Sediment
 - SO - Soil
 - L - Leachate
 - WI - Wipe
 - DW - Drinking Water
 - O - Other

Client Comments: _____

Lab Comments: _____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional) _____
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

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

Chain of Custody Record

Lab Job #: 500-109464
 Chain of Custody Number: _____
 Page 2 of 2
 Temperature °C of Cooler: 5.1

| Client | | Client Project # | | Preservative | | Parameter | | Comments | | | |
|------------------------|--------|----------------------|---------|-----------------|-----------------|-----------|------|---|--------------|------------------|----|
| EDI | | 0295.022 | | | | | | Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other | | | |
| Project Name | | Lab Project # | | # of Containers | | Matrix | | | | | |
| IDOT - Harvey | | | | | | | | | | | |
| Project Location/State | | Lab PM | | Date | | Time | | | | | |
| Harvey IL | | | | | | | | | | | |
| Sampler | | Sampling | | Date | | Time | | | | | |
| Glin Pomeroy | | | | | | | | | | | |
| Lab ID | MS/MSD | Sample ID | Date | Time | # of Containers | Matrix | VOCs | SVOCS | Total Metals | TECO/SPLC Metals | pH |
| 11 | | VL26-1(6-5.2)-033016 | 3/30/16 | 1135 | 2 | S | X | X | X | X | X |
| 12 | | VL26-2(0-5.2)-033016 | | 1150 | | | | | | | |
| 13 | | VL25-1(0-4.5)-033016 | | 1205 | | | | | | | |
| 14 | | CG-1(0-4)-033016 | | 1225 | | | | | | | |
| 15 | | CG-2(0-4)-033016 | | 1245 | | | | | | | |
| 16 | | CG-2(0-4)-033016 D | | 1250 | | | | | | | |
| 17 | | CG-3(0-4)-033016 | | 1300 | | | | | | | |
| 18 | | CG-4(0-4)-033016 | | 1315 | | | | | | | |
| 19 | | CG-5(0-4.5)-033016 | | 1335 | | | X | X | X | X | X |

Turnaround Time Required (Business Days)

___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days ___ Other

Sample Disposal

Requested Due Date _____
 Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

| | | | | | | |
|---|---------------|------------|--|----------------|------------|-------------------|
| Relinquished By <i>[Signature]</i> Company: EDI | Date: 3/30/16 | Time: 1425 | Received By <i>[Signature]</i> Company: TA | Date: 3/30/16 | Time: 1425 | Lab Courier TA |
| Relinquished By <i>[Signature]</i> Company: TA | Date: 3/30/16 | Time: 1445 | Received By <i>[Signature]</i> Company: TA | Date: 03/30/16 | Time: 1445 | Shipped |
| Relinquished By | Date | Time | Received By | Date | Time | Hand Delivered |

Matrix Key

- WW - Wastewater
- W - Water
- S - Soil
- SL - Sludge
- MS - Miscellaneous
- OL - Oil
- A - Air
- SE - Sediment
- SO - Soil
- L - Leachate
- WI - Wipe
- DW - Drinking Water
- O - Other

Client Comments

Lab Comments:



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

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

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

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

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

I. Source Location Information

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

Project Name: FAU 3597: IL Route 1 (Halsted St) at Vincennes Rd Office Phone Number, if available: _____

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

15403 S. Halsted Street, (ISGS Site No. 2553V-50)

City: Phoenix State: IL Zip Code: _____

County: Cook Township: _____

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

Latitude: 41.60985833 Longitude: -87.63636111
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

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

Project Name: FAU 3597: IL Route 1 (Halsted St) at Vincennes FtLatitude: 41.60985833 Longitude: -87.63636111Uncontaminated Site Certification**III. Basis for Certification and Attachments**

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

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

LOCATION RAS-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2553V-50. SEE FIGURE 3-1 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

- 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]:

TEST AMERICA REPORTS - JOB ID: 500-109414-1.
ALSO SEE FIGURE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

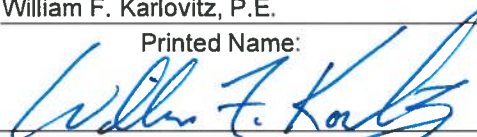
I, William F. Karlovitz, P.E. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with 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: Weston Solutions, Inc.
Street Address: 300 Circle Plaza; Suite 202
City: Mundelein State: IL Zip Code: 60060
Phone: (224) 864-7200

William F. Karlovitz, P.E.

Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

17 May 2016

Date:



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

Summary Table of ISGS Site No. 2553V-50
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAU 3597: Illinois Route 1 (Halsted Street) at Vincennes Road
Harvey, Cook County, Illinois

| Field Sample ID | RAS-1(0-0.5)-032916 | Soil Reference Concentrations^A |
|-----------------------------|---------------------|--|
| Sample Date | 3/29/2016 | |
| Location ID | RAS-1 | |
| Depth | 0 - 0.5 | |
| Lab Sample ID | 500-109414-8 | |
| ISGS Site No. | 2553V-50 | |
| Parameter | | |
| Laboratory pH | 8.35 | <6.25,>9.0 |
| VOCs (ug/kg) | None Detected | |
| SVOCs (ug/kg) | | |
| Benzo(a)anthracene | 28 J | 900 / 1100 / 1800 |
| Chrysene | 62 | 88000 |
| Fluoranthene | 16 J | 3100000 |
| Phenanthrene | 20 J | --- |
| Pyrene | 58 | 2300000 |
| Total Metals (mg/kg) | | |
| Antimony, Total | ND | 5 |
| Arsenic, Total | 3.2 | 11.3 / 13.0 |
| Barium, Total | 45 B | 1500 |
| Beryllium, Total | 0.67 | 22 |
| Cadmium, Total | 0.068 J | 5.2 |
| Calcium, Total | 74000 B | --- |
| Chromium, Total | 16 | 21 |
| Cobalt, Total | 9.3 | 20 |
| Copper, Total | 18 | 2900 |
| Iron, Total | 12000 B | 15000 / 15900 |
| Lead, Total | 13 | 107 |
| Magnesium, Total | 35000 | 325000 |
| Manganese, Total | 90 | 630 / 636 |
| Mercury, Total | 0.028 | 0.89 |
| Nickel, Total | 27 | 100 |
| Potassium, Total | 2100 | --- |
| Selenium, Total | 0.55 | 1.3 |
| Thallium, Total | ND | 2.6 |
| Vanadium, Total | 18 | 550 |
| Zinc, Total | 49 | 5100 |
| TCLP Metals (mg/l) | | |
| Arsenic, TCLP | ND | 0.05 |
| Barium, TCLP | 0.18 J | 2 |
| Beryllium, TCLP | ND | 0.004 |
| Cadmium, TCLP | ND | 0.005 |
| Chromium, TCLP | ND | 0.1 |
| Cobalt, TCLP | ND | 1 |
| Copper, TCLP | ND | 0.65 |
| Iron, TCLP | 0.32 J | 5 |
| Lead, TCLP | ND | 0.0075 |
| Manganese, TCLP | 0.057 | 0.15 |
| Mercury, TCLP | ND | 0.002 |
| Nickel, TCLP | ND | 0.1 |
| Selenium, TCLP | | 0.05 |
| Zinc, TCLP | 0.036 J | 5 |
| SPLP Metals (mg/l) | | |
| Arsenic, SPLP | 0.034 J | 0.05 |
| Barium, SPLP | 0.68 | 2 |
| Beryllium, SPLP | 0.0085 | 0.004 |
| Cadmium, SPLP | ND | 0.005 |
| Chromium, SPLP | 0.22 | 0.1 |
| Cobalt, SPLP | 0.077 | 1 |
| Copper, SPLP | 0.16 | 0.65 |
| Iron, SPLP | 150 J+ | 5 |
| Lead, SPLP | 0.19 J+ | 0.0075 |
| Manganese, SPLP | 0.43 | 0.15 |
| Mercury, SPLP | ND | 0.002 |
| Nickel, SPLP | 0.24 | 0.1 |
| Selenium, SPLP | ND | 0.05 |
| Zinc, SPLP | 0.43 J | 5 |

Summary Table of ISGS Site No. 2553V-50
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAU 3597: Illinois Route 1 (Halsted Street) at Vincennes Road
Harvey, Cook County, Illinois

Notes:

--- - not applicable or value not available.


^A - Soil reference concentrations from MAC Table. Background values for MSA Counties and Chicago corporate limits are included, as applicable.

B - Constituent detected in the blank and investigative sample.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J+ - Estimated concentration; biased high.

 Shaded values indicate concentration **exceeds** Reference Concentration.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-109414-1

Client Project/Site: IDOT - Harvey IL Route 113 - WO 041

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

Attn: Ms. Patricia Feeley



Authorized for release by:
4/6/2016 3:04:11 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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Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109414-1

Client Sample ID: RAS-1(0-0.5)-032916

Lab Sample ID: 500-109414-8

Date Collected: 03/29/16 14:35

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 82.1

Method: 8260B - VOC

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Acetone | <24 | | 24 | 4.7 | ug/Kg | ☼ | | 03/31/16 17:58 | 1 |
| Benzene | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 03/31/16 17:58 | 1 |
| Bromodichloromethane | <6.1 | | 6.1 | 1.0 | ug/Kg | ☼ | | 03/31/16 17:58 | 1 |
| Bromoform | <6.1 | | 6.1 | 1.2 | ug/Kg | ☼ | | 03/31/16 17:58 | 1 |
| Bromomethane | <6.1 | | 6.1 | 2.2 | ug/Kg | ☼ | | 03/31/16 17:58 | 1 |
| Carbon disulfide | <6.1 | | 6.1 | 2.2 | ug/Kg | ☼ | | 03/31/16 17:58 | 1 |
| Carbon tetrachloride | <6.1 | | 6.1 | 1.3 | ug/Kg | ☼ | | 03/31/16 17:58 | 1 |
| Chlorobenzene | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 03/31/16 17:58 | 1 |
| Chloroethane | <6.1 | | 6.1 | 2.6 | ug/Kg | ☼ | | 03/31/16 17:58 | 1 |
| Chloroform | <6.1 | | 6.1 | 1.2 | ug/Kg | ☼ | | 03/31/16 17:58 | 1 |
| Chloromethane | <6.1 | | 6.1 | 1.5 | ug/Kg | ☼ | | 03/31/16 17:58 | 1 |
| cis-1,2-Dichloroethene | <6.1 | | 6.1 | 1.2 | ug/Kg | ☼ | | 03/31/16 17:58 | 1 |
| cis-1,3-Dichloropropene | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 03/31/16 17:58 | 1 |
| Dibromochloromethane | <6.1 | | 6.1 | 0.70 | ug/Kg | ☼ | | 03/31/16 17:58 | 1 |
| 1,1-Dichloroethane | <6.1 | | 6.1 | 1.3 | ug/Kg | ☼ | | 03/31/16 17:58 | 1 |
| 1,2-Dichloroethane | <6.1 | | 6.1 | 0.90 | ug/Kg | ☼ | | 03/31/16 17:58 | 1 |
| 1,1-Dichloroethene | <6.1 | | 6.1 | 2.2 | ug/Kg | ☼ | | 03/31/16 17:58 | 1 |
| 1,2-Dichloropropane | <6.1 | | 6.1 | 1.6 | ug/Kg | ☼ | | 03/31/16 17:58 | 1 |
| 1,3-Dichloropropene, Total | <6.1 | | 6.1 | 1.7 | ug/Kg | ☼ | | 03/31/16 17:58 | 1 |
| Ethylbenzene | <6.1 | | 6.1 | 1.5 | ug/Kg | ☼ | | 03/31/16 17:58 | 1 |
| 2-Hexanone | <6.1 | | 6.1 | 1.9 | ug/Kg | ☼ | | 03/31/16 17:58 | 1 |
| Methylene Chloride | <6.1 | | 6.1 | 4.6 | ug/Kg | ☼ | | 03/31/16 17:58 | 1 |
| Methyl Ethyl Ketone | <6.1 | | 6.1 | 2.2 | ug/Kg | ☼ | | 03/31/16 17:58 | 1 |
| methyl isobutyl ketone | <6.1 | | 6.1 | 1.3 | ug/Kg | ☼ | | 03/31/16 17:58 | 1 |
| Methyl tert-butyl ether | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 03/31/16 17:58 | 1 |
| Styrene | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 03/31/16 17:58 | 1 |
| 1,1,2,2-Tetrachloroethane | <6.1 | | 6.1 | 0.97 | ug/Kg | ☼ | | 03/31/16 17:58 | 1 |
| Tetrachloroethene | <6.1 | | 6.1 | 1.3 | ug/Kg | ☼ | | 03/31/16 17:58 | 1 |
| Toluene | <6.1 | | 6.1 | 2.1 | ug/Kg | ☼ | | 03/31/16 17:58 | 1 |
| trans-1,2-Dichloroethene | <6.1 | | 6.1 | 1.5 | ug/Kg | ☼ | | 03/31/16 17:58 | 1 |
| trans-1,3-Dichloropropene | <6.1 | | 6.1 | 1.7 | ug/Kg | ☼ | | 03/31/16 17:58 | 1 |
| 1,1,1-Trichloroethane | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 03/31/16 17:58 | 1 |
| 1,1,2-Trichloroethane | <6.1 | | 6.1 | 1.2 | ug/Kg | ☼ | | 03/31/16 17:58 | 1 |
| Trichloroethene | <6.1 | | 6.1 | 1.6 | ug/Kg | ☼ | | 03/31/16 17:58 | 1 |
| Vinyl chloride | <6.1 | | 6.1 | 1.4 | ug/Kg | ☼ | | 03/31/16 17:58 | 1 |
| Xylenes, Total | <12 | | 12 | 2.3 | ug/Kg | ☼ | | 03/31/16 17:58 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 107 | | 70 - 120 | | 03/31/16 17:58 | 1 |
| Dibromofluoromethane | 112 | | 75 - 120 | | 03/31/16 17:58 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 113 | | 69 - 134 | | 03/31/16 17:58 | 1 |
| Toluene-d8 (Surr) | 117 | | 75 - 123 | | 03/31/16 17:58 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,2,4-Trichlorobenzene | <200 | | 200 | 43 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:27 | 1 |
| 1,2-Dichlorobenzene | <200 | | 200 | 47 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:27 | 1 |
| 1,3-Dichlorobenzene | <200 | | 200 | 45 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:27 | 1 |
| 1,4-Dichlorobenzene | <200 | | 200 | 51 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:27 | 1 |
| 2,2'-oxybis[1-chloropropane] | <200 | | 200 | 46 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:27 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109414-1

Client Sample ID: RAS-1(0-0.5)-032916

Lab Sample ID: 500-109414-8

Date Collected: 03/29/16 14:35

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 82.1

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-------------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol | <390 | | 390 | 91 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:27 | 1 |
| 2,4,6-Trichlorophenol | <390 | | 390 | 140 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:27 | 1 |
| 2,4-Dichlorophenol | <390 | | 390 | 94 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:27 | 1 |
| 2,4-Dimethylphenol | <390 | | 390 | 150 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:27 | 1 |
| 2,4-Dinitrophenol | <800 | | 800 | 700 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:27 | 1 |
| 2,4-Dinitrotoluene | <200 | | 200 | 63 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:27 | 1 |
| 2,6-Dinitrotoluene | <200 | | 200 | 78 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:27 | 1 |
| 2-Chloronaphthalene | <200 | | 200 | 44 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:27 | 1 |
| 2-Chlorophenol | <200 | | 200 | 68 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:27 | 1 |
| 2-Methylnaphthalene | <39 | | 39 | 7.3 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:27 | 1 |
| 2-Methylphenol | <200 | | 200 | 64 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:27 | 1 |
| 2-Nitroaniline | <200 | | 200 | 53 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:27 | 1 |
| 2-Nitrophenol | <390 | | 390 | 94 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:27 | 1 |
| 3 & 4 Methylphenol | <200 | | 200 | 66 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:27 | 1 |
| 3,3'-Dichlorobenzidine | <200 | | 200 | 56 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:27 | 1 |
| 3-Nitroaniline | <390 | | 390 | 120 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:27 | 1 |
| 4,6-Dinitro-2-methylphenol | <800 | | 800 | 320 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:27 | 1 |
| 4-Bromophenyl phenyl ether | <200 | | 200 | 52 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:27 | 1 |
| 4-Chloro-3-methylphenol | <390 | | 390 | 130 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:27 | 1 |
| 4-Chloroaniline | <800 | | 800 | 190 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:27 | 1 |
| 4-Chlorophenyl phenyl ether | <200 | | 200 | 46 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:27 | 1 |
| 4-Nitroaniline | <390 | | 390 | 170 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:27 | 1 |
| 4-Nitrophenol | <800 | | 800 | 380 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:27 | 1 |
| Acenaphthene | <39 | | 39 | 7.1 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:27 | 1 |
| Acenaphthylene | <39 | | 39 | 5.2 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:27 | 1 |
| Anthracene | <39 | | 39 | 6.6 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:27 | 1 |
| Benzo[a]anthracene | 28 J | | 39 | 5.3 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:27 | 1 |
| Benzo[a]pyrene | <39 | | 39 | 7.7 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:27 | 1 |
| Benzo[b]fluoranthene | <39 | | 39 | 8.6 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:27 | 1 |
| Benzo[g,h,i]perylene | <39 | | 39 | 13 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:27 | 1 |
| Benzo[k]fluoranthene | <39 | | 39 | 12 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:27 | 1 |
| Bis(2-chloroethoxy)methane | <200 | | 200 | 40 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:27 | 1 |
| Bis(2-chloroethyl)ether | <200 | | 200 | 59 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:27 | 1 |
| Bis(2-ethylhexyl) phthalate | <200 | | 200 | 73 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:27 | 1 |
| Butyl benzyl phthalate | <200 | | 200 | 76 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:27 | 1 |
| Carbazole | <200 | | 200 | 99 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:27 | 1 |
| Chrysene | 62 | | 39 | 11 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:27 | 1 |
| Dibenz(a,h)anthracene | <39 | | 39 | 7.7 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:27 | 1 |
| Dibenzofuran | <200 | | 200 | 46 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:27 | 1 |
| Diethyl phthalate | <200 | | 200 | 67 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:27 | 1 |
| Dimethyl phthalate | <200 | | 200 | 52 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:27 | 1 |
| Di-n-butyl phthalate | <200 | | 200 | 60 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:27 | 1 |
| Di-n-octyl phthalate | <200 | | 200 | 65 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:27 | 1 |
| Fluoranthene | 16 J | | 39 | 7.4 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:27 | 1 |
| Fluorene | <39 | | 39 | 5.6 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:27 | 1 |
| Hexachlorobenzene | <80 | | 80 | 9.2 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:27 | 1 |
| Hexachlorobutadiene | <200 | | 200 | 62 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:27 | 1 |
| Hexachlorocyclopentadiene | <800 | | 800 | 230 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:27 | 1 |
| Hexachloroethane | <200 | | 200 | 60 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:27 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109414-1

Client Sample ID: RAS-1(0-0.5)-032916

Lab Sample ID: 500-109414-8

Date Collected: 03/29/16 14:35

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 82.1

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|-----------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Indeno[1,2,3-cd]pyrene | <39 | | 39 | 10 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:27 | 1 |
| Isophorone | <200 | | 200 | 45 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:27 | 1 |
| Naphthalene | <39 | | 39 | 6.1 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:27 | 1 |
| Nitrobenzene | <39 | | 39 | 9.9 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:27 | 1 |
| N-Nitrosodi-n-propylamine | <80 | | 80 | 49 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:27 | 1 |
| N-Nitrosodiphenylamine | <200 | | 200 | 47 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:27 | 1 |
| Pentachlorophenol | <800 | | 800 | 640 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:27 | 1 |
| Phenanthrene | 20 | J | 39 | 5.5 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:27 | 1 |
| Phenol | <200 | | 200 | 88 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:27 | 1 |
| Pyrene | 58 | | 39 | 7.9 | ug/Kg | ☼ | 03/30/16 07:12 | 04/05/16 07:27 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2,4,6-Tribromophenol | 97 | | 25 - 130 | 03/30/16 07:12 | 04/05/16 07:27 | 1 |
| 2-Fluorobiphenyl | 77 | | 42 - 115 | 03/30/16 07:12 | 04/05/16 07:27 | 1 |
| 2-Fluorophenol | 59 | | 40 - 130 | 03/30/16 07:12 | 04/05/16 07:27 | 1 |
| Nitrobenzene-d5 | 70 | | 33 - 124 | 03/30/16 07:12 | 04/05/16 07:27 | 1 |
| Phenol-d5 | 66 | | 36 - 123 | 03/30/16 07:12 | 04/05/16 07:27 | 1 |
| Terphenyl-d14 | 143 | | 25 - 150 | 03/30/16 07:12 | 04/05/16 07:27 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.050 | | 0.050 | 0.010 | mg/L | | 04/01/16 14:15 | 04/02/16 20:16 | 1 |
| Barium | 0.18 | J | 0.50 | 0.050 | mg/L | | 04/01/16 14:15 | 04/02/16 20:16 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 04/01/16 14:15 | 04/02/16 20:16 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/01/16 14:15 | 04/02/16 20:16 | 1 |
| Chromium | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:15 | 04/02/16 20:16 | 1 |
| Cobalt | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:15 | 04/02/16 20:16 | 1 |
| Copper | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:15 | 04/02/16 20:16 | 1 |
| Iron | 0.32 | J | 0.40 | 0.20 | mg/L | | 04/01/16 14:15 | 04/02/16 20:16 | 1 |
| Lead | <0.0075 | | 0.0075 | 0.0075 | mg/L | | 04/01/16 14:15 | 04/02/16 20:16 | 1 |
| Manganese | 0.057 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:15 | 04/02/16 20:16 | 1 |
| Nickel | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:15 | 04/02/16 20:16 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/01/16 14:15 | 04/02/16 20:16 | 1 |
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 14:15 | 04/02/16 20:16 | 1 |
| Zinc | 0.036 | J | 0.50 | 0.020 | mg/L | | 04/01/16 14:15 | 04/02/16 20:16 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|---------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.034 | J | 0.050 | 0.010 | mg/L | | 04/01/16 09:30 | 04/02/16 00:39 | 1 |
| Barium | 0.68 | | 0.50 | 0.050 | mg/L | | 04/01/16 09:30 | 04/02/16 00:39 | 1 |
| Beryllium | 0.0085 | | 0.0040 | 0.0040 | mg/L | | 04/01/16 09:30 | 04/02/16 00:39 | 1 |
| Cadmium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 04/01/16 09:30 | 04/02/16 00:39 | 1 |
| Chromium | 0.22 | | 0.025 | 0.010 | mg/L | | 04/01/16 09:30 | 04/02/16 00:39 | 1 |
| Cobalt | 0.077 | | 0.025 | 0.010 | mg/L | | 04/01/16 09:30 | 04/02/16 00:39 | 1 |
| Copper | 0.16 | | 0.025 | 0.010 | mg/L | | 04/01/16 09:30 | 04/02/16 00:39 | 1 |
| Iron | 150 | | 0.40 | 0.20 | mg/L | | 04/01/16 09:30 | 04/02/16 00:39 | 1 |
| Lead | 0.19 | | 0.038 | 0.038 | mg/L | | 04/01/16 09:30 | 04/02/16 17:55 | 5 |
| Manganese | 0.43 | | 0.025 | 0.010 | mg/L | | 04/01/16 09:30 | 04/02/16 00:39 | 1 |
| Nickel | 0.24 | | 0.025 | 0.010 | mg/L | | 04/01/16 09:30 | 04/02/16 00:39 | 1 |
| Selenium | <0.050 | | 0.050 | 0.020 | mg/L | | 04/01/16 09:30 | 04/02/16 00:39 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Environmental Design International, Inc.
 Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109414-1

Client Sample ID: RAS-1(0-0.5)-032916

Lab Sample ID: 500-109414-8

Date Collected: 03/29/16 14:35

Matrix: Solid

Date Received: 03/29/16 16:03

Percent Solids: 82.1

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|-------------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Silver | <0.025 | | 0.025 | 0.010 | mg/L | | 04/01/16 09:30 | 04/02/16 00:39 | 1 |
| Zinc | 0.43 | J | 0.50 | 0.020 | mg/L | | 04/01/16 09:30 | 04/02/16 00:39 | 1 |

Method: 6010B - Total Metals

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | <1.1 | | 1.1 | 0.23 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:27 | 1 |
| Arsenic | 3.2 | | 0.54 | 0.25 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:27 | 1 |
| Barium | 45 | B | 0.54 | 0.099 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:27 | 1 |
| Beryllium | 0.67 | | 0.22 | 0.047 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:27 | 1 |
| Cadmium | 0.068 | J | 0.11 | 0.031 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:27 | 1 |
| Calcium | 74000 | B | 110 | 35 | mg/Kg | ☼ | 03/31/16 08:27 | 04/01/16 21:43 | 10 |
| Chromium | 16 | | 0.54 | 0.093 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:27 | 1 |
| Cobalt | 9.3 | | 0.27 | 0.061 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:27 | 1 |
| Copper | 18 | | 0.54 | 0.12 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:27 | 1 |
| Iron | 12000 | B | 11 | 4.2 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:27 | 1 |
| Lead | 13 | | 0.27 | 0.14 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:27 | 1 |
| Magnesium | 35000 | | 5.4 | 2.2 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:27 | 1 |
| Manganese | 90 | | 0.54 | 0.11 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:27 | 1 |
| Nickel | 27 | | 0.54 | 0.15 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:27 | 1 |
| Potassium | 2100 | | 27 | 4.4 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:27 | 1 |
| Selenium | 0.55 | | 0.54 | 0.27 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:27 | 1 |
| Silver | <0.27 | | 0.27 | 0.063 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:27 | 1 |
| Sodium | 860 | B | 54 | 7.2 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:27 | 1 |
| Thallium | <0.54 | | 0.54 | 0.27 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:27 | 1 |
| Vanadium | 18 | | 0.27 | 0.079 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:27 | 1 |
| Zinc | 49 | | 1.1 | 0.34 | mg/Kg | ☼ | 03/31/16 08:27 | 03/31/16 18:27 | 1 |

Method: 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/01/16 15:45 | 04/04/16 11:59 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.20 | | 0.20 | 0.20 | ug/L | | 04/01/16 15:45 | 04/04/16 11:30 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Mercury | 28 | | 18 | 9.3 | ug/Kg | ☼ | 03/31/16 15:20 | 04/01/16 12:22 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-------------|-----------|-------|-------|------|---|----------|----------------|---------|
| pH | 8.35 | | 0.200 | 0.200 | SU | | | 03/31/16 12:42 | 1 |

Definitions/Glossary

Client: Environmental Design International, Inc.
Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109414-1

Qualifiers

GC/MS VOA

| Qualifier | Qualifier Description |
|-----------|--|
| F1 | MS and/or MSD Recovery is outside acceptance limits. |

GC/MS Semi VOA

| Qualifier | Qualifier Description |
|-----------|--|
| X | Surrogate is outside control limits |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

Metals

| Qualifier | Qualifier Description |
|-----------|--|
| B | Compound was found in the blank and sample. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| F5 | Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL. |
| F1 | MS and/or MSD Recovery is outside acceptance limits. |
| 4 | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |

Glossary

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

Certification Summary

Client: Environmental Design International, Inc.
Project/Site: IDOT - Harvey IL Route 113 - WO 041

TestAmerica Job ID: 500-109414-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|-----------|---------|------------|------------------|-----------------|
| Illinois | NELAP | 5 | 100201 | 04-30-17 |


The following analytes are included in this report, but certification is not offered by the governing authority:

| Analysis Method | Prep Method | Matrix | Analyte |
|-----------------|-------------|--------|----------------------------|
| 8260B | | Solid | 1,3-Dichloropropene, Total |
| Moisture | | Solid | Percent Moisture |
| Moisture | | Solid | Percent Solids |

| | |
|----------------------------|--------------------------|
| Report To _____ (optional) | Bill To _____ (optional) |
| Contact: _____ | Contact: _____ |
| Company: _____ | Company: _____ |
| Address: _____ | Address: _____ |
| Address: _____ | Address: _____ |
| Phone: _____ | Phone: _____ |
| Fax: _____ | Fax: _____ |
| E-Mail: _____ | PO#/Reference# _____ |

Chain of Custody Record

Lab Job #: 500-109414
 Chain of Custody Number: _____
 Page 3 of 3
 Temperature °C of Cooler: 4.7, 5.4

| Client | | Client Project # | | Preservative | | Parameter | | Matrix | |  Preservative Key to 4° ol to 4° l to 4° Cool to 4° | | |
|-----------------------------------|--------|---------------------|---------|--------------|-----------------|-----------|------|--------|--------------|---|----|----------|
| EDZ | | 0213.022 | | | | | | | | | | |
| Project Name: IDOT - Hervey | | Lab Project # | | | | | | | | | | |
| Project Location/State: Hervey IL | | Lab PM | | | | | | | | | | |
| Sampler: Clinp. | | | | | | | | | | 500-109414 COC | | |
| Lab ID | MS/MSD | Sample ID | Date | Time | # of Containers | Matrix | VOCs | SUOCs | Total Metals | SPLD/TECHNICS | PH | Comments |
| 1 | | PM-3(4-7.7)-032916 | 3/24/16 | 1255 | 2 | S | X | X | X | X | X | |
| 2 | | PM-4(0-4)-032916 | | 1315 | | | | | | | | |
| 3 | | PM-4(4-7.7)-032916 | | 1320 | | | | | | | | |
| 4 | | PM-5(0-4)-032916 | | 1340 | | | | | | | | |
| 5 | | PM-6(0-4)-032916 | | 1405 | | | | | | | | |
| 6 | | PM-6(4-7.7)-032916 | | 1410 | | | | | | | | |
| 7 | | PM-7(0-4)-032916 | | 1420 | | | | | | | | |
| 8 | | R48-1(0-0.5)-032916 | | 1435 | | | | | | | | |
| 9 | | R48-1(0-2)-032916 | | 1450 | | | | | | | | |
| 10 | | R48-1(0-2)-032916D | | 1455 | | | | | | | | |


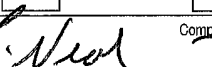

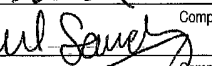
Turnaround Time Required (Business Days)

1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other

Requested Due Date _____

Sample Disposal

Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

| | | | | | | | | |
|--|----------------|---------------|-------------|---|-----------------|---------------|-------------|-----------------------|
| Relinquished By:  | Company: EDZ | Date: 3/24/16 | Time: 1530 | Received By:  | Company: TA | Date: 3/29/16 | Time: 1530 | Lab Courier: TA |
| Relinquished By:  | Company: TA | Date: 3/29/16 | Time: 1623 | Received By:  | Company: TA-CTP | Date: 3/29/16 | Time: 16:03 | Shipped: _____ |
| Relinquished By: _____ | Company: _____ | Date: _____ | Time: _____ | Received By: _____ | Company: _____ | Date: _____ | Time: _____ | Hand Delivered: _____ |

Matrix Key

- WW - Wastewater
- W - Water
- S - Soil
- SL - Sludge
- MS - Miscellaneous
- OL - Oil
- A - Air
- SE - Sediment
- SO - Soil
- L - Leachate
- WI - Wipe
- DW - Drinking Water
- O - Other

Client Comments

Lab Comments: