Illinois Environmental Protection Agency

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: FAI 55 (I-55) Office Phone Number, if available: _____

Physical Site Location (address, incldluding number and street):
26000 - 27000 blocks of S. Frontage Road (ISGS #3516-1)

City: Channahon State: IL Zip Code: _____

County: Will Township: Channahon and Wilmington

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

Latitude: 41.374398° (Decimal Degrees) Longitude: -88.192507° (-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: 847-705-4122	Zip Code:	60196-1096 Phone: 847-705-4122
Contact:	Kristine Kutscher	Contact:	Kristine Kutscher
Email, if available:	Kristine.Kutscher@illinois.gov	Email, if available:	Kristine.Kutscher@illinois.gov

Project Name: FAI 55 (I-55)

Latitude: 41.374398° Longitude: -88.192507°

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 3516-01-B01 through 3516-01-B27 were sampled within the construction zone at ISGS #3516-1 (ROW). Refer to PSI Report for ISGS #3516-1 (ROW) including Table 4-3, and Figures 4-1 through 4-4.

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]:

See attached data summary table and associated laboratory data packages J147163-1 and J147321-1.

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

I, Neil J. Brown (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: Ecology and Environment, Inc.

Street Address: 33 West Monroe Street

City: Chicago State: IL Zip Code: 60603

Phone: 312-578-9243

Neil J. Brown
Printed Name:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

7/17/18
Date:

NEIL J. BROWN
062-055898
LICENSED
PROFESSIONAL
ENGINEER
OF
ILLINOIS

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

Analytical Data Summary
PTB #176-001; IDOT Job #D-91-339-15; Project #P-91-217-17; WorkOrder #45A

Key to Data Tables

MAC = Maximum Allowable Concentration of Chemical Constituent in Uncontaminated Soil Used as Fill Material At Regulated Fill Operations
mg/kg = Milligrams per kilogram.
mg/L = Milligrams per liter.
MSA = Metropolitan Statistical Area
TACO = Tiered Approach to Corrective Action Objectives
TCLP = Toxicity Characteristic Leaching Procedure.
SCGIER = Soil Component of the Groundwater Ingestion Exposure Route
SPLP = Synthetic Precipitation Leaching Procedure.
ND = Not detected.
NA = Not analyzed or not applicable.
J = Estimated value.
U = Analyte was analyzed for but not detected.
PID = Photoionization detector.
-- = No PID readings detected above background (within instrument margin of error).

Criteria Qualifiers and Shading

= pH is less than 6.25 or greater than 9.0 standard units.
** = Headspace reading above background (outside of instrument margin of error).
† = Concentration exceeds the most stringent MAC.
m = Concentration exceeds the MAC for an MSA.
* = Concentration exceeds the MAC for Chicago corporate limits.
c = Concentration exceeds a TACO Tier 1 RO for the Construction Worker Exposure Route.
r = Concentration exceeds a TACO Tier 1 soil RO for residential properties.
L = The detected TCLP/SPLP concentration exceeds the TACO Tier 1 RO for the SCGIER.
= Headspace reading exceeds background levels
= Concentration exceeds the most stringent MAC, but is below the MAC for an MSA.
= Concentration exceeds the most stringent MAC and the MAC for Chicago corporate limits.
= Concentration exceeds applicable comparison criteria.

PTB #176-001; IDOT Job #D-91-339-15; Project #P-91-217-17; WorkOrder #45A

CONTAMINANTS OF CONCERN

SITE	ISGS #3516-1 (ROW)				Comparison Criteria					
BORING	3516-01-B01	3516-01-B02	3516-01-B03	3516-01-B04	MACs			TACO		
SAMPLE	3516-01-B01 (0-2)	3516-01-B02 (0-2)	3516-01-B03 (0-2)	3516-01-B04 (0-2)						
MATRIX	Soil	Soil	Soil	Soil						
DEPTH (feet)	0-2	0-2	0-2	0-2						
pH	8.4	7.8	7.8	7.1						
PID > Bkgd.	--	--	--	--	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
VOCs (mg/kg)										
Acetone	**0.015 J**	ND U	ND U	ND U	25	--	--	70,000	100,000	--
Methylene Chloride	**0.0033 J**	**0.0062**	**0.0045**	**0.0035 J**	0.02	--	--	13	34	--
Toluene	ND U	ND U	ND U	ND U	12	--	--	650	42	--
SVOCs (mg/kg)										
2-Methylnaphthalene	**0.025 J**	ND U	ND U	ND U	--	--	--	--	--	--
Acenaphthene	ND U	ND U	ND U	ND U	570	--	--	4,700	120,000	--
Acenaphthylene	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Anthracene	ND U	ND U	ND U	ND U	12,000	--	--	23,000	610,000	--
Benzo(a)anthracene	**0.0068 J**	**0.030 J**	**0.0061 J**	**0.0059 J**	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	**0.015 J**	**0.040**	**0.015 J**	**0.014 J**	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	**0.017 J**	**0.059**	**0.016 J**	**0.017 J**	0.9	2.1	1.5	2.1	170	--
Benzo(g,h,i)perylene	ND U	**0.015 J**	ND U	ND U	--	--	--	--	--	--
Benzo(k)fluoranthene	ND U	**0.024 J**	ND U	ND U	9	--	--	9	1,700	--
Bis(2-ethylhexyl) phthalate	ND U	ND U	ND U	ND U	46	--	--	46	4,100	--
Butyl benzyl phthalate	ND U	ND U	ND U	ND U	930	--	--	930	930	--
Carbazole	ND U	ND U	ND U	ND U	0.6	--	--	32	6,200	--
Chrysene	ND U	**0.046**	ND U	ND U	88	--	--	88	17,000	--
Dibenz(a,h)anthracene	ND U	**0.011 J**	ND U	ND U	0.09	0.42	0.2	0.42	17	--
Dibenzofuran	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Fluoranthene	**0.0091 J**	**0.056**	ND U	**0.0077 J**	3,100	--	--	3,100	82,000	--
Fluorene	ND U	ND U	ND U	ND U	560	--	--	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	**0.012 J**	**0.026 J**	**0.011 J**	**0.011 J**	0.9	1.6	0.9	1.6	170	--
Naphthalene	ND U	ND U	ND U	ND U	1.8	--	--	170	1.8	--
Phenanthrene	**0.023 J**	**0.061**	ND U	**0.0059 J**	--	--	--	--	--	--
Pyrene	**0.0099 J**	**0.062**	ND U	ND U	2,300	--	--	2,300	61,000	--
Inorganics (mg/kg)										
Arsenic	**4.9**	**5.2**	**3.6**	**5.9**	11.3	13	--	13	61	--
Barium	**65**	**52**	**30**	**48**	1,500	--	--	5,500	14,000	--
Beryllium	**0.43**	**0.46**	**0.26**	**0.34**	22	--	--	160	410	--
Boron	ND U	**5.9**	ND U	ND U	40	--	--	16,000	41,000	--
Cadmium	ND U	ND U	ND U	ND U	5.2	--	--	78	200	--
Calcium	**3,700**	**7,900**	**4,800**	**4,700**	--	--	--	--	--	--
Chromium	**11**	**12**	**7.8**	**9.0**	21	--	--	230	690	--
Cobalt	**6.1**	**5.3**	**3.0**	**3.6**	20	--	--	4,700	12,000	--
Copper	**9.3**	**12**	**4.1**	**8.5**	2,900	--	--	2,900	8,200	--
Iron	**11,000**	**13,000**	**8,300**	**11,000**	15,000	15,900	--	--	--	--
Lead	**13**	**37**	**6.8**	**12**	107	--	--	400	700	--
Magnesium	**2,100**	**4,300**	**2,800**	**2,200**	325,000	--	--	--	730,000	--
Manganese	**360**	**230**	**110**	**170**	630	636	--	1,600	4,100	--
Mercury	**0.028**	**0.031**	**0.018 J**	**0.026**	0.89	--	--	10	0.1	--
Nickel	**12**	**13**	**7.0**	**7.8**	100	--	--	1,600	4,100	--
Potassium	**790**	**940**	**410**	**520**	--	--	--	--	--	--
Selenium	ND U	**0.38 J**	ND U	**0.71**	1.3	--	--	390	1,000	--
Silver	**0.19 J**	**0.17 J**	**0.15 J**	**0.11 J**	4.4	--	--	390	1,000	--
Sodium	**550**	**690**	**250**	**270**	--	--	--	--	--	--
Thallium	ND U	ND U	ND U	ND U	2.6	--	--	6.3	160	--
Vanadium	**21**	**22**	**14**	**17**	550	--	--	550	1,400	--
Zinc	**38**	**58**	**19**	**33**	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)										
Barium	**0.18 J**	**0.22 J**	**0.24 J**	**0.18 J**	--	--	--	--	--	2
Boron	ND U	**0.099 J**	**0.080 J**	**0.073 J**	--	--	--	--	--	2
Cadmium	ND U	ND U	ND U	ND U	--	--	--	--	--	0.005
Chromium	ND U	ND U	ND U	ND U	--	--	--	--	--	0.1
Cobalt	ND U	ND U	ND U	ND U	--	--	--	--	--	1
Iron	ND U	ND U	ND U	ND U	--	--	--	--	--	5
Lead	ND U	ND U	ND U	ND U	--	--	--	--	--	0.0075
Manganese	**0.23 L**	**0.24 L**	**0.49 L**	**0.10**	--	--	--	--	--	0.15
Nickel	ND U	ND U	ND U	ND U	--	--	--	--	--	0.1
Zinc	**0.088 J**	**0.063 J**	**0.051 J**	**0.031 J**	--	--	--	--	--	5
SPLP Metals (mg/L)										
Cadmium	NA	NA	NA	NA	--	--	--	--	--	0.005
Lead	NA	NA	NA	NA	--	--	--	--	--	0.0075
Manganese	**0.41 L**	**0.36 L**	**0.26 L**	NA	--	--	--	--	--	0.15

PTB #176-001; IDOT Job #D-91-339-15; Project #P-91-217-17; WorkOrder #45A

CONTAMINANTS OF CONCERN

SITE	ISGS #3516-1 (ROW)				Comparison Criteria					
BORING	3516-01-B05	3516-01-B06	3516-01-B07	3516-01-B08	MACs			TACO		
SAMPLE	3516-01-B05 (0-2)	3516-01-B06 (0-2)	3516-01-B07 (0-2)	3516-01-B08 (0-1.4)						
MATRIX	Soil	Soil	Soil	Soil						
DEPTH (feet)	0-2	0-2	0-2	0-1.4						
pH	7.7	7.6	8.5	8.2						
PID > Bkgd.	--	--	--	--	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
VOCs (mg/kg)										
Acetone	ND U	ND U	ND U	ND U	25	--	--	70,000	100,000	--
Methylene Chloride	**0.0030 J**	**0.0035 J**	ND U	**0.0046 J**	0.02	--	--	13	34	--
Toluene	ND U	ND U	ND U	ND U	12	--	--	650	42	--
SVOCs (mg/kg)										
2-Methylnaphthalene	ND U	ND U	ND U	**0.016 J**	--	--	--	--	--	--
Acenaphthene	ND U	ND U	ND U	**0.0095 J**	570	--	--	4,700	120,000	--
Acenaphthylene	ND U	ND U	ND U	**0.0061 J**	--	--	--	--	--	--
Anthracene	ND U	ND U	ND U	**0.012 J**	12,000	--	--	23,000	610,000	--
Benzo(a)anthracene	**0.012 J**	ND U	**0.047**	**0.069**	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	**0.024 J**	ND U	**0.092** †	**0.11** †	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	**0.027 J**	**0.012 J**	**0.12**	**0.14**	0.9	2.1	1.5	2.1	170	--
Benzo(g,h,i)perylene	ND U	ND U	**0.044**	**0.058**	--	--	--	--	--	--
Benzo(k)fluoranthene	ND U	ND U	**0.053**	**0.046**	9	--	--	9	1,700	--
Bis(2-ethylhexyl) phthalate	ND U	ND U	ND U	ND U	46	--	--	46	4,100	--
Butyl benzyl phthalate	ND U	ND U	ND U	ND U	930	--	--	930	930	--
Carbazole	ND U	ND U	ND U	ND U	0.6	--	--	32	6,200	--
Chrysene	**0.014 J**	ND U	**0.056**	**0.093**	88	--	--	88	17,000	--
Dibenz(a,h)anthracene	ND U	**0.0076 J**	**0.018 J**	**0.016 J**	0.09	0.42	0.2	0.42	17	--
Dibenzofuran	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Fluoranthene	**0.017 J**	ND U	**0.048**	**0.10**	3,100	--	--	3,100	82,000	--
Fluorene	ND U	ND U	ND U	ND U	560	--	--	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	**0.016 J**	ND U	**0.049**	**0.045**	0.9	1.6	0.9	1.6	170	--
Naphthalene	ND U	ND U	ND U	**0.0059 J**	1.8	--	--	170	1.8	--
Phenanthrene	**0.012 J**	ND U	**0.028 J**	**0.073**	--	--	--	--	--	--
Pyrene	**0.017 J**	ND U	**0.060**	**0.11**	2,300	--	--	2,300	61,000	--
Inorganics (mg/kg)										
Arsenic	**4.9**	**3.8**	**4.5**	**5.3**	11.3	13	--	13	61	--
Barium	**52**	**47**	**120**	**51**	1,500	--	--	5,500	14,000	--
Beryllium	**0.43**	**0.35**	**0.40**	**0.48**	22	--	--	160	410	--
Boron	**5.7**	ND U	**6.4**	**5.7**	40	--	--	16,000	41,000	--
Cadmium	ND U	ND U	ND U	ND U	5.2	--	--	78	200	--
Calcium	**12,000**	**3,900**	**5,500**	**25,000**	--	--	--	--	--	--
Chromium	**11**	**10**	**26** †	**11**	21	--	--	230	690	--
Cobalt	**6.5**	**3.7**	**5.1**	**6.5**	20	--	--	4,700	12,000	--
Copper	**11**	**6.7**	**12**	**14**	2,900	--	--	2,900	8,200	--
Iron	**11,000**	**10,000**	**12,000**	**14,000**	15,000	15,900	--	--	--	--
Lead	**22**	**8.0**	**27**	**51**	107	--	--	400	700	--
Magnesium	**7,100**	**2,100**	**2,700**	**12,000**	325,000	--	--	--	730,000	--
Manganese	**290**	**130**	**260**	**290**	630	636	--	1,600	4,100	--
Mercury	**0.029**	**0.021**	**0.024**	**0.030**	0.89	--	--	10	0.1	--
Nickel	**12**	**9.0**	**12**	**15**	100	--	--	1,600	4,100	--
Potassium	**870**	**560**	**820**	**930**	--	--	--	--	--	--
Selenium	**0.53 J**	**0.51 J**	**0.38 J**	**0.41 J**	1.3	--	--	390	1,000	--
Silver	**0.16 J**	**0.13 J**	**0.17 J**	**0.15 J**	4.4	--	--	390	1,000	--
Sodium	**370**	**440**	**960**	**880**	--	--	--	--	--	--
Thallium	ND U	ND U	ND U	ND U	2.6	--	--	6.3	160	--
Vanadium	**20**	**17**	**21**	**23**	550	--	--	550	1,400	--
Zinc	**48**	**29**	**48**	**61**	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)										
Barium	**0.27 J**	**0.15 J**	**0.19 J**	**0.32 J**	--	--	--	--	--	2
Boron	**0.057 J**	**0.091 J**	**0.11 J**	**0.067 J**	--	--	--	--	--	2
Cadmium	ND U	ND U	ND U	**0.0020 J**	--	--	--	--	--	0.005
Chromium	ND U	ND U	ND U	ND U	--	--	--	--	--	0.1
Cobalt	ND U	ND U	ND U	ND U	--	--	--	--	--	1
Iron	ND U	ND U	ND U	ND U	--	--	--	--	--	5
Lead	ND U	ND U	ND U	ND U	--	--	--	--	--	0.0075
Manganese	**0.17 L**	**0.11**	**0.79 L**	**0.38 L**	--	--	--	--	--	0.15
Nickel	ND U	ND U	ND U	ND U	--	--	--	--	--	0.1
Zinc	**0.021 J**	ND U	ND U	ND U	--	--	--	--	--	5
SPLP Metals (mg/L)										
Cadmium	NA	NA	NA	NA	--	--	--	--	--	0.005
Lead	NA	NA	NA	NA	--	--	--	--	--	0.0075
Manganese	**0.30 L**	NA	**0.50 L**	**0.50 L**	--	--	--	--	--	0.15

PTB #176-001; IDOT Job #D-91-339-15; Project #P-91-217-17; WorkOrder #45A

CONTAMINANTS OF CONCERN

SITE	ISGS #3516-1 (ROW)			Comparison Criteria					
BORING	3516-01-B09	3516-01-B10	3516-01-B11	MACs			TACO		
SAMPLE	3516-01-B09 (0-2)	3516-01-B10 (0-2)	3516-01-B11 (0-2)						
MATRIX	Soil	Soil	Soil						
DEPTH (feet)	0-2	0-2	0-2						
pH	8.5	7.7	7.3						
PID > Bkgd.	--	--	--	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
VOCs (mg/kg)									
Acetone	ND U	ND U	ND U	25	--	--	70,000	100,000	--
Methylene Chloride	**0.0023 J**	ND U	**0.0031 J**	0.02	--	--	13	34	--
Toluene	ND U	ND U	ND U	12	--	--	650	42	--
SVOCs (mg/kg)									
2-Methylnaphthalene	ND U	ND U	ND U	--	--	--	--	--	--
Acenaphthene	ND U	ND U	ND U	570	--	--	4,700	120,000	--
Acenaphthylene	ND U	ND U	ND U	--	--	--	--	--	--
Anthracene	ND U	ND U	ND U	12,000	--	--	23,000	610,000	--
Benzo(a)anthracene	ND U	**0.012 J**	**0.015 J**	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	**0.012 J**	**0.021 J**	**0.026 J**	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	**0.011 J**	**0.028 J**	**0.033 J**	0.9	2.1	1.5	2.1	170	--
Benzo(g,h,i)perylene	ND U	ND U	ND U	--	--	--	--	--	--
Benzo(k)fluoranthene	ND U	ND U	ND U	9	--	--	9	1,700	--
Bis(2-ethylhexyl) phthalate	ND U	ND U	ND U	46	--	--	46	4,100	--
Butyl benzyl phthalate	ND U	ND U	ND U	930	--	--	930	930	--
Carbazole	ND U	ND U	ND U	0.6	--	--	32	6,200	--
Chrysene	ND U	**0.015 J**	**0.019 J**	88	--	--	88	17,000	--
Dibenz(a,h)anthracene	ND U	ND U	ND U	0.09	0.42	0.2	0.42	17	--
Dibenzofuran	ND U	ND U	ND U	--	--	--	--	--	--
Fluoranthene	ND U	**0.019 J**	**0.027 J**	3,100	--	--	3,100	82,000	--
Fluorene	ND U	ND U	ND U	560	--	--	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	ND U	**0.014 J**	**0.018 J**	0.9	1.6	0.9	1.6	170	--
Naphthalene	ND U	ND U	ND U	1.8	--	--	170	1.8	--
Phenanthrene	ND U	**0.0097 J**	**0.018 J**	--	--	--	--	--	--
Pyrene	ND U	**0.019 J**	**0.029 J**	2,300	--	--	2,300	61,000	--
Inorganics (mg/kg)									
Arsenic	**7.7**	**7.3**	**7.4**	11.3	13	--	13	61	--
Barium	**63**	**120**	**110**	1,500	--	--	5,500	14,000	--
Beryllium	**0.54**	**0.61**	**0.66**	22	--	--	160	410	--
Boron	**6.1**	**5.0**	ND U	40	--	--	16,000	41,000	--
Cadmium	**0.47**	ND U	ND U	5.2	--	--	78	200	--
Calcium	**63,000**	**4,500**	**5,600**	--	--	--	--	--	--
Chromium	**13**	**17**	**17**	21	--	--	230	690	--
Cobalt	**9.8**	**15**	**14**	20	--	--	4,700	12,000	--
Copper	**15**	**15**	**16**	2,900	--	--	2,900	8,200	--
Iron	**18,000 †m**	**18,000 †m**	**18,000 †m**	15,000	15,900	--	--	--	--
Lead	**16**	**24**	**26**	107	--	--	400	700	--
Magnesium	**21,000**	**3,700**	**4,000**	325,000	--	--	--	730,000	--
Manganese	**490**	**710 †m**	**720 †m**	630	636	--	1,600	4,100	--
Mercury	**0.027**	**0.039**	**0.040**	0.89	--	--	10	0.1	--
Nickel	**19**	**18**	**19**	100	--	--	1,600	4,100	--
Potassium	**1,400**	**1,400**	**1,400**	--	--	--	--	--	--
Selenium	ND U	**0.88**	**0.97**	1.3	--	--	390	1,000	--
Silver	**0.23 J**	**0.29**	**0.32**	4.4	--	--	390	1,000	--
Sodium	**1,000**	**690**	**410**	--	--	--	--	--	--
Thallium	ND U	ND U	ND U	2.6	--	--	6.3	160	--
Vanadium	**21**	**30**	**29**	550	--	--	550	1,400	--
Zinc	**55**	**63**	**66**	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)									
Barium	**0.32 J**	**0.36 J**	**0.48 J**	--	--	--	--	--	2
Boron	ND U	**0.061 J**	**0.053 J**	--	--	--	--	--	2
Cadmium	ND U	ND U	ND U	--	--	--	--	--	0.005
Chromium	ND U	ND U	ND U	--	--	--	--	--	0.1
Cobalt	ND U	ND U	ND U	--	--	--	--	--	1
Iron	ND U	ND U	ND U	--	--	--	--	--	5
Lead	ND U	ND U	ND U	--	--	--	--	--	0.0075
Manganese	**0.031**	**0.13**	**0.11**	--	--	--	--	--	0.15
Nickel	ND U	ND U	ND U	--	--	--	--	--	0.1
Zinc	ND U	ND U	ND U	--	--	--	--	--	5
SPLP Metals (mg/L)									
Cadmium	NA	NA	NA	--	--	--	--	--	0.005
Lead	NA	NA	NA	--	--	--	--	--	0.0075
Manganese	NA	NA	NA	--	--	--	--	--	0.15

PTB #176-001; IDOT Job #D-91-339-15; Project #P-91-217-17; WorkOrder #45A

CONTAMINANTS OF CONCERN

SITE	ISGS #3516-1 (ROW)				Comparison Criteria					
BORING	3516-01-B12		3516-01-B13	3516-01-B14	MACs			TACO		
SAMPLE	3516-01-B12 (0-2)	3516-01-B12 (0-2)D	3516-01-B13 (0-2)	3516-01-B14 (0-2)						
MATRIX	Soil	Soil	Soil	Soil						
DEPTH (feet)	0-2	0-2	0-2	0-2						
pH	7.5	7.8	8.0	8.1						
PID > Bkgd.	--		--	--	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
VOCs (mg/kg)										
Acetone	ND U	ND U	ND U	**0.022 J**	25	--	--	70,000	100,000	--
Methylene Chloride	**0.0025 J**	ND U	**0.0033 J**	**0.0062**	0.02	--	--	13	34	--
Toluene	ND U	ND U	ND U	ND U	12	--	--	650	42	--
SVOCs (mg/kg)										
2-Methylnaphthalene	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Acenaphthene	ND U	ND U	ND U	ND U	570	--	--	4,700	120,000	--
Acenaphthylene	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Anthracene	ND U	ND U	ND U	ND U	12,000	--	--	23,000	610,000	--
Benzo(a)anthracene	**0.016 J**	**0.018 J**	**0.013 J**	**0.044**	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	**0.033 J**	**0.036 J**	**0.024 J**	**0.080**	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	**0.040**	**0.042**	**0.027 J**	**0.10**	0.9	2.1	1.5	2.1	170	--
Benzo(g,h,i)perylene	**0.016 J**	**0.018 J**	ND U	**0.037 J**	--	--	--	--	--	--
Benzo(k)fluoranthene	**0.012 J**	**0.017 J**	ND U	**0.044**	9	--	--	9	1,700	--
Bis(2-ethylhexyl) phthalate	ND U	ND U	ND U	ND U	46	--	--	46	4,100	--
Butyl benzyl phthalate	ND U	ND U	ND U	ND U	930	--	--	930	930	--
Carbazole	ND U	ND U	ND U	ND U	0.6	--	--	32	6,200	--
Chrysene	**0.018 J**	**0.022 J**	**0.013 J**	**0.050**	88	--	--	88	17,000	--
Dibenz(a,h)anthracene	**0.0096 J**	ND U	ND U	**0.0076 J**	0.09	0.42	0.2	0.42	17	--
Dibenzofuran	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Fluoranthene	**0.019 J**	**0.021 J**	**0.016 J**	**0.050**	3,100	--	--	3,100	82,000	--
Fluorene	ND U	ND U	ND U	ND U	560	--	--	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	**0.021 J**	**0.023 J**	**0.018 J**	**0.043**	0.9	1.6	0.9	1.6	170	--
Naphthalene	ND U	ND U	ND U	ND U	1.8	--	--	170	1.8	--
Phenanthrene	**0.011 J**	**0.011 J**	**0.0075 J**	**0.028 J**	--	--	--	--	--	--
Pyrene	**0.023 J**	**0.024 J**	**0.018 J**	**0.059**	2,300	--	--	2,300	61,000	--
Inorganics (mg/kg)										
Arsenic	**8.9**	**6.9**	**6.7**	**11**	11.3	13	--	13	61	--
Barium	**84**	**74**	**69**	**55**	1,500	--	--	5,500	14,000	--
Beryllium	**0.53**	**0.59**	**0.49**	**0.64**	22	--	--	160	410	--
Boron	**5.4**	**5.0**	**5.5**	**5.5**	40	--	--	16,000	41,000	--
Cadmium	ND U	**0.64**	**3.8**	ND U	5.2	--	--	78	200	--
Calcium	**17,000**	**14,000**	**77,000**	**5,600**	--	--	--	--	--	--
Chromium	**13**	**17**	**11**	**15**	21	--	--	230	690	--
Cobalt	**10**	**8.6**	**11**	**11**	20	--	--	4,700	12,000	--
Copper	**15**	**16**	**12**	**16**	2,900	--	--	2,900	8,200	--
Iron	**17,000 †m**	**17,000 †m**	**15,000**	**19,000 †m**	15,000	15,900	--	--	--	--
Lead	**41**	**41**	**23**	**59**	107	--	--	400	700	--
Magnesium	**11,000**	**8,900**	**19,000**	**4,200**	325,000	--	--	--	730,000	--
Manganese	**500**	**400**	**520**	**240**	630	636	--	1,600	4,100	--
Mercury	**0.026**	**0.025**	**0.045**	**0.032**	0.89	--	--	10	0.1	--
Nickel	**19**	**17**	**21**	**20**	100	--	--	1,600	4,100	--
Potassium	**1,200**	**1,200**	**1,100**	**1,200**	--	--	--	--	--	--
Selenium	**0.52 J**	**0.66**	ND U	**0.54 J**	1.3	--	--	390	1,000	--
Silver	**0.22 J**	**0.23 J**	**0.21 J**	**0.25 J**	4.4	--	--	390	1,000	--
Sodium	**300**	**350**	**500**	**710**	--	--	--	--	--	--
Thallium	**0.28 J**	ND U	ND U	ND U	2.6	--	--	6.3	160	--
Vanadium	**25**	**26**	**18**	**30**	550	--	--	550	1,400	--
Zinc	**57**	**89**	**210**	**58**	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)										
Barium	**0.33 J**	**0.34 J**	**0.55**	**0.26 J**	--	--	--	--	--	2
Boron	**0.053 J**	**0.052 J**	ND U	**0.099 J**	--	--	--	--	--	2
Cadmium	**0.0021 J**	ND U	**0.010 L**	ND U	--	--	--	--	--	0.005
Chromium	ND U	ND U	ND U	ND U	--	--	--	--	--	0.1
Cobalt	ND U	ND U	ND U	ND U	--	--	--	--	--	1
Iron	ND U	ND U	ND U	ND U	--	--	--	--	--	5
Lead	ND U	ND U	ND U	**0.0078 L**	--	--	--	--	--	0.0075
Manganese	**0.12**	**0.26 J L**	**0.021 J**	**0.48 L**	--	--	--	--	--	0.15
Nickel	ND U	ND U	ND U	ND U	--	--	--	--	--	0.1
Zinc	ND U	**0.024 J**	**0.055 J**	ND U	--	--	--	--	--	5
SPLP Metals (mg/L)										
Cadmium	NA	NA	**0.0020 J**	NA	--	--	--	--	--	0.005
Lead	NA	NA	NA	**0.13 L**	--	--	--	--	--	0.0075
Manganese	NA	**0.14 J**	NA	**0.52 L**	--	--	--	--	--	0.15

PTB #176-001; IDOT Job #D-91-339-15; Project #P-91-217-17; WorkOrder #45A

CONTAMINANTS OF CONCERN

SITE	ISGS #3516-1 (ROW)				Comparison Criteria					
BORING	3516-01-B15	3516-01-B16	3516-01-B17	3516-01-B18	MACs			TACO		
SAMPLE	3516-01-B15 (0-1.8)	3516-01-B16 (0-1.8)	3516-01-B17 (0-2)	3516-01-B18 (0-1.3)						
MATRIX	Soil	Soil	Soil	Soil						
DEPTH (feet)	0-1.8	0-1.8	0-2	0-1.3						
pH	7.8	7.6	7.8	8.1	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
PID > Bkgd.	--	--	--	--						
VOCs (mg/kg)										
Acetone	ND U	ND U	**0.027**	ND U	25	--	--	70,000	100,000	--
Methylene Chloride	**0.0029 J**	**0.0026 J**	ND U	**0.0049 J**	0.02	--	--	13	34	--
Toluene	ND U	ND U	ND U	ND U	12	--	--	650	42	--
SVOCs (mg/kg)										
2-Methylnaphthalene	ND U	**0.031 J**	ND U	**0.0089 J**	--	--	--	--	--	--
Acenaphthene	ND U	ND U	**0.018 J**	**0.015 J**	570	--	--	4,700	120,000	--
Acenaphthylene	ND U	**0.035 J**	ND U	**0.0080 J**	--	--	--	--	--	--
Anthracene	ND U	**0.020 J**	**0.015 J**	**0.030 J**	12,000	--	--	23,000	610,000	--
Benzo(a)anthracene	**0.021 J**	**0.13**	**0.062 J**	**0.17 J**	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	**0.044**	**0.18 †**	**0.10 J †**	**0.21 †**	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	**0.048**	**0.25**	**0.12 J**	**0.30**	0.9	2.1	1.5	2.1	170	--
Benzo(g,h,i)perylene	**0.017 J**	**0.098 J**	**0.075 J**	**0.10**	--	--	--	--	--	--
Benzo(k)fluoranthene	**0.021 J**	**0.079**	**0.049**	**0.13**	9	--	--	9	1,700	--
Bis(2-ethylhexyl) phthalate	ND U	ND U	ND U	ND U	46	--	--	46	4,100	--
Butyl benzyl phthalate	ND U	ND U	ND U	ND U	930	--	--	930	930	--
Carbazole	ND U	ND U	ND U	ND U	0.6	--	--	32	6,200	--
Chrysene	**0.024 J**	**0.17**	**0.070 J**	**0.18**	88	--	--	88	17,000	--
Dibenz(a,h)anthracene	ND U	**0.028 J**	**0.028 J**	**0.030 J**	0.09	0.42	0.2	0.42	17	--
Dibenzofuran	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Fluoranthene	**0.022 J**	**0.14**	**0.080 J**	**0.26**	3,100	--	--	3,100	82,000	--
Fluorene	ND U	**0.0060 J**	**0.014 J**	**0.011 J**	560	--	--	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	**0.024 J**	**0.088 J**	**0.074 J**	**0.097**	0.9	1.6	0.9	1.6	170	--
Naphthalene	ND U	**0.0074 J**	**0.014 J**	**0.010 J**	1.8	--	--	170	1.8	--
Phenanthrene	**0.011 J**	**0.10**	**0.074**	**0.16**	--	--	--	--	--	--
Pyrene	**0.026 J**	**0.17**	**0.076**	**0.29**	2,300	--	--	2,300	61,000	--
Inorganics (mg/kg)										
Arsenic	**7.4**	**7.0 J**	**6.6**	**5.4**	11.3	13	--	13	61	--
Barium	**41**	**56**	**80**	**80**	1,500	--	--	5,500	14,000	--
Beryllium	**0.47**	**0.40**	**0.70**	**0.63**	22	--	--	160	410	--
Boron	**7.2**	**5.2 J**	**6.8**	**6.1**	40	--	--	16,000	41,000	--
Cadmium	**0.48**	**0.53**	**0.45**	**0.52**	5.2	--	--	78	200	--
Calcium	**59,000**	**38,000 J**	**4,600**	**11,000**	--	--	--	--	--	--
Chromium	**13**	**11**	**16**	**17**	21	--	--	230	690	--
Cobalt	**9.5**	**5.8**	**11**	**8.7**	20	--	--	4,700	12,000	--
Copper	**18**	**16 J**	**16**	**18**	2,900	--	--	2,900	8,200	--
Iron	**15,000**	**13,000**	**18,000 †m**	**17,000 †m**	15,000	15,900	--	--	--	--
Lead	**46**	**45**	**21**	**87**	107	--	--	400	700	--
Magnesium	**24,000**	**17,000 J**	**2,300**	**5,900**	325,000	--	--	--	730,000	--
Manganese	**460**	**390**	**650 †m**	**530**	630	636	--	1,600	4,100	--
Mercury	**0.022**	**0.037**	**0.044**	**0.040**	0.89	--	--	10	0.1	--
Nickel	**20**	**13**	**23**	**18**	100	--	--	1,600	4,100	--
Potassium	**1,100**	**950 J**	**1,900**	**1,600**	--	--	--	--	--	--
Selenium	ND U	**0.34 J**	**0.75**	**0.64**	1.3	--	--	390	1,000	--
Silver	**0.18 J**	**0.16 J**	**0.26 J**	**0.21 J**	4.4	--	--	390	1,000	--
Sodium	**440**	**310**	**1,100**	**570**	--	--	--	--	--	--
Thallium	ND U	ND U	ND U	ND U	2.6	--	--	6.3	160	--
Vanadium	**21**	**16**	**29**	**27**	550	--	--	550	1,400	--
Zinc	**63**	**73**	**67**	**91**	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)										
Barium	**0.27 J**	**0.38 J**	**0.21 J**	**0.38 J**	--	--	--	--	--	2
Boron	**0.053 J**	**0.064 J**	**0.067 J**	**0.056 J**	--	--	--	--	--	2
Cadmium	**0.0021 J**	**0.0025 J**	ND U	**0.0021 J**	--	--	--	--	--	0.005
Chromium	ND U	ND U	ND U	ND U	--	--	--	--	--	0.1
Cobalt	ND U	ND U	ND U	ND U	--	--	--	--	--	1
Iron	ND U	ND U	ND U	ND U	--	--	--	--	--	5
Lead	ND U	ND U	ND U	ND U	--	--	--	--	--	0.0075
Manganese	**0.047**	**0.081**	**0.038**	**0.25 L**	--	--	--	--	--	0.15
Nickel	ND U	ND U	ND U	ND U	--	--	--	--	--	0.1
Zinc	ND U	ND U	ND U	**0.21 J**	--	--	--	--	--	5
SPLP Metals (mg/L)										
Cadmium	NA	NA	NA	NA	--	--	--	--	--	0.005
Lead	NA	NA	NA	NA	--	--	--	--	--	0.0075
Manganese	NA	NA	NA	**0.66 L**	--	--	--	--	--	0.15

PTB #176-001; IDOT Job #D-91-339-15; Project #P-91-217-17; WorkOrder #45A

CONTAMINANTS OF CONCERN

SITE	ISGS #3516-1 (ROW)				Comparison Criteria					
BORING	3516-01-B19	3516-01-B20	3516-01-B21	3516-01-B22	MACs			TACO		
SAMPLE	3516-01-B19 (0-2)	3516-01-B20 (0-2)	3516-01-B21 (0-2)	3516-01-B22 (0-2)						
MATRIX	Soil	Soil	Soil	Soil						
DEPTH (feet)	0-2	0-2	0-2	0-2						
pH	8.1	8.2	8.2	8.0						
PID > Bkgd.	--	--	--	--	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
VOCs (mg/kg)										
Acetone	**0.010 J**	ND U	**0.023**	ND U	25	--	--	70,000	100,000	--
Methylene Chloride	**0.0025 J**	ND U	**0.0021 J**	ND U	0.02	--	--	13	34	--
Toluene	ND U	ND U	ND U	ND U	12	--	--	650	42	--
SVOCs (mg/kg)										
2-Methylnaphthalene	ND U	**0.0091 J**	ND U	ND U	--	--	--	--	--	--
Acenaphthene	ND U	**0.061**	ND U	ND U	570	--	--	4,700	120,000	--
Acenaphthylene	ND U	**0.041**	ND U	**0.010 J**	--	--	--	--	--	--
Anthracene	ND U	**0.039**	ND U	**0.013 J**	12,000	--	--	23,000	610,000	--
Benzo(a)anthracene	**0.036 J**	**0.38 J**	**0.038 J**	**0.084 J**	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	**0.056**	**0.68 †**	**0.058**	**0.13 †**	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	**0.079**	**0.91 †**	**0.075**	**0.18**	0.9	2.1	1.5	2.1	170	--
Benzo(g,h,i)perylene	**0.029 J**	**0.33**	**0.035 J**	**0.066**	--	--	--	--	--	--
Benzo(k)fluoranthene	**0.030 J**	**0.36**	**0.027 J**	**0.068**	9	--	--	9	1,700	--
Bis(2-ethylhexyl) phthalate	ND U	ND U	ND U	ND U	46	--	--	46	4,100	--
Butyl benzyl phthalate	ND U	**0.076 J**	ND U	ND U	930	--	--	930	930	--
Carbazole	ND U	ND U	ND U	ND U	0.6	--	--	32	6,200	--
Chrysene	**0.040**	**0.37**	**0.041**	**0.090**	88	--	--	88	17,000	--
Dibenz(a,h)anthracene	**0.014 J**	**0.093 †**	**0.015 J**	**0.024 J**	0.09	0.42	0.2	0.42	17	--
Dibenzofuran	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Fluoranthene	**0.044**	**0.27**	**0.041**	**0.089**	3,100	--	--	3,100	82,000	--
Fluorene	ND U	**0.017 J**	ND U	ND U	560	--	--	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	**0.033 J**	**0.33**	**0.038 J**	**0.062**	0.9	1.6	0.9	1.6	170	--
Naphthalene	ND U	**0.0071 J**	ND U	ND U	1.8	--	--	170	1.8	--
Phenanthrene	**0.024 J**	**0.16**	**0.017 J**	**0.051**	--	--	--	--	--	--
Pyrene	**0.053**	**0.54**	**0.045**	**0.16**	2,300	--	--	2,300	61,000	--
Inorganics (mg/kg)										
Arsenic	**6.7**	**4.5**	**5.9**	**4.2**	11.3	13	--	13	61	--
Barium	**73**	**69**	**70**	**82**	1,500	--	--	5,500	14,000	--
Beryllium	**0.66**	**0.50**	**0.61**	**0.62**	22	--	--	160	410	--
Boron	**5.9**	**5.9**	**6.4**	**6.0**	40	--	--	16,000	41,000	--
Cadmium	**0.40**	**0.49**	**0.53**	**0.64**	5.2	--	--	78	200	--
Calcium	**3,800**	**22,000**	**15,000**	**21,000**	--	--	--	--	--	--
Chromium	**16**	**12**	**16**	**15**	21	--	--	230	690	--
Cobalt	**14**	**8.7**	**9.7**	**8.5**	20	--	--	4,700	12,000	--
Copper	**16**	**14**	**21**	**18**	2,900	--	--	2,900	8,200	--
Iron	**18,000 †m**	**13,000**	**18,000 †m**	**15,000**	15,000	15,900	--	--	--	--
Lead	**38**	**71**	**160 †**	**68**	107	--	--	400	700	--
Magnesium	**2,800**	**13,000**	**9,600**	**13,000**	325,000	--	--	--	730,000	--
Manganese	**600**	**620**	**490**	**570**	630	636	--	1,600	4,100	--
Mercury	**0.042**	**0.032**	**0.035**	**0.044**	0.89	--	--	10	0.1	--
Nickel	**23**	**14**	**20**	**19**	100	--	--	1,600	4,100	--
Potassium	**1,600**	**1,300**	**1,600**	**1,500**	--	--	--	--	--	--
Selenium	**0.67**	**0.52 J**	ND U	**0.59 J**	1.3	--	--	390	1,000	--
Silver	**0.23 J**	**0.21 J**	**0.22 J**	**0.22 J**	4.4	--	--	390	1,000	--
Sodium	**730**	**1,300**	**1,600**	**1,700**	--	--	--	--	--	--
Thallium	**0.33 J**	ND U	ND U	ND U	2.6	--	--	6.3	160	--
Vanadium	**29**	**22**	**27**	**24**	550	--	--	550	1,400	--
Zinc	**71**	**64**	**92**	**82**	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)										
Barium	**0.29 J**	**0.35 J**	**0.33 J**	**0.32 J**	--	--	--	--	--	2
Boron	**0.074 J**	**0.061 J**	**0.082 J**	**0.080 J**	--	--	--	--	--	2
Cadmium	ND U	**0.0030 J**	**0.0027 J**	**0.0023 J**	--	--	--	--	--	0.005
Chromium	ND U	ND U	ND U	ND U	--	--	--	--	--	0.1
Cobalt	ND U	ND U	ND U	ND U	--	--	--	--	--	1
Iron	ND U	ND U	ND U	ND U	--	--	--	--	--	5
Lead	ND U	ND U	ND U	ND U	--	--	--	--	--	0.0075
Manganese	**0.13**	**0.62 L**	**0.59 L**	**0.37 L**	--	--	--	--	--	0.15
Nickel	ND U	ND U	ND U	ND U	--	--	--	--	--	0.1
Zinc	**0.026 J**	**0.041 J**	**0.062 J**	**0.038 J**	--	--	--	--	--	5
SPLP Metals (mg/L)										
Cadmium	NA	NA	NA	NA	--	--	--	--	--	0.005
Lead	NA	NA	NA	NA	--	--	--	--	--	0.0075
Manganese	NA	**0.82 L**	**1.0 L**	**0.77 L**	--	--	--	--	--	0.15

PTB #176-001; IDOT Job #D-91-339-15; Project #P-91-217-17; WorkOrder #45A

CONTAMINANTS OF CONCERN

SITE	ISGS #3516-1 (ROW)				Comparison Criteria					
BORING	3516-01-B23	3516-01-B24	3516-01-B25	3516-01-B26	MACs			TACO		
SAMPLE	3516-01-B23 (0-2)	3516-01-B24 (0-2)	3516-01-B25 (0-2)	3516-01-B26 (0-2)						
MATRIX	Soil	Soil	Soil	Soil						
DEPTH (feet)	0-2	0-2	0-2	0-2						
pH	8.3	8.3	8.2	8.2						
PID > Bkgd.	--	--	--	--	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
VOCs (mg/kg)										
Acetone	**0.010 J**	**0.030**	**0.010 J**	ND U	25	--	--	70,000	100,000	--
Methylene Chloride	ND U	ND U	ND U	**0.0031 J**	0.02	--	--	13	34	--
Toluene	ND U	ND U	ND U	ND U	12	--	--	650	42	--
SVOCs (mg/kg)										
2-Methylnaphthalene	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Acenaphthene	ND U	ND U	**0.039**	ND U	570	--	--	4,700	120,000	--
Acenaphthylene	**0.0060 J**	ND U	**0.032 J**	ND U	--	--	--	--	--	--
Anthracene	**0.0084 J**	ND U	**0.11**	ND U	12,000	--	--	23,000	610,000	--
Benzo(a)anthracene	**0.062 J**	**0.047 J**	**0.47 J**	**0.073 J**	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	**0.080**	**0.081**	**0.49 †**	**0.12 †**	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	**0.13**	**0.11**	**0.64**	**0.16**	0.9	2.1	1.5	2.1	170	--
Benzo(g,h,i)perylene	**0.045**	**0.043**	**0.23**	**0.078**	--	--	--	--	--	--
Benzo(k)fluoranthene	**0.051**	**0.053**	**0.24**	**0.061**	9	--	--	9	1,700	--
Bis(2-ethylhexyl) phthalate	ND U	ND U	ND U	**0.43 J**	46	--	--	46	4,100	--
Butyl benzyl phthalate	ND U	ND U	ND U	ND U	930	--	--	930	930	--
Carbazole	ND U	ND U	ND U	ND U	0.6	--	--	32	6,200	--
Chrysene	**0.071**	**0.049**	**0.43**	**0.087**	88	--	--	88	17,000	--
Dibenz(a,h)anthracene	**0.017 J**	**0.014 J**	**0.067**	**0.027 J**	0.09	0.42	0.2	0.42	17	--
Dibenzofuran	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Fluoranthene	**0.080**	**0.042**	**0.81**	**0.090**	3,100	--	--	3,100	82,000	--
Fluorene	ND U	ND U	**0.022 J**	ND U	560	--	--	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	**0.043**	**0.041**	**0.22**	**0.071**	0.9	1.6	0.9	1.6	170	--
Naphthalene	ND U	ND U	**0.0080 J**	ND U	1.8	--	--	170	1.8	--
Phenanthrene	**0.038 J**	**0.025 J**	**0.47**	**0.036 J**	--	--	--	--	--	--
Pyrene	**0.14**	**0.072**	**0.91**	**0.093**	2,300	--	--	2,300	61,000	--
Inorganics (mg/kg)										
Arsenic	**3.7**	**4.7**	**4.7**	**5.4**	11.3	13	--	13	61	--
Barium	**60**	**60**	**43**	**67**	1,500	--	--	5,500	14,000	--
Beryllium	**0.48**	**0.53**	**0.47**	**0.66**	22	--	--	160	410	--
Boron	**6.7**	**4.8**	**4.4**	**6.4**	40	--	--	16,000	41,000	--
Cadmium	**0.39**	**0.46**	ND U	**0.52**	5.2	--	--	78	200	--
Calcium	**17,000**	**13,000**	**4,300**	**17,000**	--	--	--	--	--	--
Chromium	**15**	**14**	**14**	**17**	21	--	--	230	690	--
Cobalt	**5.8**	**8.0**	**7.7**	**11**	20	--	--	4,700	12,000	--
Copper	**14**	**17**	**12**	**19**	2,900	--	--	2,900	8,200	--
Iron	**12,000**	**16,000 †m**	**13,000**	**16,000 †m**	15,000	15,900	--	--	--	--
Lead	**26**	**55**	**54**	**53**	107	--	--	400	700	--
Magnesium	**37,000**	**7,900**	**3,500**	**8,800**	325,000	--	--	--	730,000	--
Manganese	**430**	**300**	**250**	**450**	630	636	--	1,600	4,100	--
Mercury	**0.036**	**0.036**	**0.024**	**0.035**	0.89	--	--	10	0.1	--
Nickel	**13**	**17**	**15**	**25**	100	--	--	1,600	4,100	--
Potassium	**1,400**	**1,300**	**1,100**	**1,500**	--	--	--	--	--	--
Selenium	ND U	**0.68**	**0.41 J**	**0.41 J**	1.3	--	--	390	1,000	--
Silver	**0.11 J**	**0.17 J**	**0.15 J**	**0.24 J**	4.4	--	--	390	1,000	--
Sodium	**1,500**	**1,500**	**1,000**	**1,600**	--	--	--	--	--	--
Thallium	ND U	ND U	**0.32 J**	ND U	2.6	--	--	6.3	160	--
Vanadium	**24**	**29**	**24**	**28**	550	--	--	550	1,400	--
Zinc	**60**	**70**	**52**	**74**	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)										
Barium	**0.33 J**	**0.30 J**	**0.30 J**	**0.29 J**	--	--	--	--	--	2
Boron	**0.073 J**	**0.065 J**	**0.061 J**	**0.059 J**	--	--	--	--	--	2
Cadmium	**0.0020 J**	**0.0023 J**	**0.0034 J**	**0.0024 J**	--	--	--	--	--	0.005
Chromium	ND U	ND U	ND U	ND U	--	--	--	--	--	0.1
Cobalt	ND U	ND U	ND U	ND U	--	--	--	--	--	1
Iron	ND U	ND U	**0.26 J**	ND U	--	--	--	--	--	5
Lead	ND U	ND U	**0.026 L**	ND U	--	--	--	--	--	0.0075
Manganese	**0.87 L**	**0.89 L**	**1.4 L**	**0.35 L**	--	--	--	--	--	0.15
Nickel	ND U	ND U	ND U	ND U	--	--	--	--	--	0.1
Zinc	**0.031 J**	**0.027 J**	**0.042 J**	**0.14 J**	--	--	--	--	--	5
SPLP Metals (mg/L)										
Cadmium	NA	NA	NA	NA	--	--	--	--	--	0.005
Lead	NA	NA	**0.47 L**	NA	--	--	--	--	--	0.0075
Manganese	**0.92 L**	**0.73 L**	**0.82 L**	**0.97 L**	--	--	--	--	--	0.15

PTB #176-001; IDOT Job #D-91-339-15; Project #P-91-217-17; WorkOrder #45A

CONTAMINANTS OF CONCERN

SITE	ISGS #3516-1 (ROW)		Comparison Criteria					
BORING	3516-01-B27		MACs			TACO		
SAMPLE	3516-01-B27 (0-2)							
MATRIX	Soil							
DEPTH (feet)	0-2							
pH	8.6			Within an				
PID > Bkgd.	--		Most Stringent	MSA	Within Chicago	Residential	Construction Worker	SCGIER
VOCs (mg/kg)								
Acetone	**0.015**	J	25	--	--	70,000	100,000	--
Methylene Chloride	**0.0034**	J	0.02	--	--	13	34	--
Toluene	ND	U	12	--	--	650	42	--
SVOCs (mg/kg)								
2-Methylnaphthalene	**0.12**		--	--	--	--	--	--
Acenaphthene	**0.055**		570	--	--	4,700	120,000	--
Acenaphthylene	**0.019**	J	--	--	--	--	--	--
Anthracene	**0.075**		12,000	--	--	23,000	610,000	--
Benzo(a)anthracene	**0.56**	J	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	**0.77**	†	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	**1.0**	†	0.9	2.1	1.5	2.1	170	--
Benzo(g,h,i)perylene	**0.35**		--	--	--	--	--	--
Benzo(k)fluoranthene	**0.42**		9	--	--	9	1,700	--
Bis(2-ethylhexyl) phthalate	**0.11**	J	46	--	--	46	4,100	--
Butyl benzyl phthalate	ND	U	930	--	--	930	930	--
Carbazole	ND	U	0.6	--	--	32	6,200	--
Chrysene	**0.53**		88	--	--	88	17,000	--
Dibenz(a,h)anthracene	**0.093**	†	0.09	0.42	0.2	0.42	17	--
Dibenzofuran	ND	U	--	--	--	--	--	--
Fluoranthene	**0.55**		3,100	--	--	3,100	82,000	--
Fluorene	**0.023**	J	560	--	--	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	**0.34**		0.9	1.6	0.9	1.6	170	--
Naphthalene	**0.033**	J	1.8	--	--	170	1.8	--
Phenanthrene	**0.33**		--	--	--	--	--	--
Pyrene	**0.82**		2,300	--	--	2,300	61,000	--
Inorganics (mg/kg)								
Arsenic	**5.4**		11.3	13	--	13	61	--
Barium	**59**		1,500	--	--	5,500	14,000	--
Beryllium	**0.47**		22	--	--	160	410	--
Boron	**4.1**		40	--	--	16,000	41,000	--
Cadmium	ND	U	5.2	--	--	78	200	--
Calcium	**5,700**		--	--	--	--	--	--
Chromium	**16**		21	--	--	230	690	--
Cobalt	**6.6**		20	--	--	4,700	12,000	--
Copper	**12**		2,900	--	--	2,900	8,200	--
Iron	**16,000**	†m	15,000	15,900	--	--	--	--
Lead	**61**		107	--	--	400	700	--
Magnesium	**3,800**		325,000	--	--	--	730,000	--
Manganese	**460**		630	636	--	1,600	4,100	--
Mercury	**0.030**		0.89	--	--	10	0.1	--
Nickel	**16**		100	--	--	1,600	4,100	--
Potassium	**1,100**		--	--	--	--	--	--
Selenium	**0.53**	J	1.3	--	--	390	1,000	--
Silver	**0.15**	J	4.4	--	--	390	1,000	--
Sodium	**1,800**		--	--	--	--	--	--
Thallium	ND	U	2.6	--	--	6.3	160	--
Vanadium	**24**		550	--	--	550	1,400	--
Zinc	**65**		5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)								
Barium	**0.36**	J	--	--	--	--	--	2
Boron	**0.070**	J	--	--	--	--	--	2
Cadmium	**0.0035**	J	--	--	--	--	--	0.005
Chromium	ND	U	--	--	--	--	--	0.1
Cobalt	ND	U	--	--	--	--	--	1
Iron	ND	U	--	--	--	--	--	5
Lead	**0.018**	L	--	--	--	--	--	0.0075
Manganese	**0.70**	L	--	--	--	--	--	0.15
Nickel	ND	U	--	--	--	--	--	0.1
Zinc	**0.12**	J	--	--	--	--	--	5
SPLP Metals (mg/L)								
Cadmium	NA		--	--	--	--	--	0.005
Lead	**0.44**	L	--	--	--	--	--	0.0075
Manganese	**0.83**	L	--	--	--	--	--	0.15

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: 500-147163-1
Client Project/Site: IDOT - 176-001-WO045

For:
Ecology and Environment, Inc.
33 West Monroe St.
Suite 1410
Chicago, Illinois 60603

Attn: Mr. Dean Tiebout

Authorized for release by:
6/27/2018 9:20:32 AM

Richard Wright, Senior Project Manager
(708)534-5200
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Table of Contents

Job ID: 500-147163-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-147163-1

Receipt
The samples were received on 6/19/2018 4:55 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.9º C and 3.0º C.

GC/MS VOA
Method(s) 8260B: The following analytes recovered outside control limits for the laboratory control sample/laboratory control sample duplicate (LCS/LCSD) associated with analytical batch 438443: Chloromethane, Bromomethane, Chloroethane. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

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

GC/MS Semi VOA
Method(s) 8270D: The following matrix spike/matrix spike duplicate (MS/MSD) recovered at 0% for one or more analytes: Hexachlorocyclopentadiene and Pentachlorophenol. Data has been qualified and reported. (500-147163-E-1-H MS) and (500-147163-E-1-I MSD)

Method(s) 8270D: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 500-437774 and analytical batch 500-438153 was outside control limits for 2,4-Dinitrophenol, Pentachlorophenol, 4,6-Dinitro-2-methylphenol and 3,3'-Dichlorobenzidine. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recoveries were within acceptance limits.

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

Metals
Method(s) 6010B: The method blank for preparation batch 500-437753 and analytical batch 500-438064 contained Magnesium above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

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

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

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

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - 176-001-WO045

TestAmerica Job ID: 500-147163-1

Client Sample ID: 3516-01-B16 (0-1.8) — Lab Sample ID: 500-147163-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.0026	J	0.0041	0.0016	mg/Kg	1	☼	8260B	Total/NA
Naphthalene	0.0074	J	0.038	0.0059	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.031	J	0.078	0.0071	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.035	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0060	J	0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.10		0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.020	J	0.038	0.0065	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.14		0.038	0.0072	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.17		0.038	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.13		0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.17		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.25		0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.079		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.18		0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.088	F1	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.028	J F1	0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.098	F1	0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Arsenic	7.0	F1	0.57	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	56	B	0.57	0.065	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.40		0.23	0.053	mg/Kg	1	☼	6010B	Total/NA
Boron	5.2	B F1	2.9	0.27	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.53	B	0.11	0.021	mg/Kg	1	☼	6010B	Total/NA
Calcium	38000	B	57	9.7	mg/Kg	5	☼	6010B	Total/NA
Chromium	11		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.8	B	0.29	0.075	mg/Kg	1	☼	6010B	Total/NA
Copper	16	B F1	0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	13000	B	11	6.0	mg/Kg	1	☼	6010B	Total/NA
Lead	45		0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	17000	B F2	5.7	2.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	390	B	0.57	0.083	mg/Kg	1	☼	6010B	Total/NA
Nickel	13		0.57	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	950	F1	29	10	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.34	J F1	0.57	0.34	mg/Kg	1	☼	6010B	Total/NA
Silver	0.16	J	0.29	0.074	mg/Kg	1	☼	6010B	Total/NA
Sodium	310		57	8.5	mg/Kg	1	☼	6010B	Total/NA
Vanadium	16	B	0.29	0.068	mg/Kg	1	☼	6010B	Total/NA
Zinc	73	B	1.1	0.50	mg/Kg	1	☼	6010B	Total/NA
Barium	0.38	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.064	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0025	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Manganese	0.081		0.025	0.010	mg/L	1		6010B	TCLP
Mercury	0.037		0.019	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	7.6		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3516-01-B15 (0-1.8) — Lab Sample ID: 500-147163-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.0029	J	0.0042	0.0017	mg/Kg	1	☼	8260B	Total/NA
Phenanthrene	0.011	J	0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.022	J	0.037	0.0069	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 3516-01-B15 (0-1.8) (Continued) — Lab Sample ID: 500-147163-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	0.026	J	0.037	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.021	J	0.037	0.0050	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.024	J	0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.048		0.037	0.0080	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.021	J	0.037	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.044		0.037	0.0072	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.024	J	0.037	0.0096	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.017	J	0.037	0.012	mg/Kg	1	☼	8270D	Total/NA
Arsenic	7.4		0.55	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	41	B	0.55	0.062	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.47		0.22	0.051	mg/Kg	1	☼	6010B	Total/NA
Boron	7.2	B	2.7	0.26	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.48	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Calcium	59000	B	55	9.3	mg/Kg	5	☼	6010B	Total/NA
Chromium	13		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.5	B	0.27	0.072	mg/Kg	1	☼	6010B	Total/NA
Copper	18	B	0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	15000	B	11	5.7	mg/Kg	1	☼	6010B	Total/NA
Lead	46		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	24000	B	5.5	2.7	mg/Kg	1	☼	6010B	Total/NA
Manganese	460	B	0.55	0.079	mg/Kg	1	☼	6010B	Total/NA
Nickel	20		0.55	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	1100		27	9.7	mg/Kg	1	☼	6010B	Total/NA
Silver	0.18	J	0.27	0.071	mg/Kg	1	☼	6010B	Total/NA
Sodium	440		55	8.1	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21	B	0.27	0.065	mg/Kg	1	☼	6010B	Total/NA
Zinc	63	B	1.1	0.48	mg/Kg	1	☼	6010B	Total/NA
Barium	0.27	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.053	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0021	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Manganese	0.047		0.025	0.010	mg/L	1		6010B	TCLP
Mercury	0.022		0.018	0.0059	mg/Kg	1	☼	7471B	Total/NA
pH	7.8		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3516-01-B14 (0-2) — Lab Sample ID: 500-147163-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.022	J	0.024	0.011	mg/Kg	1	☼	8260B	Total/NA
Methylene Chloride	0.0062		0.0061	0.0024	mg/Kg	1	☼	8260B	Total/NA
Phenanthrene	0.028	J	0.039	0.0054	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.050		0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.059		0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.044		0.039	0.0052	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.050		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.10		0.039	0.0084	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.044		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.080		0.039	0.0075	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.043		0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.0076	J	0.039	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.037	J	0.039	0.013	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 3516-01-B14 (0-2) (Continued) — Lab Sample ID: 500-147163-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	11		0.56	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	55	B	0.56	0.064	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.64		0.22	0.052	mg/Kg	1	☼	6010B	Total/NA
Boron	5.5	B	2.8	0.26	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.33	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Calcium	5600	B	11	1.9	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11	B	0.28	0.073	mg/Kg	1	☼	6010B	Total/NA
Copper	16	B	0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	19000	B	11	5.8	mg/Kg	1	☼	6010B	Total/NA
Lead	59		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	4200	B	5.6	2.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	240	B	0.56	0.081	mg/Kg	1	☼	6010B	Total/NA
Nickel	20		0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	1200		28	9.9	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.54	J	0.56	0.33	mg/Kg	1	☼	6010B	Total/NA
Silver	0.25	J	0.28	0.072	mg/Kg	1	☼	6010B	Total/NA
Sodium	710		56	8.3	mg/Kg	1	☼	6010B	Total/NA
Vanadium	30	B	0.28	0.066	mg/Kg	1	☼	6010B	Total/NA
Zinc	58	B	1.1	0.49	mg/Kg	1	☼	6010B	Total/NA
Barium	0.26	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.099	J	0.50	0.050	mg/L	1		6010B	TCLP
Lead	0.0078		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	0.48		0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.13		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.52		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.032		0.018	0.0061	mg/Kg	1	☼	7471B	Total/NA
pH	8.1		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3516-01-B13 (0-2) — Lab Sample ID: 500-147163-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.0033	J	0.0040	0.0016	mg/Kg	1	☼	8260B	Total/NA
Phenanthrene	0.0075	J	0.037	0.0053	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.016	J	0.037	0.0070	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.018	J	0.037	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.013	J	0.037	0.0051	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.013	J	0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.027	J	0.037	0.0081	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.024	J	0.037	0.0073	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.018	J	0.037	0.0098	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.7		0.54	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	69	B	0.54	0.062	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.49		0.22	0.051	mg/Kg	1	☼	6010B	Total/NA
Boron	5.5	B	2.7	0.25	mg/Kg	1	☼	6010B	Total/NA
Cadmium	3.8	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Calcium	77000	B	54	9.2	mg/Kg	5	☼	6010B	Total/NA
Chromium	11		0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11	B	0.27	0.071	mg/Kg	1	☼	6010B	Total/NA
Copper	12	B	0.54	0.15	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 3516-01-B13 (0-2) (Continued) — Lab Sample ID: 500-147163-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	15000	B	11	5.7	mg/Kg	1	☼	6010B	Total/NA
Lead	23		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	19000	B	5.4	2.7	mg/Kg	1	☼	6010B	Total/NA
Manganese	520	B	0.54	0.079	mg/Kg	1	☼	6010B	Total/NA
Nickel	21		0.54	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	1100		27	9.6	mg/Kg	1	☼	6010B	Total/NA
Silver	0.21	J	0.27	0.070	mg/Kg	1	☼	6010B	Total/NA
Sodium	500		54	8.1	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18	B	0.27	0.064	mg/Kg	1	☼	6010B	Total/NA
Zinc	210	B	1.1	0.48	mg/Kg	1	☼	6010B	Total/NA
Barium	0.55		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.010		0.0050	0.0020	mg/L	1		6010B	TCLP
Manganese	0.021	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.055	J	0.50	0.020	mg/L	1		6010B	TCLP
Cadmium	0.0020	J	0.0050	0.0020	mg/L	1		6010B	SPLP East
Mercury	0.045		0.018	0.0061	mg/Kg	1	☼	7471B	Total/NA
pH	8.0		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3516-01-B12 (0-2) — Lab Sample ID: 500-147163-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.0025	J	0.0042	0.0017	mg/Kg	1	☼	8260B	Total/NA
Phenanthrene	0.011	J	0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.019	J	0.037	0.0070	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.023	J	0.037	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.016	J	0.037	0.0051	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.018	J	0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.040		0.037	0.0081	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.012	J	0.037	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.033	J	0.037	0.0073	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.021	J	0.037	0.0097	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.0096	J	0.037	0.0073	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.016	J	0.037	0.012	mg/Kg	1	☼	8270D	Total/NA
Arsenic	8.9		0.53	0.18	mg/Kg	1	☼	6010B	Total/NA
Barium	84	B	0.53	0.061	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.53		0.21	0.050	mg/Kg	1	☼	6010B	Total/NA
Boron	5.4	B	2.7	0.25	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.40	B	0.11	0.019	mg/Kg	1	☼	6010B	Total/NA
Calcium	17000	B	11	1.8	mg/Kg	1	☼	6010B	Total/NA
Chromium	13		0.53	0.26	mg/Kg	1	☼	6010B	Total/NA
Cobalt	10	B	0.27	0.070	mg/Kg	1	☼	6010B	Total/NA
Copper	15	B	0.53	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	17000	B	11	5.5	mg/Kg	1	☼	6010B	Total/NA
Lead	41		0.27	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	11000	B	5.3	2.6	mg/Kg	1	☼	6010B	Total/NA
Manganese	500	B	0.53	0.077	mg/Kg	1	☼	6010B	Total/NA
Nickel	19		0.53	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	1200		27	9.4	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.52	J	0.53	0.31	mg/Kg	1	☼	6010B	Total/NA
Silver	0.22	J	0.27	0.068	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 3516-01-B12 (0-2) (Continued) — Lab Sample ID: 500-147163-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	300		53	7.9	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.28	J	0.53	0.26	mg/Kg	1	☼	6010B	Total/NA
Vanadium	25	B	0.27	0.063	mg/Kg	1	☼	6010B	Total/NA
Zinc	57	B	1.1	0.47	mg/Kg	1	☼	6010B	Total/NA
Barium	0.33	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.053	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0021	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Manganese	0.12		0.025	0.010	mg/L	1		6010B	TCLP
Mercury	0.026		0.018	0.0061	mg/Kg	1	☼	7471B	Total/NA
pH	7.5		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3516-01-B12 (0-2)D — Lab Sample ID: 500-147163-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.011	J	0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.021	J	0.037	0.0069	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.024	J	0.037	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.018	J	0.037	0.0050	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.022	J	0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.042		0.037	0.0080	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.017	J	0.037	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.036	J	0.037	0.0072	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.023	J	0.037	0.0096	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.018	J	0.037	0.012	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.9		0.54	0.18	mg/Kg	1	☼	6010B	Total/NA
Barium	74	B	0.54	0.061	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.59		0.22	0.050	mg/Kg	1	☼	6010B	Total/NA
Boron	5.0	B	2.7	0.25	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.64	B	0.11	0.019	mg/Kg	1	☼	6010B	Total/NA
Calcium	14000	B	11	1.8	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.6	B	0.27	0.071	mg/Kg	1	☼	6010B	Total/NA
Copper	16	B	0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	17000	B	11	5.6	mg/Kg	1	☼	6010B	Total/NA
Lead	41		0.27	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	8900	B	5.4	2.7	mg/Kg	1	☼	6010B	Total/NA
Manganese	400	B	0.54	0.078	mg/Kg	1	☼	6010B	Total/NA
Nickel	17		0.54	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	1200		27	9.5	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.66		0.54	0.32	mg/Kg	1	☼	6010B	Total/NA
Silver	0.23	J	0.27	0.070	mg/Kg	1	☼	6010B	Total/NA
Sodium	350		54	8.0	mg/Kg	1	☼	6010B	Total/NA
Vanadium	26	B	0.27	0.064	mg/Kg	1	☼	6010B	Total/NA
Zinc	89	B	1.1	0.47	mg/Kg	1	☼	6010B	Total/NA
Barium	0.34	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.052	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.26		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.024	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.14		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.025		0.019	0.0063	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 3516-01-B12 (0-2)D (Continued) — Lab Sample ID: 500-147163-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
pH	7.8		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3516-01-B11 (0-2) — Lab Sample ID: 500-147163-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.0031	J	0.0045	0.0018	mg/Kg	1	☼	8260B	Total/NA
Phenanthrene	0.018	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.027	J	0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.029	J	0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.015	J	0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.019	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.033	J	0.039	0.0085	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.026	J	0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.018	J	0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Arsenic	7.4		0.59	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	110	B	0.59	0.068	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.66		0.24	0.055	mg/Kg	1	☼	6010B	Total/NA
Boron	4.7	B	3.0	0.28	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.36	B	0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Calcium	5600	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14	B	0.30	0.078	mg/Kg	1	☼	6010B	Total/NA
Copper	16	B	0.59	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	12	6.2	mg/Kg	1	☼	6010B	Total/NA
Lead	26		0.30	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	4000	B	5.9	2.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	720	B	0.59	0.086	mg/Kg	1	☼	6010B	Total/NA
Nickel	19		0.59	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	1400		30	10	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.97		0.59	0.35	mg/Kg	1	☼	6010B	Total/NA
Silver	0.32		0.30	0.077	mg/Kg	1	☼	6010B	Total/NA
Sodium	410		59	8.8	mg/Kg	1	☼	6010B	Total/NA
Vanadium	29	B	0.30	0.070	mg/Kg	1	☼	6010B	Total/NA
Zinc	66	B	1.2	0.52	mg/Kg	1	☼	6010B	Total/NA
Barium	0.48	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.053	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.11		0.025	0.010	mg/L	1		6010B	TCLP
Mercury	0.040		0.018	0.0061	mg/Kg	1	☼	7471B	Total/NA
pH	7.3		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3516-01-B10 (0-2) — Lab Sample ID: 500-147163-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.0097	J	0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.019	J	0.037	0.0070	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.019	J	0.037	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.012	J	0.037	0.0050	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.015	J	0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.028	J	0.037	0.0081	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.021	J	0.037	0.0073	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 3516-01-B10 (0-2) (Continued) — Lab Sample ID: 500-147163-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Indeno[1,2,3-cd]pyrene	0.014	J	0.037	0.0097	mg/Kg	1	☼	8270D	Total/NA
Arsenic	7.3		0.57	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	120	B	0.57	0.065	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.61		0.23	0.053	mg/Kg	1	☼	6010B	Total/NA
Boron	5.0	B	2.8	0.26	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.33	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Calcium	4500	B	11	1.9	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	15	B	0.28	0.074	mg/Kg	1	☼	6010B	Total/NA
Copper	15	B	0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	11	5.9	mg/Kg	1	☼	6010B	Total/NA
Lead	24		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	3700	B	5.7	2.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	710	B	0.57	0.082	mg/Kg	1	☼	6010B	Total/NA
Nickel	18		0.57	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	1400		28	10	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.88		0.57	0.33	mg/Kg	1	☼	6010B	Total/NA
Silver	0.29		0.28	0.073	mg/Kg	1	☼	6010B	Total/NA
Sodium	690		57	8.4	mg/Kg	1	☼	6010B	Total/NA
Vanadium	30	B	0.28	0.067	mg/Kg	1	☼	6010B	Total/NA
Zinc	63	B	1.1	0.50	mg/Kg	1	☼	6010B	Total/NA
Barium	0.36	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.061	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.13		0.025	0.010	mg/L	1		6010B	TCLP
Mercury	0.039		0.019	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	7.7		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3516-01-B09 (0-2) — Lab Sample ID: 500-147163-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.0023	J	0.0039	0.0016	mg/Kg	1	☼	8260B	Total/NA
Benzo[b]fluoranthene	0.011	J	0.038	0.0082	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.012	J	0.038	0.0073	mg/Kg	1	☼	8270D	Total/NA
Arsenic	7.7		0.53	0.18	mg/Kg	1	☼	6010B	Total/NA
Barium	63	B	0.53	0.061	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.54		0.21	0.050	mg/Kg	1	☼	6010B	Total/NA
Boron	6.1	B	2.7	0.25	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.47	B	0.11	0.019	mg/Kg	1	☼	6010B	Total/NA
Calcium	63000	B	53	9.0	mg/Kg	5	☼	6010B	Total/NA
Chromium	13		0.53	0.26	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.8	B	0.27	0.070	mg/Kg	1	☼	6010B	Total/NA
Copper	15	B	0.53	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	11	5.5	mg/Kg	1	☼	6010B	Total/NA
Lead	16		0.27	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	21000	B	5.3	2.6	mg/Kg	1	☼	6010B	Total/NA
Manganese	490	B	0.53	0.077	mg/Kg	1	☼	6010B	Total/NA
Nickel	19		0.53	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	1400		27	9.4	mg/Kg	1	☼	6010B	Total/NA
Silver	0.23	J	0.27	0.069	mg/Kg	1	☼	6010B	Total/NA
Sodium	1000		53	7.9	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 3516-01-B09 (0-2) (Continued) — Lab Sample ID: 500-147163-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	21	B	0.27	0.063	mg/Kg	1	☼	6010B	Total/NA
Zinc	55	B	1.1	0.47	mg/Kg	1	☼	6010B	Total/NA
Barium	0.32	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.031		0.025	0.010	mg/L	1		6010B	TCLP
Mercury	0.027		0.018	0.0060	mg/Kg	1	☼	7471B	Total/NA
pH	8.5		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3516-01-B08 (0-1.4) — Lab Sample ID: 500-147163-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.0046	J	0.0048	0.0019	mg/Kg	1	☼	8260B	Total/NA
Naphthalene	0.0059	J	0.038	0.0059	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.016	J	0.077	0.0070	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.0061	J	0.038	0.0050	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.0095	J	0.038	0.0068	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.073		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.012	J	0.038	0.0064	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.10		0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.11		0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.069		0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.093		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.14		0.038	0.0082	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.046		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.11		0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.045		0.038	0.0099	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.016	J	0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.058		0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.3		0.55	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	51	B	0.55	0.063	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.48		0.22	0.052	mg/Kg	1	☼	6010B	Total/NA
Boron	5.7	B	2.8	0.26	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.43	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Calcium	25000	B	11	1.9	mg/Kg	1	☼	6010B	Total/NA
Chromium	11		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.5	B	0.28	0.072	mg/Kg	1	☼	6010B	Total/NA
Copper	14	B	0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	14000	B	11	5.7	mg/Kg	1	☼	6010B	Total/NA
Lead	51		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	12000	B	5.5	2.7	mg/Kg	1	☼	6010B	Total/NA
Manganese	290	B	0.55	0.080	mg/Kg	1	☼	6010B	Total/NA
Nickel	15		0.55	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	930		28	9.8	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.41	J	0.55	0.32	mg/Kg	1	☼	6010B	Total/NA
Silver	0.15	J	0.28	0.071	mg/Kg	1	☼	6010B	Total/NA
Sodium	880		55	8.2	mg/Kg	1	☼	6010B	Total/NA
Vanadium	23	B	0.28	0.065	mg/Kg	1	☼	6010B	Total/NA
Zinc	61	B	1.1	0.48	mg/Kg	1	☼	6010B	Total/NA
Barium	0.32	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.067	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0020	J	0.0050	0.0020	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

Client Sample ID: 3516-01-B08 (0-1.4) (Continued) — Lab Sample ID: 500-147163-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.38		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.50		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.030		0.018	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	8.2		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3516-01-B07 (0-2) — Lab Sample ID: 500-147163-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.028	J	0.040	0.0055	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.048		0.040	0.0074	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.060		0.040	0.0079	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.047		0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.056		0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.12		0.040	0.0086	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.053		0.040	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.092		0.040	0.0077	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.049		0.040	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.018	J	0.040	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.044		0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Arsenic	4.5		0.57	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	120	B	0.57	0.065	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.40		0.23	0.054	mg/Kg	1	☼	6010B	Total/NA
Boron	6.4	B	2.9	0.27	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.35	B	0.11	0.021	mg/Kg	1	☼	6010B	Total/NA
Calcium	5500	B	11	1.9	mg/Kg	1	☼	6010B	Total/NA
Chromium	26		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.1	B	0.29	0.075	mg/Kg	1	☼	6010B	Total/NA
Copper	12	B	0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	12000	B	11	6.0	mg/Kg	1	☼	6010B	Total/NA
Lead	27		0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2700	B	5.7	2.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	260	B	0.57	0.083	mg/Kg	1	☼	6010B	Total/NA
Nickel	12		0.57	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	820		29	10	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.38	J	0.57	0.34	mg/Kg	1	☼	6010B	Total/NA
Silver	0.17	J	0.29	0.074	mg/Kg	1	☼	6010B	Total/NA
Sodium	960		57	8.5	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21	B	0.29	0.068	mg/Kg	1	☼	6010B	Total/NA
Zinc	48	B	1.1	0.50	mg/Kg	1	☼	6010B	Total/NA
Barium	0.19	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.11	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.79		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.50		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.024		0.019	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	8.5		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3516-01-B06 (0-2) — Lab Sample ID: 500-147163-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.0035	J	0.0047	0.0019	mg/Kg	1	☼	8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 3516-01-B06 (0-2) (Continued) — Lab Sample ID: 500-147163-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	0.012	J	0.039	0.0084	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.0076	J	0.039	0.0075	mg/Kg	1	☼	8270D	Total/NA
Arsenic	3.8		0.55	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	47	B	0.55	0.063	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.35		0.22	0.052	mg/Kg	1	☼	6010B	Total/NA
Boron	4.0	B	2.8	0.26	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.23	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Calcium	3900	B	11	1.9	mg/Kg	1	☼	6010B	Total/NA
Chromium	10		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	3.7	B	0.28	0.073	mg/Kg	1	☼	6010B	Total/NA
Copper	6.7	B	0.55	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	10000	B	11	5.8	mg/Kg	1	☼	6010B	Total/NA
Lead	8.0		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2100	B	5.5	2.7	mg/Kg	1	☼	6010B	Total/NA
Manganese	130	B	0.55	0.080	mg/Kg	1	☼	6010B	Total/NA
Nickel	9.0		0.55	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	560		28	9.8	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.51	J	0.55	0.33	mg/Kg	1	☼	6010B	Total/NA
Silver	0.13	J	0.28	0.071	mg/Kg	1	☼	6010B	Total/NA
Sodium	440		55	8.2	mg/Kg	1	☼	6010B	Total/NA
Vanadium	17	B	0.28	0.065	mg/Kg	1	☼	6010B	Total/NA
Zinc	29	B	1.1	0.49	mg/Kg	1	☼	6010B	Total/NA
Barium	0.15	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.091	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.11		0.025	0.010	mg/L	1		6010B	TCLP
Mercury	0.021		0.018	0.0060	mg/Kg	1	☼	7471B	Total/NA
pH	7.6		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3516-01-B05 (0-2) — Lab Sample ID: 500-147163-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.0030	J	0.0050	0.0020	mg/Kg	1	☼	8260B	Total/NA
Phenanthrene	0.012	J	0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.017	J	0.040	0.0074	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.017	J	0.040	0.0079	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.012	J	0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.014	J	0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.027	J	0.040	0.0086	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.024	J	0.040	0.0077	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.016	J	0.040	0.010	mg/Kg	1	☼	8270D	Total/NA
Arsenic	4.9		0.61	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	52	B	0.61	0.069	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.43		0.24	0.057	mg/Kg	1	☼	6010B	Total/NA
Boron	5.7	B	3.0	0.28	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.40	B	0.12	0.022	mg/Kg	1	☼	6010B	Total/NA
Calcium	12000	B	12	2.1	mg/Kg	1	☼	6010B	Total/NA
Chromium	11		0.61	0.30	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.5	B	0.30	0.080	mg/Kg	1	☼	6010B	Total/NA
Copper	11	B	0.61	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	11000	B	12	6.3	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 3516-01-B05 (0-2) (Continued) — Lab Sample ID: 500-147163-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	22		0.30	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	7100	B	6.1	3.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	290	B	0.61	0.088	mg/Kg	1	☼	6010B	Total/NA
Nickel	12		0.61	0.18	mg/Kg	1	☼	6010B	Total/NA
Potassium	870		30	11	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.53	J	0.61	0.36	mg/Kg	1	☼	6010B	Total/NA
Silver	0.16	J	0.30	0.078	mg/Kg	1	☼	6010B	Total/NA
Sodium	370		61	9.0	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20	B	0.30	0.072	mg/Kg	1	☼	6010B	Total/NA
Zinc	48	B	1.2	0.53	mg/Kg	1	☼	6010B	Total/NA
Barium	0.27	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.057	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.17		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.021	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.30		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.029		0.020	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	7.7		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3516-01-B04 (0-2) — Lab Sample ID: 500-147163-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.0035	J	0.0045	0.0018	mg/Kg	1	☼	8260B	Total/NA
Phenanthrene	0.0059	J	0.040	0.0055	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.0077	J	0.040	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.0059	J	0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.017	J	0.040	0.0086	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.014	J	0.040	0.0077	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.011	J	0.040	0.010	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.9		0.59	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	48	B	0.59	0.068	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.34		0.24	0.056	mg/Kg	1	☼	6010B	Total/NA
Boron	3.8	B	3.0	0.28	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.32	B	0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Calcium	4700	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Chromium	9.0		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	3.6	B	0.30	0.078	mg/Kg	1	☼	6010B	Total/NA
Copper	8.5	B	0.59	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	11000	B	12	6.2	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.30	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2200	B	5.9	2.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	170	B	0.59	0.086	mg/Kg	1	☼	6010B	Total/NA
Nickel	7.8		0.59	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	520		30	11	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.71		0.59	0.35	mg/Kg	1	☼	6010B	Total/NA
Silver	0.11	J	0.30	0.077	mg/Kg	1	☼	6010B	Total/NA
Sodium	270		59	8.8	mg/Kg	1	☼	6010B	Total/NA
Vanadium	17	B	0.30	0.070	mg/Kg	1	☼	6010B	Total/NA
Zinc	33	B	1.2	0.52	mg/Kg	1	☼	6010B	Total/NA
Barium	0.18	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.073	J	0.50	0.050	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

Client Sample ID: 3516-01-B04 (0-2) (Continued) — Lab Sample ID: 500-147163-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.10		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.031	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.026		0.020	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	7.1		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3516-01-B03 (0-2) — Lab Sample ID: 500-147163-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.0045		0.0043	0.0017	mg/Kg	1	☼	8260B	Total/NA
Benzo[a]anthracene	0.0061	J	0.037	0.0050	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.016	J	0.037	0.0080	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.015	J	0.037	0.0072	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.011	J	0.037	0.0096	mg/Kg	1	☼	8270D	Total/NA
Arsenic	3.6		0.55	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	30	B	0.55	0.063	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.26		0.22	0.052	mg/Kg	1	☼	6010B	Total/NA
Boron	2.7	J B	2.8	0.26	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.14	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Calcium	4800	B	11	1.9	mg/Kg	1	☼	6010B	Total/NA
Chromium	7.8		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	3.0	B	0.28	0.073	mg/Kg	1	☼	6010B	Total/NA
Copper	4.1	B	0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	8300	B	11	5.8	mg/Kg	1	☼	6010B	Total/NA
Lead	6.8		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2800	B	5.5	2.7	mg/Kg	1	☼	6010B	Total/NA
Manganese	110	B	0.55	0.080	mg/Kg	1	☼	6010B	Total/NA
Nickel	7.0		0.55	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	410		28	9.8	mg/Kg	1	☼	6010B	Total/NA
Silver	0.15	J	0.28	0.071	mg/Kg	1	☼	6010B	Total/NA
Sodium	250		55	8.2	mg/Kg	1	☼	6010B	Total/NA
Vanadium	14	B	0.28	0.065	mg/Kg	1	☼	6010B	Total/NA
Zinc	19	B	1.1	0.49	mg/Kg	1	☼	6010B	Total/NA
Barium	0.24	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.080	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.49		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.051	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.26		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.018	J	0.019	0.0063	mg/Kg	1	☼	7471B	Total/NA
pH	7.8		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3516-01-B02 (0-2) — Lab Sample ID: 500-147163-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.0062		0.0048	0.0019	mg/Kg	1	☼	8260B	Total/NA
Phenanthrene	0.061		0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.056		0.040	0.0075	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.062		0.040	0.0080	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.030	J	0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.046		0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.059		0.040	0.0087	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 3516-01-B02 (0-2) (Continued) — Lab Sample ID: 500-147163-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[k]fluoranthene	0.024	J	0.040	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.040		0.040	0.0078	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.026	J	0.040	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.011	J	0.040	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.015	J	0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.2		0.60	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	52	B	0.60	0.069	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.46		0.24	0.056	mg/Kg	1	☼	6010B	Total/NA
Boron	5.9	B	3.0	0.28	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.41	B	0.12	0.022	mg/Kg	1	☼	6010B	Total/NA
Calcium	7900	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Chromium	12		0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.3	B	0.30	0.079	mg/Kg	1	☼	6010B	Total/NA
Copper	12	B	0.60	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	13000	B	12	6.3	mg/Kg	1	☼	6010B	Total/NA
Lead	37		0.30	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	4300	B	6.0	3.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	230	B	0.60	0.087	mg/Kg	1	☼	6010B	Total/NA
Nickel	13		0.60	0.18	mg/Kg	1	☼	6010B	Total/NA
Potassium	940		30	11	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.38	J	0.60	0.35	mg/Kg	1	☼	6010B	Total/NA
Silver	0.17	J	0.30	0.078	mg/Kg	1	☼	6010B	Total/NA
Sodium	690		60	8.9	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22	B	0.30	0.071	mg/Kg	1	☼	6010B	Total/NA
Zinc	58	B	1.2	0.53	mg/Kg	1	☼	6010B	Total/NA
Barium	0.22	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.099	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.24		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.063	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.36		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.031		0.018	0.0060	mg/Kg	1	☼	7471B	Total/NA
pH	7.8		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3516-01-B01 (0-2) — Lab Sample ID: 500-147163-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.015	J	0.017	0.0072	mg/Kg	1	☼	8260B	Total/NA
Methylene Chloride	0.0033	J	0.0042	0.0016	mg/Kg	1	☼	8260B	Total/NA
2-Methylnaphthalene	0.025	J	0.074	0.0068	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.023	J	0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.0091	J	0.036	0.0068	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.0099	J	0.036	0.0073	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.0068	J	0.036	0.0049	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.017	J	0.036	0.0079	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.015	J	0.036	0.0071	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.012	J	0.036	0.0095	mg/Kg	1	☼	8270D	Total/NA
Arsenic	4.9		0.56	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	65	B	0.56	0.064	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.43		0.22	0.052	mg/Kg	1	☼	6010B	Total/NA
Boron	3.7	B	2.8	0.26	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 3516-01-B01 (0-2) (Continued)

Lab Sample ID: 500-147163-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.28	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Calcium	3700	B	11	1.9	mg/Kg	1	☼	6010B	Total/NA
Chromium	11		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.1	B	0.28	0.073	mg/Kg	1	☼	6010B	Total/NA
Copper	9.3	B	0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	11000	B	11	5.8	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2100	B	5.6	2.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	360	B	0.56	0.081	mg/Kg	1	☼	6010B	Total/NA
Nickel	12		0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	790		28	9.9	mg/Kg	1	☼	6010B	Total/NA
Silver	0.19	J	0.28	0.072	mg/Kg	1	☼	6010B	Total/NA
Sodium	550		56	8.3	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21	B	0.28	0.066	mg/Kg	1	☼	6010B	Total/NA
Zinc	38	B	1.1	0.49	mg/Kg	1	☼	6010B	Total/NA
Barium	0.18	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.23		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.088	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.41		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.028		0.018	0.0061	mg/Kg	1	☼	7471B	Total/NA
pH	8.4		0.20	0.20	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - 176-001-WO045

TestAmerica Job ID: 500-147163-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-147163-1	3516-01-B16 (0-1.8)	Solid	06/19/18 12:50	06/19/18 16:55
500-147163-2	3516-01-B15 (0-1.8)	Solid	06/19/18 13:10	06/19/18 16:55
500-147163-3	3516-01-B14 (0-2)	Solid	06/19/18 13:20	06/19/18 16:55
500-147163-4	3516-01-B13 (0-2)	Solid	06/19/18 13:30	06/19/18 16:55
500-147163-5	3516-01-B12 (0-2)	Solid	06/19/18 13:35	06/19/18 16:55
500-147163-6	3516-01-B12 (0-2)D	Solid	06/19/18 13:35	06/19/18 16:55
500-147163-7	3516-01-B11 (0-2)	Solid	06/19/18 13:45	06/19/18 16:55
500-147163-8	3516-01-B10 (0-2)	Solid	06/19/18 13:55	06/19/18 16:55
500-147163-9	3516-01-B09 (0-2)	Solid	06/19/18 14:00	06/19/18 16:55
500-147163-10	3516-01-B08 (0-1.4)	Solid	06/19/18 14:05	06/19/18 16:55
500-147163-11	3516-01-B07 (0-2)	Solid	06/19/18 14:15	06/19/18 16:55
500-147163-12	3516-01-B06 (0-2)	Solid	06/19/18 14:25	06/19/18 16:55
500-147163-13	3516-01-B05 (0-2)	Solid	06/19/18 14:30	06/19/18 16:55
500-147163-14	3516-01-B04 (0-2)	Solid	06/19/18 14:40	06/19/18 16:55
500-147163-15	3516-01-B03 (0-2)	Solid	06/19/18 14:45	06/19/18 16:55
500-147163-16	3516-01-B02 (0-2)	Solid	06/19/18 14:50	06/19/18 16:55
500-147163-17	3516-01-B01 (0-2)	Solid	06/19/18 14:55	06/19/18 16:55

Client Sample ID: 3516-01-B16 (0-1.8)

Date Collected: 06/19/18 12:50
Date Received: 06/19/18 16:55

Lab Sample ID: 500-147163-1

Matrix: Solid
Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0071	mg/Kg	☼	06/19/18 17:51	06/25/18 23:44	1
Benzene	<0.0016		0.0016	0.00042	mg/Kg	☼	06/19/18 17:51	06/25/18 23:44	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	☼	06/19/18 17:51	06/25/18 23:44	1
Bromoform	<0.0016		0.0016	0.00048	mg/Kg	☼	06/19/18 17:51	06/25/18 23:44	1
Bromomethane	<0.0041	*	0.0041	0.0015	mg/Kg	☼	06/19/18 17:51	06/25/18 23:44	1
2-Butanone (MEK)	<0.0041		0.0041	0.0018	mg/Kg	☼	06/19/18 17:51	06/25/18 23:44	1
Carbon disulfide	<0.0041		0.0041	0.00085	mg/Kg	☼	06/19/18 17:51	06/25/18 23:44	1
Carbon tetrachloride	<0.0016		0.0016	0.00048	mg/Kg	☼	06/19/18 17:51	06/25/18 23:44	1
Chlorobenzene	<0.0016		0.0016	0.00060	mg/Kg	☼	06/19/18 17:51	06/25/18 23:44	1
Chloroethane	<0.0041	*	0.0041	0.0012	mg/Kg	☼	06/19/18 17:51	06/25/18 23:44	1
Chloroform	<0.0016		0.0016	0.00057	mg/Kg	☼	06/19/18 17:51	06/25/18 23:44	1
Chloromethane	<0.0041	*	0.0041	0.0016	mg/Kg	☼	06/19/18 17:51	06/25/18 23:44	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00046	mg/Kg	☼	06/19/18 17:51	06/25/18 23:44	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00049	mg/Kg	☼	06/19/18 17:51	06/25/18 23:44	1
Dibromochloromethane	<0.0016		0.0016	0.00054	mg/Kg	☼	06/19/18 17:51	06/25/18 23:44	1
1,1-Dichloroethane	<0.0016		0.0016	0.00056	mg/Kg	☼	06/19/18 17:51	06/25/18 23:44	1
1,2-Dichloroethane	<0.0041		0.0041	0.0013	mg/Kg	☼	06/19/18 17:51	06/25/18 23:44	1
1,1-Dichloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	06/19/18 17:51	06/25/18 23:44	1
1,2-Dichloropropane	<0.0016		0.0016	0.00042	mg/Kg	☼	06/19/18 17:51	06/25/18 23:44	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00058	mg/Kg	☼	06/19/18 17:51	06/25/18 23:44	1
Ethylbenzene	<0.0016		0.0016	0.00078	mg/Kg	☼	06/19/18 17:51	06/25/18 23:44	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	06/19/18 17:51	06/25/18 23:44	1
Methylene Chloride	**0.0026**	**J**	0.0041	0.0016	mg/Kg	☼	06/19/18 17:51	06/25/18 23:44	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0012	mg/Kg	☼	06/19/18 17:51	06/25/18 23:44	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00048	mg/Kg	☼	06/19/18 17:51	06/25/18 23:44	1
Styrene	<0.0016		0.0016	0.00049	mg/Kg	☼	06/19/18 17:51	06/25/18 23:44	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00052	mg/Kg	☼	06/19/18 17:51	06/25/18 23:44	1
Tetrachloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	06/19/18 17:51	06/25/18 23:44	1
Toluene	<0.0016		0.0016	0.00041	mg/Kg	☼	06/19/18 17:51	06/25/18 23:44	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00073	mg/Kg	☼	06/19/18 17:51	06/25/18 23:44	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00058	mg/Kg	☼	06/19/18 17:51	06/25/18 23:44	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00055	mg/Kg	☼	06/19/18 17:51	06/25/18 23:44	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00070	mg/Kg	☼	06/19/18 17:51	06/25/18 23:44	1
Trichloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	06/19/18 17:51	06/25/18 23:44	1
Vinyl acetate	<0.0041		0.0041	0.0014	mg/Kg	☼	06/19/18 17:51	06/25/18 23:44	1
Vinyl chloride	<0.0016		0.0016	0.00072	mg/Kg	☼	06/19/18 17:51	06/25/18 23:44	1
Xylenes, Total	<0.0033		0.0033	0.00052	mg/Kg	☼	06/19/18 17:51	06/25/18 23:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*75 - 131*	*06/19/18 17:51*	*06/25/18 23:44*	*1*
Dibromofluoromethane	*110*		*75 - 126*	*06/19/18 17:51*	*06/25/18 23:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 134*	*06/19/18 17:51*	*06/25/18 23:44*	*1*
Toluene-d8 (Surr)	*111*		*75 - 124*	*06/19/18 17:51*	*06/25/18 23:44*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.086	mg/Kg	☼	06/20/18 18:49	06/22/18 20:24	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	06/20/18 18:49	06/22/18 20:24	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	06/20/18 18:49	06/22/18 20:24	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	06/20/18 18:49	06/22/18 20:24	1

Client Sample ID: 3516-01-B16 (0-1.8)
Date Collected: 06/19/18 12:50
Date Received: 06/19/18 16:55

Lab Sample ID: 500-147163-1
Matrix: Solid
Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	06/20/18 18:49	06/22/18 20:24	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	06/20/18 18:49	06/22/18 20:24	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	06/20/18 18:49	06/22/18 20:24	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	06/20/18 18:49	06/22/18 20:24	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	06/20/18 18:49	06/22/18 20:24	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	06/20/18 18:49	06/22/18 20:24	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	06/20/18 18:49	06/22/18 20:24	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	06/20/18 18:49	06/22/18 20:24	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	06/20/18 18:49	06/22/18 20:24	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	06/20/18 18:49	06/22/18 20:24	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	06/20/18 18:49	06/22/18 20:24	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	06/20/18 18:49	06/22/18 20:24	1
Naphthalene	**0.0074**	**J**	0.038	0.0059	mg/Kg	☼	06/20/18 18:49	06/22/18 20:24	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	06/20/18 18:49	06/22/18 20:24	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	06/20/18 18:49	06/22/18 20:24	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	06/20/18 18:49	06/22/18 20:24	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	06/20/18 18:49	06/22/18 20:24	1
Hexachlorocyclopentadiene	<0.78	F1	0.78	0.22	mg/Kg	☼	06/20/18 18:49	06/22/18 20:24	1
2-Methylnaphthalene	**0.031**	**J**	0.078	0.0071	mg/Kg	☼	06/20/18 18:49	06/22/18 20:24	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	06/20/18 18:49	06/22/18 20:24	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	06/20/18 18:49	06/22/18 20:24	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	06/20/18 18:49	06/22/18 20:24	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	06/20/18 18:49	06/22/18 20:24	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	06/20/18 18:49	06/22/18 20:24	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	06/20/18 18:49	06/22/18 20:24	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	06/20/18 18:49	06/22/18 20:24	1
2,4-Dinitrophenol	<0.78	F2	0.78	0.68	mg/Kg	☼	06/20/18 18:49	06/22/18 20:24	1
Acenaphthylene	**0.035**	**J**	0.038	0.0051	mg/Kg	☼	06/20/18 18:49	06/22/18 20:24	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	06/20/18 18:49	06/22/18 20:24	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	06/20/18 18:49	06/22/18 20:24	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	06/20/18 18:49	06/22/18 20:24	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	06/20/18 18:49	06/22/18 20:24	1
Fluorene	**0.0060**	**J**	0.038	0.0054	mg/Kg	☼	06/20/18 18:49	06/22/18 20:24	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	06/20/18 18:49	06/22/18 20:24	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	06/20/18 18:49	06/22/18 20:24	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	06/20/18 18:49	06/22/18 20:24	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	06/20/18 18:49	06/22/18 20:24	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	06/20/18 18:49	06/22/18 20:24	1
Pentachlorophenol	<0.78	F1	0.78	0.62	mg/Kg	☼	06/20/18 18:49	06/22/18 20:24	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	06/20/18 18:49	06/22/18 20:24	1
4,6-Dinitro-2-methylphenol	<0.78	F2	0.78	0.31	mg/Kg	☼	06/20/18 18:49	06/22/18 20:24	1
Phenanthrene	**0.10**		0.038	0.0054	mg/Kg	☼	06/20/18 18:49	06/22/18 20:24	1
Anthracene	**0.020**	**J**	0.038	0.0065	mg/Kg	☼	06/20/18 18:49	06/22/18 20:24	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	06/20/18 18:49	06/22/18 20:24	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	06/20/18 18:49	06/22/18 20:24	1
Fluoranthene	**0.14**		0.038	0.0072	mg/Kg	☼	06/20/18 18:49	06/22/18 20:24	1
Pyrene	**0.17**		0.038	0.0077	mg/Kg	☼	06/20/18 18:49	06/22/18 20:24	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	06/20/18 18:49	06/22/18 20:24	1
Benzo[a]anthracene	**0.13**		0.038	0.0052	mg/Kg	☼	06/20/18 18:49	06/22/18 20:24	1

Client Sample ID: 3516-01-B16 (0-1.8)
Date Collected: 06/19/18 12:50
Date Received: 06/19/18 16:55

Lab Sample ID: 500-147163-1
Matrix: Solid
Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	**0.17**		0.038	0.011	mg/Kg	☼	06/20/18 18:49	06/22/18 20:24	1
3,3'-Dichlorobenzidine	<0.19	F1 F2	0.19	0.054	mg/Kg	☼	06/20/18 18:49	06/22/18 20:24	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	06/20/18 18:49	06/22/18 20:24	1
Di-n-octyl phthalate	<0.19	F1	0.19	0.063	mg/Kg	☼	06/20/18 18:49	06/22/18 20:24	1
Benzo[b]fluoranthene	**0.25**		0.038	0.0083	mg/Kg	☼	06/20/18 18:49	06/22/18 20:24	1
Benzo[k]fluoranthene	**0.079**		0.038	0.011	mg/Kg	☼	06/20/18 18:49	06/22/18 20:24	1
Benzo[a]pyrene	**0.18**		0.038	0.0075	mg/Kg	☼	06/20/18 18:49	06/22/18 20:24	1
Indeno[1,2,3-cd]pyrene	**0.088**	**F1**	0.038	0.010	mg/Kg	☼	06/20/18 18:49	06/22/18 20:24	1
Dibenz(a,h)anthracene	**0.028**	**J F1**	0.038	0.0075	mg/Kg	☼	06/20/18 18:49	06/22/18 20:24	1
Benzo[g,h,i]perylene	**0.098**	**F1**	0.038	0.012	mg/Kg	☼	06/20/18 18:49	06/22/18 20:24	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	06/20/18 18:49	06/22/18 20:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*112*		*46 - 133*	*06/20/18 18:49*	*06/22/18 20:24*	*1*
Phenol-d5	*101*		*46 - 125*	*06/20/18 18:49*	*06/22/18 20:24*	*1*
Nitrobenzene-d5	*96*		*41 - 120*	*06/20/18 18:49*	*06/22/18 20:24*	*1*
2-Fluorobiphenyl	*103*		*44 - 121*	*06/20/18 18:49*	*06/22/18 20:24*	*1*
2,4,6-Tribromophenol	*90*		*25 - 139*	*06/20/18 18:49*	*06/22/18 20:24*	*1*
Terphenyl-d14	*105*		*35 - 160*	*06/20/18 18:49*	*06/22/18 20:24*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1	F1	1.1	0.22	mg/Kg	☼	06/20/18 16:23	06/21/18 14:55	1
Arsenic	**7.0**	**F1**	0.57	0.20	mg/Kg	☼	06/20/18 16:23	06/21/18 14:55	1
Barium	**56**	**B**	0.57	0.065	mg/Kg	☼	06/20/18 16:23	06/21/18 14:55	1
Beryllium	**0.40**		0.23	0.053	mg/Kg	☼	06/20/18 16:23	06/21/18 14:55	1
Boron	**5.2**	**B F1**	2.9	0.27	mg/Kg	☼	06/20/18 16:23	06/21/18 14:55	1
Cadmium	**0.53**	**B**	0.11	0.021	mg/Kg	☼	06/20/18 16:23	06/21/18 14:55	1
Calcium	**38000**	**B**	57	9.7	mg/Kg	☼	06/20/18 16:23	06/22/18 13:00	5
Chromium	**11**		0.57	0.28	mg/Kg	☼	06/20/18 16:23	06/21/18 14:55	1
Cobalt	**5.8**	**B**	0.29	0.075	mg/Kg	☼	06/20/18 16:23	06/21/18 14:55	1
Copper	**16**	**B F1**	0.57	0.16	mg/Kg	☼	06/20/18 16:23	06/21/18 14:55	1
Iron	**13000**	**B**	11	6.0	mg/Kg	☼	06/20/18 16:23	06/21/18 14:55	1
Lead	**45**		0.29	0.13	mg/Kg	☼	06/20/18 16:23	06/21/18 14:55	1
Magnesium	**17000**	**B F2**	5.7	2.8	mg/Kg	☼	06/20/18 16:23	06/21/18 14:55	1
Manganese	**390**	**B**	0.57	0.083	mg/Kg	☼	06/20/18 16:23	06/21/18 14:55	1
Nickel	**13**		0.57	0.17	mg/Kg	☼	06/20/18 16:23	06/21/18 14:55	1
Potassium	**950**	**F1**	29	10	mg/Kg	☼	06/20/18 16:23	06/21/18 14:55	1
Selenium	**0.34**	**J F1**	0.57	0.34	mg/Kg	☼	06/20/18 16:23	06/21/18 14:55	1
Silver	**0.16**	**J**	0.29	0.074	mg/Kg	☼	06/20/18 16:23	06/21/18 14:55	1
Sodium	**310**		57	8.5	mg/Kg	☼	06/20/18 16:23	06/21/18 14:55	1
Thallium	<0.57		0.57	0.29	mg/Kg	☼	06/20/18 16:23	06/21/18 14:55	1
Vanadium	**16**	**B**	0.29	0.068	mg/Kg	☼	06/20/18 16:23	06/21/18 14:55	1
Zinc	**73**	**B**	1.1	0.50	mg/Kg	☼	06/20/18 16:23	06/21/18 14:55	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.38**	**J**	0.50	0.050	mg/L		06/21/18 15:07	06/22/18 15:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		06/21/18 15:07	06/22/18 15:27	1
Boron	**0.064**	**J**	0.50	0.050	mg/L		06/21/18 15:07	06/22/18 15:27	1